Re: Foundry Rd. Site

Mark Keller <mkeller131@comcast.net>

Tue 8/3/2021 5:09 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

1 attachments (5 MB)

Video.mov;

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Caitlin

Chris is going to try to get together what he needs to take that lid off tomorrow so you guys and he can see what you can see. If this is oriented how I think it is, it appears whatever those black dots are is coming in from a seam on the downstream side. The creek is fully boomed multiple places so It's not coming from there. It would have to be coming from somewhere else. It also doesn't appear to be gasoline as it would not look like this in water. We hand augered and probed along this line and did not find contamination of the kind we are looking for for a UST in the samples we obtained. The mystery continues.

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 3, 2021, at 4:41 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

I'm sorry I missed your call, I was in a meeting with Ms. Gorman and Ashleigh. She actually walked across the building to track me down.... 😬We haven't talked to Mr. Prince yet but it seems the main complaint has actually come from Ms. Wilkie the City Manager. We tried to give her a call, but she was unavailable, so we were thinking to have a conference call tomorrow so there won't be all this back and forth or confusion. Are you available around 2pm tomorrow afternoon? I'm sure they will both have questions about the site, and you might be the best to answer them since you've been on site the most and after probing that many holes, probably know the site like the back of your hand!

Let me know if that works for you!

Thanks,
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Gorman, Angela <gormanak@dhec.sc.gov>
Sent: Monday, August 2, 2021 4:08 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Fw: Foundry Rd. Site

Caitlin,
See forwarded e-mail as a follow-up to my voice message on 8/2. Please contact me at your earliest convenience to let me know the status of this UST assessment/cleanup.
Thanks,
Angela

Angela Gorman
Hydrogeologist
Brownfields Program
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0929
Connect: www.scdhec.gov Facebook Twitter

From: Julie Wilkie <julie.wilkie@gwdcity.com>
Sent: Monday, August 2, 2021 12:02 PM
To: Gorman, Angela <gormanak@dhec.sc.gov>
Subject: Foundry Rd. Site

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good Afternoon Angela –

I am reaching out to determine the status of the UST issue adjacent to the City's future park on Foundry Rd.
Several months ago, I met on site with staff from Davis & Floyd, Josh Skinner (Gwood County) and Michael Hayes (DHEC) to discuss a sewer issue.
While on site, Michael & I discussed the issues with the gas station at 1302 S. Main Street. You may be aware of the issues impacting our site.

It was my understanding that the clean up was being addressed through the Superfund. However, on July 21st we once again smelled gas on our site (near the storm drain) and my Public Works Director took the attached video from inside the box.

I am concerned about how this ongoing problem may impact our cleanup and park development efforts.

Do you have time for a call?

THANKS!

Julie

Julie M. Wilkie
City Manager
520 Monument St., PO Box 40
Greenwood, SC 29648
o: 864.942.8410
f: 864.942.8470
m: 864.377.5286
www.cityofgreenwoodsc.com

RE: UST 04785 - Fw: Foundry Rd. Greenwood County

Mark Lee Keller <mkeller131@comcast.net>

Tue 8/3/2021 4:21 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Caitlin,

The email chain regarding the fumes is from March. All I see is Mr. Prince asking for an update on Friday. The emails before that are from almost 5 months ago.

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Tuesday, August 3, 2021 2:14 PM
To: mkeller131@comcast.net
Subject: UST 04785 - Fw: Foundry Rd. Greenwood County

Hey Mark,

Here is the email chain I received, Mr. Prince is really concerned about the smell coming from the drain and mysterious pipe. Tomorrow Malayika and I are going to make a site visit to observe the well installations. I know you said Petra Tech will be putting in the wells, but will Chris be on site tomorrow for the AFVR event? We can also take some PID readings of the drains to see how bad the smell is after all this rain we've gotten lately. I had a sit down with Mihir and Ashleigh this afternoon to discuss the complaint and quotes for the drain exploration. They suggested until we can figure out where the pipe is coming from that a boom could be placed in there or some of the dirty soil around the pipe be removed? What do you think? We have selected a quote so I will get you a Notice to proceed letter asap. I have also attached a video of the drain. It looks like someone from the city's public works department got the lid off and took this video, the water seems to be moving pretty good.

I left you a voicemail as well. Give me a call back or shoot me an email, whichever is easier for you!

Thanks,
Caitlin

Caitlin Reilly

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Monday, August 2, 2021 2:58 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Fwd: Foundry Rd. Greenwood County

See below. We will need to get together to discuss tomorrow
Get Outlook for iOS

From: Patrick Prince <pprince@gwdscha.com>
Sent: Friday, July 30, 2021 12:06:59 PM
To: Toth, Delaney C. <tothdc@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: RE: Foundry Rd. Greenwood County

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
I just wanted to follow up on this leak. I know that they have been conducting ground water tests. Have those results been returned? Is my property affected? Also, is there any possible timeline for how much longer we have to breath this stuff?
Thank you,
Patrick

From: Toth, Delaney C. <tothdc@dhec.sc.gov>
Sent: Friday, March 26, 2021 12:10 PM
To: Patrick Prince <pprince@gwdscha.com>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: Foundry Rd. Greenwood County

Mr. Prince,

We are investigating the situation. I will keep you updated as we know more.

Thanks,
Delaney

Delaney Toth, Hydrogeologist
Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-2818

Connect: www.scdhec.gov Facebook Twitter

From: Patrick Prince <pprince@gwdscha.com>
Sent: Friday, March 26, 2021 11:56 AM
To: Toth, Delaney C. <tothdc@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: Foundry Rd. Greenwood County

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Delaney,
Just to let you know, the fumes along Foundry Road are overwhelming during this rain. Someone is going to get sick.
Patrick

Outlook for iOS

From: Toth, Delaney C. <tothdc@dhec.sc.gov>
Sent: Tuesday, February 2, 2021 9:15:56 AM
To: Patrick Prince <pprince@gwdscha.com>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: Foundry Rd. Greenwood County

Patrick,

The clean-up is currently in progress. It will continue until the contamination is at or below our risk-based screening levels or until it reaches site-specific target levels to ensure the health and safety of humans and the environment.

Delaney Toth, Hydrogeologist
Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-2818

Connect: www.scdhec.gov Facebook Twitter

From: Patrick Prince <pprince@gwdscha.com>
Sent: Tuesday, February 2, 2021 7:34 AM
To: Toth, Delaney C. <tothdc@dhec.sc.gov>
Subject: RE: Foundry Rd. Greenwood County

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Thank you for your response Delaney. Has DHEC set any timeline for the clean-up process or could this be an ongoing issue indefinitely?
Patrick

From: Toth, Delaney C. <tothdc@dhec.sc.gov>
Sent: Monday, February 1, 2021 11:05 AM
To: Patrick Prince <pprince@gwdscha.com>
Cc: Long, Keisha <longkd@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D <AriailRD@dhec.sc.gov>
Subject: Foundry Rd. Greenwood County

Good Morning Mr. Prince,

Thank you for reaching out to Ms. Long about your concern relating to the creek near the Greenwood Housing Authority. I am the project manager for Non-Permitted Petroleum in Greenwood County.

DHEC has been investigating the source of the odor and the sheen found on the creek along Foundry Road. The property owner of 104 E. Kirksey Dr. (formerly operated as Petroleum Products) has hired an environmental consultant to abate and assess the concerns in the creek. Abatement has been ongoing and absorbent booms have been installed along the creek. The creek has also been rerouted. An assessment by his consultant is currently on-going to determine the extent and source of the contamination.

If you have any further questions, please feel free to reach out to me.

Best,
Delaney

Delaney Toth, Hydrogeologist
Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-2818

Connect: www.scdhec.gov Facebook Twitter

Re: #04785 Sampling

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Mon 8/30/2021 8:47 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

Mark,

Sounds good, thanks!

Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, August 27, 2021 3:47 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>
Subject: #04785 Sampling

Caitlin & Malayika,

We are going to try to finish the sampling/slug tests on the wells we do have left on Wednesday through Thursday of next week, September 1st & 2nd.

Thanks

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

FW: Foundry Rd Pipe

Mark Lee Keller <mkeller131@comcast.net>

Mon 8/30/2021 11:36 AM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Caitlin,

I got these photos from Julie Wilkie today. We asked her last week if they could investigate for us the ultimate route of the storm drain when it left the manhole we have all visited several times. They went back and took the lid off the storm drain. It does appear to go into the Foundry property and not down the side of the road as our maps show. It may be dumping into the small pond on site as her map showed. If that is occurring, we may have another area of contamination we have not addressed as that pond may be a new source area after the contaminated water is transmitted down the drain pipe and ends up in the settling pond. That pond ultimately overflows back into the drainage system and down the line to the housing authority. We have a boom installed over this pond which was installed in the beginning. While discussions are ongoing about the free product delineation approach around MW-14 on the Foundry site, this potential issue may need to be addressed. We may need to delineate in the area of this pond if we can access it. It may take a bulldozer to get there as the area is not accessible by a drill rig currently.

Sorry for complicating this site to a new level!!!

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

UST DOCKETING 6 Ceh

From: Julie Wilkie <julie.wilkie@gwdcity.com>
Sent: Monday, August 30, 2021 11:19 AM
To: Mark Lee Keller <mkeller131@comcast.net>
Subject: FW: Foundry Rd Pipe

Mark –

I asked my staff to take some photos from inside that box with the gas present. Appears only 1 line coming in (from the Smith property) and 1 going one (angled onto the Foundry site).
Thought this may help you..

Any additional word on the extent of the gasoline on our site?

Julie

Julie M. Wilkie

City Manager
864.942.8410

From: Erek Leary <erek.leary@gwdcity.com>
Sent: Monday, August 30, 2021 9:10 AM
To: Julie Wilkie <julie.wilkie@gwdcity.com>
Subject: Foundry Rd Pipe

Julie,

Picture one is taken with me standing on Foundry Rd facing the new park site. Corner of the box is where the pipe is exiting heading towards the new park property.

Picture two shows a close up of picture one.

Picture three shows the pipe coming in from across Foundry Rd.

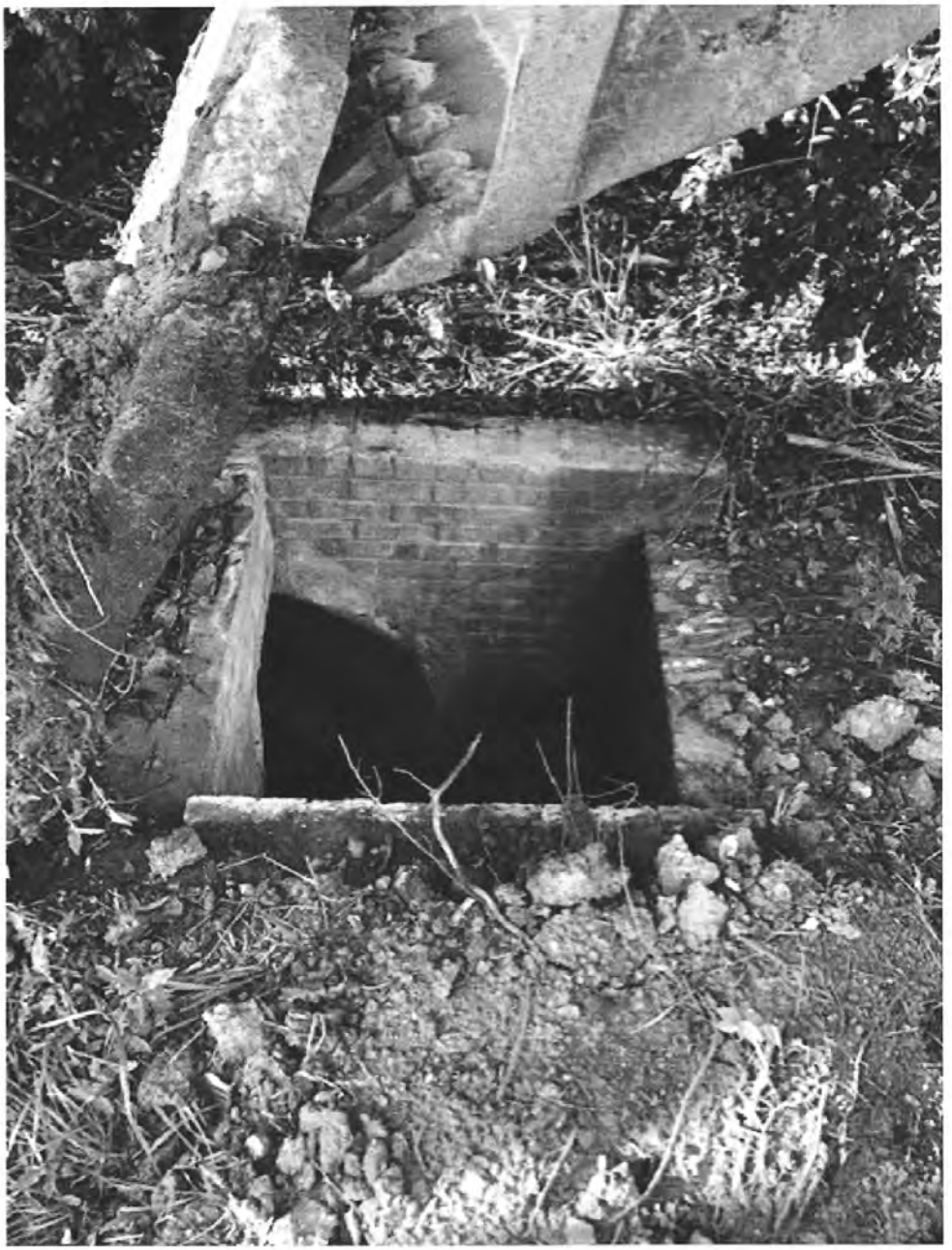
Picture four is another angle of picture one.

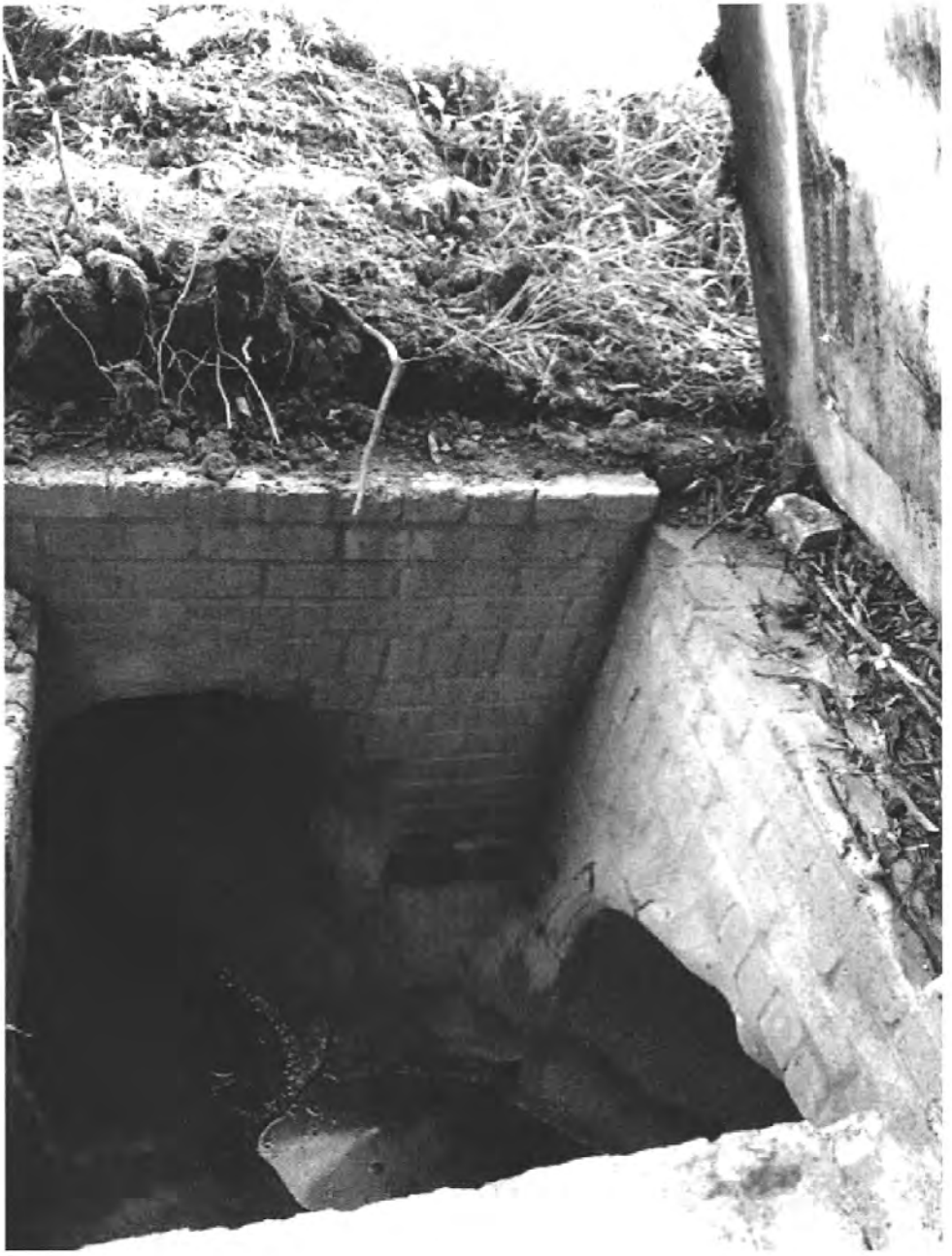
Picture five is pipe coming into box from across Foundry Rd (top left opening) and leaving box heading towards new park site (bottom right opening).

Picture six is pipe coming into box from across Foundry Rd (top right opening) and leaving box heading towards new park site (bottom left opening).

Let me know if you have any questions.

From: Erek Leary <erek.leary@gwdcity.com>
Sent: Monday, August 30, 2021 8:56 AM
To: Erek Leary <erek.leary@gwdcity.com>
Subject: Pics





Sent from my iPhone

Re: Compiled quotes for Greenwood Drain Clearing

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Fri 7/30/2021 11:40 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: 'Graham Robinson' <grahampatrickrobinson@gmail.com>

Mark,

I haven't really had much experience looking over quotes like these before so I will get with Ashleigh next week to see what she thinks. She's out today and I will be in Spartanburg on Monday but I'm going to try to sit down with her on Tuesday.

I'll let you know what she has to say, this pipe has really turned out to be a pain!

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, July 30, 2021 11:31 AM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: 'Graham Robinson' <grahampatrickrobinson@gmail.com>
Subject: FW: Compiled quotes for Greenwood Drain Clearing

Caitlin,

Here is what we have been able to obtain on the drain cleaning and subsequent jetting at Quick Pantry # 19 in Greenwood. We have these three written quotes, plus one verbal. The main issue is, each quote is really by the hour with an unknown total of hours. They don't know what they are up against and neither do we. None of the quotes here included waste disposal which will require a vacuum truck. What will also be needed is a lane closure as the equipment will not fit safely in this area. I have attached two quotes we have received for that. We are waiting on two more. For disposal collection and disposal of the waste, the only way I know to handle that cost since the total time to perform the cleanout is unknown, is to treat it like an AFVR event and use 8 hour AFVR event charges for each day since the vac truck must operate to collect all waste generated, then take that for disposal. There will be soil/trash and groundwater. This is an unknown duration scope and this is the best we can do on pricing

due to the unknowns. Let me know what you think. I know we need to find out why we have gasoline dripping out of this pipe and it makes zero sense to me since the pipe is well above the water table here.

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Graham Robinson <grobinson2019@comcast.net>
Sent: Monday, July 26, 2021 4:53 PM
To: mkeller131@comcast.net
Subject: Compiled quotes for Greenwood Drain Clearing

Mark,

I'm attaching the three quotes we have received for the drain clearing job on Foundry Rd.

The fourth quote was from Drain Pro of SC - $500 start up fee + $250 per hour.

I started to draft an email to send to the project managers but I wanted you to take a look first. The quote from Pascon is much better than what Butter told me. They sent their quote in at $3,683. I was under the impression that their quote was $14,000. $3,683 does not seem to be a bad price considering it includes clean up and video inspection as well. From what Butter has told me, this does not include waste disposal, so we would still have to handle that, but I'd probably need to call and double check on that.

Should I include the Drain Pro quote in the email to the project manager? He would not send me a pdf copy of the quote because he said he claimed he couldn't really do the job unless we mobilized a vac truck to help, so he wanted us to submit a quote ourselves if we intended to use his services. I am unsure of how to communicate that to the project manager or if I should even include it.

Let me know how to proceed,

Graham Robinson
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC. 29445
Phone: 985-789-3065

PROPOSAL

P & S CONSTRUCTION, CO, INC.
2111 TWO NOTCH RD
Lexington, SC 29072
(803)359-9334

SUBMITTED TO: KLM ENVIORNMENTAL

ADDRESS:

DATE: JULY 16, 2021

ATTENTION: CHRIS

We propose hereby to furnish material and labor—complete in accordance with specifications below for the sum of:

Three Thousand Six Hundred Eighty-Three and 00/100 Dollars ($3683.00). per working 10 hour working day including travel time.

Price includes Combination Truck, Video Inspection Truck, and Crew to clean, and video inspect Storm Drain located in Greenwood SC. Price is for a 10-hour working day to include travel portal to portal. Price is for work to take place during normal business hours of Mon-Fri 7:30 am to 5:00 pm.

Payment to be made as follows:
Net 30 days; 1.5% interest on unpaid balance after 30 days.

All materials are guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from specifications below involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.

Authorized Signature: *Ashleigh Griffith*

Note: This proposal may be withdrawn by us if not accepted within 30 days.

Acceptance of Proposal—The above prices, specifications and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature:_____ Date of Acceptance:_____

ROTO-ROOTER®
PLUMBING & DRAIN SERVICE

1-800-GET-ROTO (438-7686)

SEE BINDING TERMS ON REVERSE

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Roebuck, SC 29376
(864) 582-2670 • (864) 595-0313 Fax

Mechanical Contracting License #MR112188
Operated as an Independent Contractor

M / D / Y Spartanburg

SERVICE TECHNICIAN'S NAME #

INVOICE NO. 87005

SEWER & DRAIN ☐ PLUMBING ☐ PUMPING ☐
INDUSTRIAL ☐ EXCAVATION ☐ DRAIN TILE ☐

CUSTOMER NAME	CUSTOMER NO.	CUSTOMER CLASS ☐ RESIDENTIAL ☐ COMMERCIAL
SERVICE ADDRESS	APT. NUMBER	FEDERAL I.D. # 45-5614706
CITY / STATE/PROVINCE / ZIP/POSTAL	CUSTOMER PHONE NO.	P.O. NUMBER/AUTHORIZATION
BILLING ADDRESS (IF DIFFERENT FROM SERVICE ADDRESS)	CITY / STATE/PROVINCE / ZIP/POSTAL	

REPAIR CODE	ESTIMATE AND DESCRIPTION OF WORK TO BE PERFORMED (The approximate starting date is _____, and the approximate completion date is _____. Neither date is guaranteed. Unexpected conditions or problems could cause delays. A definite completion date is not of the essence.)	$ AMOUNT

WORK ORDER AUTHORIZATION I authorize the services indicated and agree to pay the amounts specified. I have read and agree to the terms on the reverse side, including the limits on Roto-Rooter's responsibility specified in those terms.

(SIGNATURE) _____ (PRINT NAME) Chris Austin

CHANGES TO ESTIMATE I authorize these changes	**ADJUSTMENTS/CHANGES IN WORK TO BE PERFORMED** (Use additional invoice if needed to describe changes)	

COMMENTS

COMPLETION I acknowledge completion of the above described work which has been done to my complete satisfaction.

(SIGNATURE) _____ (PRINT NAME) Chris Austin

(E-MAIL ADDRESS) _____
Send plumbing tips, product/services information and coupons via email.

LABOR $ _____
PARTS $ _____
PRODUCTS $ _____
OTHER $ _____
$ _____
$ _____
TAX $ _____
INVOICE TOTAL $ _____

PAYMENT

☐ CASH ☐ CHECK NO. _____ * ☐ CREDIT CARD ☐ NET 10 DAYS

OVER 30 DAYS = LATE CHARGE OF 1 1/2% PER MONTH * In the event check is returned, the CUSTOMER is responsible for all related bank fees.

NEXT VISIT

PLEASE PAY FROM THIS INVOICE

87005

RESIDENTIAL GUARANTEE		COMMERCIAL GUARANTEE	
LABOR		LABOR	
☐ Main/Branch Lines	6 months	☐ Main/Branch Lines	30 days
☐ Toilet Auger	7 days	☐ Toilet Auger	24 hours
☐ Plumbing Repair	6 months	☐ Plumbing Repair	90 days
☐ Plumbing Replacement	1 year	☐ Plumbing Replacement	90 days
☐ Extended Guarantee	1 year		

REASON FOR NO GUARANTEE

(Service Technician's Signature)

(Print Service Technician's Name and Number)

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- rotorooter.com/blog
- youtube.com/rotorootertv

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HEATING · AIR

P.O. BOX 716
GREENWOOD, SC 29648

Phone: (864) 229-7117

Fax: (864) 229-5726

SC LICENSE M-1371

PROPOSAL

7/1/2021

KLM Environmental
Attention: Graham
Re: Clean & Camera Line
Location: 1802 South Main St., Greenwood, SC

Scope: Clean and camera storm drain line.

Includes:

- Jet-Vac Machine
- Robotic Camera
- Labor Crew

Price Per Day (8 Hours) $4,250
Additional Time after 8 hrs. (Per Hour) $650

*No mobilization fee included. (Greenwood Area)

Notes

1. Transferring and disposing of contaminated materials by others.
2. Dumping of materials to be on jobsite.
3. If any unknown conditions become evident, additional charges may become necessary.
4. Mathis holds an "Unlimited State Plumbing and Mechanical Licenses" M-1371
5. Mathis standard one-year workmanship warranty applies.
6. Mathis Plumbing & Heating Co. has been awarded "1st Place Reader's Choice" and also voted "Simply the Best" in the Lakelands area.
7. Mathis was awarded the SBA "Family Owned Business of the Year" for South Carolina and also has been awarded the SBA "Family Owned Business for the Entire 8-State Southeast Region".

Notice: Payment with cash or check is due upon completion.

Price Per Day (8 Hours) _____ $4,250
Additional Time after 8 hrs. (Per Hour) _____ $650

***Payments with credit or debit cards and in-house financing will incur additional fees.**

Payment is due as per proposal and/or contract agreement. A service charge of 1.5% will added each month to any unpaid or outstanding balances. Mathis reserves the right to recover any and all cost which includes but not limited to Collection Agency and Attorney Fees.

WE PROPOSE hereby to furnish material and labor in accordance with the above specifications, for the sum of:

Per Day 8 Hours – Four thousand two hundred and fifty dollars $4,250

Additional Time after 8 hrs. (Per Hour) ...Six hundred and fifty dollars.....$650

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workers' Compensation insurance. Note: This proposal may be withdrawn by us if not accepted within 30 days.

Authorized Signature: L Wayne Mathis

This proposal may be withdrawn by contractor at any time prior to acceptance, and will become void if above work is not performed within thirty (30) days of effective date.

ACCEPTANCE OF PROPOSAL – The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature: _____

Date of Acceptance: _____

SOUTHERN COMMERCIAL DEVELOPMENT
TRAFFIC CONTROL
(803) 808-0232

Estimate

Customer:
Job/Project#
Location: Greenwood, SC
Requestor: Graham Robinson
Contact Phone: 985-789-3065
Email:

Southern Commercial Development
Contact: Sherita Evans
Phone: 803-808-0232
Mobile: 803-509-3827
Fax: 803-490-1511
sevans@scdevelopmentllc.com

Date: 7/28/2021

Item #	Description	Quantity	Unit	Cost	Total Cost Ea.	Notes/Details
1	**Traffic Control - Lane Closures - Flagging Operation** SCDOT Standard Drawing #610-005-00 - 2-way/3 Men	1.00	DAY	$1,350.00	$1,350.00	Per Each Day - 10 hr s/up, 3-Man Crew* Certified Flaggers w/lead w/ equipment per SCDOT standard drawing.
2	**Traffic Control - Lane Closures - Flagging Operation** SCDOT Standard Drawing #610-005-00 - 3-way/4 Men	1.00	DAY	$1,650.00	$1,650.00	Per Each Day - 10 hr s/up, 4-Man Crew* Certified Flaggers w/ lead w/ equipment per SCDOT standard drawing.

*Contractor responsiblefor maintenance of all equipment/signs on rent
*SCD is available for service/maintenance at $500 per ea./ service call to jobsite
*500.00 Mobilization/standby fee w/ less than 4-hour notice of cancellation

Traffic Control Equipment Available
Signs, Stands, Cones, Drums, Barricades
Arrow Boards, Message Boards, Lite Plants & Crash Trucks
Lane Closures, Flagging, Sign Installation, Road Closures & Detours

Southern Commercial Development, LLC
1326 S. Lake Drive
Lexington, SC 29073
PHONE:803-808-0232; **FAX:** 803-490-1511
www.scdevelopmentllc.com

BIRD DOG
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PO Box 53, Stony Point, NC 28678

SAFETY - SERVICES - STANDARDS

Toll Free 1-844-369-0799
Direct 704-872-8427
www.birddogtrafficcontrol.com

Bird Dog Traffic Control is a NC DOT approved DBE/SBE/WBE/HUB Sub-contractor & Supplier.

July 28, 2021

To: KLM Environmental/Graham Robinson

From: Jeff Austin, Bird Dog Traffic Control, LLC

Re: Foundry rd Greenwood. SC across from 1802 Main st. S Greenwood, SC

Item Description	Quantity	Unit	Price
3 MAN- FLAGGING OPERATION - INCLUDES WORK ZONE SETUP 8 HOUR DAY ONSITE- DAYTIME RATE	1	DAILY	937.00
4 MAN FLAGGING OPERATION-INCLUDES WORK ZONE SETUP 8 HOUR DAY ONSITE-DAYTIME RATE	1	DAILY	1410.32
Pilot Car-Daily Rate (if required or requested)	1	DAILY	175.00
Pilot Car Driver (if pilot car is required)	1	DAILY	293.28
ADDER HRS PER MAN	1	HR	36.96
ADDITIONAL OVERTIME HRS PER MAN (overtime billed after 40hrs unless job is 3 days per week or less then overtime billed after 8hrs daily)	1	HR	55.44

The above quote is daily rates, we do not quote lump sum. Night work is quoted per project.

Re: [EXTERNAL EMAIL]RE: Foundry Rd Pipe

Thrash, Ashleigh <thrasham@dhec.sc.gov>

Mon 8/30/2021 3:33 PM

To: Gorman, Angela <gormanak@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Hey Angela, I'm out of the office working intermittently from home. Caitlin and I will call you here in a bit. Thank you!

Get Outlook for iOS

From: Gorman, Angela <gormanak@dhec.sc.gov>
Sent: Monday, August 30, 2021 3:30:25 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: Re: [EXTERNAL EMAIL]RE: Foundry Rd Pipe

Yes, a call is ok with me anytime this afternoon. I think a short, masked, in-person meeting with maps could be more efficient, but a Teams meeting sharing the map Mark sent Julie could also work. Just let me know which you prefer.

Angela Gorman
Hydrogeologist
Brownfields Program
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0929
Connect: www.scdhec.gov Facebook Twitter

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Monday, August 30, 2021 3:17 PM
To: Gorman, Angela <gormanak@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: Re: [EXTERNAL EMAIL]RE: Foundry Rd Pipe

Hey Angela,

Are you available for a call this afternoon?

Thanks,
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Gorman, Angela <gormanak@dhec.sc.gov>
Sent: Monday, August 30, 2021 1:42 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Fw: [EXTERNAL EMAIL]RE: Foundry Rd Pipe

Ashleigh and Caitlin,
See forwarded email Julie Wilkie sent to me of email between her and Mark Keller. I think he has already sent at least some of this information to you, but I am hoping that sometime this afternoon or tomorrow one of you can help me get a better idea of the following:

- Location of the box and piping in the photos and the "pond" Mark Keller refers to,
- Plans/general schedule for identifying source of free product entering the drain box on the Foundry property and for stopping the release,
- Plans/general schedule for identifying extent of free product/dissolved plume, and for remediation of free product.

Julie is asking me for info on how this situation will affect the City's plans for the park development, so if I could get just a general idea of time-frame for these things it would help the City with their planning.
Thanks,
Angela

Angela Gorman
Hydrogeologist
Brownfields Program
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0929
Connect: www.scdhec.gov Facebook Twitter

From: Julie Wilkie <julie.wilkie@gwdcity.com>
Sent: Monday, August 30, 2021 11:36 AM
To: Gorman, Angela <gormanak@dhec.sc.gov>
Subject: FW: [EXTERNAL EMAIL]RE: Foundry Rd Pipe

Julie M. Wilkie
City Manager
864.942.8410

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Monday, August 30, 2021 11:30 AM
To: Julie Wilkie <julie.wilkie@gwdcity.com>
Subject: [EXTERNAL EMAIL]RE: Foundry Rd Pipe

***********WARNING: The sender of this email is outside of our network. Ensure you are familiar with the sender and are expecting this email, otherwise, DO NOT REPLY and DO NOT CLICK on any LINK or ATTACHMENT and DELETE THIS EMAIL IMMEDIATELY !!!!************

Thank you Julie. That would seem to indicate the pipe is heading inland, but that angle, unless it turns back, is too steep to be a straight shot to the little pond. It would indicate it is not heading down the side of the road like my drawing showed.

I am attaching a site map showing the well locations we have installed thus far. We have free product in MW-14 which is on the Foundry site. We don't have it in any other well on the old Foundry property. The red line indicates where we know we have free gasoline underground. I have sent the information to the SCDHEC Project Manager and their group is reviewing it to see if we need to go back and try to delineate the extent of free product. I am sure those discussions are ongoing this week.

I am glad I got to meet you and I am sure we will work together on this more moving forward. I hope your daughter is feeling much better. The schools are a scary place right now no doubt. Please let me know if you need anything and I will update you on what will occur next as soon as I am directed.

Thanks!

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Julie Wilkie <julie.wilkie@gwdcity.com>
Sent: Monday, August 30, 2021 11:19 AM
To: Mark Lee Keller <mkeller131@comcast.net>
Subject: FW: Foundry Rd Pipe

Mark –

I asked my staff to take some photos from inside that box with the gas present. Appears only 1 line coming in (from the Smith property) and 1 going one (angled onto the Foundry site).
Thought this may help you.

Any additional word on the extent of the gasoline on our site?

Julie

_____
Julie M. Wilkie
City Manager
864.942.8410

From: Erek Leary <erek.leary@gwdcity.com>
Sent: Monday, August 30, 2021 9:10 AM
To: Julie Wilkie <julie.wilkie@gwdcity.com>
Subject: Foundry Rd Pipe

Julie,

Picture one is taken with me standing on Foundry Rd facing the new park site. Corner of the box is where the pipe is exiting heading towards the new park property.

Picture two shows a close up of picture one.

Picture three shows the pipe coming in from across Foundry Rd.

Picture four is another angle of picture one.

Picture five is pipe coming into box from across Foundry Rd (top left opening) and leaving box heading towards new park site (bottom right opening).

Picture six is pipe coming into box from across Foundry Rd (top right opening) and leaving box heading towards new park site (bottom left opening).

Let me know if you have any questions.

From: Erek Leary <erek.leary@gwdcity.com>
Sent: Monday, August 30, 2021 8:56 AM
To: Erek Leary <erek.leary@gwdcity.com>
Subject: Pics

Sent from my iPhone

Re: 04785

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Fri 7/30/2021 10:11 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

Hey Mark,

Sounds good, I'll try to get out there one day during the drilling. Thank you and I hope you have a wonderful weekend!

Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Friday, July 30, 2021 10:04 AM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>
Subject: 04785

Caitlin and Malayalam

We have the drilling at this site scheduled to begin on Monday and take up to 2 weeks to complete. Petra Tech has been subcontracted to do it. We also have the 96 hour AFVR beginning on Monday as well. Please let me know if you need anything.

Thanks

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445

UST # 04785

Mark Keller <mkeller131@comcast.net>

Mon 6/28/2021 5:09 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Caitlin

Due to unforeseen complications during the pipe inspection with the camera unit, the work will need to be amended to complete it. A large pile of dirt/debris is blocking the pipe approximately 8 feet into the pipe. The inspection company proposes to come back and use a jetter to clear the blockage to allow the camera inspection. They will be sending a quote to perform that work. We are requesting and addendum to the cost agreement to cover this cost plus an additional personnel mobilization to oversee the site work.

Thank you!!

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC. 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

UST # 04785

US DOCKET 65

Mark Lee Keller <mkeller131@comcast.net>

Fri 8/27/2021 12:09 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

4 attachments (8 MB)

Free Product Mapping As of 8-26-21.pdf; IMG_2081.jpg; IMG_2078.jpg; IMG_2079.jpg

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Caitlin,

Here is a map of what we currently have at the site after the information we gathered yesterday. As you know, one of our personnel experienced a medical issue related to the heat and we were forced to stop work on the sampling. That only gives us a partial picture here. We have not gauged wells MW-19, MW-22, MW-23, or MW-24 but you and I gauged MW-20 yesterday so I feel good that free product didn't extent to 22, 23, or 24.

So, we found out on 8.25.21 when the sampling started that the recovery rates at the site are the slowest we have ever encountered. We purged the first well and it immediately went dry with our variable speed pump set on its slowest setting. The sampling crew moved to the next well and the same occurred. After an hour wait, only 3 inches of water had even returned to the first well, which a bailer won't hold as the check ball can not seat. This is an important issue as we discussed yesterday.

When we did the initial round of probing, we installed 10 temporary wells which were allowed to sit for 24 hours, which is customary, to attempt to delineate the free product. As noted in what we submitted previously, only 4 of those wells showed product, and at minimal thickness with the exception of TW -3 at 0.78 feet in thickness. That is why we were extremely surprised when on 8.25.21, we measured free product in 16 wells across the site, with all wells on the store property containing free product with the exception of the deep monitoring well and MW-6 to the south of the store.

We noted another issue as free product was detected on the Foundry property in MW-14 at a thickness of 2.37 feet. We probed in the same location previously and no contaminants were detected. I have been looking over all the data we have generated and it seems we probed too deep in some areas based on the depths to water we are seeing now that the wells have been installed. I am not sure if we have an artisian situation, but I can state these facts. When we did the first 3 probe holes off site on the Smith property, which started the second round of probing, on 5.17/21, we installed probe points GP-36 and GP-37. We installed GP-36 to a depth of 15 feet and GP-37 to a depth of 20 feet below land surface, then pulled back to deploy the drop screen. The screening ended up being 11-14 feet bls at GP-36, and 16-20 feet bls at GP-37. We used this approach as we had no groundwater elevation data anywhere off site, and only 1 point on site. Those two points were left in hole while the decon pit was constructed and the laboratory was set up and calibrated. We returned to the holes after one hour and found both holes were dry. We then installed subsequent points immediately adjacent to these two locations to a depth of 25 feet bls which ended up with a screening interval of 21-25 feet bls. Those holes made water so it was surmised that at that particular surface elevation, probing needed to be conducted to a depth of 25 feet bls screening 21-25. This approach was used in an attempt to determine the groundwater depth at multiple surface elevations throughout the probing process. There is a 32 foot surface elevation change across the site in general but as you well know, the site is very complicated. In any event, this approach led to some points being screened below where we are seeing free product now. The contaminant plume we determined is very close to what we found in the wells, but we have the free product on the Foundry property where free product was measured at 8.01-10.38

feet bls. Probing in that area was completed to the same depth at the probing at GP-36 and GP-37 as that area of the foundry appeared to be in the same surficial elevation. We now benefit from a surveyed map of all the probe points as we ordered it once probing was completed for fear of losing the locations from overgrowth. That map is attached. It turns out those elevations were within 4 feet. We feel that the extremely slow transmissivity we are seeing when purging is the reason we had dry probe holes despite being in the water bearing zone after well installation. We made our probe holes shallower as we moved down in elevation towards the drainage ditch/creek area as we were under the thought it was a groundwater intersect. It appears it only partially intersects the groundwater but isn't a divide as we have contaminants detected past the ditch/creek.

So, with all that technical processing put in a nut shell, we have the issue of free product on the Foundry site and it not being delineated. It is clear temporary wells do not work over a 24 hour period as evidenced above. I know we need to delineate the product as this area is also a VCC under the Brownfields section and is slated for a park by the City of Greenwood. I would like recommendations on how you would like to proceed with that. We can install more wells over there or we can try installing temporary wells but they will need to sit for a minimum of 1 week in my opinion to be remotely effective.

On to the pipe inspection. We closed the lane on Foundry Rd. and brought in the jetter, camera truck, and my vac truck to handle the waste we generated. The pipe was jetted several times using several different attachments to remove any debris and prepare the pipe for the camera. The jetter was able to advance to between 100 and 140 feet up the drain pipe each trip. We then inserted the camera. Nothing significant was noted until approximately 29 feet into the pipe. At that point, a large area of poured concrete blocked the path of the camera. It appeared that this was from construction of a box drain or manway of some kind. We walked above the drain pipe to the approximate area and did a sweep with a metal detector looking for a covered lid that we could access the drain. No hits. We then used a probe rod and found a concrete lid that most likely was the area we could see in the camera inside the pipe. The workers at the time must have poured their remaining wet concrete into the manway before sealing it up. That was the block that the camera could not get passed. However, the pipe had been going up in elevation according to the technician running the camera and should not be intersecting the water table as we had only discovered 10 minutes prior the free product in MW-14 and the groundwater elevation there. At the same time, there was no fuel dripping from the pipe yesterday. It was also noted that much of the drainage ditch/creek was dry which we have never observed it dry there. The ditch/creek did have water in it near Foundry Rd. with a very strong fuel odor.

We then took the camera to a storm drain entrance at the corner of Foundry Rd. and Main street. We noted that in that manway, a pipe could be seen trending towards the Foundry property. We inserted the camera and they began advancing it. At the time the drain was dry but it had much sediment in it. At approximately 24 feet into the pipe, the sediment became too thick thus making the pipe too small for the camera to advance.

Taking all the information together and pondering it, I am making my best guess as to what may be occurring. Regarding the fuel dripping out of the drain at the side of the hill at Foundry: Now that we know free product is present on that site, it may only intersect a small portion of the drain system when the water table is high enough to allow that to happen. That is why we didn't see a change in the rate of the dripping product during the very hard rainfall event we experienced while probe work was conducted at the site. The rate never waivered so we surmised it wasn't fully dependent on a flow from an unknown intake. Now that we were there yesterday with evidence of the area having been dry for some time due to the drainage ditch/creek being dry, and no fuel dripping from the pipe, that may support my theory on the water table intersection. The storm drains are not transmitting the fuel between the store the Smith Property or the Foundry, but they may have created a conduit for it to travel beside or below those lines as the excavation done to install them would most certainly make for an easier transmissivity than what we see naturally based on the recharge rates. What is being smelled and observed at the crossing of the ditch/creek at Foundry where we have installed multiple containment booms is now shown to be a result of the gasoline detected in the monitoring wells in that area. We do not feel the free

product is making is out per se as the booms are designed to absorb any product and they are not saturated. However, they are not designed to stop dissolved phase so that continues to daylight and the odor and flow of contaminants will continue. Based on the extent of free product and the thicknesses gauged, which I will present below, this is a long term problem that will need active correction action to attempt to get under control.

This is the gauging data we have currently, as previously stated, we do not have all wells gauged and will be returning to complete the sampling as well as gauge all wells again in order to create a proper map. We can put that on hold pending direction on the delineation of free product in the area of MW-14 on the foundry site. Please let me know on that. As a side note, we have footage remaining under the directive as we did not use nearly all that we had approved for the specific purpose of a curve ball at some point.

MW-1: 17.06-17.75
MW-2: 17.03-18.36
MW-3: 18.31-18.35
MW-4: 16.98-18.99
MW-5: 15.27-17.73
MW-7: 11.45-11.92
MW-8: 10.45-13.53
MW-9: 11.03-11.09
MW-12: 10.30-10.49
MW-13: 7.91-11.18
MW-14: 8.01-10.38
MW-17: 3.78-3.81
MW-18: 6.27-6.31
RW-1: 18.08-19.03
RW-2: 17.00-17.98
RW-3: 17.25-18.05

A video will be sent to me of all the camera work inside the drainage pipes which I will send to you for inclusion in the file. Please advise on the product delineation so we know what to do.

Thanks!!

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

Greenwood County, SC

June 11, 2021

1:1,128

0 70 140 280 ft

0 20 40 80 m

Map Layers: Greenwood County

Greenwood County, SC

June 11, 2021

1:1,128

0 70 140 280 ft

0 20 40 80 m

Map Layers: Greenwood County

No Contamination

181D/182D/183D
184D/185D/SB-2
Debris Field

178D/179D
/180D/SB-3

181D/182D/183D
184D/185D/SB-2

171D

See Map 2 for More Locations

Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for zoning verification.

Re: UST # 04785

Mark Keller <mkeller131@comcast.net>

Tue 7/20/2021 4:19 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hey Caitlin

Thank you for the information. I will get this drilling scheduled. We will be working with Trever Slack at Petra Tech to drill these wells. They are closer and won't have to spend 2 weeks I a hotel!

I had spoken with Mr. Templeton previous and he indicated he wanted to talk to Ashely before he would sign our access agreement. I said that was ok and never heard from him again. Go figure. They want something done, just not on their property. Story of my life!

Chris met with a contractor today on site to try to get a quote to jet this drain line so we can get the camera work done. This is proving to be extremely difficult. They told him $40,000.00. Graham will be sending you more information on what we have gotten so far on quotes, but that was unbelievable. Roto Rooter will flush your troubles down the drain, for the price of a new luxury car. Good grief.

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC. 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Jul 20, 2021, at 3:54 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Sorry for the delayed response, I was out the end of last week, so I've been trying to play catch up. I've had time to look over the map this afternoon and it looks good to me. And I'm sorry you're having so much trouble getting offsite access and this drainpipe!

I just spoke to Ashleigh about the VCC site, and she let me know Greenwood county owns that and they are not being cooperative with us either. She had a conference call with the county engineer Rett Templeton, Mihir, our lawyer, and their representation back in June to answer some of their questions but I guess it didn't do any good. She let me know she is

willing to get everyone together again with you on a conference call if you think it might help and we can provide you with Mr. Templeton's contact info if you need it.

Please let me know if need that contact information or if I can help with anything else regarding the offsite access.

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, July 16, 2021 2:10 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: UST # 04785

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Caitlin,

Please find attached our first iteration at proposed well locations for the Quick Pantry # 19. The shallows are in purple, the recovery wells in blue, and the deep wells in green. We may have to alter this after we get a look inside the drainage pipe, if we can ever get anyone to give us a price. Our issue is the scope of work is basically unknown so all the companies want to give us an hourly rate. If that is all we can get its all we can get, but we are still working on it. They also won't handle the waste so we will have to do that, which is also an unknown as far as how much waste will it generate, and how long will we have to be there with a vacuum truck and a dump truck for the solids? Maddening. Anyway, review this and let me know your thoughts on these locations. We did not propose any locations for wells to the west. The property owner allowed probing but he indicated he would not allow well installation. Confoundingly, the SCDHEC property did not give us access so we can't go there. Go figure. I put these locations on the map I made. I am STILL waiting on the surveyors to produce the map they started on June 23rd.

Thanks

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445

Greenwood County, SC

June 11, 2021

1:1,128

0 70 140 280 ft

0 20 40 80 m

Map Layers: Greenwood County

No Contamination

181D/182D/183D
184D/185D/SB-2

Debris Field

178D/179D
/180D/SB-3

181D/182D/183D
184D/185D/SB-2

171D

See Map 2 for More Locations

Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for zoning verification.

Re: [EXTERNAL EMAIL]RE: Foundry Site Video

Mark Keller <mkeller131@comcast.net>

Tue 8/24/2021 3:16 PM

To: Julie Wilkie <julie.wilkie@gwdcity.com>
Cc: Gorman, Angela <gormanak@dhec.sc.gov>; Howard Garner <howard.garner@fema.dhs.gov>; Brian Gross <gross.brian@epa.gov>; Ryan Thomas <ryan.thomas@gwdcity.com>; Ryan Hertzfeld, PLA <rhertzfeld@davisfloyd.com>; Tara Lyle, PE <tlyle@davisfloyd.com>; Steffanie Dorn <sdorn@greenwoodsc.gov>; Brent Robertson, PE, LEED-AP <broberts@davisfloyd.com>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

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This work is only approved for the line dripping gasoline. We can not investigate anything outside that scope per the SCDHEC SUPERB Statute. If there are any questions on that please speak with Ms. Ashley Thrash with the UST Division.

We begin setting up the lane closure at approximately 9:00 on Thursday. Jetting will commence once we are safely set up with all equipment in the safe zone. Camera will commence once the line has been cleared. We have no idea what may be in the line or how long it will take to clear it.

Thanks

Mark

UST 64 DOCKETING

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 24, 2021, at 2:53 PM, Julie Wilkie <julie.wilkie@gwdcity.com> wrote:

Mark –

Good Afternoon. Can I assume this will include both lines in question on the property?
Do you have a time for this work?

THANKS!

Julie

Julie M. Wilkie

City Manager
864.942.8410

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Monday, August 16, 2021 2:28 PM
To: Julie Wilkie <julie.wilkie@gwdcity.com>; 'Gorman, Angela' <gormanak@dhec.sc.gov>; 'Howard Garner' <howard.garner@fema.dhs.gov>; 'Brian Gross' <gross.brian@epa.gov>; Ryan Thomas <ryan.thomas@gwdcity.com>; 'Ryan Hertzfeld, PLA' <rhertzfeld@davisfloyd.com>; 'Tara Lyle, PE' <tlyle@davisfloyd.com>; 'Steffanie Dorn' <sdorn@greenwoodsc.gov>; 'Brent Robertson, PE, LEED-AP' <broberts@davisfloyd.com>; 'Thrash, Ashleigh' <thrasham@dhec.sc.gov>; 'Reilly, Caitlin M.' <reillycm@dhec.sc.gov>; Malayika Vincent <vincenmm@dhec.sc.gov>
Subject: [EXTERNAL EMAIL]RE: Foundry Site Video

***********WARNING: The sender of this email is outside of our network. Ensure you are familiar with the sender and are expecting this email, otherwise, DO NOT REPLY and DO NOT CLICK on any LINK or ATTACHMENT and DELETE THIS EMAIL IMMEDIATELY !!!!************

All –

The cleaning/inspection/lane closure has been tentatively scheduled for 8/26/21 which is next Thursday. This will be dependent on the weather. We can confirm the date as we get closer. Please call me or email with any questions.

Thank you

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Julie Wilkie <julie.wilkie@gwdcity.com>
Sent: Monday, August 16, 2021 1:59 PM
To: 'Gorman, Angela' <gormanak@dhec.sc.gov>; Howard Garner (howard.garner@fema.dhs.gov) <howard.garner@fema.dhs.gov>; Brian Gross (gross.brian@epa.gov) <gross.brian@epa.gov>; Ryan Thomas <ryan.thomas@gwdcity.com>; Ryan Hertzfeld, PLA <rhertzfeld@davisfloyd.com>; Tara Lyle, PE <tlyle@davisfloyd.com>; Steffanie Dorn <sdorn@greenwoodsc.gov>; Brent Robertson, PE, LEED-AP <broberts@davisfloyd.com>; 'Thrash, Ashleigh' <thrasham@dhec.sc.gov>
Cc: Mark Keller <mkeller131@comcast.net>
Subject: Foundry Site Video

All –

I spoke with Mark Keller today. He has indicated that at this time, he does not have a timeframe for scheduling the video of the line where the gasoline is present. He attempted to get scheduling done

last week but schedules were not aligning. He is working on it again this week and will keep us all in the loop. Mark is cc'd on this email.

Thanks Mark!

Julie

Julie M. Wilkie
City Manager
520 Monument St., PO Box 40
Greenwood, SC 29648
o: 864.942.8410
f: 864.942.8470
m: 864.377.5286
www.cityofgreenwoodsc.com

Re: UST # 04785

Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Thu 8/19/2021 3:37 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>

Oh boy! I'll tell Malayika to get ready! Haha

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Thursday, August 19, 2021 2:10 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST # 04785

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Awesome! Next you guys get to learn the vac truck :D see you there.

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC, 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 19, 2021, at 1:39 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Malayika and I are both planning on being there to 26th to see the pipe inspection, see you then!

Thanks,
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Wednesday, August 18, 2021 2:22 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>
Subject: UST # 04785

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Caitlin & Malayika,

We will begin sampling the monitoring wells at this site on Wednesday, August 25th. It will take at least 2 days due to the travel, possibly 3. We also have the pipe cleaning/inspection set to start on August 26th ending at an unknown time. Hope to you all there.

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

Re: Joist - View Document

Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Mon 8/16/2021 3:41 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>

Mark,

Sounds good! Just let me know when you need me to make an addendum. I'm getting with Malayika today to see if we can make it down there on the 26th, I'd like to see what they find.

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

dhec
Healthy People. Healthy Communities.

UST 62 DOCKETING

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Monday, August 16, 2021 3:40 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: RE: Joist - View Document

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

We will just work with what you have sent out. It will probably need an addendum anyway so just leave it like we have it for now.

Thanks!

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Monday, August 16, 2021 2:21 PM

To: mkeller131@comcast.net
Subject: Re: Joist - View Document

Hey Mark,

I hope you had a good weekend! I'm just touching base about the drain exploration. Will you need me to make you up a new letter and CA or will the one we initially sent out on the 5th work? I spoke with Ashleigh a bit this morning but she wasn't sure if you would need a new one or not.

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, August 11, 2021 4:43 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: Joist - View Document

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
I will be here tomorrow. I just need to know if we can use 3R for the full scope or we can not. I need to tell them so they can send their camera off for repair. It is down currently but if we are using them they will send it off for repair.

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC. 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 11, 2021, at 4:28 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Yes, sorry I meant per hour not day! I sent your reply to Ashleigh, but she already gone for the day. Are you available tomorrow from 2 - 2:30 to speak with Mr. Prince? Ashleigh let me know you could discuss the quote before or after the phone call with Mr. Prince tomorrow.

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, August 11, 2021 3:48 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: Joist - View Document

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The quote in the notes is $175/hour not $175/day to clarify.

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC. 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 11, 2021, at 3:36 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

We can approve this new quote for the new rate of $175 per day for the CCTV cam. We can also give you line item Q1 (3700 gallons as originally requested) and the personnel mob (to have someone on site and disposal). I have attached the DHEC cost agreement check list for you to review. If this looks good to you

and the RP, we can send out a new notice to proceed letter with the updated cost agreement. Ashleigh did mention to me that we can schedule a call with the you and the RP to discuss any questions or concerns about the SUPERB funds commitment.

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, August 11, 2021 11:14 AM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Joist - View Document

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Caitlin

We have the quote back. This quote is to do all the jetting/cleaning and handle the waste. In the notes on the quote, they can also do the camera work at the same time for $175/hr. This is the ideal situation as they can handle everything.

https://client.joistapp.com/estimates/902f9eba82ad4100bca2a464

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC. 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

RE: Foundry Site Video

Mark Lee Keller <mkeller131@comcast.net>

Mon 8/16/2021 2:28 PM

To: 'Julie Wilkie' <julie.wilkie@gwdcity.com>; Gorman, Angela <gormanak@dhec.sc.gov>; 'Howard Garner' <howard.garner@fema.dhs.gov>; 'Brian Gross' <gross.brian@epa.gov>; 'Ryan Thomas' <ryan.thomas@gwdcity.com>; 'Ryan Hertzfeld, PLA' <rhertzfeld@davisfloyd.com>; 'Tara Lyle, PE' <tlyle@davisfloyd.com>; 'Steffanie Dorn' <sdorn@greenwoodsc.gov>; 'Brent Robertson, PE, LEED-AP' <broberts@davisfloyd.com>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

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All –

The cleaning/inspection/lane closure has been tentatively scheduled for 8/26/21 which is next Thursday. This will be dependent on the weather. We can confirm the date as we get closer. Please call me or email with any questions.

Thank you

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Julie Wilkie <julie.wilkie@gwdcity.com>
Sent: Monday, August 16, 2021 1:59 PM
To: 'Gorman, Angela' <gormanak@dhec.sc.gov>; Howard Garner (howard.garner@fema.dhs.gov) <howard.garner@fema.dhs.gov>; Brian Gross (gross.brian@epa.gov) <gross.brian@epa.gov>; Ryan Thomas <ryan.thomas@gwdcity.com>; Ryan Hertzfeld, PLA <rhertzfeld@davisfloyd.com>; Tara Lyle, PE <tlyle@davisfloyd.com>; Steffanie Dorn <sdorn@greenwoodsc.gov>; Brent Robertson, PE, LEED-AP <broberts@davisfloyd.com>; 'Thrash, Ashleigh' <thrasham@dhec.sc.gov>
Cc: Mark Keller <mkeller131@comcast.net>
Subject: Foundry Site Video

All –

I spoke with Mark Keller today. He has indicated that at this time, he does not have a timeframe for scheduling the video of the line where the gasoline is present. He attempted to get scheduling done last week but schedules were not aligning. He is working on it again this week and will keep us all in the loop. Mark is cc'd on this email.

Thanks Mark!

Julie

Julie M. Wilkie

City Manager
520 Monument St., PO Box 40
Greenwood, SC 29648
o: 864.942.8410
f: 864.942.8470
m: 864.377.5286
www.cityofgreenwoodsc.com

Re: UST # 04785

Thrash, Ashleigh <thrasham@dhec.sc.gov>

Thu 8/12/2021 10:21 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Hi Mark!

Caitlin said you were available to hop on a call today with Patrick Prince. He is available at 2. Below is the conference info if you don't have it handy:

call in #
1-800-753-1965

access #

8982544

If you can stay on after we finish with him to discuss the drain quote, that would be great. Thank you!

Ashleigh

Ashleigh Thrash, P.G.
Section Manager, Assessment & Non-Permitted Petroleum
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0607
Cell: (803) 608-1765
Connect: www.scdhec.gov Facebook Twitter

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Wednesday, August 4, 2021 4:58 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST # 04785

Thank you Mark. I figured you had knowledge of it - I think I have seen a map with what you are referring to but I can't find it. Hopefully you will be able to find something to clear it all up. I feel like we went through all this already once but I appreciate your patience while we try to clear it up again!

No worries about the city camera - Caitlin will get the quote approved for you when she gets back.

Thanks again!

Ashleigh

Ashleigh Thrash, P.G.
Section Manager, Assessment & Non-Permitted Petroleum
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0607
Cell: (803) 608-1765
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, August 4, 2021 4:44 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST # 04785

The city decline to use their camera because of the gasoline.

I will respond to the email Julie sent. Chris was not aware of the pipe but we all have been. I am going to look for the map we had showing a different route for the utilities than the one she presented. The pond on their site is fed from a drainage pipe somewhere on the foundry property. It then overflows out into the storm drainage when it rains. I took a video of this occurrence while storming on site. There is much confusion about this but I have seen it first hand and their understanding of the flow does not appear to be right. I will copy both of you on the email.

Thanks

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC. 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 4, 2021, at 1:37 PM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Sounds great! I can't find that map we had before with all of the sewers marked. Still looking. I'll go ahead and send over the maps you sent me earlier. Thanks for your help on

the call!

Ashleigh

Ashleigh Thrash, P.G.
Section Manager, Assessment & Non-Permitted Petroleum
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0607
Cell: (803) 608-1765
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, August 4, 2021 1:35 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST # 04785

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

I spoke to Chris and he will be at the storm drain at 2:00 to show the city the particulars. He is going to show her the drain line we need to get the camera in. Hopefully they can assist so we don't waste a bunch of funding with the only quotes we were able to obtain to do it. May be a silver lining in at least one of the complaints.

Mark L. Keller, PG
President
KLM Environmental, LLC
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Fax: 843-797-1893
Office: 843-797-7884

On Aug 4, 2021, at 10:09 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Thank you Mark!

Ashleigh

Ashleigh Thrash, P.G.
Section Manager, Assessment & Non-Permitted Petroleum
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0607
Cell: (803) 608-1765
Connect: www.scdhec.gov Facebook Twitter

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Wednesday, August 4, 2021 10:02 AM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: UST # 04785

Ashley,

Attached are two maps showing the probing locations. The area we investigated is too large to stay on one map and be useful. Map #2 was specifically done on the housing authority property to ensure contaminants were not running down the drainage area, leaking into the subsurface, and affecting that property in general. Also attached is the data table from the field screening using the mobile lab. No contaminants are found on the housing authority property. Please take a look at these and let me know if you have any questions on it.

Thank you

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

Re: UST # 04785

Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Wed 8/11/2021 9:02 AM
To: mkeller131@comcast.net <mkeller131@comcast.net>

Mark,

Thats awesome, keep me updated! I will be out of the office tomorrow and Friday, but I will check my email periodically. If you need anything those days please reach out to Ashleigh.

Thank you!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, August 11, 2021 8:22 AM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST # 04785

Caitlin

We made contact with 3R of Greenville this morning. They are going to travel to the site and look at the job. They will send me a quote. They indicated they could handle the waste, jetting, and camera work.

Thanks

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445

Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 10, 2021, at 4:32 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Mark,

Thank you for the copy, I will look over it first thing tomorrow. I sent your email over to Ashleigh this morning, but I have yet to hear back from her, I know she has been in meetings all day, but I will let her know about the new company. Hopefully, they will be answer to our prayers! We also heard back from Mr. Prince and he said he was only available Thursday any time between 2-3:30 or Friday morning, any time between 9-10:30. Would be available during either of these times? I believe he just wants a brief update, nothing to crazy I hope!

And I'm sorry to hear about your employee. I hope it doesn't affect them too bad and it's no problem, reports can wait, you guys just stay safe!

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Tuesday, August 10, 2021 4:18 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: UST # 04785

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Caitlin,

I am sending in the hard copy of this report but wanted to send it to you directly also. It's the AFVR report for the event we did last week. We collected another 189 gallons of free product, and 207 gallons of off gas. The product had rebounded to 1.3 feet in thickness when we gauged the well before the event. Very successful event based on the numbers.

We have recovered in 4 events, 934 gallons of free product, and 726 gallons of product as vapor.

I called several places this morning to try to get quotes on the waste handling. I spoke with Safety Kleen and 3R in that area. 3R informed me that they could also do camera work and would handle the waste. They took my information and a supervisor was to call me back. That was at 9:00 this morning. I have not gotten a return call. I will try them again tomorrow while I am out in the field. Perhaps they can jet it, camera it, and handle the waste all at the same time which is what I had hoped for when we got the original quotes. I will advise you on what they can tell me.

A member of our staff tested positive for Covid today. He potentially infected other staff on Friday of last week. I am vaccinated but none of the other staff saw fit to get it. We are now severely short handed while we sort this out. I will do my best to get you anything that is pressing.

Let me know if you need anything.

Thanks!!

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

Fwd: Foundry Rd. Greenwood County

Thrash, Ashleigh <thrasham@dhec.sc.gov>
Tue 8/10/2021 8:15 AM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

See below
Get Outlook for iOS

From: Patrick Prince <pprince@gwdscha.com>
Sent: Monday, August 9, 2021 4:50:45 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: RE: Foundry Rd. Greenwood County

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hey Ashleigh,
I could do Thursday any time between 2-3:30 or Friday morning, any time between 9-10:30. Let me know if any of these will work
Thanks,
Patrick

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Monday, August 9, 2021 3:55 PM
To: Patrick Prince <pprince@gwdscha.com>
Subject: Re: Foundry Rd. Greenwood County

Hi Patrick!

Hope you had a great weekend. I'm looking into setting up the conference call with the consultant this week. Do you have some days/times that work best for you?

Thanks!

Ashleigh

Ashleigh Thrash, P.G.
Section Manager, Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-0607

Cell: (803) 608-1765
Connect: www.scdhec.gov Facebook Twitter

From: Patrick Prince <pprince@gwdscha.com>
Sent: Wednesday, August 4, 2021 10:16 AM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: RE: Foundry Rd. Greenwood County

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hey Ashleigh,
Thank you for getting back to me and I would like to discuss this briefly when you have some time. I have several residents that have been asking. Let me know how your schedule looks or give me a call at 864-227-3670 ext. 30.
Patrick

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Wednesday, August 4, 2021 10:12 AM
To: Patrick Prince <pprince@gwdscha.com>
Subject: Re: Foundry Rd. Greenwood County

Hi Patrick,

Attached are some figures and data tables the contractor just sent over to me. Please let me know if you would like to discuss.

Thank you!

Ashleigh

Ashleigh Thrash, P.G.
Section Manager, Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-0607

Cell: (803) 608-1765
Connect: www.scdhec.gov Facebook Twitter

From: Patrick Prince <pprince@gwdscha.com>
Sent: Tuesday, August 3, 2021 7:46 AM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: RE: Foundry Rd. Greenwood County

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Thank you. I look forward to hearing from you.

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Monday, August 2, 2021 3:04 PM
To: Patrick Prince <pprince@gwdscha.com>
Subject: Re: Foundry Rd. Greenwood County

Good Afternoon Mr. Prince,

I just wanted to let you know we have received your email. I also wanted to let you know the assessment is still underway. We do not have a final report yet, but should be able to compile some preliminary data.

I will get back to you tomorrow with a more comprehensive response.

Thank you!

Get Outlook for iOS

From: Patrick Prince <pprince@gwdscha.com>
Sent: Friday, July 30, 2021 12:06:59 PM
To: Toth, Delaney C. <tothdc@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: RE: Foundry Rd. Greenwood County

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I just wanted to follow up on this leak. I know that they have been conducting ground water tests. Have those results been returned? Is my property affected? Also, is there any possible timeline for how much longer we have to breath this stuff?
Thank you,
Patrick

From: Toth, Delaney C. <tothdc@dhec.sc.gov>
Sent: Friday, March 26, 2021 12:10 PM
To: Patrick Prince <pprince@gwdscha.com>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: Foundry Rd. Greenwood County

Mr. Prince,

We are investigating the situation. I will keep you updated as we know more.

Thanks,
Delaney

Delaney Toth, Hydrogeologist
Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-2818

Connect: www.scdhec.gov Facebook Twitter

From: Patrick Prince <pprince@gwdscha.com>
Sent: Friday, March 26, 2021 11:56 AM
To: Toth, Delaney C. <tothdc@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: Foundry Rd. Greenwood County

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Delaney,
Just to let you know, the fumes along Foundry Road are overwhelming during this rain. Someone is going to get sick.
Patrick

Get Outlook for iOS

From: Toth, Delaney C. <tothdc@dhec.sc.gov>
Sent: Tuesday, February 2, 2021 9:15:56 AM
To: Patrick Prince <pprince@gwdscha.com>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: Foundry Rd. Greenwood County

Patrick,

The clean-up is currently in progress. It will continue until the contamination is at or below our risk-based screening levels or until it reaches site-specific target levels to ensure the health and safety of humans and the environment.

Delaney Toth, Hydrogeologist
Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-2818

Connect: www.scdhec.gov Facebook Twitter

From: Patrick Prince <pprince@gwdscha.com>
Sent: Tuesday, February 2, 2021 7:34 AM
To: Toth, Delaney C. <tothdc@dhec.sc.gov>
Subject: RE: Foundry Rd. Greenwood County

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Thank you for your response Delaney. Has DHEC set any timeline for the clean-up process or could this be an ongoing issue indefinitely?
Patrick

From: Toth, Delaney C. <tothdc@dhec.sc.gov>
Sent: Monday, February 1, 2021 11:05 AM
To: Patrick Prince <pprince@gwdscha.com>
Cc: Long, Keisha <longkd@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Foundry Rd. Greenwood County

Good Morning Mr. Prince,

Thank you for reaching out to Ms. Long about your concern relating to the creek near the Greenwood Housing Authority. I am the project manager for Non-Permitted Petroleum in Greenwood County.

DHEC has been investigating the source of the odor and the sheen found on the creek along Foundry Road. The property owner of 104 E. Kirksey Dr. (formerly operated as Petroleum Products) has hired an environmental consultant to abate and assess the concerns in the creek. Abatement has been ongoing and absorbent booms have been installed along the creek. The creek has also been rerouted. An assessment by his consultant is currently on-going to determine the extent and source of the contamination.

If you have any further questions, please feel free to reach out to me.

Best,
Delaney

Delaney Toth, Hydrogeologist
Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-2818

Connect: www.scdhec.gov Facebook Twitter

RE: [EXTERNAL EMAIL]RE: [EXTERNAL EMAIL]UST #04785 Data

Julie Wilkie <julie.wilkie@gwdcity.com>

Mon 8/9/2021 1:54 PM

To: mkeller131@comcast.net <mkeller131@comcast.net>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Gorman, Angela <gormanak@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Mark –

I am reaching out to Davis & Floyd to see if I can get some clarity on the difference in the maps and the connectivity of the lines that we are aware of

I don't think our Public Works Department would have any additional info or maps that will help solve this. However, we will be happy to assist in removing lids, etc as needed so you all can access locations.

I have requested that D&F meet me on site. As soon as I have some clarity, I will advise.

THANKS!

Julie

UST 57 DOCKET

Julie M. Wilkie
City Manager
864.942.8410

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Thursday, August 5, 2021 1:23 PM
To: Julie Wilkie <julie.wilkie@gwdcity.com>; 'Thrash, Ashleigh' <thrasham@dhec.sc.gov>; 'Gorman, Angela' <gormanak@dhec.sc.gov>; 'Reilly, Caitlin M.' <reillycm@dhec.sc.gov>
Subject: [EXTERNAL EMAIL]RE: [EXTERNAL EMAIL]UST #04785 Data

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Good afternoon,

I looked over the map you sent and it did not look the same as my mapping and didn't work with my observations in the field. I have looked through our project notes and I have attached a map to this email. This map was produced by Davis & Floyd in 2019 titled Storm Sewer Diagram. I snipped the relevant portion. I have added the red arrows as well as the red dots to signify the storm drain. Nothing on this map indicates the pond is tied to this storm drain. The area highlighted in yellow is the pond. David & Floyd noted a broken manway and a short run of pipe but did not tie it back into the storm drain as shown. It is our observation that whatever feeds the storm drain that fills the pond, the pond then overflows into the storm drain in red. I collected video of that occurrence during a storm event on site where we spend 4 weeks conducting the investigation. The storm drain is believed to connect from the manhole to the exposed open drain by an underground piping which we identified by using hand augers along that area in an attempt to collect samples for screening.

The second map titled Davis & Floyd Survey Map Probing was created for us as part of this assessment. We requested an early survey from the Project Manager as the site was becoming too large to keep track of the probe points and it gets overgrown quickly. This survey shows the route of the "creek" that flows across the Smith property. It is a storm drain connected to Main Street South across from the County SCDHEC building. This water flows from Main Street South across the Smith property, under Foundry Rd., down the storm drain along foundry, cuts across Foundry at the Housing Authority, flows in an underground RCP pipe across the housing authority property, crosses 96 Highway, and ends in the very large drainage basin between 96 Hwy and New Markey Street.

We have obviously conflicting maps for the property and honestly what is occurring in the confluence area is confusing for everyone involved. We have spoken to a lot of people in the course of the project and I believe its universally agreed the Foundry had a lot of stuff going on in, under, and around it regarding utilities that were known to their operation. We are trying to track down one piece of the puzzle by seeing inside the drainage pipe that gasoline has been identified. That is proving very difficult. It does not appear to be tied into this drainage system. I have attached a 3rd map showing the results of our initial assessment. The contaminant plume is shown in black. We have it fairly defined that we can tell. Wells are being installed currently to get proper analytical data. Some of those may need to be abandoned as development presses forward on the foundry site but it was necessary at this time to delineate the gasoline. Any other contaminants that may be present would fall under the VCC from the Foundry on the Foundry site. We are not permitted under the SUPERB program to investigate those.

We would request assistance in determining what exactly is feeding the pond as these maps differentiate in that regard. We do not have access to internal maps in the public works department to assist us any further. The resources of the SUPERB program are extremely restricted to a very specific task of assessment and remediation of the contaminants from a UST release. Any other sources or contaminant types can not be addressed using money from this account unfortunately. The state laws govern what Caitlin and Ashley can and can not allow. We are working within those confines while trying to produce as much information as possible that can be usable by everyone.

Please let me know if there is any assistance the City can provide in helping to flesh out what goes where and what feeds what by what piping for the drainage flow beyond what we have presented here. We have noted multiple drain grates on the Foundry property filled with soil with no indication as to where they drain. I am certain there are surprises ahead for all of us.

Please feel free to ask any questions and we will do our best to answer them, if we can.

Thanks!

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Julie Wilkie <julie.wilkie@gwdcity.com>
Sent: Wednesday, August 4, 2021 4:23 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Gorman, Angela <gormanak@dhec.sc.gov>

Cc: mkeller131@comcast.net
Subject: RE: [EXTERNAL EMAIL]UST #04785 Data

Afternoon All –

I met on site with DHEC & Mark's staff this afternoon. Couple of things:

1. We definitely were talking about 2 different lines on our earlier call. Line 1, highlighted in pink on the attached, is the line of concern to me. While on site, it was confirmed that everyone agrees there is an odor coming from that box. Mark, your on site guy (I didn't get his name), indicated that he only became aware of the line yesterday. He was going to discuss with you, getting bids to video the line. My staff will assist with the removal of the concrete lid. Additionally, it was discussed that DHEC or Mark's staff (or maybe both) were going to go onto our site at the pipe outfall and get a water sample from that area.
2. Pipe #2 is east of the line in pink. This is the line that is stubbed out of the side of the embankment (Pics attached). Mark's staff indicated they had tried to video the line but hit silt. They are exploring jetting the line to remove the silt, in order to video to determine where it goes. At this point, no one knows if it is connected to anything. I spoke with our engineers for the park (Davis & Floyd), who were going to determine if they have any data on that line. I will let you know when I hear back from them. I understand this was the line that Mark was mentioning on the call today.

I apologize for all my pictures and screenshots, but wanted to provide you with some quick info that may clarify some things. I know it was helpful for me to be on site with both staffs. The on site folks all got Erek Leary's (City PW Director) phone number and will be communicating with him as needed. I will continue to communicate with the 3 of you. If there is anything else that I can help clarify, please let me know.

THANKS!

Julie

Julie M. Wilkie
City Manager
864.942.8410

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Wednesday, August 4, 2021 1:40 PM
To: Gorman, Angela <gormanak@dhec.sc.gov>; Julie Wilkie <julie.wilkie@gwdcity.com>
Cc: mkeller131@comcast.net
Subject: [EXTERNAL EMAIL]UST #04785 Data

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Angela and Julie,

Attached is the screening data and some figures that Mark sent over earlier today. Please let me know if you want to discuss. Thanks Mark for providing these!

Ashleigh

Ashleigh Thrash, P.G.
Section Manager, Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-0607

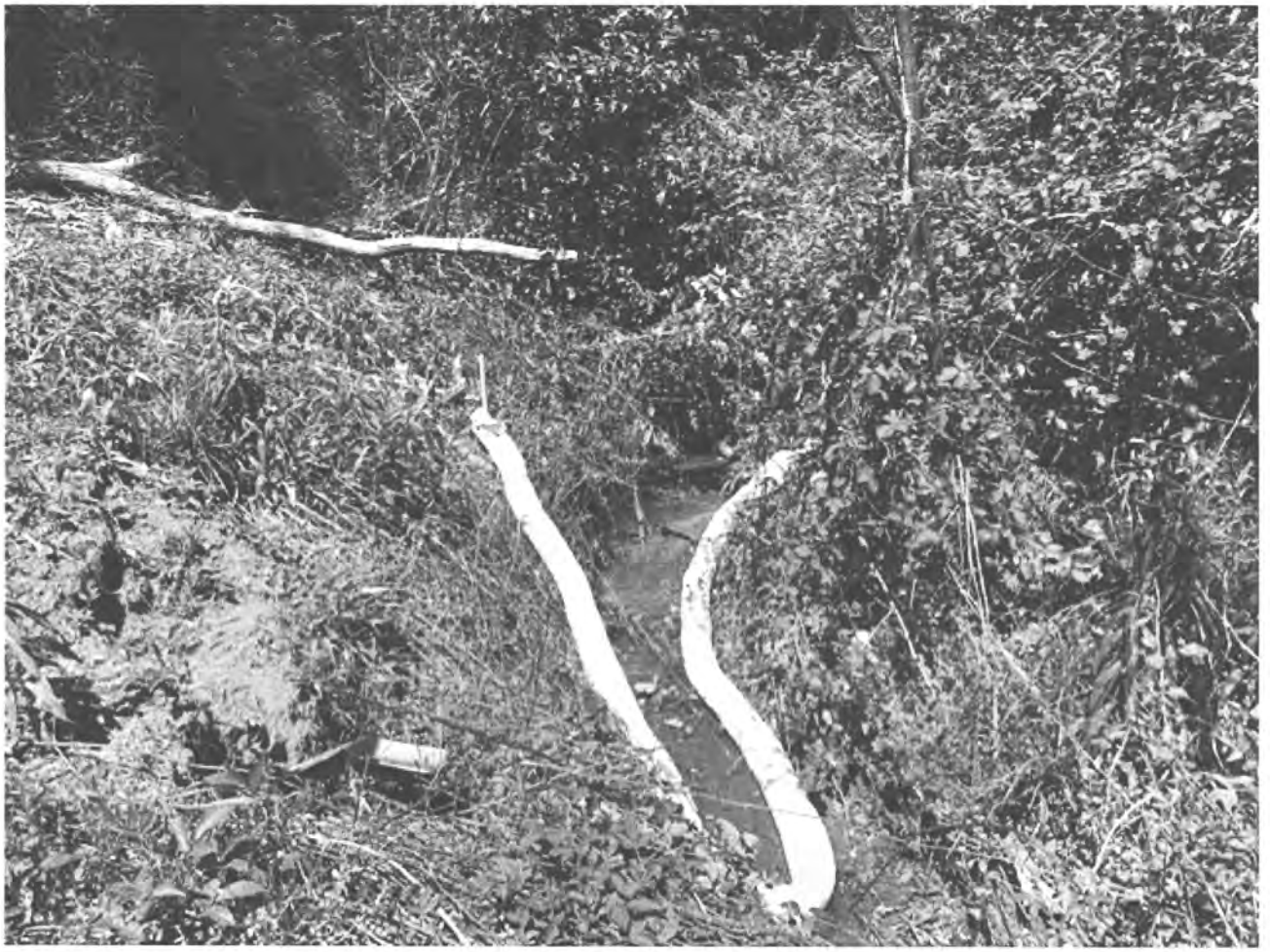
Cell: (803) 608-1765
Connect: www.scdhec.gov Facebook Twitter

(No subject)

Mark Keller <mkeller131@comcast.net>

Tue 8/3/2021 2:48 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>



Mark L. Keller PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
Phone 843-870-4235
Fax 843-797-1893
Office 843-797-7884

(No subject)

Mark Keller <mkeller131@comcast.net>

Tue 8/3/2021 2:39 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Re: UST 04785 - Drain Inspection NTP

Mark Keller <mkeller131@comcast.net>

Mon 8/9/2021 5:09 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

We will need to obtain 3 bids. We can not as I explained perform days of vacuum truck work for $423.00. The bids will tell you what I have attempted to explain. I will begin work on that. I can't speak for Mr. Prince but I am available tomorrow afternoon. I am not available Wednesday. We have a tank pull.

Thanks

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 9, 2021, at 5:00 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Mark,

Ashleigh let me know that the equipment line is for field screening and drilling. We can give you the (1) personnel for your oversight of the drain inspection and for q1 (combining personnel costs where able to) which is allowed under the allowable rates. But q1 is inclusive of all personnel, equipment, and material costs including containers associated with obtaining signatures on manifests, loading, transport, treat and/or disposal of Investigation Derived Waste (wastewater, free product, soil or drilling fluids). She said we can also allow another personnel cost and additional q1 if there are additional gallons generated.

I'm not the best at explaining this as I'm still trying to learn all this as we move through this project together so if you have any questions or concerns you can give Ashleigh or Mihir a call. We also want to schedule a quick call with you and Mr. Patrick Prince, would be available anytime this week for that?

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Monday, August 9, 2021 2:21 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST 04785 - Drain Inspection NTP

The only other idea I had was to use the equipment mobilization rate plus the personnel mob for each day. Here is how it breaks down. All vac truck companies charge about $125 per hour plus fuel surcharge of around 15% plus disposal. After 8 hours the rate goes up to $175 to account for overtime pay to the operator. So for a 10
Hour day figure $1500. An equipment mob plus a personnel mob is about that. An 8 hour AFVR is probably cheaper. When gasoline gets involved most vacuum truck companies can not handle that. The reason is the vacuum pumps typically are not built explosion proof. We use what is termed as USDOT 407/412 coded trucks. They are approved by federal inspectors during construction to handle oil and gasoline. They cost a significant amount more than a vac truck or vac trailer. Regular trucks are not held to any standard thus not appropriate for these tasks, like AFVR events. I see a many setups using equipment not approved for gasoline vapor. It's a federal mandate which we as the environmental community should look at as a requirement for these events, but that's another topic.

So, if we get bids, they are going to be higher than 8 hour AFVR, and higher than equipment plus personnel mob. That's why I suggested the 8 hour AFVR charge as it seemed the most cost effective. Let me know if that helps or if you need additional info on the 407/412 reference.

Thanks!!

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704

Goose Creek, SC 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 9, 2021, at 1:23 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Ashleigh and I are still trying to schedule a meeting with Mihir but in the meantime Ashleigh wanted me to ask if you have any other ideas about how to assess/determine the preferential pathway of petroleum entering the drainpipe while conforming to the SUPERB allowable rates. We could bring any ideas you can come up with to Mihir as well.

Thanks,
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Monday, August 9, 2021 8:38 AM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Subject: Re: UST 04785 - Drain Inspection NTP

Good morning Mark,

I totally understand where you are coming from, let me get all this information over to Mihir and Ashleigh and see what we can come up with.

Thanks!
Caitlin

Caitlin Reilly
Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Division

S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, August 6, 2021 3:09 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: RE: UST 04785 - Drain Inspection NTP

I am sorry Caitlin, but there is no money there for using a vacuum truck for 8-10 hours a day recovering contaminated waste. We are basically being paid $0.00 to have a $175,000.00 vacuum truck on site plus an operator to handle collection of gasoline contaminated waste. There is a serious hazard to this operation that we are not willing to take on for pennies per gallon. I don't see how SCDHEC expects that to be completed for free. Q1 is simply the disposal of waste. We have to pay a disposal company to process what we collect. None of the contractors who provided quotes will touch this waste for collection or disposal. The City of Greenwood has also declined to do it. Without payment for our efforts, we will also decline to do it. That leaves us with quotes to clean the pipe, put a camera in it, and get traffic control, but none to handle the waste. Do you want us to get quotes from vacuum truck companies to handle the waste as it is generated? That is the only way this will be completed. They will also charge a daily rate and they will likely not agree to handle gasoline, but that seems the only avenue we have left.

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Friday, August 6, 2021 2:18 PM
To: mkeller131@comcast.net
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: Re: UST 04785 - Drain Inspection NTP

Hey Mark,

I talked it over with Ashleigh and she let me know that AFVR rates have other things built into it so the Q1 would be the closest thing we could think of. A personnel mob is on the initial cost agreement so that should cover having

someone on site with the vac truck? I really wish I had a copy of the cost agreement to attach right now but it still hasn't been uploaded so I'll break it down for you below so you can see what we're looking at cost wise.

CA# 64200:
1x - D1 ($451.34)
1x - R1 Drain Exploration ($3,683.00)
1x - R2 Traffic Control ($1,350.00)
12% ($658.12)
Total = $6,142.46

CA# 64200 Addendum:
Q1 - 3,700 gallons ($2,220.00)
12% ($266.40)
Total = $2,486.40

So the new total is $8,628.86. If it goes longer than one day or we need more waste added, we can create another addendum. What do you think?

Thanks!
Caitlin

Caitlin Reilly

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, August 6, 2021 12:04 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: RE: UST 04785 - Drain Inspection NTP

No worries!! So none of the companies will even handle the waste. They are requiring we handle it with our vacuum truck. No problem, but we need to

determine a line item cost. The only thing that remotely fits is using AFVR rates. So we would need to use the AFVR rates based on the total number of hours we need the vac, and perform the disposal. Our truck can hold 3700 gallons so lets just put that as the total for now. We would have to mobilize all the way back home to dump it and come back which is an 8 hour round trip. If it came to that we would need to stop for an entire day to handle the waste. I hope that is not the case. So, AFVR based on the total number of hours, 3700 gallons, and we need to call you daily or you may be on site, to get approval as we move forward. Does that sound like a plan?

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Reilly, Caitlin M <reillycm@dhec.sc.gov>
Sent: Friday, August 6, 2021 11:29 AM
To: mkeller131@comcast.net
Subject: Re: UST 04785 - Drain Inspection NTP

Hey Mark,

Since we don't know how long it's going to take I just did it for one day and we can do a CA addendum if needed. I didn't even think of the wastewater, that's totally my fault! I can do an addendum for that, do you think 1000 gallons under Q1 would be good to start with?

Also, I believe a hard copy of the notice to proceed and the original approved cost agreement will be going in the mail this afternoon. I dropped it in the outgoing mailbox yesterday afternoon so it so it should be with our scanning department now. As soon as it gets scanned in, I'll get you a copy of that. I'll add the wastewater to an addendum this morning and get that over to finance.

Thanks!
Caitlin

Caitlin Reilly

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

S.C. Dept. of Health & Environmental Control
Office: (803) 898-3807

Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

From: Mark Keller <mkeller131@comcast.net>
Sent: Thursday, August 5, 2021 2:49 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST 04785 - Drain Inspection NTP

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Caitlin

Thank you for this. I think there may be a miscommunication. The quotes we sent in are per day. They don't know how many days it will take and neither do we. The approved amount will allow us to work for 1 day only. If that is what you guys intend please tell me how we need to proceed if we can not compete the job in 1 day. I don't see a cost agreement but you can tell me are we handling the collection and waste under an AFVR cost?

Thanks

Mark

Mark L. Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Aug 5, 2021, at 2:14 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

I was able to look at the quotes and put together the notice to proceed letter for you this afternoon. I have attached a copy of the letter and approved quotes so you can proceed with scheduling. The cost agreement is still getting created with our financial department but a copy of it will go out with the hard copy. The CA number is 64200 and it has been approved for $6,142.46. This

includes the exploration, traffic control, and a personnel mob so someone can be on site just like last time. Please let me know if I forgot to add something to it.

Thanks!
Caitlin

Caitlin Reilly

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

S.C. Dept. of Health & Environmental Control
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TIER II ASSESSMENT

Quick Pantry # 19
Greenwood, South Carolina
Site ID# 04785

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

October 1st, 2021

Prepared for:

Mr. Caitlin Reilly
Assessment Section
SCDHEC-USMD
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC.
PO Box 2704
Goose Creek, SC 29445
(843) 870-4285
UST Contractor # 345

Project # 21547

SIGNATURE PAGE

This report entitled "**TIER II ASSESSMENT" for Quick Pantry # 19** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:

Graham P. Robinson
Hydrogeologist

Viewed By:

Mark L. Keller, PG
President

10/1/21
Date

SOUTH CAROLINA REGISTERED PROFESSIONAL GEOLOGIST No. 2311 10/1/21 MARK L. KELLER

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1.0 INTRODUCTION

The Quick Pantry # 19 site is located at 1802 South Main Street in Greenwood, South Carolina. A general site location map is provided as Figure 1 in Appendix A. Due to the large area needed for mapping, the site map has been split into Site Map One shown as Figure 2a, and Site Map Two as Figure 2b. The property owner is SMVS Real Estate, LLC located at 1802 South Main Street in Greenwood, SC 29646. The UST responsible party is Bahuchar Mata, LLC located at 311 Oakmonte Circle in Greenwood, SC 29649; phone 864-378-6993. KLM Environmental is the Certified UST Site Rehabilitation Contractor performing the work (Certification # 345). KLM's address is PO Box 2704, Goose Creek, SC 29445; phone 843-870-4285. Analytical Environmental Services, Inc. is the certified laboratory used to analyze the samples for this work (Certification # 98016003). AES's main address is 3080 Presidential Drive, Atlanta, GA 30340, phone # 770-457-8177.

The Quick Pantry # 19 site is an active gasoline station surrounded by residential and commercial property. This site is zoned General Commercial by Greenwood County. A copy of the zoning information can be found on the Greenwood County website. The site currently contains three underground storage tanks consisting of two 4,000-gallon gasoline tanks and one 5,000-gallon gasoline tank. Both 4,000-gallon tanks are in use, but the 5,000-gallon gasoline tank is currently empty and out of service due to a failed tank tightness test in February of 2021. There are two dispensers associated with these tanks. The investigation of this site was prompted by reports of a petroleum smell near the housing complex on Foundry Road. The release that prompted this assessment was reported on March 9th, 2021 in response to a failed tank tightness test and the presence of free product around the tank pit. KLM Environmental was tasked with the emergency abatement of the release, and abatement actions were initiated by shutting down the leaking tank and installing a skimming system of oil-absorbent booms to catch the petroleum on the creek's surface. After the installation of the boom system, KLM Environmental began a series of long duration Aggressive Fluid and Vapor Recovery (AFVR) events along with coordination with the SCDHEC for the Tier II Assessment. Immediately prior to the completion of this report an additional petroleum release occurred. Due to a misunderstanding or miscommunication, the fuel supplier for the Quick Pantry # 19 filled the empty, out-of-service underground storage tank with 3,400 gallons of gasoline. Over 500 gallons had leaked out before the fuel supplier returned to transfer the fuel to the proper tank. The potential new release was reported on September 28th, 2021 by KLM Environmental after

the store owner made contact to be advised on what to do. Abatement actions for that release have not commenced at the time this report is being submitted.

The subject site is primarily underlain by a sand clay mixture that transitions from sandy loam to clay loam and is further underlain by Charlotte Terrane meta-igneous rocks. A geologic paper for reference is provided in Appendix C (Dennis & Wright, 1997).

KLM Environmental previously completed the installation of a boom skimming system for the site in March of 2021, as well as three total AFVR events in April, May, and August of 2021. Drain inspections were also completed for two separate storm drains on September 2nd and September 30th. The initial drain inspection was done in an attempt to determine the source of free phase product dripping from an unidentified storm drainpipe located in the area of GP-138 shown on Figure 3a. The second drain inspection was performed on the storm drain which connects to the open creek on the Smith property. This was performed to determine if the storm drain continued down the edge of foundry road and intersected the open-air ditch or continued underground and intersected the pond located on the Foundry property. A map is provided as Figure 7. For a list of previous work on this site, please refer to Section 4.0 of this report. This report serves to provide the results from the Tier II Assessment conducted at the site as requested by the SCDHEC Project Manager.

1.1 Receptor Survey

A receptor survey was completed as a part of this Tier II Assessment. The receptors identified were underground utilities including sewage, water, fiber optic, power and gas lines, storm sewers, and an open creek like section of the storm drainage system for the area. No supply wells or irrigation wells were noted in the vicinity.

TABLE 1 **Receptor Survey** **Quick Pantry # 19** **Greenwood, SC**			
		NO	**YES**
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? If yes, indicated type of receptor, distance, and direction on site map.		X
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, receptor indicated on site map.	X	
C.	Are there any underground structures (e.g., basements) located within 100 feet of the UST system? If yes, receptor indicated on site map	X	
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? If yes, receptor indicated on site map		X
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?	X	

2.0 ASSESSMENT INFORMATION

2.1 Vertical and Horizontal Plume Delineation

Due to the SCDHEC's request for emergency action, delineation work was requested to begin prior to securing offsite access from the surrounding properties. KLM submitted a Site-Specific Work Plan for the Tier II Assessment, and the cost agreement was split into two events – a delineation of the Quick Pantry # 19 site and the properties to the west, which had access agreements in place by the time the work commenced, and a delineation of the remaining properties. KLM submitted permission forms to the surrounding property owners and eventually obtained permission from nearly all property owners with the exception of the Greenwood Health Department site. Copies of the access agreements can be found in Appendix J of this report. Delineation of the contaminant plume was accomplished with the use of a Geoprobe model 7822 direct push rig with dynamic hammering capabilities. The temporary wells were installed by Mark Keller (SC Driller # 1554) with Grandview Holdings, LLC. Groundwater samples were collected and analyzed using a mobile gas chromatograph model SRI 310C operated by KLM Environmental, LLC field personnel. The unit is capable of detecting and speciating compounds to 1 part per billion. The probe locations are shown on Figures 3a and 3a-1.

Due to the anticipated size of the contaminant plume and the emergency nature of the release, the field screening was split up into multiple events to allow KLM to begin probing the site prior to obtaining access agreements from all the surrounding properties. KLM conducted the initial field screening on the Quick Pantry # 19 site and the adjacent properties across Kirksey Drive West from April 27th through April 30th, 2021. In the initial field screening, KLM installed ten temporary 1-inch monitoring wells around the tank pit in order to assess the extent of the free product plume. Those wells were allowed to equilibrate for 24 hours prior to gauging in an attempt to ascertain product thickness at the site. What was not known at the time is the extremely slow recharge rate, thus the temporary wells did not provide an accurate picture of the contaminant extent during this phase of the work. It was initially thought that product had not been detected at a meaningful thickness based on initial gauging of these temporary wells. Additionally, KLM probed 35 locations for groundwater samples and 1 location for a continuous core soil boring. The work was completed, and the results submitted from the initial delineation work to the SCDHEC. KLM conducted the second field screening event from May 17th through May 27th, 2021. During this event, KLM probed an additional 129 locations for groundwater samples. The SCDHEC performed site visits and inspections of the

probing and laboratory work during all field screening events. KLM completed delineation efforts on June 21st through June 23rd, 2021 by probing 9 additional locations for shallow groundwater samples, 5 locations for deep groundwater samples, and 3 locations for continuous core soil borings. KLM submitted those results to the SCDHEC Project Manager and the location for the placement of permanent wells was initiated.

During the field screening events, KLM personnel identified a drainpipe dripping free product from it. The pipe was perceived to be running through the property to the southeast of the Quick Pantry # 19 site, known as the Foundry site. After coordinating with the SCDHEC, KLM personnel initially attempted to send a camera into the pipe to perform an inspection. The camera team could not inspect the pipe as a large area of mud was blocking the pipe approximately 9 feet into the run. KLM demobilized and as required, obtained quotes to have the line jetted to clean out any debris and try the camera inspection again. Those costs were approved, and the event performed on September 2nd, 2021. KLM utilized a vacuum truck to collect all waste generated during the line cleaning as it was contaminated. The drain line was videotaped to a length of approximately 29 feet where a concrete obstruction was encountered by the camera system, and it could not advance further. However, the jet cleaner did advance to approximately 150 feet along the drain line. It is surmised that the free product seeps into the drain from below when the water table, which contains free product on this area, intersects the drain line. This intersection fluctuates as the water level changes. The SCDHEC Project Manager subsequently requested jetting and videotaping the storm drain system where it crosses Foundry Road, near SW-4 shown on the site map. It was surmised from some maps, but not all maps, provided from a Voluntary Cleanup Contract (VCC) that the drain line connects with the pond shown on Figure 7. On September 30th, 2021 the jetting and inspection was completed along with use of the vacuum truck to capture any waste generated, as well as assistance from the City of Greenwood to remove the concrete lid protecting the storm drain intake. The results indicated the storm drain does connect to the pond, that it also has several intake grates along its length, that it is fed by another drain line from the interior of the foundry property, and it was constructed in 1954. A date was seen by the camera during the video inspection. As a result of this inspection, it is surmised that the free product entering the drainage system has been transmitted to the pond area and the pond may be a secondary source for contaminants. Copies of the video inspections will be submitted electronically. Manifests for all waters generated during the drain cleaning and inspections were submitted under separate cover for those events.

The boring locations and field screening results are identified on Figure 3a in Appendix A and the field screening results are provided in Table 1a and in Appendix D. The continuous core logs are provided in Appendix D for SB-1, SB-2, SB-3, and SB-4. The well logs for all temporary wells are provided in Appendix D.

Results for the probe delineation are as follows:

TABLE 1a
Probe Delineation Data
Quick Pantry # 19
Greenwood, SC

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	**--**	**GW**	**--**	**5**	**1000**	**700**	**10000**	**40**	
GP-1A	4/27/21	GW	20	Dry	Dry	Dry	Dry	Dry	20 Min
GP-1B	4/27/21	GW	25	--	--	--	--	--	
GP-2	4/27/21	GW	30	--	--	--	--	--	
GP-3	4/27/21	GW	30	--	--	--	--	--	
GP-4	4/27/21	GW	25	**87.22**	176.69	--	89.92	--	NTA
GP-5	4/27/21	GW	20	**1774.97**	**1977.18**	--	5252.13	**584.02**	NTA
GP-6	4/28/21	GW	30	--	--	--	--	**90.66**	
GP-7	4/28/21	GW	25	**621.29**	**1352.27**	--	961.05	**1045.93**	NTA
GP-8	4/28/21	GW	20	**555.18**	3047.98	--	2269.31	**1790.01**	NTA
GP-9	4/28/21	GW	25	**36.10**	77.22	--	--	--	
GP-10	4/28/21	GW	25	--	--	--	--	**209.71**	
GP-11	4/28/21	GW	25	--	167.10	--	136.94	**646.09**	NTA
GP-12	4/28/21	GW	25	--	88.11	--	57.20	--	
GP-13	4/28/21	GW	20	**2733.46**	**3991.39**	--	3572.36	**2967.44**	NTA
GP-14	4/28/21	GW	20	**2821.33**	**3753.50**	--	1665.61	**3026.88**	NTA
GP-15	4/29/21	GW	20	**73.71**	412.90	--	258.17	**155.38**	NTA
GP-16	4/29/21	GW	20	**59.29**	197.61	--	50.80	--	
GP-17	4/29/21	GW	20	--	169.89	--	55.84	--	
GP-18	4/29/21	GW	35	**31.39**	62.46	--	--	--	
GP-19	4/29/21	GW	40	--	49.77	--	--	--	
GP-20	4/29/21	GW	41.5	--	--	--	--	--	refusal
GP-21	4/29/21	GW	20	**1289.63**	**3506.85**	--	3019.88	**3142.14**	NTA
GP-22	4/29/21	GW	20	**2121.58**	**3096.41**	--	1588.78	**3151.78**	NTA
GP-23	4/29/21	GW	20	**2850.38**	**5284.74**	--	6160.42	***	NTA
GP-24	4/29/21	GW	20	**3231.66**	**4151.91**	--	4442.42	**3073.59**	NTA
GP-25	4/29/21	GW	20	**2239.09**	**3501.06**	--	3821.55	**3651.06**	NTA
GP-26	4/29/21	GW	20	**1425.07**	**2469.25**	--	1077.82	**526.78**	NTA
GP-27	4/29/21	GW	20	--	--	--	--	--	--
GP-28	4/29/21	GW	23	--	--	--	--	--	refusal
GP-29	4/29/21	GW	25	--	--	--	--	--	
GP-30	4/30/21	GW	30	**679.19**	**1212.78**	--	775.75	**1157.53**	NTA
GP-31	4/30/21	GW	34	**938.68**	**1500.64**	--	874.57	**1737.77**	refusal
GP-32	4/30/21	GW	35	**103.62**	208.15	--	55.05	**141.06**	

TABLE 1a Continued
Probe Delineation Data
Quick Pantry # 19
Greenwood, SC

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	**--**	**GW**	**--**	**5**	**1000**	**700**	**10000**	**40**	
GP-33	4/30/21	GW	40	**75.02**	157.14	--	41.69	**163.92**	
GP-34	4/30/21	GW	22	--	--	--	--	--	refusal
GP-35	4/30/21	GW	19	Dry	Dry	Dry	Dry	Dry	refusal
GP-36A	5/17/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-36B	5/17/21	GW	25	--	40.55	--	--	**103.88**	
GP-37A	5/17/21	GW	20	Dry	Dry	Dry	Dry	Dry	
GP-37B	5/17/21	GW	25	**1276.17**	**1034.91**	--	278.92	**1703.21**	
GP-38	5/17/21	GW	25	**96.93**	258.71	--	41.72	**254.58**	
GP-39	5/17/21	GW	25	--	--	--	--	--	
GP-40	5/17/21	GW	25	**29.39**	--	--	--	--	
GP-41	5/17/21	GW	25	**59.06**	--	--	12.35	**107.97**	
GP-42	5/17/21	GW	25	**2099.11**	435.88	--	186.98	**319.15**	
GP-43	5/18/21	GW	25	**465.10**	120.81	--	16.30	**108.76**	
GP-44	5/18/21	GW	25	**982.49**	195.62	--	32.20	**1239.96**	
GP-45	5/18/21	GW	25	**70.89**	146.62	--	22.58	--	Bent sampler
GP-46	5/18/21	GW	25	**77.24**	158.93	--	23.71	--	
GP-47	5/18/21	GW	25	--	--	--	--	--	
GP-48	5/18/21	GW	20	**169.8**	21.65	--	--	--	
GP-49	5/18/21	GW	20	**1103.28**	**1606.72**	--	695.14	**613.69**	NTA
GP-50	5/18/21	GW	20	**709.80**	763.28	--	300.29	**689.89**	NTA
GP-51	5/18/21	GW	20	**1508.56**	**2037.00**	--	745.55	**3050.55**	
GP-52	5/18/21	GW	20	**1142.18**	841.81	--	292.84	**922.17**	
GP-53	5/18/21	GW	20	**162.91**	146.28	--	28.62	**382.72**	
GP-54	5/18/21	GW	20	**1443.17**	**2173.64**	--	516.87	--	NTA
GP-55	5/18/21	GW	20	**415.98**	413.06	--	39.33	**190.50**	
GP-56	5/18/21	GW	20	**558.75**	**1560.97**	--	649.92	**804.72**	NTA
GP-57	5/18/21	GW	20	**163.73**	279.63	--	125.08	--	
GP-58	5/18/21	GW	20	**602.88**	962.82	--	218.98	**263.96**	NTA
GP-59	5/18/21	GW	20	**943.68**	356.57	--	121.27	**582.35**	NTA
GP-60	5/18/21	GW	20	**469.61**	452.26	--	203.02	--	NTA
GP-61	5/18/21	GW	20	**1104.13**	**1516.85**	--	1159.35	**1649.17**	NTA
GP-62	5/18/21	GW	20	**526.59**	529.65	--	152.87	--	NTA
GP-63	5/18/21	GW	20	**162.04**	162.99	--	117.15	--	NTA
GP-64	5/19/21	GW	20	**177.50**	347.79	--	197.92	**540.35**	NTA
GP-65	5/19/21	GW	20	**146.18**	144.65	--	37.66	**103.19**	NTA
GP-66*	5/19/21	GW	15	**123.28**	201.23	--	23.98	--	
GP-67	5/19/21	GW	20	**331.80**	52.31	--	21.05	--	NTA
GP-68	5/19/21	GW	20	**489.73**	261.60	--	86.40	**213.18**	NTA

TABLE 1a Continued
Probe Delineation Data
Quick Pantry # 19
Greenwood, SC

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	**--**	**GW**	**--**	**5**	**1000**	**700**	**10000**	**40**	
GP-69	5/19/21	GW	20	**472.27**	538.53	--	258.85	**390.85**	NTA
GP-70	5/19/21	GW	20	**561.30**	561.82	--	408.82	**2491.95**	NTA
GP-71	5/19/21	GW	20	**820.71**	484.26	--	181.64	**2860.98**	
GP-72	5/19/21	GW	20	**393.46**	1300.56	--	1369.88	**2456.55**	NTA
GP-73	5/19/21	GW	20	**128.77**	387.58	--	119.66	**597.97**	
GP-74	5/19/21	GW	20	--	47.2	--	--	**409.24**	
GP-75	5/19/21	GW	20	--	25.29	--	--	**351.14**	
GP-76	5/19/21	GW	20	**38.57**	25.20	--	12.79	--	
GP-77	5/19/21	GW	20	--	--	--	--	--	
GP-78	5/19/21	GW	20	--	--	--	--	--	
GP-79	5/19/21	GW	20	--	--	--	--	--	
GP-80	5/19/21	GW	20	--	--	--	--	**97.67**	
GP-81	5/19/21	GW	20	--	--	--	--	--	
GP-82	5/19/21	GW	20	--	--	--	--	--	NTA
GP-83	5/19/21	GW	20	--	--	--	--	--	
GP-84	5/19/21	GW	20	--	23.39	--	11.57	--	
GP-85	5/20/21	GW	20	--	--	--	--	--	
GP-86	5/20/21	GW	20	--	--	--	--	--	
GP-87	5/20/21	GW	20	--	--	--	--	--	
GP-88	5/20/21	GW	20	--	--	--	--	**178.76**	
GP-89	5/20/21	GW	20	--	--	--	--	**82.89**	
GP-90	5/20/21	GW	15	--	--	--	--	**421.96**	
GP-91	5/20/21	GW	15	--	--	--	--	--	
GP-92	5/20/21	GW	20	--	--	--	--	--	
GP-93A	5/20/21	GW	13	Dry	Dry	Dry	Dry	Dry	Refusal
GP-93B	5/20/21	GW	16	Dry	Dry	Dry	Dry	Dry	Refusal
GP-94	5/20/21	GW	15	--	--	--	--	**129.99**	
GP-95A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-95B	5/20/21	GW	20	**140.80**	565.57	--	428.55	**954.55**	NTA
GP-96A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-96B	5/20/21	GW	20	**538.10**	211.60	--	76.67	**379.25**	NTA
GP-97A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-97B	5/20/21	GW	20	**157.23**	319.27	--	134.55	**119.95**	NTA
GP-98A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-98B	5/20/21	GW	20	**331.86**	482.80	--	168.82	--	NTA
GP-99	5/20/21	GW	20	**358.26**	531.00	--	203.37	--	NTA
GP-100	5/20/21	GW	20	**718.09**	49.49	--	--	**255.08**	
GP-101	5/20/21	GW	15	**294.11**	--	--	--	--	NTA

TABLE 1a Continued
Probe Delineation Data
Quick Pantry # 19
Greenwood, SC

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	**--**	**GW**	**--**	**5**	**1000**	**700**	**10000**	**40**	
GP-102	5/20/21	GW	15	**547.73**	--	--	--	--	NTA
GP-103	5/20/21	GW	15	**437.94**	29.05	--	--	**148.32**	NTA
GP-104	5/20/21	GW	15	--	--	--	--	--	
GP-105	5/20/21	GW	15	--	--	--	--	--	
GP-106	5/24/21	GW	15	**93.94**	--	--	--	--	NTA
GP-107	5/24/21	GW	15	**790.73**	89.79	--	--	--	NTA
GP-108	5/24/21	GW	15	**269.61**	718.11	160.90	428.42	--	NTA
GP-109	5/24/21	GW	15	**1614.74**	**2570.87**	**2535.23**	3106.24	**1169.92**	NTA
GP-110	5/24/21	GW	15	**1519.45**	**3507.55**	**2803.86**	3430.91	**984.65**	NTA
GP-111	5/24/21	GW	15	**949.08**	**2326.77**	**1380.46**	1423.88	**186.98**	NTA
GP-112	5/24/21	GW	15	**206.26**	162.37	--	116.47	--	NTA
GP-113	5/24/21	GW	15	--	124.85	--	105.65	--	NTA
GP-114	5/24/21	GW	15	--	--	--	--	--	
GP-115	5/24/21	GW	15	--	--	--	--	--	
GP-116	5/24/21	GW	15	--	--	--	--	--	
GP-117	5/24/21	GW	15	--	--	--	--	--	
GP-118	5/24/21	GW	15	--	--	--	--	--	
GP-119	5/24/21	GW	15	--	22.81	--	--	--	
GP-120	5/24/21	GW	15	--	--	--	--	--	
GP-121	5/25/21	GW	25	--	--	--	--	--	
GP-122	5/25/21	GW	25	--	--	--	--	--	
GP-123	5/25/21	GW	25	--	--	--	--	--	
GP-124	5/25/21	GW	25	--	21.72	--	--	--	
GP-125	5/25/21	GW	25	--	--	--	11.38	--	
GP-126	5/25/21	GW	25	--	--	--	--	--	
GP-127	5/25/21	GW	20	--	--	--	--	--	
GP-128	5/25/21	GW	20	**18.45**	42.54	--	23.48	**118.62**	
GP-129	5/25/21	GW	20	--	--	--	--	--	
GP-130	5/25/21	GW	20	--	--	--	--	--	
GP-131	5/25/21	GW	15	--	--	--	--	--	
GP-132	5/25/21	GW	15	--	--	--	--	--	
GP-133	5/25/21	GW	15	--	--	--	--	--	
GP-134	5/25/21	GW	15	--	--	--	--	--	
GP-135	5/25/21	GW	15	--	--	--	--	--	
GP-136	5/25/21	GW	25	--	--	--	--	--	
GP-137	5/25/21	GW	25	--	--	--	--	--	
GP-138	5/26/21	GW	5	**19.11**	127.23	--	41.53	**251.22**	NTA
GP-139	5/26/21	GW	5	--	--	--	--	--	

TABLE 1a Continued
Probe Delineation Data
Quick Pantry # 19
Greenwood, SC

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	**--**	**GW**	**--**	**5**	**1000**	**700**	**10000**	**40**	
GP-140	5/26/21	GW	5	--	--	--	--	--	
GP-141	5/26/21	GW	5	--	--	--	--	--	
GP-142	5/26/21	GW	5	--	--	--	--	--	
GP-143	5/26/21	GW	15	**181.78**	--	--	--	--	
GP-144	5/26/21	GW	15	--	--	--	--	--	
GP-145	5/26/21	GW	15	--	--	--	--	--	
GP-146	5/26/21	GW	15	--	--	--	--	--	
GP-147	5/26/21	GW	15	--	--	--	--	--	
GP-148	5/26/21	GW	15	--	--	--	--	--	Broke sampler
GP-149	5/26/21	GW	13	**513.49**	--	--	30.64	--	refusal
GP-150	5/26/21	GW	18	**115.78**	--	--	--	--	refusal
GP-151A	5/26/21	GW	10	Dry	Dry	Dry	Dry	Dry	
GP-151B	5/26/21	GW	15	--	--	--	--	--	
GP-152	5/26/21	GW	15	--	--	--	--	--	
GP-153	5/26/21	GW	15	--	--	--	--	--	
GP-154	5/26/21	GW	15	--	--	--	--	--	
GP-155	5/26/21	GW	15	--	--	--	--	--	
GP-156	5/26/21	GW	15	--	--	--	--	--	
GP-157	5/27/21	GW	14	--	--	--	--	--	refusal
GP-158	5/27/21	GW	18	--	--	--	--	--	refusal
GP-159	5/27/21	GW	25	--	--	--	--	--	
GP-160	5/27/21	GW	25	--	--	--	--	--	
GP-161	5/27/21	GW	20	--	--	--	--	--	
GP-162	5/27/21	GW	20	**27.84**	--	--	--	--	
GP-163	5/27/21	GW	20	**306.88**	--	--	--	--	
GP-164	5/27/21	GW	15	--	--	--	--	--	
GP-165	6/21/21	GW	20	--	--	--	--	--	
GP-166	6/21/21	GW	25	--	--	--	--	--	
GP-167	6/21/21	GW	25	--	--	--	--	--	
GP-168	6/21/21	GW	25	--	--	--	--	--	
GP-169	6/21/21	GW	20	--	--	--	--	--	
GP-170	6/21/21	GW	20	--	--	--	--	--	
GP-171D	6/21/21	GW	22	**401.58**	--	--	--	--	refusal
GP-172	6/21/21	GW	20	--	--	--	--	--	
GP-173	6/21/21	GW	20	--	--	--	--	--	
GP-174	6/21/21	GW	20	--	--	--	--	--	
GP-175D	6/22/21	GW	25	**583.97**	92.16	--	28.28	**638.11**	
GP-176D	6/22/21	GW	30	**348.41**	45.24	--	67.79	**344.89**	

TABLE 1a Continued
Probe Delineation Data
Quick Pantry # 19
Greenwood, SC

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	**--**	**GW**	**--**	**5**	**1000**	**700**	**10000**	**40**	
GP-177D	6/22/21	GW	35	**106.57**	--	--	--	**173.92**	Refusal
GP-178D	6/22/21	GW	30	**29.87**	90.14	--	23.51	**155.77**	
GP-179D-1	6/22/21	GW	5	refusal	refusal	refusal	refusal	refusal	Concrete
GP-179D-2	6/22/21	GW	6	refusal	refusal	refusal	refusal	refusal	Concrete
GP-179D-3	6/22/21	GW	35	--	--	--	--	--	
GP-180D	6/22/21	GW	40	--	36.75	--	--	--	
GP-181D	6/22/21	GW	35	**903.54**	216.89	252.28	268.07	**913.06**	
GP-182D	6/22/21	GW	40	**23.13**	63.98	--	12.29	--	
GP-183D	6/22/21	GW	45	**135.66**	186.64	--	25.05	**658.63**	
GP-184D	6/22/21	GW	50	**115.52**	158.22	90.94	53.66	**753.32**	
GP-185D	6/22/21	GW	55	**32.96**	102.97	84.98	69.01	**42.78**	
SB-1	4/27/21	Soil	35						See Logs
SB-2	6/22/21	Soil	40						See Logs
SB-3	6/23/21	Soil	30						See Logs
SB-4	6/23/21	Soil	30						See Logs
TW-1	4/27/21	GW	20	**FP**	**FP**	**FP**	**FP**	**FP**	14.45-14.48
TW-2	4/27/21	GW	20	**970.70**	**1655.94**	--	1839.06	**70.77**	NTA
TW-3	4/27/21	GW	20	**FP**	**FP**	**FP**	**FP**	**FP**	13.40-14.18
TW-4	4/27/21	GW	20	**2427.50**	**3337.58**	--	3745.39	**821.16**	NTA
TW-5	4/27/21	GW	20	**1358.42**	**5275.83**	--	5804.82	**3913.24**	NTA
TW-6	4/28/21	GW	20	**3433.29**	**4354.78**	--	6547.08	**383.26**	NTA
TW-7	4/28/21	GW	20	**FP**	**FP**	**FP**	**FP**	**FP**	14.05-14.06
TW-8	4/28/21	GW	20	**3588.66**	**5799.72**	--	5914.86	**4062.52**	NTA
TW-9	4/28/21	GW	20	**3193.12**	**4538.58**	--	5316.66	**4484.82**	NTA
TW-10	4/28/21	GW	20	**FP**	**FP**	**FP**	**FP**	**FP**	14.92-14.93

***contaminant clearly visible on chromatograph but machine failed to identify.
Installed GP-36A and GP-37A, then let those sit for 1 hour while setup of decon pad and lab was completed. Holes were dry. Installed to 25 feet.
Tried GP-66 at 15 feet depth. Took 2 hours to make water and only 10ml recovered.
GP-171D was a deep hole attempt to delineate vertically in that area. Refusal at 22 feet. Collected sample. Did not attempt any further deep delineation in that area.
NTA = Non-Target Analyte.

2.2 Well Installation Information

The SCDHEC Project Manager and KLM agreed on the locations and depths of proposed shallow, deep, and recovery wells by email on July 20th, 2021. The monitoring and recovery wells were installed August 2nd through August 19th, 2021 in the locations shown on the attached site map. The well installation took nearly three weeks due to the number and depths of the wells. The wells were installed by Robyn Barkley (SC Driller # 934) with Petra-Tech. During the well installation, soil was screened at 5-foot intervals using a handheld PID and a sample was collected from every well in the interval exhibiting the highest PID values. These samples were packed into coolers with wet ice and stored in a refrigerator until they could be transported to the analytical laboratory. Due to a shipping issue, some of the soil samples were held past the USEPA prescribed holding time and could not be processed by the analytical laboratory. After installation the wells were developed by Petra-Tech personnel on August 17th through 19th, 2021.

The well installation logs and development logs are included in Appendix E. Results from the analyzed soil samples can be found in Table 1b and in Appendix B. A manifest for the development water (363.2 gallons) is provided in Appendix G. Soil manifests for 2 separate disposal trips are included, totaling 7.61 tons of waste. A survey detailing the locations of temporary probe points was performed at the site on July 13th, 2021 by Davis & Floyd, Inc. The survey was required immediately after probing activities so the locations, due the very large number, would not be lost due to overgrowth, grass trimming, and flag collection popular with the neighborhood children. After the installation of the permanent monitoring wells by Petra-Tech, KLM personnel then surveyed the monitoring well locations and created a comprehensive site map using the base map created by Davis & Floyd, Inc. The site maps are attached as Figure 2a and Figure 2b in Appendix A showing pertinent well locations and other features. The site maps have been split due to the size of the site in general. Soil sampling for grain size was conducted during the well installation activities. Those results are provided in Appendix F.

TABLE 1b **Summary of Soil Analytical Data** **Quick Pantry # 19** **Greenwood, SC**								
CoC	**RBSL**	**MW-10**	**MW-11**	**MW-14**	**MW-15**	**MW-17**	**MW-18**	**MW-19**
Benzene	7	<4.1	<4.8	5.9	<4.3	**33**	**46**	<2.8
Toluene	1,450	<4.1	<4.8	40	35	180	**7500**	<2.8
Ethylbenzene	1,150	<4.1	<4.8	11	7.9	30	**2000**	<2.8
Xylenes	14,500	<4.1	<4.8	65	46	170	11000	<2.8
Naphthalene	36	<4.1	<4.8	13	<4.3	4.0	**690**	<2.8
Benzo(a)anthracene	66	<2.0	<2.0	<2.2	15	<2.2	<2.0	<1.9
Benzo(b)fluoranthene	66	<3.9	<3.9	<4.3	25	<4.2	<3.9	4.5
Benzo(k)fluoranthene	66	<2.0	<2.0	<2.2	11	<2.2	<2.0	<1.9
Chrysene	66	<2.0	<2.0	<2.2	18	<2.2	<2.0	23
Dibenzo(a,h)anthracene	66	<3.9	<3.9	<4.3	<4.6	<4.2	<3.9	<3.8
Total Organic Carbon	--	--	--	--	--	--	--	2120000

*Results in ug/kg unless noted

TABLE 1b Cont. **Summary of Soil Analytical Data** **Quick Pantry # 19** **Greenwood, SC**						
CoC	**RBSL**	**MW-21**	**MW-22**	**MW-25**	**Field**	**Trip**
Benzene	7	**8.5**	<3.3	<6.6	<1.0	<1.0
Toluene	1,450	75	14	<6.6	<1.0	<1.0
Ethylbenzene	1,150	16	<3.3	<6.6	<1.0	<1.0
Xylenes	14,500	91	14	<6.6	<1.0	<1.0
Naphthalene	36	<5.0	<3.3	<6.6	<5.0	<5.0
Benzo(a)anthracene	66	8.5	<2.1	8.2	--	--
Benzo(b)fluoranthene	66	13	<4.0	17	--	--
Benzo(k)fluoranthene	66	6.3	<2.1	6.5	--	--
Chrysene	66	10	<2.1	11	--	--
Dibenzo(a,h)anthracene	66	<5.2	<4.0	<4.4	--	--
Total Organic Carbon	--	--	--	--	--	--

*Results in ug/kg unless noted

2.3 Groundwater Sampling

KLM personnel mobilized to the site on August 28th, 2021 and attempted to sample all wells associated with the Quick Pantry # 19 site. Due to a medical emergency involving a KLM team member, the job could not be completed and only 24 wells were gauged and 4 wells sampled. KLM personnel returned to the site on September 1st to gauge all wells again and sample the wells that were not completed on the first event. The surface water SW-4 was dry during this sampling event and a sample could not be collected. Purging was performed on all newly installed wells and any wells previously installed that did not bracket the water table. A minimum of three well volumes were

attempted to be purged from those wells prior to sample collection using an electric purge pump. The purge pump and hose were decontaminated between wells with a triple station rinse as outlined in the QAPP. Immediately after well purging was completed, groundwater samples were collected using disposable bottom entry sampling bailers, decanted into sterile glass sample containers provided by the analytical laboratory, and preserved in accordance with United States Environmental Protection Agency (USEPA) sampling protocol. Standard field parameters (pH, specific conductivity, temperature, dissolved oxygen, salinity, and turbidity) were measured with the Horiba U-52 (serial # W22MV13L) and recorded for each sample during well purging or at the time of collection. The Horiba U-52 was calibrated with Horiba 100-4 standard solution prior to use and the calibration records are recorded on the calibration sheet which are included in Appendix B. Following collection in the field, the groundwater samples were packed on wet ice in coolers supplied by the laboratory. Sample coolers were stored in a refrigerator to reduce ice melt until the sample coolers could be shipped to Analytical Environmental Services (SCDHEC Certification # 98016003) and analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Methyl-tert Butyl Ether (MTBE), Naphthalene, 1,2 DCA, 8 Oxygenates, PAH's, Lead, and EDB. Analytical results are provided in Tables 1B, 1C, 1D, 1E, and in Appendix B. Field sampling sheets are provided in Appendix B. A map is provided as Figure 3b in Appendix A showing the sample results along with the well locations, as well as the general locations of the surface water samples. A chemical of concern (COC) delineation map and a free product delineation map are included as Figure 3b and Figure 3c in Appendix A. Transect maps are provided as Figures 5a, 5b, and 5c depicting the local geology as well as the general contaminant zones. Figure 6 is provided showing future predicted migration. A disposal manifest for 48 gallons of contaminated purge water is provided in Appendix G.

Results for all wells sampled are as follows:

TABLE 1c
Summary of Analytical Data
Quick Pantry # 19
Greenwood, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	1,2 DCA	EDB	Lead
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**5**	**0.05**	**15**
MW-1	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-2	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-3	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-5	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-6	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	5.23
MW-7	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-8	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-9	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-10	8/26/21	1.5	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-11	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-12	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-13	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-14	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-15	9/2/21	<1.0	<1.0	<1.0	1.7	<1.0	<5.0	<1.0	<0.020	<1.00
MW-16	9/2/21	**51**	130	32	160	<1.0	<5.0	<1.0	<0.020	<1.00
MW-17	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-18	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-19	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00

TABLE 1c Cont.
Summary of Analytical Data
Quick Pantry # 19
Greenwood, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	1,2 DCA	EDB	Lead
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**5**	**0.05**	**15**
MW-20	9/2/21	**2200**	23	2.2	54	**140**	**86**	<1.0	<0.020	<1.00
MW-21	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-22	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-23	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-24	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-25	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
RW-1	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
RW-2	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
RW-3	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
DW-1	8/26/21	2.1	4.8	5.0	25	3.2	<5.0	<1.0	<0.020	<1.00
DW-2	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
DW-3	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.019	<1.00
DW-4	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
SW-1	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	2.06
SW-2	9/2/21	4.7	<1.0	<1.0	2.1	<1.0	<5.0	<1.0	<0.020	30.2
SW-3	9/2/21	3.2	2.1	<1.0	3.6	<1.0	<5.0	<1.0	<0.020	93.1
SW-4	9/2/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
SW-5	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	16.8
SW-6	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	6.53
QA / QC Data										
Duplicate 1 (MW-11)	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
Duplicate 2 (MW-20)	09/02/21	**2300**	27	3.1	68	**150**	**99**	<1.0	<0.020	<1.0
Field Blank 1	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	NS
Field Blank 2	09/02/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	NS
Trip Blank 1	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	NS	NS
Trip Blank 2	09/02/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	NS	NS
Trip Blank 3	09/02/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	NS	NS
Trip Blank 4	09/02/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	NS	NS
Trip Blank 5	09/02/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	NS	NS

TABLE 1d
Summary of Oxygenate Data
Quick Pantry # 19
Greenwood, SC

Well #	Date Sampled	(ETBE)	(TAME)	(DIPE)	(TBA)	(TAA)	(TBF)	(Ethanol)	(ETBA)
RBSL	**--**	**47**	**128**	**150**	**1400**	**240**	**--**	**10000**	**--**
MW-1	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-2	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-3	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-5	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-6	8/26/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-7	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-8	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-9	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-10	8/26/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-11	8/26/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-12	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-13	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-14	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-15	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-16	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-17	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-18	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-19	9/2/21	<10	<10	**370**	<100	<100	<100	<100	<100
MW-20	9/2/21	<10	30	<10	<100	**480**	<100	<100	<100
MW-21	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-22	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-23	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-24	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
MW-25	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
RW-1	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
RW-2	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
RW-3	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
DW-1	8/26/21	<10	<10	<10	<100	<100	<100	<100	<100
DW-2	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
DW-3	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
DW-4	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
SW-1	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
SW-2	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
SW-3	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
SW-4	9/2/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
SW-5	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
SW-6	9/2/21	<10	<10	**370**	<100	<100	<100	<100	<100

TABLE 1d Cont.
Summary of Oxygenate Data
Quick Pantry # 19
Greenwood, SC

Well #	Date Sampled	(ETBE)	(TAME)	(DIPE)	(TBA)	(TAA)	(TBF)	Ethanol	(ETBA)
RBSL	**--**	**47**	**128**	**150**	**1400**	**240**	**--**	**10000**	**--**
QA / QC Data									
Duplicate 1 (MW-11)	8/26/21	<10	<10	<10	<100	<100	<100	<100	<100
Duplicate 2 (MW-20)	9/2/21	<10	33	<10	<100	**500**	<100	<100	<100
Field Blank 1	8/26/21	<10	<10	<10	<100	<100	<100	<100	<100
Field Blank 2	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
Trip Blank 1	8/26/21	<10	<10	<10	<100	<100	<100	<100	<100
Trip Blank 2	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
Trip Blank 3	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
Trip Blank 4	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100
Trip Blank 5	9/2/21	<10	<10	<10	<100	<100	<100	<100	<100

Note: All results in µg/l. Numbers in bold exceed RBSL. FP = Free Product.

TABLE 1e
Summary of PAH Data
Quick Pantry # 19
Greenwood, SC

Well #	Date Sampled	Benzo(a) Anthracene	Benzo(b) Flouranthene	Benzo(k) Flouranthene	Chrysene	Dibenz(a,h) Anthracene
RBSL	**--**	**10**	**10**	**10**	**10**	**10**
MW-1	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-2	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-3	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-5	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-6	8/26/21	<10	<10	<10	<10	<10
MW-7	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-8	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-9	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-10	8/26/21	<10	<10	<10	<10	<10
MW-11	8/26/21	<10	<10	<10	<10	<10
MW-12	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-13	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-14	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-15	9/2/21	<10	<10	<10	<10	<10
MW-16	9/2/21	<10	<10	<10	<10	<10
MW-17	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
MW-18	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**

TABLE 1e Cont. **Summary of PAH Data** **Quick Pantry # 19** **Greenwood, SC**						
Well #	**Date Sampled**	**Benzo(a) Anthracene**	**Benzo(b) Flouranthene**	**Benzo(k) Flouranthene**	**Chrysene**	**Dibenz(a,h) Anthracene**
RBSL	**--**	**10**	**10**	**10**	**10**	**10**
MW-19	9/2/21	<10	<10	<10	<10	<10
MW-20	9/2/21	<10	<10	<10	<10	<10
MW-21	9/2/21	<10	<10	<10	<10	<10
MW-22	9/2/21	<10	<10	<10	<10	<10
MW-23	9/2/21	<10	<10	<10	<10	<10
MW-24	9/2/21	<10	<10	<10	<10	<10
MW-25	9/2/21	<10	<10	<10	<10	<10
RW-1	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
RW-2	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
RW-3	9/1/21	**FP**	**FP**	**FP**	**FP**	**FP**
DW-1	8/26/21	<10	<10	<10	<10	<10
DW-2	9/2/21	<10	<10	<10	<10	<10
DW-3	9/2/21	<10	<10	<10	<10	<10
DW-4	9/2/21	<10	<10	<10	<10	<10
SW-1	9/2/21	<10	<10	<10	<10	<10
SW-2	9/2/21	<10	<10	<10	<10	<10
SW-3	9/2/21	<10	<10	<10	<10	<10
SW-4	9/2/21	Dry	Dry	Dry	Dry	Dry
SW-5	9/2/21	<10	<10	<10	<10	<10
SW-6	9/2/21	<10	<10	<10	<10	<10
QA / QC Data						
Duplicate 1 (MW-11)	8/26/21	<10	<10	<10	<10	<10
Duplicate 2 (MW-20)	9/2/21	<10	<10	<10	<10	<10

2.4 Piezometric Data

Figure 2a in Appendix A serves as the comprehensive site map showing the locations of the 25 monitoring wells, 4 telescoping deep wells, 3 recovery wells, and 6 surface waters. Field sampling sheets for the well sampling along with the calibration logs are provided in Appendix B. Groundwater elevation data for all monitoring wells associated with the release at the site can be found in Table 2. A shallow groundwater flow map is included in Appendix A as Figure 4a detailing the groundwater flow direction in the shallow monitoring wells. A deep groundwater flow map is included as Figure 4b detailing the same but using the telescoping wells installed during this assessment.

TABLE 2 **Groundwater Data (feet)** **Quick Pantry # 19** **Greenwood, SC**						
Monitoring Well	**Date**	**TOC Elevation**	**Screened Interval**	**TOC to FP**	**TOC to GW**	**GW Elevation**
MW-1*	9/1/21	623.56	X-28.5	17.35	18.02	FP
MW-2*	9/1/21	623.38	10-20	17.32	18.51	FP
MW-3*	9/1/21	625.10	10-20	18.51	18.56	FP
MW-4*	9/1/21	623.30	10-20	17.18	19.19	FP
MW-5*	9/1/21	622.12	10-20	15.38	17.92	FP
MW-6	9/1/21	622.84	10-20	--	14.49	608.35
MW-7*	9/1/21	614.92	8-18	11.59	11.87	FP
MW-8*	9/1/21	615.10	5-15	10.63	13.89	FP
MW-9*	9/1/21	615.58	7.5-17.5	11.32	11.36	FP
MW-10	9/1/21	608.68	2-12	--	4.08	604.60
MW-11	9/1/21	606.78	4-14	--	7.06	599.72
MW-12*	9/1/21	611.62	7-17	10.39	10.95	FP
MW-13*	9/1/21	610.45	5-15	8.08	11.22	FP
MW-14*	9/1/21	608.36	5-15	8.07	10.32	FP
MW-15	9/1/21	610.20	5-15	--	7.89	602.31
MW-16	9/1/21	605.95	5-15	--	7.78	598.17
MW-17*	9/1/21	601.53	3-13	3.94	3.99	FP
MW-18*	9/1/21	604.03	4-14	6.37	6.42	FP
MW-19	9/1/21	605.81	5-15	--	9.07	596.74
MW-20	9/1/21	601.51	3-13	--	5.41	596.10
MW-21	9/1/21	604.50	5-15	--	8.91	595.59
MW-22	9/1/21	600.57	5-15	--	8.81	591.76
MW-23	9/1/21	602.51	5-15	--	10.71	591.80
MW-24	9/1/21	602.73	5-15	--	11.05	591.68
MW-25	9/1/21	606.98	6-16	--	8.31	598.67
RW-1*	9/1/21	624.54	10-20	18.35	19.22	FP
RW-2*	9/1/21	623.44	10-20	17.27	18.12	FP
RW-3*	9/1/21	623.34	10-20	17.48	18.25	FP
DW-1*	9/1/21	624.84	40-45	--	18.87	605.97
DW-2*	9/1/21	611.79	35-40	--	9.46	602.33
DW-3*	9/1/21	610.33	35-40	--	8.69	601.64
DW-4*	9/1/21	602.27	20-25	--	10.47	591.80

*= wells not used to construct Shallow Groundwater Flow Map

Depths to fluid measurements were collected relative to the top of casing for each well. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements.

2.5 Hydraulic Conductivity & Transmissivity

The hydraulic conductivity (*K*) was calculated by averaging the results of the shallow wells slug tested during this assessment. Shallow monitoring wells MW-6 and MW-20 along with telescoping wells

DW-1 and DW-2 were utilized for data collection during this assessment, and the hydraulic conductivity and transmissivity were calculated and averaged. The average hydraulic conductivity for the shallow wells was calculated at 2.197 ft/day. The transmissivity was calculated to be 153.8 ft^2/day. The average hydraulic conductivity for the telescoping wells was calculated at 2.295 ft/day. The transmissivity was calculated to be 160.65 ft^2/day. Hydraulic conductivity and transmissivity calculations were performed utilizing the Bouwer-Rice method and can be found in Appendix F.

2.6 Average Linear Flow Velocity and Hydraulic Gradient

The shallow hydraulic gradient calculation was performed utilizing data from monitoring wells MW-3, MW-10 and MW-17. The resulting hydraulic gradient is calculated to be 0.02107 ft/ft. An effective porosity of 50% was used to represent clay loam soil. The linear flow velocity is calculated using a modified form of Darcy's Law:

$$V=K/n\ (\Delta h/\Delta L)$$

where: V = the average linear flow velocity (L/t)
K = the hydraulic conductivity (L/t)
n = the estimated effective porosity (%) = 50%
$\Delta h/\Delta l$ = the hydraulic gradient (L/L)

The linear flow velocity for the shallow aquifer is calculated to be 33.79 ft/year. This is used to represent the migration of chemicals of concern (COC). Calculations are provided in Appendix F. The vertical gradients were calculated using information from MW-12 and DW-2, and MW-13 and DW-3, near the center of the plume. The vertical gradient is calculated to be 0.07271 ft/ft for MW-12 and DW-2, which indicates an upward flow (discharging aquifer). The vertical gradient is calculated to be 0.09594 ft/ft for MW-13 and DW-3, which indicates an upward flow (discharging aquifer) Calculations are provided in Appendix F.

3.0 CONCLUSIONS

Results from the contamination delineation indicate contaminants exist at the Quick Pantry # 19 site in excess of the Risk Based Screening Levels (RBSLs) as established by the SCDHEC. Free product was present in monitoring wells MW-1, MW-2, MW-3, MW-4 MW-5, MW-7, MW-8, MW-9, MW-12, MW-13, MW-14, MW-17, MW-18, RW-1, RW-2, and RW-3. Contaminants above the RBSLs were found in monitoring wells MW-16 and MW-20. Contaminants were also identified in the surface water samples SW-2 and SW-3, but below regulatory limits at this time. Monitoring well MW-19 and surface water sample SW-6 both contained isopropyl ether at levels well above the RBSL, but no other contaminants were present in either sample.

As is depicted in Figure 3b in Appendix A, the contaminant plume is migrating into and across the creek to the east of the Quick Pantry # 19 site, which continues on and has been confirmed to empty into the pond located on the Foundry site. The plume is currently undefined horizontally to the west, south, and east in certain areas when viewing the monitoring well data, but it is defined vertically. Contaminants were identified in telescoping well DW-1, but below regulatory limits. No contaminants were identified in any of the other 3 deep wells, and vertical gradient calculations done with the deep wells near the center of the plume indicate a discharging aquifer. The lack of contaminants and the upward flow of water in the deep wells indicate the contaminant plume will likely continue migrating along the top of the water table, rather than diving deeper into the subsurface.

For the immediate and ongoing threat of contaminants continuing to discharge into the creek, KLM recommends addressing the source area aggressively. That would entail performing a series of long duration Aggressive Fluid Vapor Recovery (AFVR) events at the site on the installed recovery wells in order to lower the contaminant levels. Additional events can also be conducted on MW-12/MW-13 as a vacuum truck can be parked in that area to conduct an event. Due to the distance from the source zone to the creek, additional actions may need to be taken near the creek to intercept the contaminant plume and prevent further migration. KLM Environmental is currently coordinating with the SCDHEC to install a trench that will intercept the creek and potentially prevent the migration of contaminants into the storm system. Additional assessment should be conducted regarding the horizontal extent of the contaminant plume now that the possible secondary source area of the pond on the Foundry property has been confirmed to connect to the creek storm drain system. The free product on the Foundry site will also need additional delineation.

4.0 REFERENCES

KLM Environmental, LLC, *AFVR Report*, August 2021.

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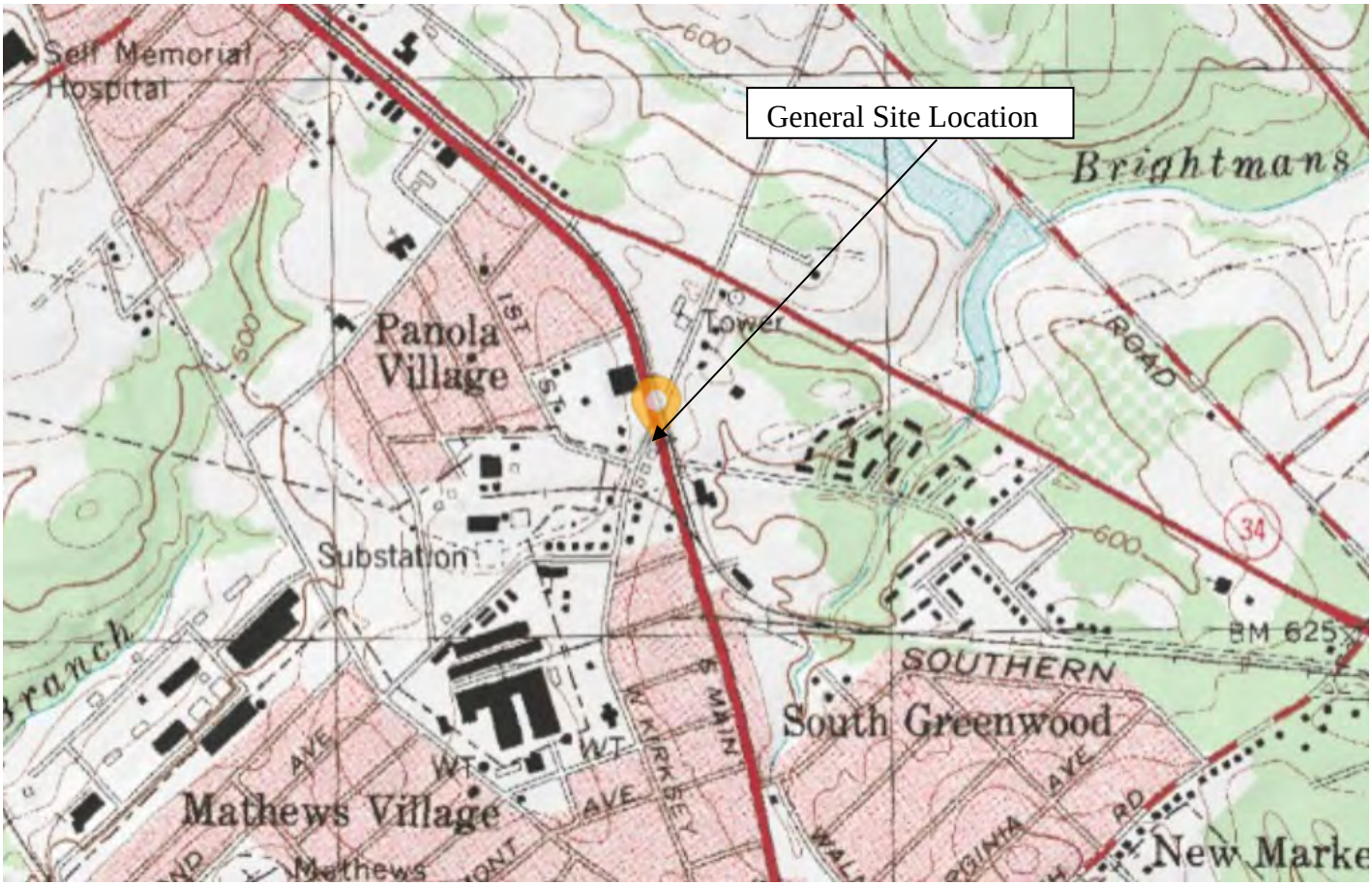
The Carolina Terrain in Northwestern South Carolina, USA. Tectonics Volume 16, No. 3, Pages 460-473. Allen Dennis with USC Aiken & James Wright with Rice University, June 1997.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Quality Assurance Program Plan Revision 4.0,* July 2020.

APPENDIX A

Figures



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Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

Figure 1
USGS Map
Quick Pantry # 19
Greenwood, SC
UST # 04785

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Phase I: Phase II: Underground Storage Tanks: Soil & Water Sampling: Well Installation

FIGURE 2a
SITE MAP ONE
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785

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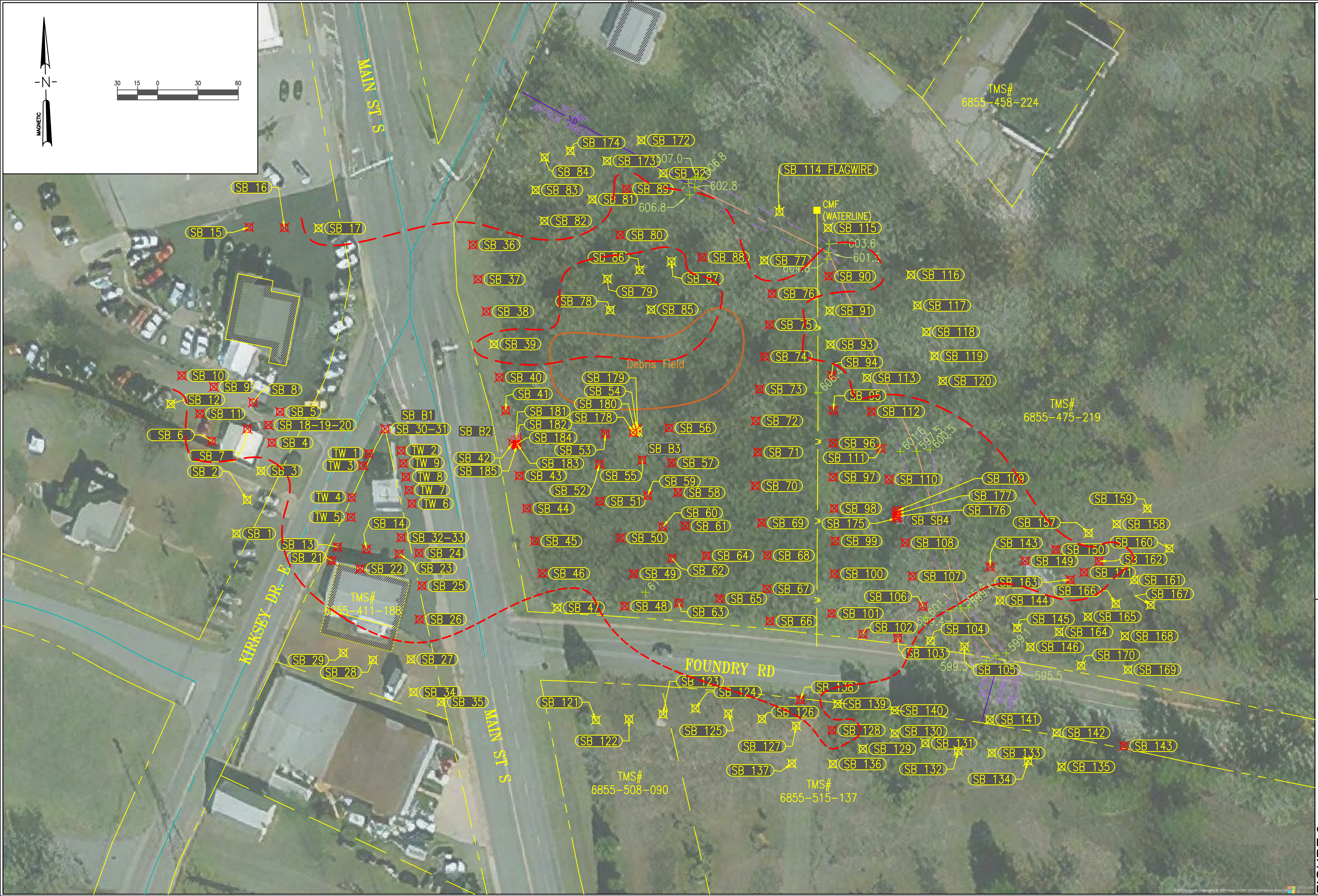
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 2b
SITE MAP TWO
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785



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Phase I · Phase II: Underground Storage Tanks · Soil & Water Sampling · Well Installation

FIGURE 3a
PROBE DELINEATION MAP
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785

Point Table		
Point #	Elevation	Description
1051	586.50	SB 151
1052	585.97	SB 152
1053	586.22	SB 153
1054	585.61	SB 155
1055	585.41	SB 156
1056	586.36	SB 154
1059	595.85	SB 148
1060	597.27	SB 147

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Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

FIGURE 3a-1
PROBE DELINEATION MAP 2
SCOTCHMAN # 3123
MYRTLE BEACH, SC UST # 18699

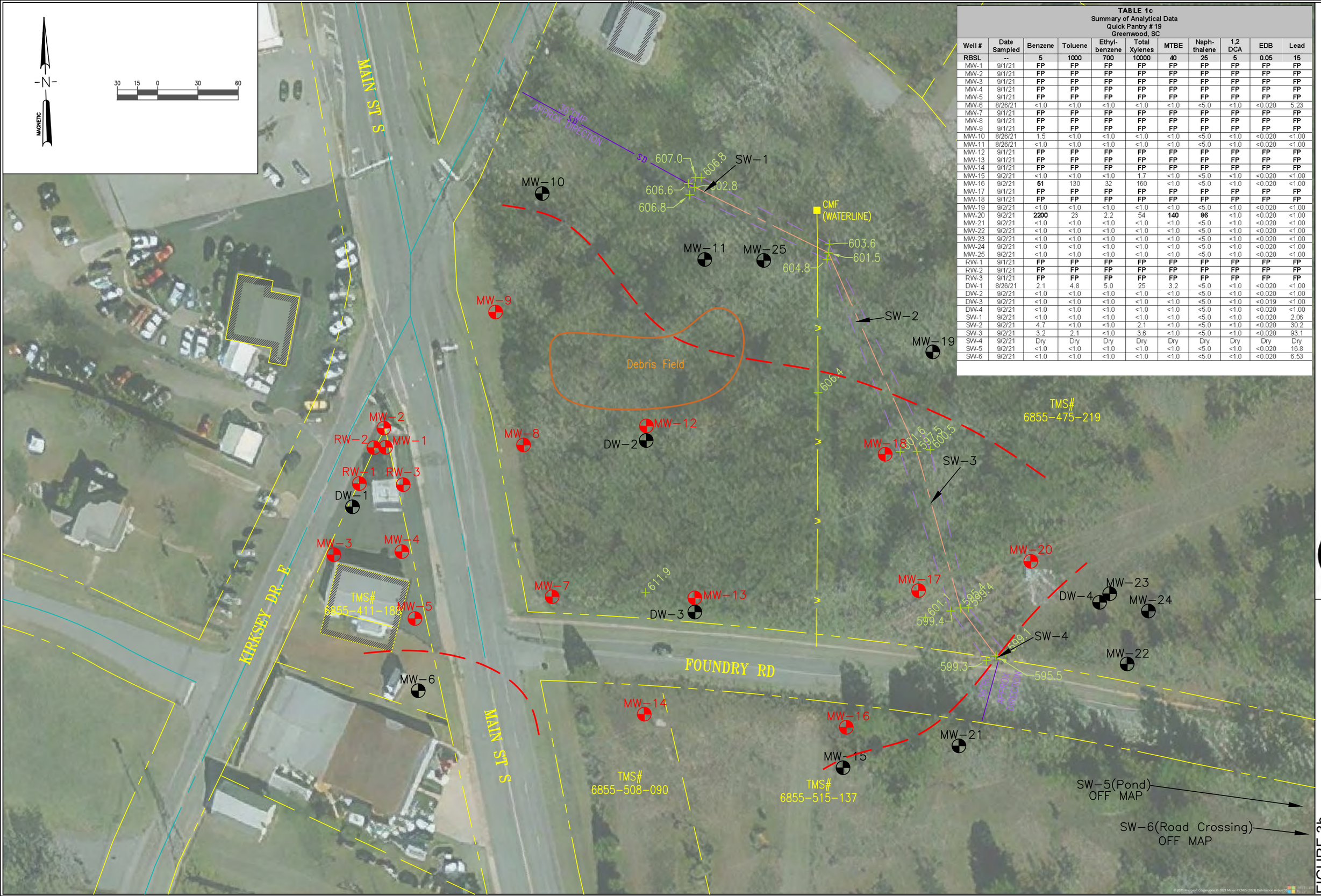

TABLE 1c
Summary of Analytical Data
Quick Pantry # 19
Greenwood, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	1,2 DCA	EDB	Lead
RBSL	--	5	1000	700	10000	40	25	5	0.05	15
MW-1	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-2	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-3	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-4	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-5	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-6	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	5.23
MW-7	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-8	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-9	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-10	8/26/21	1.5	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-11	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-12	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-13	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-14	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-15	9/2/21	<1.0	<1.0	<1.0	1.7	<1.0	<5.0	<1.0	<0.020	<1.00
MW-16	9/2/21	51	130	32	160	<1.0	<5.0	<1.0	<0.020	<1.00
MW-17	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-18	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-19	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-20	9/2/21	2200	23	2.2	54	140	86	<1.0	<0.020	<1.00
MW-21	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-22	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-23	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-24	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-25	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
RW-1	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
RW-2	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
RW-3	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
DW-1	8/26/21	2.1	4.8	5.0	25	3.2	<5.0	<1.0	<0.020	<1.00
DW-2	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
DW-3	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.019	<1.00
DW-4	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
SW-1	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	2.06
SW-2	9/2/21	4.7	<1.0	<1.0	2.1	<1.0	<5.0	<1.0	<0.020	30.2
SW-3	9/2/21	3.2	2.1	<1.0	3.6	<1.0	<5.0	<1.0	<0.020	93.1
SW-4	9/2/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
SW-5	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	16.8
SW-6	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	6.53

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Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

FIGURE 3b
COC MAP
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785

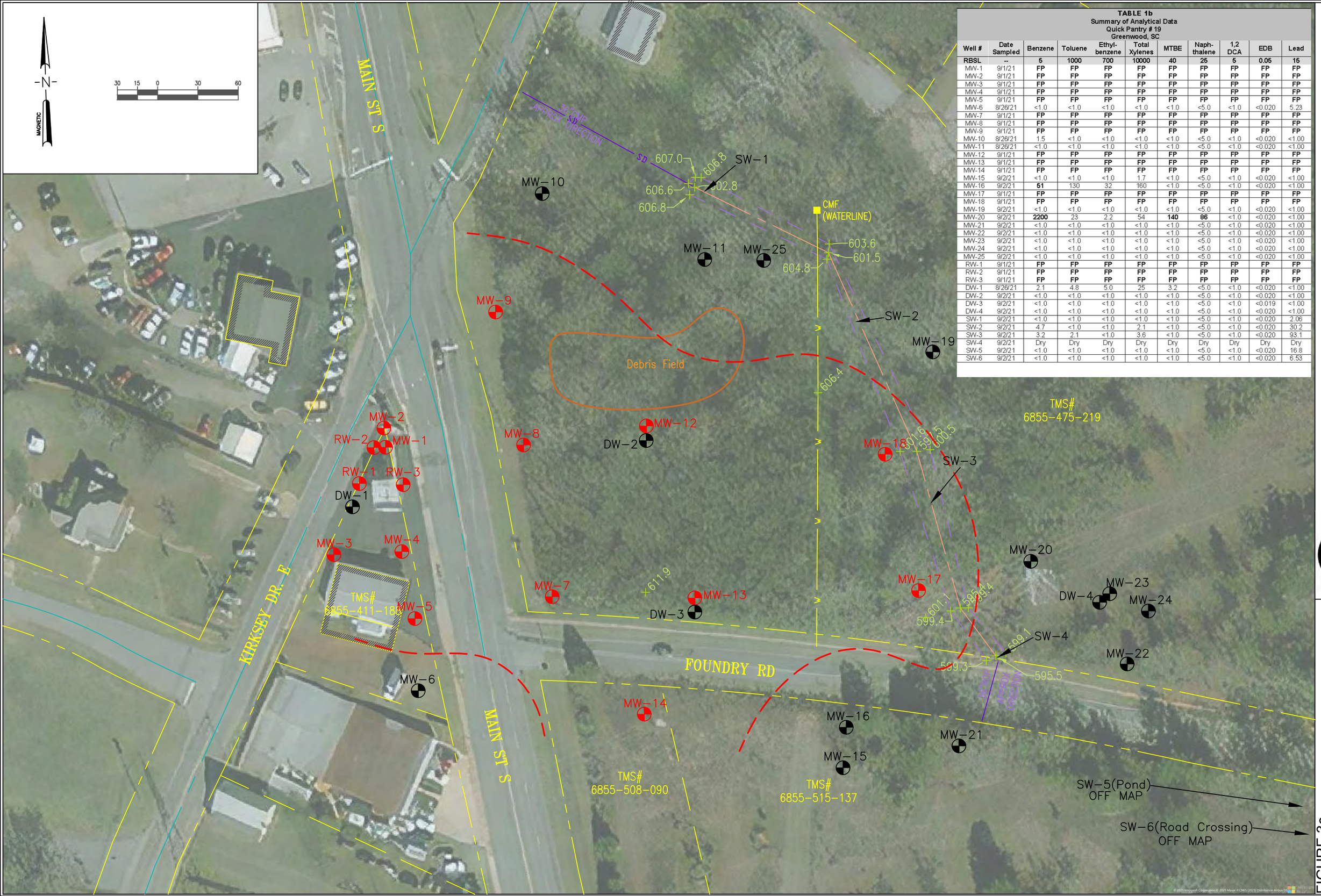


TABLE 1b
Summary of Analytical Data
Quick Pantry # 19
Greenwood, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	1,2 DCA	EDB	Lead
RBSL	--	5	1000	700	10000	40	25	5	0.05	15
MW-1	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-2	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-3	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-4	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-5	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-6	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	5.23
MW-7	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-8	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-9	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-10	8/26/21	1.5	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-11	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-12	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-13	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-14	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-15	9/2/21	<1.0	<1.0	<1.0	1.7	<1.0	<5.0	<1.0	<0.020	<1.00
MW-16	9/2/21	**51**	130	32	160	<1.0	<5.0	<1.0	<0.020	<1.00
MW-17	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-18	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-19	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-20	9/2/21	**2200**	23	2.2	54	**140**	**86**	<1.0	<0.020	<1.00
MW-21	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-22	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-23	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-24	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-25	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
RW-1	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
RW-2	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
RW-3	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
DW-1	8/26/21	2.1	4.8	5.0	25	3.2	<5.0	<1.0	<0.020	<1.00
DW-2	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
DW-3	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.019	<1.00
DW-4	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
SW-1	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	2.06
SW-2	9/2/21	4.7	<1.0	<1.0	2.1	<1.0	<5.0	<1.0	<0.020	30.2
SW-3	9/2/21	3.2	2.1	<1.0	3.6	<1.0	<5.0	<1.0	<0.020	93.1
SW-4	9/2/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
SW-5	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	16.8
SW-6	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	6.53

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

FIGURE 3c
FREE PRODUCT DELINEATION MAP
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785

TABLE 2
Groundwater Data (feet)
Quick Pantry # 19
Greenwood, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1*	9/1/21	623.56	X-28.5	17.35	18.02	FP
MW-2*	9/1/21	623.38	10-20	17.32	18.51	FP
MW-3*	9/1/21	625.10	10-20	18.51	18.56	FP
MW-4*	9/1/21	623.30	10-20	17.18	19.19	FP
MW-5*	9/1/21	622.12	10-20	15.38	17.92	FP
MW-6	9/1/21	622.84	10-20	--	14.49	608.35
MW-7*	9/1/21	614.92	8-18	11.59	11.87	FP
MW-8*	9/1/21	615.10	5-15	10.63	13.89	FP
MW-9*	9/1/21	615.58	7.5-17.5	11.32	11.36	FP
MW-10	9/1/21	608.68	2-12	--	4.08	604.60
MW-11	9/1/21	606.78	4-14	--	7.06	599.72
MW-12*	9/1/21	611.62	7-17	10.39	10.95	FP
MW-13*	9/1/21	610.45	5-15	8.08	11.22	FP
MW-14*	9/1/21	608.36	5-15	8.07	10.32	FP
MW-15	9/1/21	610.20	5-15	--	7.89	602.31
MW-16	9/1/21	605.95	5-15	--	7.78	598.17
MW-17*	9/1/21	601.53	3-13	3.94	3.99	FP
MW-18*	9/1/21	604.03	4-14	6.37	6.42	FP
MW-19	9/1/21	605.81	5-15	--	9.07	596.74
MW-20	9/1/21	601.51	3-13	--	5.41	596.10
MW-21	9/1/21	604.50	5-15	--	8.91	595.59
MW-22	9/1/21	600.57	5-15	--	8.81	591.76
MW-23	9/1/21	602.51	5-15	--	10.71	591.80
MW-24	9/1/21	602.73	5-15	--	11.05	591.68
MW-25	9/1/21	606.98	6-16	--	8.31	598.67
RW-1*	9/1/21	624.54	10-20	18.35	19.22	FP
RW-2*	9/1/21	623.44	10-20	17.27	18.12	FP
RW-3*	9/1/21	623.34	10-20	17.48	18.25	FP
DW-1*	9/1/21	624.84	40-45	--	18.87	605.97
DW-2*	9/1/21	611.79	35-40	--	9.46	602.33
DW-3*	9/1/21	610.33	35-40	--	8.69	601.64
DW-4*	9/1/21	602.27	20-25	--	10.47	591.80

* = Wells not used to construct Piezometric Map

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

FIGURE 4a
SHALLOW GROUNDWATER FLOW MAP
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785

TABLE 2
Groundwater Data (feet)
Quick Pantry # 19
Greenwood, SC

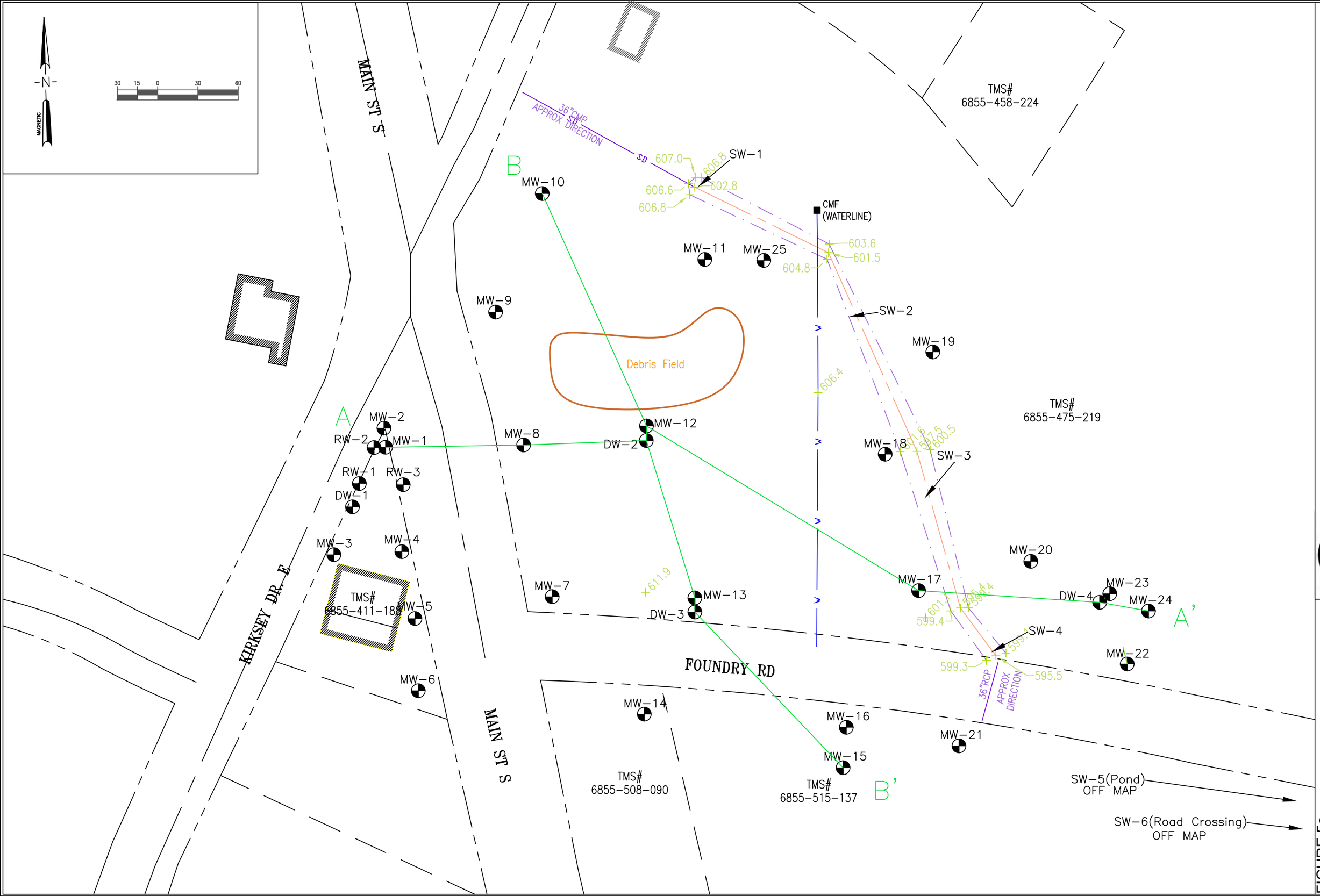
Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1*	9/1/21	623.56	X-28.5	17.35	18.02	FP
MW-2*	9/1/21	623.38	10-20	17.32	18.51	FP
MW-3*	9/1/21	625.10	10-20	18.51	18.56	FP
MW-4*	9/1/21	623.30	10-20	17.18	19.19	FP
MW-5*	9/1/21	622.12	10-20	15.38	17.92	FP
MW-6*	9/1/21	622.84	10-20	--	14.49	608.35
MW-7*	9/1/21	614.92	8-18	11.59	11.87	FP
MW-8*	9/1/21	615.10	5-15	10.63	13.89	FP
MW-9*	9/1/21	615.58	7.5-17.5	11.32	11.36	FP
MW-10*	9/1/21	608.68	2-12	--	4.08	604.60
MW-11*	9/1/21	606.78	4-14	--	7.06	599.72
MW-12*	9/1/21	611.62	7-17	10.39	10.95	FP
MW-13*	9/1/21	610.45	5-15	8.08	11.22	FP
MW-14*	9/1/21	608.36	5-15	8.07	10.32	FP
MW-15*	9/1/21	610.20	5-15	--	7.89	602.31
MW-16*	9/1/21	605.95	5-15	--	7.78	598.17
MW-17*	9/1/21	601.53	3-13	3.94	3.99	FP
MW-18*	9/1/21	604.03	4-14	6.37	6.42	FP
MW-19*	9/1/21	605.81	5-15	--	9.07	596.74
MW-20*	9/1/21	601.51	3-13	--	5.41	596.10
MW-21*	9/1/21	604.50	5-15	--	8.91	595.59
MW-22*	9/1/21	600.57	5-15	--	8.81	591.76
MW-23*	9/1/21	602.51	5-15	--	10.71	591.80
MW-24*	9/1/21	602.73	5-15	--	11.05	591.68
MW-25*	9/1/21	606.98	6-16	--	8.31	598.67
RW-1*	9/1/21	624.54	10-20	18.35	19.22	FP
RW-2*	9/1/21	623.44	10-20	17.27	18.12	FP
RW-3*	9/1/21	623.34	10-20	17.48	18.25	FP
DW-1	9/1/21	624.84	40-45	--	18.87	605.97
DW-2	9/1/21	611.79	35-40	--	9.46	602.33
DW-3	9/1/21	610.33	35-40	--	8.69	601.64
DW-4	9/1/21	602.27	20-25	--	10.47	591.80

* = Wells not used to construct Deep Groundwater Flow Map

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

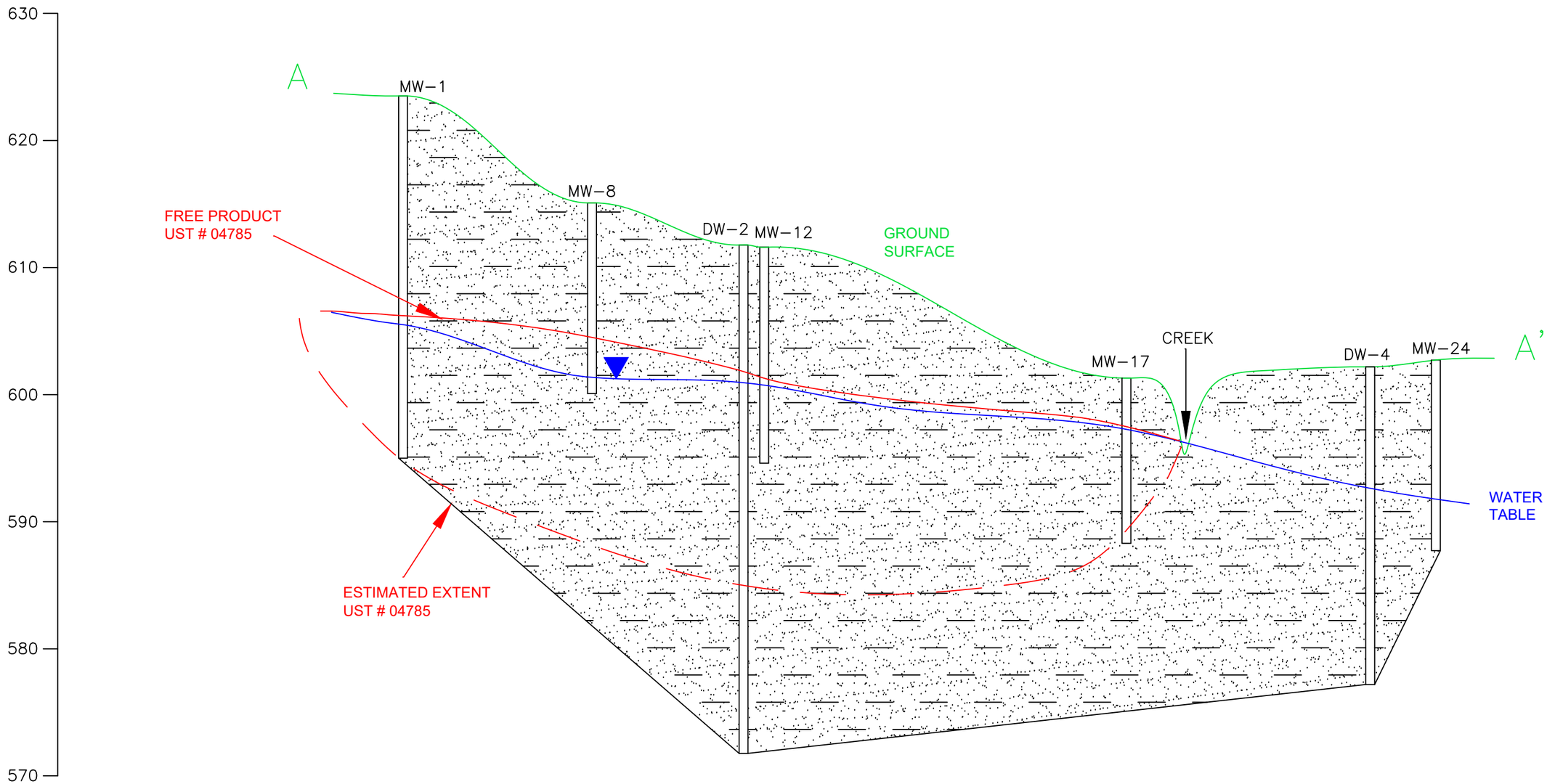
FIGURE 4b
DEEP GROUNDWATER FLOW MAP
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785



KLM Environmental, LLC

Phase I: Phase II: Underground Storage Tanks: Soil & Water Sampling: Well Installation

FIGURE 5a
CROSS SECTION MAP
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785

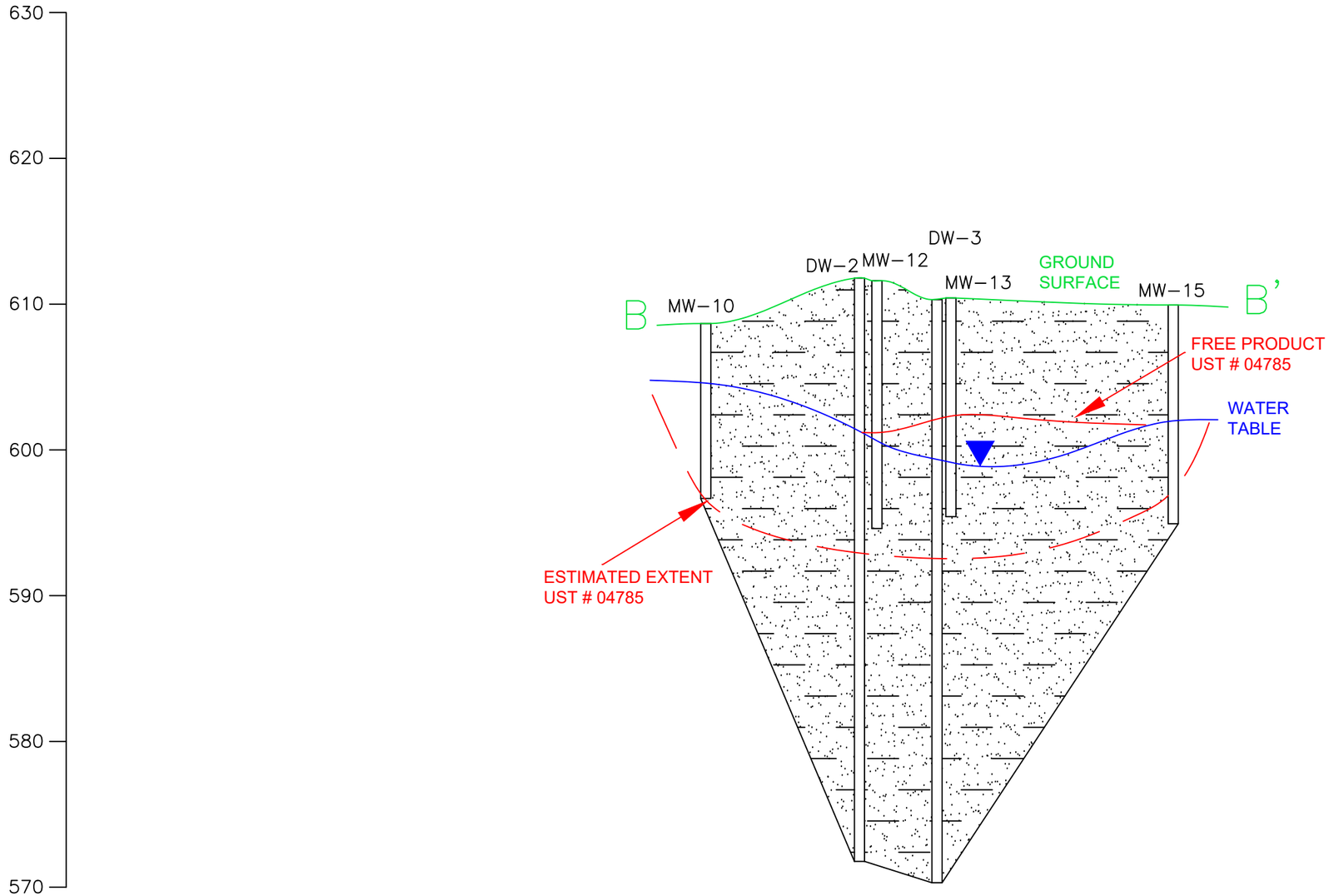


Sandy and Silty Clay
Loam Mixture.

KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 5b
A-A' CROSS SECTION MAP
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785



Sandy and Silty Clay Loam Mixture.

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks· Soil & Water Sampling· Well Installation

FIGURE 5c

B-B' CROSS SECTION MAP

QUICK PANTRY # 19

GREENWOOD, SC UST # 04785

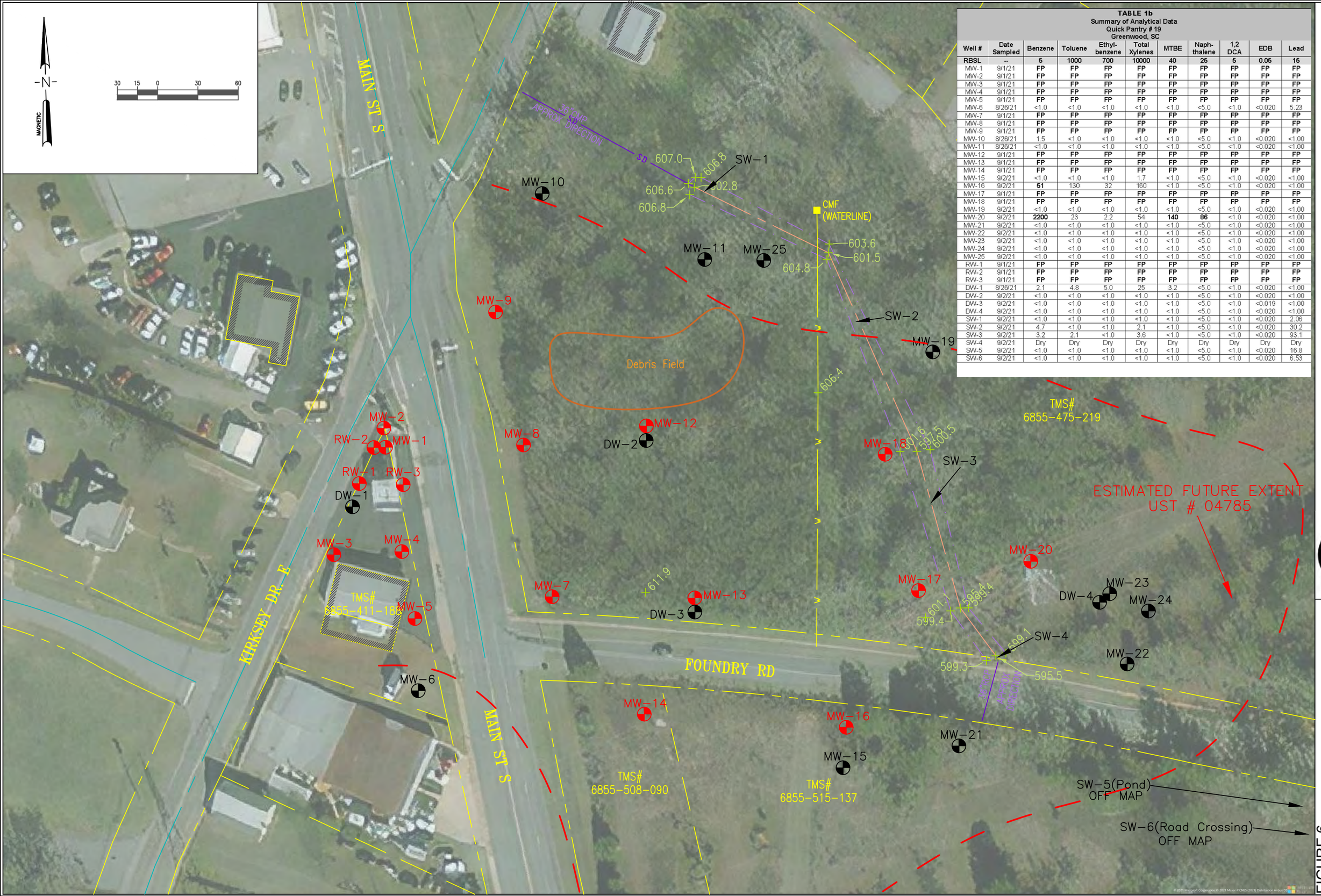


TABLE 1b
Summary of Analytical Data
Quick Pantry # 19
Greenwood, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	1,2 DCA	EDB	Lead
RBSL	--	5	1000	700	10000	40	25	5	0.05	15
MW-1	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-2	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-3	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-4	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-5	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-6	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	5.23
MW-7	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-8	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-9	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-10	8/26/21	1.5	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-11	8/26/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-12	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-13	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-14	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-15	9/2/21	<1.0	<1.0	<1.0	1.7	<1.0	<5.0	<1.0	<0.020	<1.00
MW-16	9/2/21	**51**	130	32	160	<1.0	<5.0	<1.0	<0.020	<1.00
MW-17	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-18	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-19	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-20	9/2/21	**2200**	23	2.2	54	**140**	**86**	<1.0	<0.020	<1.00
MW-21	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-22	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-23	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-24	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
MW-25	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
RW-1	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
RW-2	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
RW-3	9/1/21	FP	FP	FP	FP	FP	FP	FP	FP	FP
DW-1	8/26/21	2.1	4.8	5.0	25	3.2	<5.0	<1.0	<0.020	<1.00
DW-2	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
DW-3	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.019	<1.00
DW-4	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	<1.00
SW-1	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	2.06
SW-2	9/2/21	4.7	<1.0	<1.0	2.1	<1.0	<5.0	<1.0	<0.020	30.2
SW-3	9/2/21	3.2	2.1	<1.0	3.6	<1.0	<5.0	<1.0	<0.020	93.1
SW-4	9/2/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
SW-5	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	16.8
SW-6	9/2/21	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.020	6.53

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

FIGURE 6
FUTURE MIGRATION MAP
QUICK PANTRY # 19
GREENWOOD, SC UST # 04785

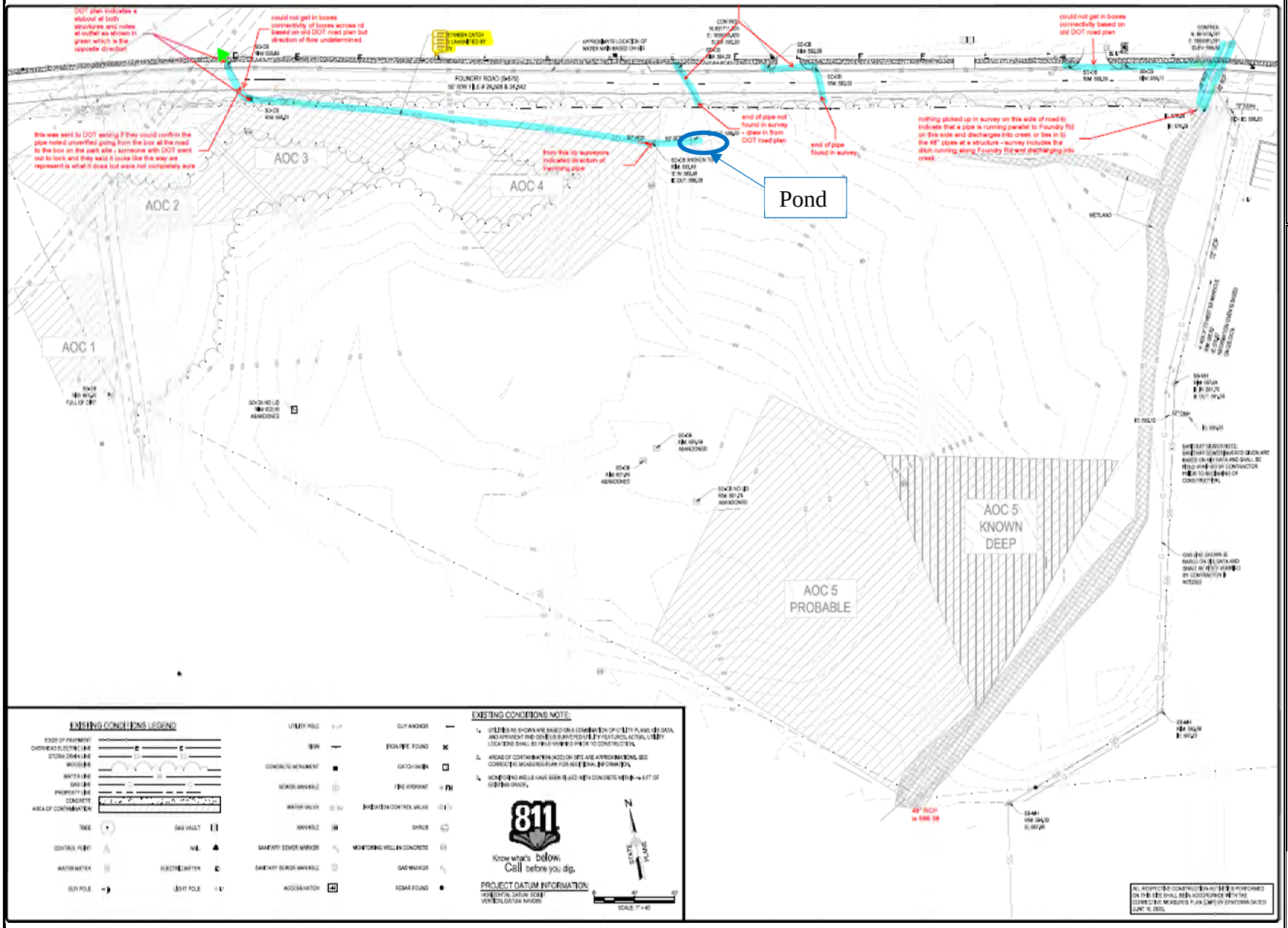
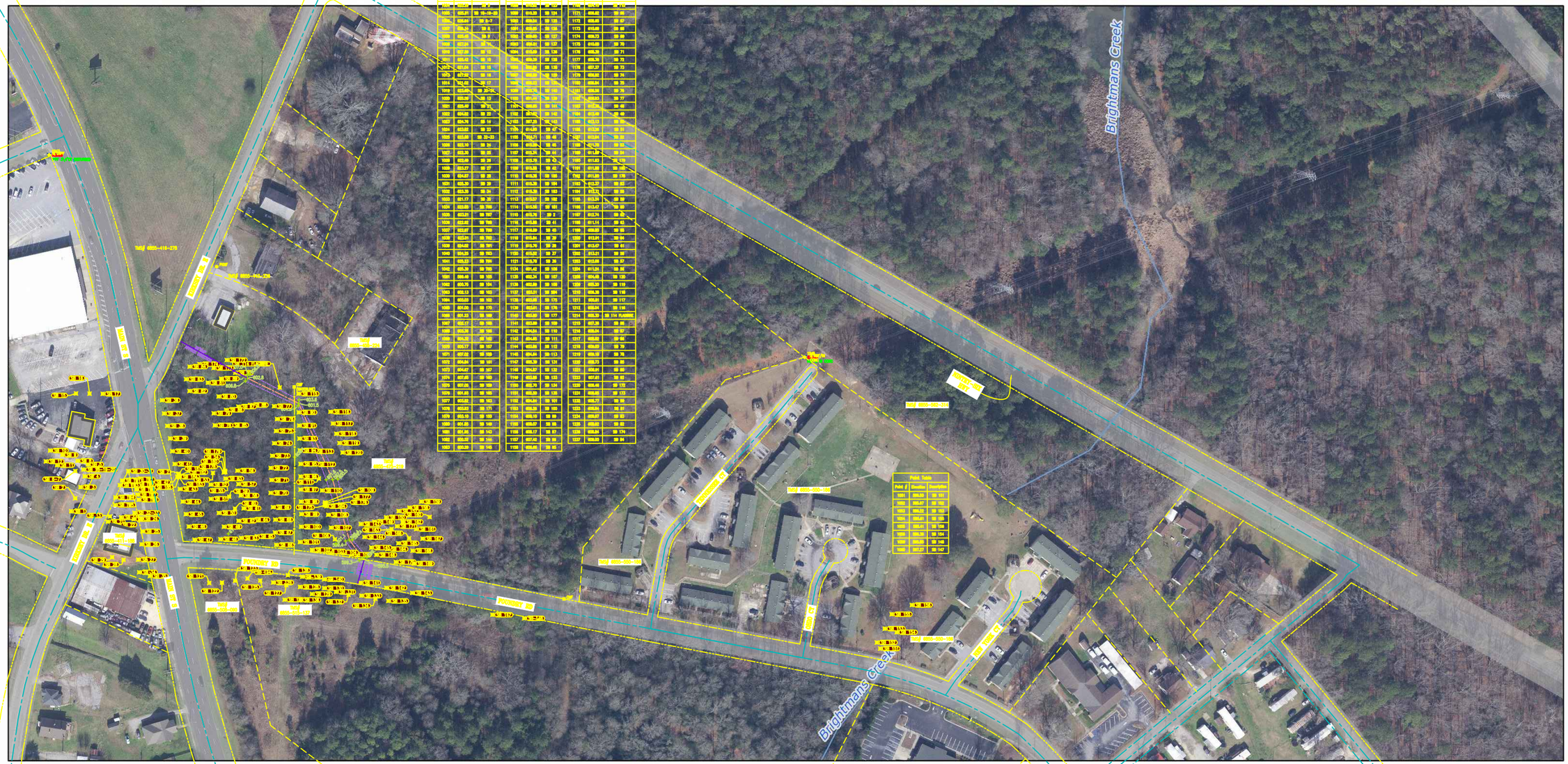


Figure 7
Quick Pantry # 19
Greenwood, SC
UST # 04785

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

Greenwood County, SC



July 14, 2021

1:2,257

Greenwood County

APPENDIX B

Laboratory Data / Sampling Sheets

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 23, 2021

Mark Keller
KLM Environmental, LLC

118 Springhall Dr Ste E
Goose Creek SC 29445

RE: Quick Pantry # 19

Dear Mark Keller: Order No: 2108991

Analytical Environmental Services, Inc. received 12 samples on 8/10/2021 9:36:00 AM for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
AES' certifications are as follows:
-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

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

Sincerely,

Eben D. Buchanan, Jr.

Eben Buchanan

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: 2108991
Page ___ of ___

COMPANY: KLM Environmental LLC

ADDRESS: PO Box 2704, Goose Creek, SC 29445

PHONE:

EMAIL: m Keller 131 @ Comcast.net

SAMPLED BY: Graham Robinson

SIGNATURE: [signature]

ANALYSIS REQUESTED: 8260 BTEX/MN+N; 8270 PAHs; TOC

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	8260 BTEX/MN+N	8270 PAHs	TOC	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW10	8/9/21	0835	X		SO	X	X				
2	MW11		0850									
3	MW25		0900									
4	MW19		0915						X			
5	MW17		0925									
6	MW18		0940									
7	MW22		1105									
8	MW21		1120									
9	MW14		1130									
10	MW~~10~~15	8/9/21	1145	X		SO	X	X				
11	Field Blank -1	8/9/21	1205	X		W	X					
12	Trip Blank	8/9/21				W	X					
13												
14												

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	8-9-21 1600	1. Laynmi	8/10/21 9:36
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Quick Pantry # 19
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: Mark Keller
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request in Business Days
☐ Standard ☐ 4-Day Rush*
☐ 3-Day Rush* ☐ 2-Day Rush*
☐ Next Day Rush* ☐ Other _____
☐ Same-Day Rush*(auth req.)
*Surcharges apply for Rush TAT

REGULATORY PROGRAM (if any):

DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

3.18.21_COC

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST=Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NaOH = SH O = Other (specify) NA = None

White Copy - Original Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 23-Aug-21

Client: KLM Environmental, LLC
Project: Quick Pantry # 19
Lab ID: 2108991

Case Narrative

Sample Receiving Nonconformance:

For sample 2108991-005A, one of the two sodium bisulfate vials for sample "MW17" was received broken.

Analytical Environmental Services, Inc

Date: 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW10
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 8:35:00 AM
Lab ID:	2108991-001	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5035)								
Benzene	BRL	0.0041		mg/Kg-dry	320613	1	08/12/2021 20:46	RC
Toluene	BRL	0.0041		mg/Kg-dry	320613	1	08/12/2021 20:46	RC
Ethylbenzene	BRL	0.0041		mg/Kg-dry	320613	1	08/12/2021 20:46	RC
Xylenes, Total	BRL	0.0041		mg/Kg-dry	320613	1	08/12/2021 20:46	RC
Methyl tert-butyl ether	BRL	0.0041		mg/Kg-dry	320613	1	08/12/2021 20:46	RC
Naphthalene	BRL	0.0041		mg/Kg-dry	320613	1	08/12/2021 20:46	RC
Surr: 4-Bromofluorobenzene	94.2	65-124		%REC	320613	1	08/12/2021 20:46	RC
Surr: Dibromofluoromethane	109	74.8-123		%REC	320613	1	08/12/2021 20:46	RC
Surr: Toluene-d8	96	69.2-128		%REC	320613	1	08/12/2021 20:46	RC
SIM Polynuclear Aromatic Hydrocarbons SW8270E (SW3550C)								
1-Methylnaphthalene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
2-Methylnaphthalene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Acenaphthene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Acenaphthylene	BRL	0.039		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Anthracene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Benz(a)anthracene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Benzo(a)pyrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Benzo(b)fluoranthene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Benzo(g,h,i)perylene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Benzo(k)fluoranthene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Chrysene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Dibenz(a,h)anthracene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Fluoranthene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Fluorene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Indeno(1,2,3-cd)pyrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Naphthalene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Phenanthrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Pyrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:30	YH
Surr: 4-Terphenyl-d14	98.4	55.4-128		%REC	320461	1	08/12/2021 14:30	YH
PERCENT MOISTURE D2216								
Percent Moisture	14.5	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW11
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 8:50:00 AM
Lab ID:	2108991-002	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5035)								
Benzene	BRL	0.0048		mg/Kg-dry	320613	1	08/12/2021 21:10	RC
Toluene	BRL	0.0048		mg/Kg-dry	320613	1	08/12/2021 21:10	RC
Ethylbenzene	BRL	0.0048		mg/Kg-dry	320613	1	08/12/2021 21:10	RC
Xylenes, Total	BRL	0.0048		mg/Kg-dry	320613	1	08/12/2021 21:10	RC
Methyl tert-butyl ether	BRL	0.0048		mg/Kg-dry	320613	1	08/12/2021 21:10	RC
Naphthalene	BRL	0.0048		mg/Kg-dry	320613	1	08/12/2021 21:10	RC
Surr: 4-Bromofluorobenzene	95.4	65-124		%REC	320613	1	08/12/2021 21:10	RC
Surr: Dibromofluoromethane	107	74.8-123		%REC	320613	1	08/12/2021 21:10	RC
Surr: Toluene-d8	95.7	69.2-128		%REC	320613	1	08/12/2021 21:10	RC
SIM Polynuclear Aromatic Hydrocarbons SW8270E (SW3550C)								
1-Methylnaphthalene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
2-Methylnaphthalene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Acenaphthene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Acenaphthylene	BRL	0.039		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Anthracene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Benz(a)anthracene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Benzo(a)pyrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Benzo(b)fluoranthene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Benzo(g,h,i)perylene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Benzo(k)fluoranthene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Chrysene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Dibenz(a,h)anthracene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Fluoranthene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Fluorene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Indeno(1,2,3-cd)pyrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Naphthalene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Phenanthrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Pyrene	0.0023	0.0020		mg/Kg-dry	320461	1	08/12/2021 14:56	YH
Surr: 4-Terphenyl-d14	94.9	55.4-128		%REC	320461	1	08/12/2021 14:56	YH
PERCENT MOISTURE D2216								
Percent Moisture	15.5	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW25
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 9:00:00 AM
Lab ID:	2108991-003	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5035)								
Benzene	BRL	0.0066		mg/Kg-dry	320613	1	08/12/2021 21:35	RC
Toluene	BRL	0.0066		mg/Kg-dry	320613	1	08/12/2021 21:35	RC
Ethylbenzene	BRL	0.0066		mg/Kg-dry	320613	1	08/12/2021 21:35	RC
Xylenes, Total	BRL	0.0066		mg/Kg-dry	320613	1	08/12/2021 21:35	RC
Methyl tert-butyl ether	BRL	0.0066		mg/Kg-dry	320613	1	08/12/2021 21:35	RC
Naphthalene	BRL	0.0066		mg/Kg-dry	320613	1	08/12/2021 21:35	RC
Surr: 4-Bromofluorobenzene	95.3	65-124		%REC	320613	1	08/12/2021 21:35	RC
Surr: Dibromofluoromethane	108	74.8-123		%REC	320613	1	08/12/2021 21:35	RC
Surr: Toluene-d8	94.9	69.2-128		%REC	320613	1	08/12/2021 21:35	RC
SIM Polynuclear Aromatic Hydrocarbons SW8270E (SW3550C)								
1-Methylnaphthalene	BRL	0.023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
2-Methylnaphthalene	BRL	0.023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Acenaphthene	BRL	0.023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Acenaphthylene	BRL	0.044		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Anthracene	0.0033	0.0023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Benz(a)anthracene	0.0082	0.0023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Benzo(a)pyrene	0.013	0.0023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Benzo(b)fluoranthene	0.017	0.0044		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Benzo(g,h,i)perylene	0.022	0.0044		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Benzo(k)fluoranthene	0.0065	0.0023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Chrysene	0.011	0.0023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Dibenz(a,h)anthracene	BRL	0.0044		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Fluoranthene	0.019	0.0044		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Fluorene	BRL	0.0044		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Indeno(1,2,3-cd)pyrene	0.012	0.0023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Naphthalene	BRL	0.023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Phenanthrene	0.012	0.0023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Pyrene	0.014	0.0023		mg/Kg-dry	320461	1	08/12/2021 15:21	YH
Surr: 4-Terphenyl-d14	89.8	55.4-128		%REC	320461	1	08/12/2021 15:21	YH
PERCENT MOISTURE D2216								
Percent Moisture	24.8	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW19
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 9:15:00 AM
Lab ID:	2108991-004	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D				**(SW5035)**				
Benzene	BRL	0.0028		mg/Kg-dry	320613	1	08/12/2021 22:00	RC
Toluene	BRL	0.0028		mg/Kg-dry	320613	1	08/12/2021 22:00	RC
Ethylbenzene	BRL	0.0028		mg/Kg-dry	320613	1	08/12/2021 22:00	RC
Xylenes, Total	BRL	0.0028		mg/Kg-dry	320613	1	08/12/2021 22:00	RC
Methyl tert-butyl ether	BRL	0.0028		mg/Kg-dry	320613	1	08/12/2021 22:00	RC
Naphthalene	BRL	0.0028		mg/Kg-dry	320613	1	08/12/2021 22:00	RC
Surr: 4-Bromofluorobenzene	95.1	65-124		%REC	320613	1	08/12/2021 22:00	RC
Surr: Dibromofluoromethane	106	74.8-123		%REC	320613	1	08/12/2021 22:00	RC
Surr: Toluene-d8	93.4	69.2-128		%REC	320613	1	08/12/2021 22:00	RC
Total Organic Carbon in Soil SW9060				**(SW9060 Modified)**				
Total Organic Carbon (TOC)	2120	998		mg/Kg-dry	321018	1	08/20/2021 10:53	GK
SIM Polynuclear Aromatic Hydrocarbons SW8270E				**(SW3550C)**				
1-Methylnaphthalene	BRL	0.019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
2-Methylnaphthalene	BRL	0.019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Acenaphthene	BRL	0.019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Acenaphthylene	BRL	0.038		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Anthracene	BRL	0.0019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Benz(a)anthracene	BRL	0.0019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Benzo(a)pyrene	0.0035	0.0019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Benzo(b)fluoranthene	0.0045	0.0038		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Benzo(g,h,i)perylene	0.0041	0.0038		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Benzo(k)fluoranthene	BRL	0.0019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Chrysene	0.0023	0.0019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Dibenz(a,h)anthracene	BRL	0.0038		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Fluoranthene	BRL	0.0038		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Fluorene	BRL	0.0038		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Indeno(1,2,3-cd)pyrene	0.0027	0.0019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Naphthalene	BRL	0.019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Phenanthrene	0.0021	0.0019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Pyrene	0.0031	0.0019		mg/Kg-dry	320461	1	08/12/2021 15:46	YH
Surr: 4-Terphenyl-d14	96.1	55.4-128		%REC	320461	1	08/12/2021 15:46	YH
PERCENT MOISTURE D2216								
Percent Moisture	12.5	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW17
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 9:25:00 AM
Lab ID:	2108991-005	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5035)								
Benzene	0.033	0.0032		mg/Kg-dry	320613	1	08/12/2021 22:27	RC
Toluene	0.18	0.14		mg/Kg-dry	320694	50	08/13/2021 23:57	AV
Ethylbenzene	0.030	0.0032		mg/Kg-dry	320613	1	08/12/2021 22:27	RC
Xylenes, Total	0.17	0.0032		mg/Kg-dry	320613	1	08/12/2021 22:27	RC
Methyl tert-butyl ether	BRL	0.0032		mg/Kg-dry	320613	1	08/12/2021 22:27	RC
Naphthalene	0.0040	0.0032		mg/Kg-dry	320613	1	08/12/2021 22:27	RC
Surr: 4-Bromofluorobenzene	99.4	65-124		%REC	320613	1	08/12/2021 22:27	RC
Surr: 4-Bromofluorobenzene	103	65-124		%REC	320694	50	08/13/2021 23:57	AV
Surr: Dibromofluoromethane	103	74.8-123		%REC	320613	1	08/12/2021 22:27	RC
Surr: Dibromofluoromethane	102	74.8-123		%REC	320694	50	08/13/2021 23:57	AV
Surr: Toluene-d8	95.9	69.2-128		%REC	320613	1	08/12/2021 22:27	RC
Surr: Toluene-d8	99.6	69.2-128		%REC	320694	50	08/13/2021 23:57	AV
SIM Polynuclear Aromatic Hydrocarbons SW8270E (SW3550C)								
1-Methylnaphthalene	BRL	0.022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
2-Methylnaphthalene	BRL	0.022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Acenaphthene	BRL	0.022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Acenaphthylene	BRL	0.042		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Anthracene	BRL	0.0022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Benz(a)anthracene	BRL	0.0022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Benzo(a)pyrene	BRL	0.0022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Benzo(b)fluoranthene	BRL	0.0042		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Benzo(g,h,i)perylene	BRL	0.0042		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Benzo(k)fluoranthene	BRL	0.0022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Chrysene	BRL	0.0022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Dibenz(a,h)anthracene	BRL	0.0042		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Fluoranthene	BRL	0.0042		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Fluorene	BRL	0.0042		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Indeno(1,2,3-cd)pyrene	BRL	0.0022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Naphthalene	BRL	0.022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Phenanthrene	BRL	0.0022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Pyrene	BRL	0.0022		mg/Kg-dry	320461	1	08/16/2021 12:41	YH
Surr: 4-Terphenyl-d14	127	55.4-128		%REC	320461	1	08/16/2021 12:41	YH
PERCENT MOISTURE D2216								
Percent Moisture	21.6	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW18
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 9:40:00 AM
Lab ID:	2108991-006	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D				**(SW5035)**				
Benzene	0.46	0.32		mg/Kg-dry	320694	100	08/14/2021 01:50	AV
Toluene	7.5	1.6		mg/Kg-dry	320694	500	08/13/2021 23:12	AV
Ethylbenzene	2.0	1.6		mg/Kg-dry	320694	500	08/13/2021 23:12	AV
Xylenes, Total	11	1.6		mg/Kg-dry	320694	500	08/13/2021 23:12	AV
Methyl tert-butyl ether	BRL	0.0038		mg/Kg-dry	320613	1	08/12/2021 22:55	RC
Naphthalene	0.69	0.32		mg/Kg-dry	320694	100	08/14/2021 01:50	AV
Surr: 4-Bromofluorobenzene	123	65-124		%REC	320613	1	08/12/2021 22:55	RC
Surr: 4-Bromofluorobenzene	106	65-124		%REC	320694	500	08/13/2021 23:12	AV
Surr: 4-Bromofluorobenzene	105	65-124		%REC	320694	100	08/14/2021 01:50	AV
Surr: Dibromofluoromethane	119	74.8-123		%REC	320613	1	08/12/2021 22:55	RC
Surr: Dibromofluoromethane	109	74.8-123		%REC	320694	500	08/13/2021 23:12	AV
Surr: Dibromofluoromethane	106	74.8-123		%REC	320694	100	08/14/2021 01:50	AV
Surr: Toluene-d8	166	69.2-128	S	%REC	320613	1	08/12/2021 22:55	RC
Surr: Toluene-d8	100	69.2-128		%REC	320694	500	08/13/2021 23:12	AV
Surr: Toluene-d8	98.4	69.2-128		%REC	320694	100	08/14/2021 01:50	AV
SIM Polynuclear Aromatic Hydrocarbons SW8270E				**(SW3550C)**				
1-Methylnaphthalene	1.1	0.20		mg/Kg-dry	320461	100	08/13/2021 12:47	YH
2-Methylnaphthalene	2.0	2.0		mg/Kg-dry	320461	100	08/13/2021 12:47	YH
Acenaphthene	BRL	0.020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Acenaphthylene	BRL	0.039		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Anthracene	0.0060	0.0020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Benz(a)anthracene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Benzo(a)pyrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Benzo(b)fluoranthene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Benzo(g,h,i)perylene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Benzo(k)fluoranthene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Chrysene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Dibenz(a,h)anthracene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Fluoranthene	BRL	0.0039		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Fluorene	0.011	0.0039		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Indeno(1,2,3-cd)pyrene	BRL	0.0020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Naphthalene	2.6	2.0		mg/Kg-dry	320461	100	08/13/2021 12:47	YH
Phenanthrene	0.013	0.0020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Pyrene	0.0037	0.0020		mg/Kg-dry	320461	1	08/12/2021 16:37	YH
Surr: 4-Terphenyl-d14	90.5	55.4-128		%REC	320461	1	08/12/2021 16:37	YH
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW22
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 11:05:00 AM
Lab ID:	2108991-007	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5035)								
Benzene	BRL	0.0033		mg/Kg-dry	320613	1	08/12/2021 23:24	RC
Toluene	0.014	0.0033		mg/Kg-dry	320613	1	08/13/2021 13:21	RC
Ethylbenzene	BRL	0.0033		mg/Kg-dry	320613	1	08/13/2021 13:21	RC
Xylenes, Total	0.014	0.0033		mg/Kg-dry	320613	1	08/13/2021 13:21	RC
Methyl tert-butyl ether	BRL	0.0033		mg/Kg-dry	320613	1	08/12/2021 23:24	RC
Naphthalene	BRL	0.0033		mg/Kg-dry	320613	1	08/13/2021 13:21	RC
Surr: 4-Bromofluorobenzene	97.4	65-124		%REC	320613	1	08/12/2021 23:24	RC
Surr: 4-Bromofluorobenzene	99.8	65-124		%REC	320613	1	08/13/2021 13:21	RC
Surr: Dibromofluoromethane	102	74.8-123		%REC	320613	1	08/13/2021 13:21	RC
Surr: Dibromofluoromethane	103	74.8-123		%REC	320613	1	08/12/2021 23:24	RC
Surr: Toluene-d8	95	69.2-128		%REC	320613	1	08/12/2021 23:24	RC
Surr: Toluene-d8	104	69.2-128		%REC	320613	1	08/13/2021 13:21	RC
SIM Polynuclear Aromatic Hydrocarbons SW8270E (SW3550C)								
1-Methylnaphthalene	BRL	0.021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
2-Methylnaphthalene	BRL	0.021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Acenaphthene	BRL	0.021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Acenaphthylene	BRL	0.040		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Anthracene	BRL	0.0021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Benz(a)anthracene	BRL	0.0021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Benzo(a)pyrene	BRL	0.0021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Benzo(b)fluoranthene	BRL	0.0040		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Benzo(g,h,i)perylene	BRL	0.0040		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Benzo(k)fluoranthene	BRL	0.0021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Chrysene	BRL	0.0021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Dibenz(a,h)anthracene	BRL	0.0040		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Fluoranthene	BRL	0.0040		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Fluorene	BRL	0.0040		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Indeno(1,2,3-cd)pyrene	BRL	0.0021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Naphthalene	BRL	0.021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Phenanthrene	BRL	0.0021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Pyrene	BRL	0.0021		mg/Kg-dry	320461	1	08/12/2021 13:13	YH
Surr: 4-Terphenyl-d14	91.3	55.4-128		%REC	320461	1	08/12/2021 13:13	YH
PERCENT MOISTURE D2216								
Percent Moisture	17.1	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW21
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 11:20:00 AM
Lab ID:	2108991-008	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5035)								
Benzene	0.0085	0.0050		mg/Kg-dry	320613	1	08/12/2021 23:56	RC
Toluene	0.075	0.0050		mg/Kg-dry	320613	1	08/12/2021 23:56	RC
Ethylbenzene	0.016	0.0050		mg/Kg-dry	320613	1	08/12/2021 23:56	RC
Xylenes, Total	0.091	0.0050		mg/Kg-dry	320613	1	08/12/2021 23:56	RC
Methyl tert-butyl ether	BRL	0.0050		mg/Kg-dry	320613	1	08/12/2021 23:56	RC
Naphthalene	BRL	0.0050		mg/Kg-dry	320613	1	08/12/2021 23:56	RC
Surr: 4-Bromofluorobenzene	100	65-124		%REC	320613	1	08/12/2021 23:56	RC
Surr: Dibromofluoromethane	104	74.8-123		%REC	320613	1	08/12/2021 23:56	RC
Surr: Toluene-d8	94.4	69.2-128		%REC	320613	1	08/12/2021 23:56	RC
SIM Polynuclear Aromatic Hydrocarbons SW8270E (SW3550C)								
1-Methylnaphthalene	BRL	0.027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
2-Methylnaphthalene	BRL	0.027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Acenaphthene	BRL	0.027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Acenaphthylene	BRL	0.052		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Anthracene	0.0033	0.0027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Benz(a)anthracene	0.0085	0.0027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Benzo(a)pyrene	0.0100	0.0027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Benzo(b)fluoranthene	0.013	0.0052		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Benzo(g,h,i)perylene	0.0073	0.0052		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Benzo(k)fluoranthene	0.0063	0.0027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Chrysene	0.010	0.0027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Dibenz(a,h)anthracene	BRL	0.0052		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Fluoranthene	0.022	0.0052		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Fluorene	BRL	0.0052		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Indeno(1,2,3-cd)pyrene	0.0057	0.0027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Naphthalene	BRL	0.027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Phenanthrene	0.012	0.0027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Pyrene	0.015	0.0027		mg/Kg-dry	320461	1	08/12/2021 17:03	YH
Surr: 4-Terphenyl-d14	74.1	55.4-128		%REC	320461	1	08/12/2021 17:03	YH
PERCENT MOISTURE D2216								
Percent Moisture	36.6	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW14
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 11:30:00 AM
Lab ID:	2108991-009	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5035)								
Benzene	0.0059	0.0038		mg/Kg-dry	320613	1	08/13/2021 00:26	RC
Toluene	0.040	0.0038		mg/Kg-dry	320613	1	08/13/2021 00:26	RC
Ethylbenzene	0.011	0.0038		mg/Kg-dry	320613	1	08/13/2021 00:26	RC
Xylenes, Total	0.065	0.0038		mg/Kg-dry	320613	1	08/13/2021 00:26	RC
Methyl tert-butyl ether	BRL	0.0038		mg/Kg-dry	320613	1	08/13/2021 00:26	RC
Naphthalene	0.013	0.0038		mg/Kg-dry	320613	1	08/13/2021 00:26	RC
Surr: 4-Bromofluorobenzene	102	65-124		%REC	320613	1	08/13/2021 00:26	RC
Surr: Dibromofluoromethane	102	74.8-123		%REC	320613	1	08/13/2021 00:26	RC
Surr: Toluene-d8	95.9	69.2-128		%REC	320613	1	08/13/2021 00:26	RC
SIM Polynuclear Aromatic Hydrocarbons SW8270E (SW3550C)								
1-Methylnaphthalene	BRL	0.022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
2-Methylnaphthalene	BRL	0.022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Acenaphthene	BRL	0.022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Acenaphthylene	BRL	0.043		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Anthracene	BRL	0.0022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Benz(a)anthracene	BRL	0.0022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Benzo(a)pyrene	BRL	0.0022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Benzo(b)fluoranthene	BRL	0.0043		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Benzo(g,h,i)perylene	BRL	0.0043		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Benzo(k)fluoranthene	BRL	0.0022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Chrysene	BRL	0.0022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Dibenz(a,h)anthracene	BRL	0.0043		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Fluoranthene	BRL	0.0043		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Fluorene	BRL	0.0043		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Indeno(1,2,3-cd)pyrene	BRL	0.0022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Naphthalene	BRL	0.022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Phenanthrene	BRL	0.0022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Pyrene	BRL	0.0022		mg/Kg-dry	320461	1	08/12/2021 17:29	YH
Surr: 4-Terphenyl-d14	93.6	55.4-128		%REC	320461	1	08/12/2021 17:29	YH
PERCENT MOISTURE D2216								
Percent Moisture	23.9	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	MW15
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 11:45:00 AM
Lab ID:	2108991-010	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260D (SW5035)								
Benzene	BRL	0.0043		mg/Kg-dry	320613	1	08/13/2021 00:56	RC
Toluene	0.035	0.0043		mg/Kg-dry	320613	1	08/13/2021 00:56	RC
Ethylbenzene	0.0079	0.0043		mg/Kg-dry	320613	1	08/13/2021 00:56	RC
Xylenes, Total	0.046	0.0043		mg/Kg-dry	320613	1	08/13/2021 00:56	RC
Methyl tert-butyl ether	BRL	0.0043		mg/Kg-dry	320613	1	08/13/2021 00:56	RC
Naphthalene	BRL	0.0043		mg/Kg-dry	320613	1	08/13/2021 00:56	RC
Surr: 4-Bromofluorobenzene	97.9	65-124		%REC	320613	1	08/13/2021 00:56	RC
Surr: Dibromofluoromethane	101	74.8-123		%REC	320613	1	08/13/2021 00:56	RC
Surr: Toluene-d8	93.4	69.2-128		%REC	320613	1	08/13/2021 00:56	RC
SIM Polynuclear Aromatic Hydrocarbons SW8270E (SW3550C)								
1-Methylnaphthalene	BRL	0.024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
2-Methylnaphthalene	BRL	0.024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Acenaphthene	BRL	0.024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Acenaphthylene	BRL	0.046		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Anthracene	0.0045	0.0024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Benz(a)anthracene	0.015	0.0024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Benzo(a)pyrene	0.016	0.0024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Benzo(b)fluoranthene	0.025	0.0046		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Benzo(g,h,i)perylene	0.015	0.0046		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Benzo(k)fluoranthene	0.011	0.0024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Chrysene	0.018	0.0024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Dibenz(a,h)anthracene	BRL	0.0046		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Fluoranthene	0.035	0.0046		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Fluorene	BRL	0.0046		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Indeno(1,2,3-cd)pyrene	0.012	0.0024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Naphthalene	BRL	0.024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Phenanthrene	0.019	0.0024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Pyrene	0.025	0.0024		mg/Kg-dry	320461	1	08/12/2021 17:54	YH
Surr: 4-Terphenyl-d14	82.2	55.4-128		%REC	320461	1	08/12/2021 17:54	YH
PERCENT MOISTURE D2216								
Percent Moisture	28.0	0		wt%	R462082	1	08/12/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	FIELD BLANK-1
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021 12:05:00 PM
Lab ID:	2108991-011	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	320593	1	08/11/2021 22:23	CM
Toluene	BRL	1.0		ug/L	320593	1	08/11/2021 22:23	CM
Ethylbenzene	BRL	1.0		ug/L	320593	1	08/11/2021 22:23	CM
Xylenes, Total	BRL	1.0		ug/L	320593	1	08/11/2021 22:23	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	320593	1	08/11/2021 22:23	CM
Naphthalene	BRL	5.0		ug/L	320593	1	08/11/2021 22:23	CM
Surr: 4-Bromofluorobenzene	90.8	70-130		%REC	320593	1	08/11/2021 22:23	CM
Surr: Dibromofluoromethane	94.9	70-130		%REC	320593	1	08/11/2021 22:23	CM
Surr: Toluene-d8	94.2	70-130		%REC	320593	1	08/11/2021 22:23	CM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Aug-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	TRIP BLANK
Project Name:	Quick Pantry # 19	**Collection Date:**	8/9/2021
Lab ID:	2108991-012	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	320593	1	08/11/2021 21:18	CM
Toluene	BRL	1.0		ug/L	320593	1	08/11/2021 21:18	CM
Ethylbenzene	BRL	1.0		ug/L	320593	1	08/11/2021 21:18	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	320593	1	08/11/2021 21:18	CM
Naphthalene	BRL	5.0		ug/L	320593	1	08/11/2021 21:18	CM
Surr: 4-Bromofluorobenzene	91.2	70-130		%REC	320593	1	08/11/2021 21:18	CM
Surr: Dibromofluoromethane	95.2	70-130		%REC	320593	1	08/11/2021 21:18	CM
Surr: Toluene-d8	94.1	70-130		%REC	320593	1	08/11/2021 21:18	CM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Aug-21

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Lab Order: 2108991

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2108991-001A	MW10	8/9/2021 8:35:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/12/2021
2108991-001B	MW10	8/9/2021 8:35:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021
2108991-001C	MW10	8/9/2021 8:35:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-002A	MW11	8/9/2021 8:50:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/12/2021
2108991-002B	MW11	8/9/2021 8:50:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021
2108991-002C	MW11	8/9/2021 8:50:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-003A	MW25	8/9/2021 9:00:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/12/2021
2108991-003B	MW25	8/9/2021 9:00:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021
2108991-003C	MW25	8/9/2021 9:00:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-004A	MW19	8/9/2021 9:15:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/12/2021
2108991-004B	MW19	8/9/2021 9:15:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021
2108991-004C	MW19	8/9/2021 9:15:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-004D	MW19	8/9/2021 9:15:00AM	Soil	Total Organic Carbon in Soil		8/19/2021 8:58:32AM	08/20/2021
2108991-005A	MW17	8/9/2021 9:25:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/12/2021
2108991-005A	MW17	8/9/2021 9:25:00AM	Soil	Volatile Organic Compounds by GC/MS		8/13/2021 7:46:00PM	08/13/2021
2108991-005B	MW17	8/9/2021 9:25:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/16/2021
2108991-005C	MW17	8/9/2021 9:25:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-006A	MW18	8/9/2021 9:40:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/12/2021
2108991-006A	MW18	8/9/2021 9:40:00AM	Soil	Volatile Organic Compounds by GC/MS		8/13/2021 7:46:00PM	08/13/2021
2108991-006A	MW18	8/9/2021 9:40:00AM	Soil	Volatile Organic Compounds by GC/MS		8/13/2021 7:46:00PM	08/14/2021
2108991-006B	MW18	8/9/2021 9:40:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021
2108991-006B	MW18	8/9/2021 9:40:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/12/2021 1:54:05PM	08/13/2021
2108991-006C	MW18	8/9/2021 9:40:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-007A	MW22	8/9/2021 11:05:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/12/2021
2108991-007A	MW22	8/9/2021 11:05:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/13/2021
2108991-007B	MW22	8/9/2021 11:05:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021
2108991-007C	MW22	8/9/2021 11:05:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-008A	MW21	8/9/2021 11:20:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/12/2021
2108991-008B	MW21	8/9/2021 11:20:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021

Analytical Environmental Services, Inc

Date: 23-Aug-21

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Lab Order: 2108991

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2108991-008C	MW21	8/9/2021 11:20:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-009A	MW14	8/9/2021 11:30:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/13/2021
2108991-009B	MW14	8/9/2021 11:30:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021
2108991-009C	MW14	8/9/2021 11:30:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-010A	MW15	8/9/2021 11:45:00AM	Soil	Volatile Organic Compounds by GC/MS		8/12/2021 1:00:00PM	08/13/2021
2108991-010B	MW15	8/9/2021 11:45:00AM	Soil	Polynuclear Aromatic Hydrocarbons		8/11/2021 1:54:05PM	08/12/2021
2108991-010C	MW15	8/9/2021 11:45:00AM	Soil	PERCENT MOISTURE			08/12/2021
2108991-011A	FIELD BLANK-1	8/9/2021 12:05:00PM	Aqueous	Volatile Organic Compounds by GC/MS		8/11/2021 6:25:00PM	08/11/2021
2108991-012A	TRIP BLANK	8/9/2021 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		8/11/2021 6:25:00PM	08/11/2021

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: 320461

Sample ID: **MB-320461** Client ID: Units: **ug/Kg** Prep Date: **08/11/2021** Run No: **462158**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270E** BatchID: **320461** Analysis Date: **08/12/2021** Seq No: **10601456**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	BRL	17									
2-Methylnaphthalene	BRL	17									
Acenaphthene	BRL	17									
Acenaphthylene	BRL	33									
Anthracene	BRL	1.7									
Benz(a)anthracene	BRL	1.7									
Benzo(a)pyrene	BRL	1.7									
Benzo(b)fluoranthene	BRL	3.3									
Benzo(g,h,i)perylene	BRL	3.3									
Benzo(k)fluoranthene	BRL	1.7									
Chrysene	BRL	1.7									
Dibenz(a,h)anthracene	BRL	3.3									
Fluoranthene	BRL	3.3									
Fluorene	BRL	3.3									
Indeno(1,2,3-cd)pyrene	BRL	1.7									
Naphthalene	BRL	17									
Phenanthrene	BRL	1.7									
Pyrene	BRL	1.7									
Surr: 4-Terphenyl-d14	56.81	0	66.70		85.2	70	130				

Sample ID: **LCS-320461** Client ID: Units: **ug/Kg** Prep Date: **08/11/2021** Run No: **462158**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270E** BatchID: **320461** Analysis Date: **08/12/2021** Seq No: **10601458**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	52.24	17	66.70		78.3	70	130				
2-Methylnaphthalene	52.13	17	66.70		78.2	70	130				
Acenaphthene	51.15	17	66.70		76.7	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **320461**

Sample ID: **LCS-320461** Client ID: Units: **ug/Kg** Prep Date: **08/11/2021** Run No: **462158**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270E** BatchID: **320461** Analysis Date: **08/12/2021** Seq No: **10601458**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthylene	51.32	33	66.70		76.9	70	130				
Anthracene	60.26	1.7	66.70		90.3	70	130				
Benz(a)anthracene	51.86	1.7	66.70		77.8	70	130				
Benzo(a)pyrene	55.99	1.7	66.70		83.9	70	130				
Benzo(b)fluoranthene	53.18	3.3	66.70		79.7	70	130				
Benzo(g,h,i)perylene	56.28	3.3	66.70		84.4	70	130				
Benzo(k)fluoranthene	56.53	1.7	66.70		84.8	70	130				
Chrysene	56.86	1.7	66.70		85.3	70	130				
Dibenz(a,h)anthracene	59.16	3.3	66.70		88.7	70	130				
Fluoranthene	63.65	3.3	66.70		95.4	70	130				
Fluorene	55.04	3.3	66.70		82.5	70	130				
Indeno(1,2,3-cd)pyrene	61.09	1.7	66.70		91.6	70	130				
Naphthalene	50.61	17	66.70		75.9	70	130				
Phenanthrene	57.46	1.7	66.70		86.1	70	130				
Pyrene	55.82	1.7	66.70		83.7	70	130				
Surr: 4-Terphenyl-d14	66.61	0	66.70		99.9	70	130				

Sample ID: **2108991-007BMS** Client ID: **MW22** Units: **mg/Kg-dry** Prep Date: **08/11/2021** Run No: **462158**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270E** BatchID: **320461** Analysis Date: **08/12/2021** Seq No: **10601462**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	0.06521	0.021	0.0805		81.1	57	120				
2-Methylnaphthalene	0.06591	0.021	0.0805		81.9	50.4	120				
Acenaphthene	0.06411	0.021	0.0805		79.7	50.2	120				
Acenaphthylene	0.06458	0.040	0.0805		80.3	50.6	120				
Anthracene	0.07107	0.0021	0.0805		88.3	50.1	120				
Benz(a)anthracene	0.06417	0.0021	0.0805		79.8	50.1	123				
Benzo(a)pyrene	0.06823	0.0021	0.0805		84.8	50.3	120				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **320461**

Sample ID: **2108991-007BMS** Client ID: **MW22** Units: **mg/Kg-dry** Prep Date: **08/11/2021** Run No: **462158**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270E** BatchID: **320461** Analysis Date: **08/12/2021** Seq No: **10601462**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(b)fluoranthene	0.06330	0.0040	0.0805		78.7	50.9	122				
Benzo(g,h,i)perylene	0.06786	0.0040	0.0805		84.3	50.3	120				
Benzo(k)fluoranthene	0.06550	0.0021	0.0805		81.4	51.5	120				
Chrysene	0.06937	0.0021	0.0805		86.2	51.1	120				
Dibenz(a,h)anthracene	0.07033	0.0040	0.0805		87.4	50	120				
Fluoranthene	0.07901	0.0040	0.0805		98.2	51.7	119				
Fluorene	0.06633	0.0040	0.0805		82.4	50.4	120				
Indeno(1,2,3-cd)pyrene	0.07220	0.0021	0.0805		89.7	51.1	121				
Naphthalene	0.06295	0.021	0.0805		78.2	51.4	120				
Phenanthrene	0.06968	0.0021	0.0805		86.6	50.3	120				
Pyrene	0.06761	0.0021	0.0805		84.0	50.1	117				
Surr: 4-Terphenyl-d14	0.07992	0	0.0805		99.3	55.4	128				

Sample ID: **2108991-007BMSD** Client ID: **MW22** Units: **mg/Kg-dry** Prep Date: **08/11/2021** Run No: **462158**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270E** BatchID: **320461** Analysis Date: **08/12/2021** Seq No: **10601464**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	0.05876	0.021	0.0805		73.0	57	120	0.06521	10.4	31.4	
2-Methylnaphthalene	0.05825	0.021	0.0805		72.4	50.4	120	0.06591	12.3	26.8	
Acenaphthene	0.05837	0.021	0.0805		72.6	50.2	120	0.06411	9.36	24.7	
Acenaphthylene	0.05998	0.040	0.0805		74.6	50.6	120	0.06458	7.39	23.8	
Anthracene	0.06911	0.0021	0.0805		85.9	50.1	120	0.07107	2.79	21.6	
Benz(a)anthracene	0.06336	0.0021	0.0805		78.8	50.1	123	0.06417	1.27	25.9	
Benzo(a)pyrene	0.06758	0.0021	0.0805		84.0	50.3	120	0.06823	0.951	30.8	
Benzo(b)fluoranthene	0.06271	0.0040	0.0805		77.9	50.9	122	0.06330	0.943	37.8	
Benzo(g,h,i)perylene	0.06693	0.0040	0.0805		83.2	50.3	120	0.06786	1.38	36.7	
Benzo(k)fluoranthene	0.06737	0.0021	0.0805		83.7	51.5	120	0.06550	2.82	36.8	
Chrysene	0.06867	0.0021	0.0805		85.4	51.1	120	0.06937	1.02	27.4	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **320461**

Sample ID: **2108991-007BMSD** Client ID: **MW22** Units: **mg/Kg-dry** Prep Date: **08/11/2021** Run No: **462158**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270E** BatchID: **320461** Analysis Date: **08/12/2021** Seq No: **10601464**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibenz(a,h)anthracene	0.07079	0.0040	0.0805		88.0	50	120	0.07033	0.650	30	
Fluoranthene	0.07486	0.0040	0.0805		93.1	51.7	119	0.07901	5.39	39.9	
Fluorene	0.06231	0.0040	0.0805		77.5	50.4	120	0.06633	6.25	41.7	
Indeno(1,2,3-cd)pyrene	0.07042	0.0021	0.0805		87.5	51.1	121	0.07220	2.49	34.6	
Naphthalene	0.05680	0.021	0.0805		70.6	51.4	120	0.06295	10.3	30.5	
Phenanthrene	0.06558	0.0021	0.0805		81.5	50.3	120	0.06968	6.06	37.2	
Pyrene	0.06675	0.0021	0.0805		83.0	50.1	117	0.06761	1.28	38.3	
Surr: 4-Terphenyl-d14	0.08045	0	0.0805		100	55.4	128	0.07992	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: 320593

Sample ID: **MB-320593** Client ID: Units: **ug/L** Prep Date: **08/11/2021** Run No: **462084**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **320593** Analysis Date: **08/11/2021** Seq No: **10602093**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	45.69	0	50.00		91.4	70	130				
Surr: Dibromofluoromethane	47.31	0	50.00		94.6	70	130				
Surr: Toluene-d8	46.99	0	50.00		94.0	70	130				

Sample ID: **LCS-320593** Client ID: Units: **ug/L** Prep Date: **08/11/2021** Run No: **462084**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **320593** Analysis Date: **08/11/2021** Seq No: **10602095**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	49.11	1.0	50.00		98.2	70	130				
Ethylbenzene	53.11	1.0	50.00		106	70	130				
Methyl tert-butyl ether	44.38	1.0	50.00		88.8	70	130				
Naphthalene	50.87	5.0	50.00		102	70	130				
Toluene	44.78	1.0	50.00		89.6	70	130				
Xylenes, Total	158.0	1.0	150.0		105	70	130				
Surr: 4-Bromofluorobenzene	46.11	0	50.00		92.2	70	130				
Surr: Dibromofluoromethane	47.57	0	50.00		95.1	70	130				
Surr: Toluene-d8	47.28	0	50.00		94.6	70	130				

Sample ID: **2108A16-005AMS** Client ID: Units: **ug/L** Prep Date: **08/11/2021** Run No: **462084**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **320593** Analysis Date: **08/13/2021** Seq No: **10605157**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **320593**

Sample ID: **2108A16-005AMS** Client ID: Units: **ug/L** Prep Date: **08/11/2021** Run No: **462084**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **320593** Analysis Date: **08/13/2021** Seq No: **10605157**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	48.97	1.0	50.00		97.9	70.5	136				
Ethylbenzene	51.96	1.0	50.00		104	70	134				
Methyl tert-butyl ether	45.27	1.0	50.00		90.5	65.7	136				
Naphthalene	49.17	5.0	50.00		98.3	58.6	135				
Toluene	44.71	1.0	50.00		89.4	66.4	140				
Xylenes, Total	154.6	1.0	150.0		103	65.4	138				
Surr: 4-Bromofluorobenzene	45.86	0	50.00		91.7	70	130				
Surr: Dibromofluoromethane	48.52	0	50.00		97.0	70	130				
Surr: Toluene-d8	47.46	0	50.00		94.9	70	130				

Sample ID: **2108A16-005AMSD** Client ID: Units: **ug/L** Prep Date: **08/11/2021** Run No: **462084**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **320593** Analysis Date: **08/13/2021** Seq No: **10605158**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	48.21	1.0	50.00		96.4	70.5	136	48.97	1.56	20	
Ethylbenzene	50.57	1.0	50.00		101	70	134	51.96	2.71	20	
Methyl tert-butyl ether	44.52	1.0	50.00		89.0	65.7	136	45.27	1.67	17.3	
Naphthalene	48.22	5.0	50.00		96.4	58.6	135	49.17	1.95	22.7	
Toluene	43.52	1.0	50.00		87.0	66.4	140	44.71	2.70	20	
Xylenes, Total	150.8	1.0	150.0		101	65.4	138	154.6	2.50	20	
Surr: 4-Bromofluorobenzene	45.52	0	50.00		91.0	70	130	45.86	0	0	
Surr: Dibromofluoromethane	48.42	0	50.00		96.8	70	130	48.52	0	0	
Surr: Toluene-d8	47.41	0	50.00		94.8	70	130	47.46	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **320613**

Sample ID: **MB-320613** Client ID: Units: **ug/Kg** Prep Date: **08/12/2021** Run No: **462225**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320613** Analysis Date: **08/12/2021** Seq No: **10602543**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
Toluene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	47.06	0	50.00		94.1	70	130				
Surr: Dibromofluoromethane	52.34	0	50.00		105	70	130				
Surr: Toluene-d8	48.63	0	50.00		97.3	70	130				

Sample ID: **LCS-320613** Client ID: Units: **ug/Kg** Prep Date: **08/12/2021** Run No: **462225**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320613** Analysis Date: **08/12/2021** Seq No: **10602548**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	51.69	5.0	50.00		103	70	130				
Ethylbenzene	54.47	5.0	50.00		109	70	130				
Naphthalene	52.40	5.0	50.00		105	70	130				
Toluene	52.68	5.0	50.00		105	70	130				
Xylenes, Total	168.6	5.0	150.0		112	70	130				
Surr: 4-Bromofluorobenzene	51.79	0	50.00		104	70	130				
Surr: Dibromofluoromethane	54.00	0	50.00		108	70	130				
Surr: Toluene-d8	49.44	0	50.00		98.9	70	130				

Sample ID: **2108D13-007AMS** Client ID: Units: **mg/Kg-dry** Prep Date: **08/12/2021** Run No: **462225**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320613** Analysis Date: **08/13/2021** Seq No: **10603514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	0.06441	0.0049	0.0489		132	63.5	137				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **320613**

Sample ID: **2108D13-007AMS** Client ID: Units: **mg/Kg-dry** Prep Date: **08/12/2021** Run No: **462225**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320613** Analysis Date: **08/13/2021** Seq No: **10603514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	0.06540	0.0049	0.0489		134	61.8	137				
Naphthalene	0.05074	0.0049	0.0489		104	58.1	131				
Toluene	0.05993	0.0049	0.0489		122	61.8	137				
Xylenes, Total	0.1968	0.0049	0.1468		134	65.2	138				
Surr: 4-Bromofluorobenzene	0.05176	0	0.0489		106	65	124				
Surr: Dibromofluoromethane	0.04967	0	0.0489		102	74.8	123				
Surr: Toluene-d8	0.05176	0	0.0489		106	69.2	128				

Sample ID: **2108D13-008ADUP** Client ID: Units: **mg/Kg-dry** Prep Date: **08/12/2021** Run No: **462225**
SampleType: **DUP** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320613** Analysis Date: **08/13/2021** Seq No: **10603515**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	0.0055						0	0	20	
Ethylbenzene	BRL	0.0055						0	0	20	
Methyl tert-butyl ether	BRL	0.0055						0	0	20	
Naphthalene	BRL	0.0055						0	0	20	
Toluene	BRL	0.0055						0.0007867	0	20	
Xylenes, Total	BRL	0.0055						0	0	20	
Surr: 4-Bromofluorobenzene	0.05282	0	0.0550		96.1	65	124	0.04587	0	0	
Surr: Dibromofluoromethane	0.05471	0	0.0550		99.6	74.8	123	0.05320	0	0	
Surr: Toluene-d8	0.05660	0	0.0550		103	69.2	128	0.04683	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **320694**

Sample ID: **MB-320694** Client ID: Units: **ug/Kg** Prep Date: **08/13/2021** Run No: **462361**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320694** Analysis Date: **08/13/2021** Seq No: **10605708**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	250									
Ethylbenzene	BRL	250									
Methyl tert-butyl ether	BRL	250									
Naphthalene	BRL	250									
Toluene	BRL	250									
Xylenes, Total	BRL	250									
Surr: 4-Bromofluorobenzene	2546	0	2500		102	70	130				
Surr: Dibromofluoromethane	2620	0	2500		105	70	130				
Surr: Toluene-d8	2462	0	2500		98.5	70	130				

Sample ID: **LCS-320694** Client ID: Units: **ug/Kg** Prep Date: **08/13/2021** Run No: **462361**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320694** Analysis Date: **08/16/2021** Seq No: **10607989**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	2507	250	2500		100	70	130				
Ethylbenzene	2695	250	2500		108	70	130				
Naphthalene	2680	250	2500		107	70	130				
Toluene	2554	250	2500		102	70	130				
Xylenes, Total	8328	250	7500		111	70	130				
Surr: 4-Bromofluorobenzene	2586	0	2500		103	70	130				
Surr: Dibromofluoromethane	2543	0	2500		102	70	130				
Surr: Toluene-d8	2554	0	2500		102	70	130				

Sample ID: **2108991-005AMS** Client ID: **MW17** Units: **mg/Kg-dry** Prep Date: **08/13/2021** Run No: **462361**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320694** Analysis Date: **08/14/2021** Seq No: **10605713**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	1.505	0.14	1.407	0.02841	105	63.5	137				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **320694**

Sample ID: **2108991-005AMS** Client ID: **MW17** Units: **mg/Kg-dry** Prep Date: **08/13/2021** Run No: **462361**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320694** Analysis Date: **08/14/2021** Seq No: **10605713**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	1.584	0.14	1.407	0.03207	110	61.8	137				
Naphthalene	1.370	0.14	1.407		97.4	58.1	131				
Toluene	1.637	0.14	1.407	0.1781	104	61.8	137				
Xylenes, Total	4.883	0.14	4.220	0.1854	111	65.2	138				
Surr: 4-Bromofluorobenzene	1.448	0	1.407		103	65	124				
Surr: Dibromofluoromethane	1.463	0	1.407		104	74.8	123				
Surr: Toluene-d8	1.396	0	1.407		99.3	69.2	128				

Sample ID: **2108991-005AMSD** Client ID: **MW17** Units: **mg/Kg-dry** Prep Date: **08/13/2021** Run No: **462361**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260D** BatchID: **320694** Analysis Date: **08/14/2021** Seq No: **10605714**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	1.392	0.14	1.407	0.02841	96.9	63.5	137	1.505	7.79	20	
Ethylbenzene	1.466	0.14	1.407	0.03207	102	61.8	137	1.584	7.77	20	
Naphthalene	1.251	0.14	1.407		88.9	58.1	131	1.370	9.06	31.9	
Toluene	1.564	0.14	1.407	0.1781	98.6	61.8	137	1.637	4.55	20	
Xylenes, Total	4.480	0.14	4.220	0.1854	102	65.2	138	4.883	8.61	20	
Surr: 4-Bromofluorobenzene	1.438	0	1.407		102	65	124	1.448	0	0	
Surr: Dibromofluoromethane	1.432	0	1.407		102	74.8	123	1.463	0	0	
Surr: Toluene-d8	1.424	0	1.407		101	69.2	128	1.396	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108991

ANALYTICAL QC SUMMARY REPORT

BatchID: **321018**

Sample ID: **MB-321018** Client ID: Units: **mg/Kg-dry** Prep Date: **08/19/2021** Run No: **462818**
SampleType: **MBLK** TestCode: **Total Organic Carbon in Soil SW9060** BatchID: **321018** Analysis Date: **08/20/2021** Seq No: **10617811**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Total Organic Carbon (TOC)	BRL	500									

Sample ID: **LCS-321018** Client ID: Units: **mg/Kg-dry** Prep Date: **08/19/2021** Run No: **462818**
SampleType: **LCS** TestCode: **Total Organic Carbon in Soil SW9060** BatchID: **321018** Analysis Date: **08/20/2021** Seq No: **10617813**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Total Organic Carbon (TOC)	17970	500	19980		90.0	70	130				

Sample ID: **2108991-004DDUP** Client ID: **MW19** Units: **mg/Kg-dry** Prep Date: **08/19/2021** Run No: **462818**
SampleType: **DUP** TestCode: **Total Organic Carbon in Soil SW9060** BatchID: **321018** Analysis Date: **08/20/2021** Seq No: **10617817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Total Organic Carbon (TOC)	1929	998						2125	9.65	50	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 13, 2021

Mark Keller
KLM Environmental, LLC

118 Springhall Dr Ste E
Goose Creek SC 29445

RE: Quick Pantry # 19

Dear Mark Keller: Order No: 2108W26

Analytical Environmental Services, Inc. received 7 samples on August 27, 2021 9:16 am for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
AES' certifications are as follows:
-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

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

Sincerely,

Eben D. Buchanan, Jr.

Eben Buchanan

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: 2108W26
Page 1 of 1

COMPANY: KLM Environmental
ADDRESS: Po Box 2704 Goose Creek, SC 29445
PHONE: 843-870-4285
EMAIL: mkeller131@comcast.net
SAMPLED BY: Gary Long
SIGNATURE: Gary Long

ANALYSIS REQUESTED: Hex.chr, nitrate; 1,2 DCA; 8 oxygenates; EDB; PAH; Lead

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	Hex.chr, nitrate	1,2 DCA	8 oxygenates	EDB	PAH	Lead	REMARKS	Number of Containers
	PRESERVATION (see codes)													
1	04785 - MW-6	8-26-21	830	X		GW	X	X	X	X	X	X		
2	MW-10	8-26-21	1030	X		GW	X	X	X	X	X	X		
3	MW-11	8-26-21	1115	X		GW	X	X	X	X	X	X		
4	DW-1	8-26-21	900	X		GW	X	X	X	X	X	X		
5	Dup-1	8-26-21	1120	X		GW	X	X	X	X	X	X		
6	Field Blank	8-26-21	1200			W	X	X	X	X				
7	* Trip Blank					W	X	X	X					
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Gary Long	8-26-21 1600	1. Furbomsa Nelsomes	8/27 9:46
2.		2.	1.7°
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
Other: _____

PROJECT INFORMATION
PROJECT NAME: Quick Pantry #19
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: Mark Keller
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request in Business Days
☐ Standard ☐ 4-Day Rush*
☐ 3-Day Rush* ☐ 2-Day Rush*
☐ Next Day Rush* ☐ Other _____
☐ Same-Day Rush* (auth req.)
*Surcharges apply for Rush TAT

REGULATORY PROGRAM (if any):
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

3.18.21_COC

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST=Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NaOH = SH O = Other (specify) NA = None

White Copy - Original Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-MW-6
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 8:30:00 AM
Lab ID:	2108W26-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321722	1	09/01/2021 17:44	CM
Toluene	BRL	1.0		ug/L	321722	1	09/01/2021 17:44	CM
Ethylbenzene	BRL	1.0		ug/L	321722	1	09/01/2021 17:44	CM
Xylenes, Total	BRL	1.0		ug/L	321722	1	09/01/2021 17:44	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321722	1	09/01/2021 17:44	CM
Naphthalene	BRL	5.0		ug/L	321722	1	09/01/2021 17:44	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321722	1	09/01/2021 17:44	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321722	1	09/01/2021 17:44	CM
tert-Amyl methyl ether	BRL	10		ug/L	321722	1	09/01/2021 17:44	CM
Isopropyl ether	BRL	10		ug/L	321722	1	09/01/2021 17:44	CM
tert-Butyl Alcohol	BRL	100		ug/L	321722	1	09/01/2021 17:44	CM
tert-Amyl alcohol	BRL	100		ug/L	321722	1	09/01/2021 17:44	CM
tert-Butyl formate	BRL	100		ug/L	321722	1	09/01/2021 17:44	CM
Ethanol	BRL	100		ug/L	321722	1	09/01/2021 17:44	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321722	1	09/01/2021 17:44	CM
Surr: 4-Bromofluorobenzene	93.2	70-130		%REC	321722	1	09/01/2021 17:44	CM
Surr: Dibromofluoromethane	98.2	70-130		%REC	321722	1	09/01/2021 17:44	CM
Surr: Toluene-d8	97.6	70-130		%REC	321722	1	09/01/2021 17:44	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	5.23	1.00		ug/L	321645	1	09/03/2021 15:38	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Acenaphthylene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
1-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
2-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Acenaphthene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Fluorene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Phenanthrene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Anthracene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Pyrene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Benz(a)anthracene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Chrysene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Benzo(a)pyrene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321672	1	09/08/2021 20:26	DS
Surr: Nitrobenzene-d5	85.8	63.6-131		%REC	321672	1	09/08/2021 20:26	DS
Surr: 2-Fluorobiphenyl	90.8	51.4-127		%REC	321672	1	09/08/2021 20:26	DS
Surr: 4-Terphenyl-d14	94.3	43.2-127		%REC	321672	1	09/08/2021 20:26	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-MW-6
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 8:30:00 AM
Lab ID:	2108W26-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	321728	1	09/02/2021 00:08	ST
Surr: 4-Bromofluorobenzene	119	73.6-140		%REC	321728	1	09/02/2021 00:08	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-MW-10
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 10:30:00 AM
Lab ID:	2108W26-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	1.5	1.0		ug/L	321722	1	09/01/2021 18:05	CM
Toluene	BRL	1.0		ug/L	321722	1	09/01/2021 18:05	CM
Ethylbenzene	BRL	1.0		ug/L	321722	1	09/01/2021 18:05	CM
Xylenes, Total	BRL	1.0		ug/L	321722	1	09/01/2021 18:05	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321722	1	09/01/2021 18:05	CM
Naphthalene	BRL	5.0		ug/L	321722	1	09/01/2021 18:05	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321722	1	09/01/2021 18:05	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321722	1	09/01/2021 18:05	CM
tert-Amyl methyl ether	BRL	10		ug/L	321722	1	09/01/2021 18:05	CM
Isopropyl ether	BRL	10		ug/L	321722	1	09/01/2021 18:05	CM
tert-Butyl Alcohol	BRL	100		ug/L	321722	1	09/01/2021 18:05	CM
tert-Amyl alcohol	BRL	100		ug/L	321722	1	09/01/2021 18:05	CM
tert-Butyl formate	BRL	100		ug/L	321722	1	09/01/2021 18:05	CM
Ethanol	BRL	100		ug/L	321722	1	09/01/2021 18:05	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321722	1	09/01/2021 18:05	CM
Surr: 4-Bromofluorobenzene	94.2	70-130		%REC	321722	1	09/01/2021 18:05	CM
Surr: Dibromofluoromethane	97.8	70-130		%REC	321722	1	09/01/2021 18:05	CM
Surr: Toluene-d8	97.4	70-130		%REC	321722	1	09/01/2021 18:05	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321645	1	09/03/2021 16:15	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Acenaphthylene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
1-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
2-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Acenaphthene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Fluorene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Phenanthrene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Anthracene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Pyrene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Benz(a)anthracene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Chrysene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Benzo(a)pyrene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321672	1	09/08/2021 22:55	DS
Surr: Nitrobenzene-d5	74.9	63.6-131		%REC	321672	1	09/08/2021 22:55	DS
Surr: 2-Fluorobiphenyl	75.1	51.4-127		%REC	321672	1	09/08/2021 22:55	DS
Surr: 4-Terphenyl-d14	80	43.2-127		%REC	321672	1	09/08/2021 22:55	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-MW-10
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 10:30:00 AM
Lab ID:	2108W26-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	321728	1	09/02/2021 01:06	ST
Surr: 4-Bromofluorobenzene	94.7	73.6-140		%REC	321728	1	09/02/2021 01:06	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-MW-11
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 11:15:00 AM
Lab ID:	2108W26-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321722	1	09/01/2021 14:37	CM
Toluene	BRL	1.0		ug/L	321722	1	09/01/2021 14:37	CM
Ethylbenzene	BRL	1.0		ug/L	321722	1	09/01/2021 14:37	CM
Xylenes, Total	BRL	1.0		ug/L	321722	1	09/01/2021 14:37	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321722	1	09/01/2021 14:37	CM
Naphthalene	BRL	5.0		ug/L	321722	1	09/01/2021 14:37	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321722	1	09/01/2021 14:37	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321722	1	09/01/2021 14:37	CM
tert-Amyl methyl ether	BRL	10		ug/L	321722	1	09/01/2021 14:37	CM
Isopropyl ether	BRL	10		ug/L	321722	1	09/01/2021 14:37	CM
tert-Butyl Alcohol	BRL	100		ug/L	321722	1	09/01/2021 14:37	CM
tert-Amyl alcohol	BRL	100		ug/L	321722	1	09/01/2021 14:37	CM
tert-Butyl formate	BRL	100		ug/L	321722	1	09/01/2021 14:37	CM
Ethanol	BRL	100		ug/L	321722	1	09/01/2021 14:37	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321722	1	09/01/2021 14:37	CM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	321722	1	09/01/2021 14:37	CM
Surr: Dibromofluoromethane	96.7	70-130		%REC	321722	1	09/01/2021 14:37	CM
Surr: Toluene-d8	97.5	70-130		%REC	321722	1	09/01/2021 14:37	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321645	1	09/03/2021 16:19	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Acenaphthylene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
1-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
2-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Acenaphthene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Fluorene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Phenanthrene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Anthracene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Pyrene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Benz(a)anthracene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Chrysene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Benzo(a)pyrene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321672	1	09/08/2021 23:20	DS
Surr: Nitrobenzene-d5	72.5	63.6-131		%REC	321672	1	09/08/2021 23:20	DS
Surr: 2-Fluorobiphenyl	72.3	51.4-127		%REC	321672	1	09/08/2021 23:20	DS
Surr: 4-Terphenyl-d14	83.6	43.2-127		%REC	321672	1	09/08/2021 23:20	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-MW-11
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 11:15:00 AM
Lab ID:	2108W26-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	321728	1	09/02/2021 02:04	ST
Surr: 4-Bromofluorobenzene	92	73.6-140		%REC	321728	1	09/02/2021 02:04	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-DW-1
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 9:00:00 AM
Lab ID:	2108W26-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	2.1	1.0		ug/L	321722	1	09/01/2021 18:25	CM
Toluene	4.8	1.0		ug/L	321722	1	09/01/2021 18:25	CM
Ethylbenzene	5.0	1.0		ug/L	321722	1	09/01/2021 18:25	CM
Xylenes, Total	25	1.0		ug/L	321722	1	09/01/2021 18:25	CM
Methyl tert-butyl ether	3.2	1.0		ug/L	321722	1	09/01/2021 18:25	CM
Naphthalene	BRL	5.0		ug/L	321722	1	09/01/2021 18:25	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321722	1	09/01/2021 18:25	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321722	1	09/01/2021 18:25	CM
tert-Amyl methyl ether	BRL	10		ug/L	321722	1	09/01/2021 18:25	CM
Isopropyl ether	BRL	10		ug/L	321722	1	09/01/2021 18:25	CM
tert-Butyl Alcohol	BRL	100		ug/L	321722	1	09/01/2021 18:25	CM
tert-Amyl alcohol	BRL	100		ug/L	321722	1	09/01/2021 18:25	CM
tert-Butyl formate	BRL	100		ug/L	321722	1	09/01/2021 18:25	CM
Ethanol	BRL	100		ug/L	321722	1	09/01/2021 18:25	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321722	1	09/01/2021 18:25	CM
Surr: 4-Bromofluorobenzene	94.8	70-130		%REC	321722	1	09/01/2021 18:25	CM
Surr: Dibromofluoromethane	96.9	70-130		%REC	321722	1	09/01/2021 18:25	CM
Surr: Toluene-d8	97.7	70-130		%REC	321722	1	09/01/2021 18:25	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321645	1	09/03/2021 16:22	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Acenaphthylene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
1-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
2-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Acenaphthene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Fluorene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Phenanthrene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Anthracene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Pyrene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Benz(a)anthracene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Chrysene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Benzo(a)pyrene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321672	1	09/08/2021 23:45	DS
Surr: Nitrobenzene-d5	89.3	63.6-131		%REC	321672	1	09/08/2021 23:45	DS
Surr: 2-Fluorobiphenyl	90.5	51.4-127		%REC	321672	1	09/08/2021 23:45	DS
Surr: 4-Terphenyl-d14	82	43.2-127		%REC	321672	1	09/08/2021 23:45	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-DW-1
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 9:00:00 AM
Lab ID:	2108W26-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	321728	1	09/02/2021 02:32	ST
Surr: 4-Bromofluorobenzene	119	73.6-140		%REC	321728	1	09/02/2021 02:32	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-DUP-1
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 11:20:00 AM
Lab ID:	2108W26-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321722	1	09/01/2021 17:23	CM
Toluene	BRL	1.0		ug/L	321722	1	09/01/2021 17:23	CM
Ethylbenzene	BRL	1.0		ug/L	321722	1	09/01/2021 17:23	CM
Xylenes, Total	BRL	1.0		ug/L	321722	1	09/01/2021 17:23	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321722	1	09/01/2021 17:23	CM
Naphthalene	BRL	5.0		ug/L	321722	1	09/01/2021 17:23	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321722	1	09/01/2021 17:23	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321722	1	09/01/2021 17:23	CM
tert-Amyl methyl ether	BRL	10		ug/L	321722	1	09/01/2021 17:23	CM
Isopropyl ether	BRL	10		ug/L	321722	1	09/01/2021 17:23	CM
tert-Butyl Alcohol	BRL	100		ug/L	321722	1	09/01/2021 17:23	CM
tert-Amyl alcohol	BRL	100		ug/L	321722	1	09/01/2021 17:23	CM
tert-Butyl formate	BRL	100		ug/L	321722	1	09/01/2021 17:23	CM
Ethanol	BRL	100		ug/L	321722	1	09/01/2021 17:23	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321722	1	09/01/2021 17:23	CM
Surr: 4-Bromofluorobenzene	93.2	70-130		%REC	321722	1	09/01/2021 17:23	CM
Surr: Dibromofluoromethane	97.7	70-130		%REC	321722	1	09/01/2021 17:23	CM
Surr: Toluene-d8	97.1	70-130		%REC	321722	1	09/01/2021 17:23	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321645	1	09/03/2021 16:26	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Acenaphthylene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
1-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
2-Methylnaphthalene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Acenaphthene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Fluorene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Phenanthrene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Anthracene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Pyrene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Benz(a)anthracene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Chrysene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Benzo(a)pyrene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321672	1	09/08/2021 19:14	DS
Surr: Nitrobenzene-d5	87.8	63.6-131		%REC	321672	1	09/08/2021 19:14	DS
Surr: 2-Fluorobiphenyl	88.4	51.4-127		%REC	321672	1	09/08/2021 19:14	DS
Surr: 4-Terphenyl-d14	98.7	43.2-127		%REC	321672	1	09/08/2021 19:14	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-DUP-1
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 11:20:00 AM
Lab ID:	2108W26-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	321728	1	09/02/2021 03:30	ST
Surr: 4-Bromofluorobenzene	102	73.6-140		%REC	321728	1	09/02/2021 03:30	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-Field Blank
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 12:00:00 PM
Lab ID:	2108W26-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321722	1	09/01/2021 11:49	CM
Toluene	BRL	1.0		ug/L	321722	1	09/01/2021 11:49	CM
Ethylbenzene	BRL	1.0		ug/L	321722	1	09/01/2021 11:49	CM
Xylenes, Total	BRL	1.0		ug/L	321722	1	09/01/2021 11:49	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321722	1	09/01/2021 11:49	CM
Naphthalene	BRL	5.0		ug/L	321722	1	09/01/2021 11:49	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321722	1	09/01/2021 11:49	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321722	1	09/01/2021 11:49	CM
tert-Amyl methyl ether	BRL	10		ug/L	321722	1	09/01/2021 11:49	CM
Isopropyl ether	BRL	10		ug/L	321722	1	09/01/2021 11:49	CM
tert-Butyl Alcohol	BRL	100		ug/L	321722	1	09/01/2021 11:49	CM
tert-Amyl alcohol	BRL	100		ug/L	321722	1	09/01/2021 11:49	CM
tert-Butyl formate	BRL	100		ug/L	321722	1	09/01/2021 11:49	CM
Ethanol	BRL	100		ug/L	321722	1	09/01/2021 11:49	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321722	1	09/01/2021 11:49	CM
Surr: 4-Bromofluorobenzene	95.3	70-130		%REC	321722	1	09/01/2021 11:49	CM
Surr: Dibromofluoromethane	93.1	70-130		%REC	321722	1	09/01/2021 11:49	CM
Surr: Toluene-d8	95.6	70-130		%REC	321722	1	09/01/2021 11:49	CM
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	321728	1	09/02/2021 03:59	ST
Surr: 4-Bromofluorobenzene	90.7	73.6-140		%REC	321728	1	09/02/2021 03:59	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 13-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	04785-Trip Blank
Project Name:	Quick Pantry # 19	**Collection Date:**	8/26/2021 8:30:00 AM
Lab ID:	2108W26-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321722	1	09/01/2021 11:28	CM
Toluene	BRL	1.0		ug/L	321722	1	09/01/2021 11:28	CM
Ethylbenzene	BRL	1.0		ug/L	321722	1	09/01/2021 11:28	CM
Xylenes, Total	BRL	1.0		ug/L	321722	1	09/01/2021 11:28	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321722	1	09/01/2021 11:28	CM
Naphthalene	BRL	5.0		ug/L	321722	1	09/01/2021 11:28	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321722	1	09/01/2021 11:28	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321722	1	09/01/2021 11:28	CM
tert-Amyl methyl ether	BRL	10		ug/L	321722	1	09/01/2021 11:28	CM
Isopropyl ether	BRL	10		ug/L	321722	1	09/01/2021 11:28	CM
tert-Butyl Alcohol	BRL	100		ug/L	321722	1	09/01/2021 11:28	CM
tert-Amyl alcohol	BRL	100		ug/L	321722	1	09/01/2021 11:28	CM
tert-Butyl formate	BRL	100		ug/L	321722	1	09/01/2021 11:28	CM
Ethanol	BRL	100		ug/L	321722	1	09/01/2021 11:28	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321722	1	09/01/2021 11:28	CM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	321722	1	09/01/2021 11:28	CM
Surr: Dibromofluoromethane	93	70-130		%REC	321722	1	09/01/2021 11:28	CM
Surr: Toluene-d8	95.9	70-130		%REC	321722	1	09/01/2021 11:28	CM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Sep-21

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Lab Order: 2108W26

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2108W26-001A	04785-MW-6	8/26/2021 8:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/1/2021 7:42:00AM	09/01/2021
2108W26-001B	04785-MW-6	8/26/2021 8:30:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/1/2021 2:20:07PM	09/02/2021
2108W26-001C	04785-MW-6	8/26/2021 8:30:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/1/2021 11:45:47AM	09/08/2021
2108W26-001D	04785-MW-6	8/26/2021 8:30:00AM	Groundwater	Total Metals by ICP/MS		9/2/2021 11:04:00AM	09/03/2021
2108W26-002A	04785-MW-10	8/26/2021 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/1/2021 7:42:00AM	09/01/2021
2108W26-002B	04785-MW-10	8/26/2021 10:30:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/1/2021 2:20:07PM	09/02/2021
2108W26-002C	04785-MW-10	8/26/2021 10:30:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/1/2021 11:45:47AM	09/08/2021
2108W26-002D	04785-MW-10	8/26/2021 10:30:00AM	Groundwater	Total Metals by ICP/MS		9/2/2021 11:04:00AM	09/03/2021
2108W26-003A	04785-MW-11	8/26/2021 11:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/1/2021 7:42:00AM	09/01/2021
2108W26-003B	04785-MW-11	8/26/2021 11:15:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/1/2021 2:20:07PM	09/02/2021
2108W26-003C	04785-MW-11	8/26/2021 11:15:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/1/2021 11:45:47AM	09/08/2021
2108W26-003D	04785-MW-11	8/26/2021 11:15:00AM	Groundwater	Total Metals by ICP/MS		9/2/2021 11:04:00AM	09/03/2021
2108W26-004A	04785-DW-1	8/26/2021 9:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/1/2021 7:42:00AM	09/01/2021
2108W26-004B	04785-DW-1	8/26/2021 9:00:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/1/2021 2:20:07PM	09/02/2021
2108W26-004C	04785-DW-1	8/26/2021 9:00:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/1/2021 11:45:47AM	09/08/2021
2108W26-004D	04785-DW-1	8/26/2021 9:00:00AM	Groundwater	Total Metals by ICP/MS		9/2/2021 11:04:00AM	09/03/2021
2108W26-005A	04785-DUP-1	8/26/2021 11:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/1/2021 7:42:00AM	09/01/2021
2108W26-005B	04785-DUP-1	8/26/2021 11:20:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/1/2021 2:20:07PM	09/02/2021
2108W26-005C	04785-DUP-1	8/26/2021 11:20:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/1/2021 11:45:47AM	09/08/2021
2108W26-005D	04785-DUP-1	8/26/2021 11:20:00AM	Groundwater	Total Metals by ICP/MS		9/2/2021 11:04:00AM	09/03/2021
2108W26-006A	04785-Field Blank	8/26/2021 12:00:00PM	Aqueous	Volatile Organic Compounds by GC/MS		9/1/2021 7:42:00AM	09/01/2021
2108W26-006B	04785-Field Blank	8/26/2021 12:00:00PM	Aqueous	MICRO-EXTRACTABLE VOCs		9/1/2021 2:20:07PM	09/02/2021
2108W26-007A	04785-Trip Blank	8/26/2021 8:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		9/1/2021 7:42:00AM	09/01/2021

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: **321645**

Sample ID: **MB-321645** Client ID: Units: **ug/L** Prep Date: **09/02/2021** Run No: **464158**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **321645** Analysis Date: **09/03/2021** Seq No: **10653996**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	1.00									

Sample ID: **LCS-321645** Client ID: Units: **ug/L** Prep Date: **09/02/2021** Run No: **464158**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **321645** Analysis Date: **09/03/2021** Seq No: **10653997**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	102.7	1.00	100.0		103	80	120				

Sample ID: **2108W26-001DMS** Client ID: **04785-MW-6** Units: **ug/L** Prep Date: **09/02/2021** Run No: **464158**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **321645** Analysis Date: **09/03/2021** Seq No: **10654001**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	108.6	1.00	100.0	5.227	103	75	125				

Sample ID: **2108W26-001DMSD** Client ID: **04785-MW-6** Units: **ug/L** Prep Date: **09/02/2021** Run No: **464158**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **321645** Analysis Date: **09/03/2021** Seq No: **10654002**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	107.7	1.00	100.0	5.227	102	75	125	108.6	0.829	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: 321672

Sample ID: **MB-321672** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **464419**
SampleType: **MBLK** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321672** Analysis Date: **09/08/2021** Seq No: **10660610**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	BRL	10									
2-Methylnaphthalene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Naphthalene	BRL	10									
Phenanthrene	BRL	10									
Pyrene	BRL	10									
Surr: 2-Fluorobiphenyl	45.74	0	50.00		91.5	51.4	127				
Surr: 4-Terphenyl-d14	50.89	0	50.00		102	43.2	127				
Surr: Nitrobenzene-d5	45.81	0	50.00		91.6	63.6	131				

Sample ID: **LCS-321672** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **464419**
SampleType: **LCS** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321672** Analysis Date: **09/08/2021** Seq No: **10660611**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	45.76	10	50.00		91.5	70	130				
2-Methylnaphthalene	45.80	10	50.00		91.6	70	130				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: 321672

Sample ID: **LCS-321672** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **464419**
SampleType: **LCS** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321672** Analysis Date: **09/08/2021** Seq No: **10660611**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	43.69	10	50.00		87.4	70	130				
Acenaphthylene	47.10	10	50.00		94.2	70	130				
Anthracene	46.48	10	50.00		93.0	70	130				
Benz(a)anthracene	53.77	10	50.00		108	70	130				
Benzo(a)pyrene	51.25	10	50.00		102	70	130				
Benzo(b)fluoranthene	49.99	10	50.00		100.0	70	130				
Benzo(g,h,i)perylene	50.27	10	50.00		101	70	130				
Benzo(k)fluoranthene	50.12	10	50.00		100	70	130				
Chrysene	48.75	10	50.00		97.5	70	130				
Dibenz(a,h)anthracene	51.63	10	50.00		103	70	130				
Fluoranthene	51.56	10	50.00		103	70	130				
Fluorene	48.42	10	50.00		96.8	70	130				
Indeno(1,2,3-cd)pyrene	51.69	10	50.00		103	70	130				
Naphthalene	42.37	10	50.00		84.7	70	130				
Phenanthrene	47.19	10	50.00		94.4	70	130				
Pyrene	48.83	10	50.00		97.7	70	130				
Surr: 2-Fluorobiphenyl	44.05	0	50.00		88.1	51.4	127				
Surr: 4-Terphenyl-d14	51.20	0	50.00		102	43.2	127				
Surr: Nitrobenzene-d5	43.80	0	50.00		87.6	63.6	131				

Sample ID: **2108W26-005CMS** Client ID: **04785-DUP-1** Units: **ug/L** Prep Date: **09/01/2021** Run No: **464419**
SampleType: **MS** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321672** Analysis Date: **09/08/2021** Seq No: **10660613**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	48.56	10	50.00		97.1	54.2	130				
2-Methylnaphthalene	47.91	10	50.00		95.8	50.8	127				
Acenaphthene	47.13	10	50.00		94.3	64.4	130				
Acenaphthylene	48.62	10	50.00		97.2	63.8	129				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: 321672

Sample ID: **2108W26-005CMS** Client ID: **04785-DUP-1** Units: **ug/L** Prep Date: **09/01/2021** Run No: **464419**
SampleType: **MS** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321672** Analysis Date: **09/08/2021** Seq No: **10660613**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	47.22	10	50.00		94.4	73.8	128				
Benz(a)anthracene	54.85	10	50.00		110	68	133				
Benzo(a)pyrene	50.39	10	50.00		101	70.1	133				
Benzo(b)fluoranthene	49.48	10	50.00		99.0	66	132				
Benzo(g,h,i)perylene	50.93	10	50.00		102	69.8	127				
Benzo(k)fluoranthene	51.01	10	50.00		102	70.8	131				
Chrysene	50.37	10	50.00		101	72.3	130				
Dibenz(a,h)anthracene	51.07	10	50.00		102	69	132				
Fluoranthene	52.25	10	50.00		104	70.9	133				
Fluorene	50.79	10	50.00		102	64.4	130				
Indeno(1,2,3-cd)pyrene	51.33	10	50.00		103	73.1	134				
Naphthalene	45.24	10	50.00		90.5	52.5	125				
Phenanthrene	49.05	10	50.00		98.1	69.3	128				
Pyrene	49.41	10	50.00		98.8	65.8	130				
Surr: 2-Fluorobiphenyl	46.16	0	50.00		92.3	51.4	127				
Surr: 4-Terphenyl-d14	51.15	0	50.00		102	43.2	127				
Surr: Nitrobenzene-d5	44.84	0	50.00		89.7	63.6	131				

Sample ID: **2108W26-005CMSD** Client ID: **04785-DUP-1** Units: **ug/L** Prep Date: **09/01/2021** Run No: **464419**
SampleType: **MSD** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321672** Analysis Date: **09/08/2021** Seq No: **10660614**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	51.27	10	50.00		103	54.2	130	48.56	5.43	19.1	
2-Methylnaphthalene	48.89	10	50.00		97.8	50.8	127	47.91	2.02	18.9	
Acenaphthene	47.98	10	50.00		96.0	64.4	130	47.13	1.79	17.1	
Acenaphthylene	51.02	10	50.00		102	63.8	129	48.62	4.82	20	
Anthracene	45.99	10	50.00		92.0	73.8	128	47.22	2.64	20	
Benz(a)anthracene	53.43	10	50.00		107	68	133	54.85	2.62	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: **321672**

Sample ID: **2108W26-005CMSD** Client ID: **04785-DUP-1** Units: **ug/L** Prep Date: **09/01/2021** Run No: **464419**
SampleType: **MSD** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321672** Analysis Date: **09/08/2021** Seq No: **10660614**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(a)pyrene	48.96	10	50.00		97.9	70.1	133	50.39	2.88	20	
Benzo(b)fluoranthene	50.48	10	50.00		101	66	132	49.48	2.00	20	
Benzo(g,h,i)perylene	49.75	10	50.00		99.5	69.8	127	50.93	2.34	18.7	
Benzo(k)fluoranthene	48.39	10	50.00		96.8	70.8	131	51.01	5.27	20	
Chrysene	48.77	10	50.00		97.5	72.3	130	50.37	3.23	20	
Dibenz(a,h)anthracene	50.69	10	50.00		101	69	132	51.07	0.747	19	
Fluoranthene	51.13	10	50.00		102	70.9	133	52.25	2.17	20	
Fluorene	51.83	10	50.00		104	64.4	130	50.79	2.03	17.4	
Indeno(1,2,3-cd)pyrene	50.93	10	50.00		102	73.1	134	51.33	0.782	20	
Naphthalene	47.64	10	50.00		95.3	52.5	125	45.24	5.17	19.9	
Phenanthrene	49.01	10	50.00		98.0	69.3	128	49.05	0.082	20	
Pyrene	48.26	10	50.00		96.5	65.8	130	49.41	2.35	20	
Surr: 2-Fluorobiphenyl	47.44	0	50.00		94.9	51.4	127	46.16	0	0	
Surr: 4-Terphenyl-d14	49.56	0	50.00		99.1	43.2	127	51.15	0	0	
Surr: Nitrobenzene-d5	47.01	0	50.00		94.0	63.6	131	44.84	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: 321722

Sample ID: **MB-321722** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463822**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321722** Analysis Date: **09/01/2021** Seq No: **10644863**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
3,3-Dimethyl-1-butanol	BRL	100									
Benzene	BRL	1.0									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	10									
Ethylbenzene	BRL	1.0									
Isopropyl ether	BRL	10									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	47.40	0	50.00		94.8	70	130				
Surr: Dibromofluoromethane	46.35	0	50.00		92.7	70	130				
Surr: Toluene-d8	47.69	0	50.00		95.4	70	130				

Sample ID: **LCS-321722** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463822**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321722** Analysis Date: **09/01/2021** Seq No: **10644864**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	47.49	1.0	50.00		95.0	70	130				
3,3-Dimethyl-1-butanol	549.7	100	500.0		110	70	130				
Benzene	46.20	1.0	50.00		92.4	70	130				
Ethanol	624.9	100	500.0		125	70	130				
Ethyl tert-butyl ether	89.25	10	100.0		89.2	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: 321722

Sample ID: **LCS-321722** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463822**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321722** Analysis Date: **09/01/2021** Seq No: **10644864**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	47.25	1.0	50.00		94.5	70	130				
Isopropyl ether	82.14	10	100.0		82.1	70	130				
Methyl tert-butyl ether	45.59	1.0	50.00		91.2	70	130				
Naphthalene	52.47	5.0	50.00		105	70	130				
tert-Amyl alcohol	449.6	100	500.0		89.9	70	130				
tert-Amyl methyl ether	91.35	10	100.0		91.4	70	130				
tert-Butyl Alcohol	456.3	100	500.0		91.3	70	130				
tert-Butyl formate	465.3	100	500.0		93.1	70	130				
Toluene	43.85	1.0	50.00		87.7	70	130				
Xylenes, Total	141.1	1.0	150.0		94.1	70	130				
Surr: 4-Bromofluorobenzene	48.50	0	50.00		97.0	70	130				
Surr: Dibromofluoromethane	49.84	0	50.00		99.7	70	130				
Surr: Toluene-d8	48.40	0	50.00		96.8	70	130				

Sample ID: **2108V31-004AMS** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463771**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321722** Analysis Date: **09/03/2021** Seq No: **10649793**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	944.0	20	1000		94.4	72.1	135				
3,3-Dimethyl-1-butanol	9474	2000	10000		94.7	60.1	130				
Benzene	1471	20	1000	394.0	108	70.5	136				
Ethanol	4716	2000	10000		47.2	61.9	140				S
Ethyl tert-butyl ether	2264	200	2000		113	71.2	122				
Ethylbenzene	3993	20	1000	3122	87.1	70	134				
Isopropyl ether	2288	200	2000		114	71	133				
Methyl tert-butyl ether	1045	20	1000		104	65.7	136				
Naphthalene	1513	100	1000	1103	41.0	58.6	135				S
tert-Amyl alcohol	9113	2000	10000		91.1	69.7	140				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: **321722**

Sample ID: **2108V31-004AMS** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463771**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321722** Analysis Date: **09/03/2021** Seq No: **10649793**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl methyl ether	2204	200	2000		110	70.1	126				
tert-Butyl Alcohol	7290	2000	10000		72.9	67	140				
tert-Butyl formate	9884	2000	10000		98.8	60	134				
Toluene	2012	20	1000	826.0	119	66.4	140				
Xylenes, Total	9366	20	3000	6565	93.3	65.4	138				
Surr: 4-Bromofluorobenzene	956.0	0	1000		95.6	70	130				
Surr: Dibromofluoromethane	933.4	0	1000		93.3	70	130				
Surr: Toluene-d8	999.2	0	1000		99.9	70	130				

Sample ID: **2108V31-004AMSD** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463771**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321722** Analysis Date: **09/03/2021** Seq No: **10649794**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	912.6	20	1000		91.3	72.1	135	944.0	3.38	20	
3,3-Dimethyl-1-butanol	11580	2000	10000		116	60.1	130	9474	20.0	25.3	
Benzene	1396	20	1000	394.0	100	70.5	136	1471	5.23	20	
Ethanol	9600	2000	10000		96.0	61.9	140	4716	68.2	29	R
Ethyl tert-butyl ether	2237	200	2000		112	71.2	122	2264	1.23	20	
Ethylbenzene	3738	20	1000	3122	61.6	70	134	3993	6.59	20	S
Isopropyl ether	2254	200	2000		113	71	133	2288	1.51	20	
Methyl tert-butyl ether	1042	20	1000		104	65.7	136	1045	0.230	17.3	
Naphthalene	1606	100	1000	1103	50.3	58.6	135	1513	5.95	22.7	S
tert-Amyl alcohol	11910	2000	10000		119	69.7	140	9113	26.6	26.8	
tert-Amyl methyl ether	2197	200	2000		110	70.1	126	2204	0.327	20	
tert-Butyl Alcohol	10370	2000	10000		104	67	140	7290	34.9	29.4	R
tert-Butyl formate	9663	2000	10000		96.6	60	134	9884	2.26	18	
Toluene	1909	20	1000	826.0	108	66.4	140	2012	5.25	20	
Xylenes, Total	8770	20	3000	6565	73.5	65.4	138	9366	6.57	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: **321722**

Sample ID: **2108V31-004AMSD** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463771**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321722** Analysis Date: **09/03/2021** Seq No: **10649794**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	983.0	0	1000		98.3	70	130	956.0	0	0	
Surr: Dibromofluoromethane	946.4	0	1000		94.6	70	130	933.4	0	0	
Surr: Toluene-d8	1002	0	1000		100	70	130	999.2	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: 321728

Sample ID: **MB-321728** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463940**
SampleType: **MBLK** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **321728** Analysis Date: **09/01/2021** Seq No: **10646853**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	BRL	0.020									
Surr: 4-Bromofluorobenzene	4.685	0	5.000		93.7	70	130				

Sample ID: **LCS-321728** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463940**
SampleType: **LCS** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **321728** Analysis Date: **09/01/2021** Seq No: **10646854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.1010	0.020	0.1000		101	60	140				
Surr: 4-Bromofluorobenzene	4.757	0	5.000		95.1	70	130				

Sample ID: **LCSD-321728** Client ID: Units: **ug/L** Prep Date: **09/01/2021** Run No: **463940**
SampleType: **LCSD** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **321728** Analysis Date: **09/01/2021** Seq No: **10646855**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.1030	0.020	0.1000		103	60	140	0.1010	1.96	15.6	
Surr: 4-Bromofluorobenzene	4.753	0	5.000		95.1	70	130	4.757	0	0	

Sample ID: **2108W26-001BMS** Client ID: **04785-MW-6** Units: **ug/L** Prep Date: **09/01/2021** Run No: **463940**
SampleType: **MS** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **321728** Analysis Date: **09/02/2021** Seq No: **10646871**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.09623	0.020	0.0992		97.0	70	131				
Surr: 4-Bromofluorobenzene	6.084	0	4.960		123	73.6	140				

Sample ID: **2108W26-002BDUP** Client ID: **04785-MW-10** Units: **ug/L** Prep Date: **09/01/2021** Run No: **463940**
SampleType: **DUP** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **321728** Analysis Date: **09/02/2021** Seq No: **10646874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	BRL	0.020						0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2108W26

ANALYTICAL QC SUMMARY REPORT

BatchID: 321728

Sample ID: **2108W26-002BDUP** Client ID: **04785-MW-10** Units: **ug/L** Prep Date: **09/01/2021** Run No: **463940**
SampleType: **DUP** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **321728** Analysis Date: **09/02/2021** Seq No: **10646874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	4.662	0	5.090		91.6	73.6	140	4.681	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 22, 2021

Mark Keller
KLM Environmental, LLC

118 Springhall Dr Ste E
Goose Creek SC 29445

RE: Quick Pantry # 19

Dear Mark Keller: Order No: 2109338

Analytical Environmental Services, Inc. received 23 samples on 9/3/2021 9:34:00 AM for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
AES' certifications are as follows:
-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

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

Sincerely,

Eben D. Buchanan, Jr.

Eben Buchanan

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: 2109338
Page 1 of 2

COMPANY: KLM Environmental LLC
ADDRESS: PO Box 2704 Goose Creek, SC 29445
PHONE:
EMAIL: mKeller131@comcast.net
SAMPLED BY: Graham Robinson
SIGNATURE: [signature]

ANALYSIS REQUESTED: BTEX/MTBE; 1,2 DCA; 8 oxygenates; EDB; Lead; PAH

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	BTEX/MTBE	1,2 DCA	8 oxygenates	EDB	Lead	PAH	REMARKS	Number of Containers
1	#04785 MW-15	9-2-21	1120	X		GW	X	X	X	X	X	X		
2	MW-16		1100	X		GW	X	X	X	X	X	X		
3	MW-19		800	X		GW	X	X	X	X	X	X		
4	MW-20		1040	X		GW	X	X	X	X	X	X		
5	MW-21		1140	X		GW	X	X	X	X	X	X		
6	MW-22		920	X		GW	X	X	X	X	X	X		
7	MW-23		1020	X		GW	X	X	X	X	X	X		
8	MW-24		940	X		GW	X	X	X	X	X	X		
9	MW-25		820	X		GW	X	X	X	X	X	X		
10	DW-2		840	X		GW	X	X	X	X	X	X		
11	DW-3		900	X		GW	X	X	X	X	X	X		
12	DW-4		1000	X		GW	X	X	X	X	X	X		
13	SW-1		1300	X		SW	X	X	X	X	X	X		
14	SW-2		1245	X		SW	X	X	X	X	X	X		

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	9-2-21/1400	1. Andrew Steph	9/3/21 934
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Quick Pantry # 19
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: Mark Keller
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request in Business Days
☐ Standard ☐ 4-Day Rush*
☐ 3-Day Rush* ☐ 2-Day Rush*
☐ Next Day Rush* ☐ Other _____
☐ Same-Day Rush*(auth req.)
*Surcharges apply for Rush TAT

REGULATORY PROGRAM (if any):
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

3.18.21_COC

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST=Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NaOH = SH O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: 2109330
Page 2 of 2

COMPANY: KLM Environmental LLC
ADDRESS: PO Box 2704 Goose Creek SC 29445
PHONE:
EMAIL: M Keller 131 @Comcast.net
SAMPLED BY: Graham Robinson
SIGNATURE: [signature]

ANALYSIS REQUESTED: BTEX, Naph, MTBE; 1,2 DCA; 8 Oxygenates; EDB; Lead; PAH

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	BTEX, Naph, MTBE	1,2 DCA	8 Oxygenates	EDB	Lead	PAH	REMARKS	Number of Containers
1	#04785 SW-3	9-2-21	1230	X		SW	X	X	X	X	X	X		
2	SW-5		1200	X		SW	X	X	X	X	X	X		
3	SW-6		1215	X		SW	X	X	X	X	X	X		
4	Dup-2		1045	X		GW	X	X	X	X	X	X		
5	Field Blank-2		1310	X		W	X	X	X	X				
6	Trip Blank					W	X							
7	Trip Blank					W	X							
8	Trip Blank					W	X							
9	Trip blank					W	X							
10														
11														
12														
13														
14														

PRESERVATION (see codes)

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	9-2-21/1400	1. Andrews Stephen	9/3/21 934
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Quick Pantry # 19
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: Mark Keller
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request in Business Days
☐ Standard ☐ 4-Day Rush*
☐ 3-Day Rush* ☐ 2-Day Rush*
☐ Next Day Rush* ☐ Other _____
☐ Same-Day Rush* (auth req.)
*Surcharges apply for Rush TAT

REGULATORY PROGRAM (if any):
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

3.18.21_COC

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST=Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NaOH = SH O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 22-Sep-21

Client: KLM Environmental, LLC
Project: Quick Pantry # 19
Lab ID: 2109338

Case Narrative

Sample Receiving Nonconformance:

For sample #04785-SW-3, vial 3 of 3 was received broken. Laboratory proceeded with analysis on the remaining intact containers.

Volatile Organic Compounds Analysis by Method 8260D:

LCS-321885 recovery for Naphthalene, & Ethanol was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-15
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 11:20:00 AM
Lab ID:	2109338-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321954	1	09/04/2021 14:23	OM
Toluene	BRL	1.0		ug/L	321954	1	09/04/2021 14:23	OM
Ethylbenzene	BRL	1.0		ug/L	321954	1	09/04/2021 14:23	OM
Xylenes, Total	1.7	1.0		ug/L	321954	1	09/04/2021 14:23	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 14:23	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 14:23	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 14:23	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 14:23	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 14:23	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 14:23	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 14:23	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 14:23	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 14:23	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 14:23	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 14:23	OM
Surr: 4-Bromofluorobenzene	97.1	70-130		%REC	321954	1	09/04/2021 14:23	OM
Surr: Dibromofluoromethane	96.4	70-130		%REC	321954	1	09/04/2021 14:23	OM
Surr: Toluene-d8	98.1	70-130		%REC	321954	1	09/04/2021 14:23	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:12	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 22:40	DS
Surr: Nitrobenzene-d5	95.2	63.6-131		%REC	321860	1	09/09/2021 22:40	DS
Surr: 2-Fluorobiphenyl	96.5	51.4-127		%REC	321860	1	09/09/2021 22:40	DS
Surr: 4-Terphenyl-d14	116	43.2-127		%REC	321860	1	09/09/2021 22:40	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-15
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 11:20:00 AM
Lab ID:	2109338-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 17:50	ST
Surr: 4-Bromofluorobenzene	129	73.6-140		%REC	322002	1	09/08/2021 17:50	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-16
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 11:00:00 AM
Lab ID:	2109338-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	51	1.0		ug/L	321954	1	09/04/2021 14:46	OM
Toluene	130	1.0		ug/L	321954	1	09/04/2021 14:46	OM
Ethylbenzene	32	1.0		ug/L	321954	1	09/04/2021 14:46	OM
Xylenes, Total	160	1.0		ug/L	321954	1	09/04/2021 14:46	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 14:46	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 14:46	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 14:46	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 14:46	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 14:46	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 14:46	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 14:46	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 14:46	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 14:46	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 14:46	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 14:46	OM
Surr: 4-Bromofluorobenzene	95	70-130		%REC	321954	1	09/04/2021 14:46	OM
Surr: Dibromofluoromethane	95.6	70-130		%REC	321954	1	09/04/2021 14:46	OM
Surr: Toluene-d8	99.2	70-130		%REC	321954	1	09/04/2021 14:46	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:16	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:04	DS
Surr: Nitrobenzene-d5	81.8	63.6-131		%REC	321860	1	09/09/2021 23:04	DS
Surr: 2-Fluorobiphenyl	90.4	51.4-127		%REC	321860	1	09/09/2021 23:04	DS
Surr: 4-Terphenyl-d14	109	43.2-127		%REC	321860	1	09/09/2021 23:04	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-16
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 11:00:00 AM
Lab ID:	2109338-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 18:47	ST
Surr: 4-Bromofluorobenzene	103	73.6-140		%REC	322002	1	09/08/2021 18:47	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-19
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 8:00:00 AM
Lab ID:	2109338-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321954	1	09/04/2021 15:10	OM
Toluene	BRL	1.0		ug/L	321954	1	09/04/2021 15:10	OM
Ethylbenzene	BRL	1.0		ug/L	321954	1	09/04/2021 15:10	OM
Xylenes, Total	BRL	1.0		ug/L	321954	1	09/04/2021 15:10	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 15:10	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 15:10	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 15:10	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 15:10	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 15:10	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 15:10	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 15:10	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 15:10	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 15:10	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 15:10	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 15:10	OM
Surr: 4-Bromofluorobenzene	95.9	70-130		%REC	321954	1	09/04/2021 15:10	OM
Surr: Dibromofluoromethane	98.2	70-130		%REC	321954	1	09/04/2021 15:10	OM
Surr: Toluene-d8	98.9	70-130		%REC	321954	1	09/04/2021 15:10	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:20	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 20:35	DS
Surr: Nitrobenzene-d5	94.7	63.6-131		%REC	321860	1	09/09/2021 20:35	DS
Surr: 2-Fluorobiphenyl	98.2	51.4-127		%REC	321860	1	09/09/2021 20:35	DS
Surr: 4-Terphenyl-d14	103	43.2-127		%REC	321860	1	09/09/2021 20:35	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-19
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 8:00:00 AM
Lab ID:	2109338-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 19:44	ST
Surr: 4-Bromofluorobenzene	106	73.6-140		%REC	322002	1	09/08/2021 19:44	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-20
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 10:40:00 AM
Lab ID:	2109338-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	2200	50		ug/L	321954	50	09/10/2021 16:20	CM
Toluene	23	1.0		ug/L	321954	1	09/04/2021 15:34	OM
Ethylbenzene	2.2	1.0		ug/L	321954	1	09/04/2021 15:34	OM
Xylenes, Total	54	1.0		ug/L	321954	1	09/04/2021 15:34	OM
Methyl tert-butyl ether	140	1.0		ug/L	321954	1	09/04/2021 15:34	OM
Naphthalene	86	5.0		ug/L	321954	1	09/10/2021 15:57	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 15:34	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 15:34	OM
tert-Amyl methyl ether	30	10		ug/L	321954	1	09/04/2021 15:34	OM
Isopropyl ether	370	10		ug/L	321954	1	09/04/2021 15:34	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 15:34	OM
tert-Amyl alcohol	480	100		ug/L	321954	1	09/10/2021 15:57	CM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 15:34	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 15:34	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 15:34	OM
Surr: 4-Bromofluorobenzene	99.1	70-130		%REC	321954	50	09/10/2021 16:20	CM
Surr: 4-Bromofluorobenzene	96.2	70-130		%REC	321954	1	09/04/2021 15:34	OM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	321954	1	09/10/2021 15:57	CM
Surr: Dibromofluoromethane	98.8	70-130		%REC	321954	50	09/10/2021 16:20	CM
Surr: Dibromofluoromethane	95.4	70-130		%REC	321954	1	09/04/2021 15:34	OM
Surr: Dibromofluoromethane	99.2	70-130		%REC	321954	1	09/10/2021 15:57	CM
Surr: Toluene-d8	101	70-130		%REC	321954	1	09/10/2021 15:57	CM
Surr: Toluene-d8	99.3	70-130		%REC	321954	50	09/10/2021 16:20	CM
Surr: Toluene-d8	99.6	70-130		%REC	321954	1	09/04/2021 15:34	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:23	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	14	10		ug/L	321860	1	09/09/2021 23:30	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-20
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 10:40:00 AM
Lab ID:	2109338-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:30	DS
Surr: Nitrobenzene-d5	98	63.6-131		%REC	321860	1	09/09/2021 23:30	DS
Surr: 2-Fluorobiphenyl	99.8	51.4-127		%REC	321860	1	09/09/2021 23:30	DS
Surr: 4-Terphenyl-d14	117	43.2-127		%REC	321860	1	09/09/2021 23:30	DS
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 20:41	ST
Surr: 4-Bromofluorobenzene	114	73.6-140		%REC	322002	1	09/08/2021 20:41	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-21
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 11:40:00 AM
Lab ID:	2109338-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321913	1	09/11/2021 07:01	CM
Toluene	BRL	1.0		ug/L	321913	1	09/11/2021 07:01	CM
Ethylbenzene	BRL	1.0		ug/L	321913	1	09/11/2021 07:01	CM
Xylenes, Total	BRL	1.0		ug/L	321913	1	09/11/2021 07:01	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321913	1	09/11/2021 07:01	CM
Naphthalene	BRL	5.0		ug/L	321913	1	09/11/2021 07:01	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321913	1	09/11/2021 07:01	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321913	1	09/11/2021 07:01	CM
tert-Amyl methyl ether	BRL	10		ug/L	321913	1	09/11/2021 07:01	CM
Isopropyl ether	BRL	10		ug/L	321913	1	09/11/2021 07:01	CM
tert-Butyl Alcohol	BRL	100		ug/L	321913	1	09/11/2021 07:01	CM
tert-Amyl alcohol	BRL	100		ug/L	321913	1	09/11/2021 07:01	CM
tert-Butyl formate	BRL	100		ug/L	321913	1	09/11/2021 07:01	CM
Ethanol	BRL	100		ug/L	321913	1	09/11/2021 07:01	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321913	1	09/11/2021 07:01	CM
Surr: 4-Bromofluorobenzene	98.5	70-130		%REC	321913	1	09/11/2021 07:01	CM
Surr: Dibromofluoromethane	99	70-130		%REC	321913	1	09/11/2021 07:01	CM
Surr: Toluene-d8	99.7	70-130		%REC	321913	1	09/11/2021 07:01	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 17:30	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 23:55	DS
Surr: Nitrobenzene-d5	97.1	63.6-131		%REC	321860	1	09/09/2021 23:55	DS
Surr: 2-Fluorobiphenyl	102	51.4-127		%REC	321860	1	09/09/2021 23:55	DS
Surr: 4-Terphenyl-d14	117	43.2-127		%REC	321860	1	09/09/2021 23:55	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-21
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 11:40:00 AM
Lab ID:	2109338-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 21:10	ST
Surr: 4-Bromofluorobenzene	98.5	73.6-140		%REC	322002	1	09/08/2021 21:10	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-22
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 9:20:00 AM
Lab ID:	2109338-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 14:47	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 14:47	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 14:47	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 14:47	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 14:47	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 14:47	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 14:47	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 14:47	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 14:47	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 14:47	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 14:47	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 14:47	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 14:47	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 14:47	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 14:47	CM
Surr: 4-Bromofluorobenzene	92.6	70-130		%REC	321885	1	09/04/2021 14:47	CM
Surr: Dibromofluoromethane	98.2	70-130		%REC	321885	1	09/04/2021 14:47	CM
Surr: Toluene-d8	96.3	70-130		%REC	321885	1	09/04/2021 14:47	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:27	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 18:59	DS
Surr: Nitrobenzene-d5	65.4	63.6-131		%REC	321860	1	09/09/2021 18:59	DS
Surr: 2-Fluorobiphenyl	67.5	51.4-127		%REC	321860	1	09/09/2021 18:59	DS
Surr: 4-Terphenyl-d14	86.8	43.2-127		%REC	321860	1	09/09/2021 18:59	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-22
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 9:20:00 AM
Lab ID:	2109338-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 21:39	ST
Surr: 4-Bromofluorobenzene	104	73.6-140		%REC	322002	1	09/08/2021 21:39	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-23
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 10:20:00 AM
Lab ID:	2109338-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 15:08	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 15:08	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 15:08	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 15:08	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 15:08	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 15:08	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 15:08	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:08	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:08	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:08	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 15:08	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 15:08	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 15:08	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 15:08	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 15:08	CM
Surr: 4-Bromofluorobenzene	93.1	70-130		%REC	321885	1	09/04/2021 15:08	CM
Surr: Dibromofluoromethane	98.6	70-130		%REC	321885	1	09/04/2021 15:08	CM
Surr: Toluene-d8	96.2	70-130		%REC	321885	1	09/04/2021 15:08	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:30	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Fluorene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Anthracene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Pyrene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Chrysene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/10/2021 00:21	DS
Surr: Nitrobenzene-d5	88.5	63.6-131		%REC	321860	1	09/10/2021 00:21	DS
Surr: 2-Fluorobiphenyl	89.8	51.4-127		%REC	321860	1	09/10/2021 00:21	DS
Surr: 4-Terphenyl-d14	108	43.2-127		%REC	321860	1	09/10/2021 00:21	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-23
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 10:20:00 AM
Lab ID:	2109338-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 22:08	ST
Surr: 4-Bromofluorobenzene	97	73.6-140		%REC	322002	1	09/08/2021 22:08	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-24
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 9:40:00 AM
Lab ID:	2109338-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 15:28	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 15:28	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 15:28	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 15:28	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 15:28	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 15:28	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 15:28	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:28	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:28	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:28	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 15:28	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 15:28	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 15:28	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 15:28	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 15:28	CM
Surr: 4-Bromofluorobenzene	92.1	70-130		%REC	321885	1	09/04/2021 15:28	CM
Surr: Dibromofluoromethane	98.4	70-130		%REC	321885	1	09/04/2021 15:28	CM
Surr: Toluene-d8	95.7	70-130		%REC	321885	1	09/04/2021 15:28	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:34	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 20:59	DS
Surr: Nitrobenzene-d5	65.9	63.6-131		%REC	321860	1	09/09/2021 20:59	DS
Surr: 2-Fluorobiphenyl	74.1	51.4-127		%REC	321860	1	09/09/2021 20:59	DS
Surr: 4-Terphenyl-d14	103	43.2-127		%REC	321860	1	09/09/2021 20:59	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-24
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 9:40:00 AM
Lab ID:	2109338-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 22:36	ST
Surr: 4-Bromofluorobenzene	106	73.6-140		%REC	322002	1	09/08/2021 22:36	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-25
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 8:20:00 AM
Lab ID:	2109338-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 15:49	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 15:49	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 15:49	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 15:49	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 15:49	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 15:49	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 15:49	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:49	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:49	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 15:49	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 15:49	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 15:49	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 15:49	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 15:49	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 15:49	CM
Surr: 4-Bromofluorobenzene	93.5	70-130		%REC	321885	1	09/04/2021 15:49	CM
Surr: Dibromofluoromethane	98.5	70-130		%REC	321885	1	09/04/2021 15:49	CM
Surr: Toluene-d8	95.7	70-130		%REC	321885	1	09/04/2021 15:49	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:37	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 21:24	DS
Surr: Nitrobenzene-d5	84.9	63.6-131		%REC	321860	1	09/09/2021 21:24	DS
Surr: 2-Fluorobiphenyl	91	51.4-127		%REC	321860	1	09/09/2021 21:24	DS
Surr: 4-Terphenyl-d14	94.7	43.2-127		%REC	321860	1	09/09/2021 21:24	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-MW-25
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 8:20:00 AM
Lab ID:	2109338-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 23:05	ST
Surr: 4-Bromofluorobenzene	89.8	73.6-140		%REC	322002	1	09/08/2021 23:05	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-DW-2
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 8:40:00 AM
Lab ID:	2109338-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 16:10	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 16:10	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 16:10	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 16:10	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 16:10	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 16:10	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 16:10	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 16:10	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 16:10	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 16:10	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 16:10	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 16:10	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 16:10	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 16:10	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 16:10	CM
Surr: 4-Bromofluorobenzene	92.9	70-130		%REC	321885	1	09/04/2021 16:10	CM
Surr: Dibromofluoromethane	98.8	70-130		%REC	321885	1	09/04/2021 16:10	CM
Surr: Toluene-d8	95.9	70-130		%REC	321885	1	09/04/2021 16:10	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 18:41	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 21:49	DS
Surr: Nitrobenzene-d5	102	63.6-131		%REC	321860	1	09/09/2021 21:49	DS
Surr: 2-Fluorobiphenyl	102	51.4-127		%REC	321860	1	09/09/2021 21:49	DS
Surr: 4-Terphenyl-d14	104	43.2-127		%REC	321860	1	09/09/2021 21:49	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-DW-2
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 8:40:00 AM
Lab ID:	2109338-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/08/2021 23:34	ST
Surr: 4-Bromofluorobenzene	108	73.6-140		%REC	322002	1	09/08/2021 23:34	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-DW-3
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 9:00:00 AM
Lab ID:	2109338-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321954	1	09/04/2021 15:57	OM
Toluene	BRL	1.0		ug/L	321954	1	09/04/2021 15:57	OM
Ethylbenzene	BRL	1.0		ug/L	321954	1	09/04/2021 15:57	OM
Xylenes, Total	BRL	1.0		ug/L	321954	1	09/04/2021 15:57	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 15:57	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 15:57	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 15:57	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 15:57	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 15:57	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 15:57	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 15:57	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 15:57	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 15:57	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 15:57	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 15:57	OM
Surr: 4-Bromofluorobenzene	92.1	70-130		%REC	321954	1	09/04/2021 15:57	OM
Surr: Dibromofluoromethane	97	70-130		%REC	321954	1	09/04/2021 15:57	OM
Surr: Toluene-d8	97.4	70-130		%REC	321954	1	09/04/2021 15:57	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 19:10	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Fluorene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Anthracene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Pyrene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Chrysene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/09/2021 22:14	DS
Surr: Nitrobenzene-d5	96.6	63.6-131		%REC	321860	1	09/09/2021 22:14	DS
Surr: 2-Fluorobiphenyl	106	51.4-127		%REC	321860	1	09/09/2021 22:14	DS
Surr: 4-Terphenyl-d14	103	43.2-127		%REC	321860	1	09/09/2021 22:14	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-DW-3
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 9:00:00 AM
Lab ID:	2109338-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.019		ug/L	322002	1	09/09/2021 00:03	ST
Surr: 4-Bromofluorobenzene	104	73.6-140		%REC	322002	1	09/09/2021 00:03	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-DW-4
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 10:00:00 AM
Lab ID:	2109338-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321954	1	09/04/2021 16:21	OM
Toluene	BRL	1.0		ug/L	321954	1	09/04/2021 16:21	OM
Ethylbenzene	BRL	1.0		ug/L	321954	1	09/04/2021 16:21	OM
Xylenes, Total	BRL	1.0		ug/L	321954	1	09/04/2021 16:21	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 16:21	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 16:21	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 16:21	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 16:21	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 16:21	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 16:21	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 16:21	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 16:21	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 16:21	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 16:21	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 16:21	OM
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	321954	1	09/04/2021 16:21	OM
Surr: Dibromofluoromethane	97.4	70-130		%REC	321954	1	09/04/2021 16:21	OM
Surr: Toluene-d8	98.3	70-130		%REC	321954	1	09/04/2021 16:21	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 19:13	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Fluorene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Anthracene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Pyrene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Chrysene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/10/2021 00:46	DS
Surr: Nitrobenzene-d5	92.1	63.6-131		%REC	321860	1	09/10/2021 00:46	DS
Surr: 2-Fluorobiphenyl	95.7	51.4-127		%REC	321860	1	09/10/2021 00:46	DS
Surr: 4-Terphenyl-d14	111	43.2-127		%REC	321860	1	09/10/2021 00:46	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-DW-4
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 10:00:00 AM
Lab ID:	2109338-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/09/2021 00:31	ST
Surr: 4-Bromofluorobenzene	97.9	73.6-140		%REC	322002	1	09/09/2021 00:31	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-1
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 1:00:00 PM
Lab ID:	2109338-013	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321954	1	09/04/2021 16:44	OM
Toluene	BRL	1.0		ug/L	321954	1	09/04/2021 16:44	OM
Ethylbenzene	BRL	1.0		ug/L	321954	1	09/04/2021 16:44	OM
Xylenes, Total	BRL	1.0		ug/L	321954	1	09/04/2021 16:44	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 16:44	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 16:44	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 16:44	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 16:44	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 16:44	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 16:44	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 16:44	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 16:44	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 16:44	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 16:44	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 16:44	OM
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	321954	1	09/04/2021 16:44	OM
Surr: Dibromofluoromethane	97	70-130		%REC	321954	1	09/04/2021 16:44	OM
Surr: Toluene-d8	98	70-130		%REC	321954	1	09/04/2021 16:44	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	2.06	1.00		ug/L	321932	1	09/11/2021 19:17	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Fluorene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Anthracene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Pyrene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Chrysene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/10/2021 01:12	DS
Surr: Nitrobenzene-d5	94	63.6-131		%REC	321860	1	09/10/2021 01:12	DS
Surr: 2-Fluorobiphenyl	91.8	51.4-127		%REC	321860	1	09/10/2021 01:12	DS
Surr: 4-Terphenyl-d14	109	43.2-127		%REC	321860	1	09/10/2021 01:12	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-1
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 1:00:00 PM
Lab ID:	2109338-013	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.019		ug/L	322002	1	09/09/2021 01:29	ST
Surr: 4-Bromofluorobenzene	137	73.6-140		%REC	322002	1	09/09/2021 01:29	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-2
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 12:45:00 PM
Lab ID:	2109338-014	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	4.7	1.0		ug/L	321954	1	09/04/2021 17:07	OM
Toluene	BRL	1.0		ug/L	321954	1	09/04/2021 17:07	OM
Ethylbenzene	BRL	1.0		ug/L	321954	1	09/04/2021 17:07	OM
Xylenes, Total	2.1	1.0		ug/L	321954	1	09/04/2021 17:07	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 17:07	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 17:07	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 17:07	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:07	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:07	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:07	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 17:07	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 17:07	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 17:07	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 17:07	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 17:07	OM
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	321954	1	09/04/2021 17:07	OM
Surr: Dibromofluoromethane	97.6	70-130		%REC	321954	1	09/04/2021 17:07	OM
Surr: Toluene-d8	96.6	70-130		%REC	321954	1	09/04/2021 17:07	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	30.2	1.00		ug/L	321932	1	09/11/2021 19:20	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Fluorene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Anthracene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Pyrene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Chrysene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/10/2021 01:37	DS
Surr: Nitrobenzene-d5	96.1	63.6-131		%REC	321860	1	09/10/2021 01:37	DS
Surr: 2-Fluorobiphenyl	98.6	51.4-127		%REC	321860	1	09/10/2021 01:37	DS
Surr: 4-Terphenyl-d14	115	43.2-127		%REC	321860	1	09/10/2021 01:37	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-2
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 12:45:00 PM
Lab ID:	2109338-014	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/09/2021 01:58	ST
Surr: 4-Bromofluorobenzene	95.3	73.6-140		%REC	322002	1	09/09/2021 01:58	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-3
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 12:30:00 PM
Lab ID:	2109338-015	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	3.2	1.0		ug/L	321954	1	09/04/2021 17:31	OM
Toluene	2.1	1.0		ug/L	321954	1	09/04/2021 17:31	OM
Ethylbenzene	BRL	1.0		ug/L	321954	1	09/04/2021 17:31	OM
Xylenes, Total	3.6	1.0		ug/L	321954	1	09/04/2021 17:31	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 17:31	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 17:31	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 17:31	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:31	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:31	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:31	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 17:31	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 17:31	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 17:31	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 17:31	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 17:31	OM
Surr: 4-Bromofluorobenzene	95.4	70-130		%REC	321954	1	09/04/2021 17:31	OM
Surr: Dibromofluoromethane	98	70-130		%REC	321954	1	09/04/2021 17:31	OM
Surr: Toluene-d8	98.8	70-130		%REC	321954	1	09/04/2021 17:31	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	93.1	1.00		ug/L	321932	1	09/11/2021 19:24	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Fluorene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Chrysene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:02	DS
Surr: Nitrobenzene-d5	89.6	63.6-131		%REC	321860	1	09/10/2021 02:02	DS
Surr: 2-Fluorobiphenyl	88.4	51.4-127		%REC	321860	1	09/10/2021 02:02	DS
Surr: 4-Terphenyl-d14	97.8	43.2-127		%REC	321860	1	09/10/2021 02:02	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-3
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 12:30:00 PM
Lab ID:	2109338-015	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/09/2021 02:27	ST
Surr: 4-Bromofluorobenzene	93.9	73.6-140		%REC	322002	1	09/09/2021 02:27	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-5
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 12:00:00 PM
Lab ID:	2109338-016	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321954	1	09/04/2021 17:54	OM
Toluene	BRL	1.0		ug/L	321954	1	09/04/2021 17:54	OM
Ethylbenzene	BRL	1.0		ug/L	321954	1	09/04/2021 17:54	OM
Xylenes, Total	BRL	1.0		ug/L	321954	1	09/04/2021 17:54	OM
Methyl tert-butyl ether	BRL	1.0		ug/L	321954	1	09/04/2021 17:54	OM
Naphthalene	BRL	5.0		ug/L	321954	1	09/04/2021 17:54	OM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 17:54	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:54	OM
tert-Amyl methyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:54	OM
Isopropyl ether	BRL	10		ug/L	321954	1	09/04/2021 17:54	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 17:54	OM
tert-Amyl alcohol	BRL	100		ug/L	321954	1	09/04/2021 17:54	OM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 17:54	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 17:54	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 17:54	OM
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	321954	1	09/04/2021 17:54	OM
Surr: Dibromofluoromethane	97.5	70-130		%REC	321954	1	09/04/2021 17:54	OM
Surr: Toluene-d8	97.5	70-130		%REC	321954	1	09/04/2021 17:54	OM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	16.8	1.00		ug/L	321932	1	09/11/2021 19:27	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Fluorene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Chrysene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:28	DS
Surr: Nitrobenzene-d5	91.8	63.6-131		%REC	321860	1	09/10/2021 02:28	DS
Surr: 2-Fluorobiphenyl	93	51.4-127		%REC	321860	1	09/10/2021 02:28	DS
Surr: 4-Terphenyl-d14	101	43.2-127		%REC	321860	1	09/10/2021 02:28	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-5
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 12:00:00 PM
Lab ID:	2109338-016	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/09/2021 12:09	ST
Surr: 4-Bromofluorobenzene	95.8	73.6-140		%REC	322002	1	09/09/2021 12:09	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-6
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 12:15:00 PM
Lab ID:	2109338-017	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321913	1	09/11/2021 07:25	CM
Toluene	BRL	1.0		ug/L	321913	1	09/11/2021 07:25	CM
Ethylbenzene	BRL	1.0		ug/L	321913	1	09/11/2021 07:25	CM
Xylenes, Total	BRL	1.0		ug/L	321913	1	09/11/2021 07:25	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321913	1	09/11/2021 07:25	CM
Naphthalene	BRL	5.0		ug/L	321913	1	09/11/2021 07:25	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321913	1	09/11/2021 07:25	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321913	1	09/11/2021 07:25	CM
tert-Amyl methyl ether	BRL	10		ug/L	321913	1	09/11/2021 07:25	CM
Isopropyl ether	BRL	10		ug/L	321913	1	09/11/2021 07:25	CM
tert-Butyl Alcohol	BRL	100		ug/L	321913	1	09/11/2021 07:25	CM
tert-Amyl alcohol	BRL	100		ug/L	321913	1	09/11/2021 07:25	CM
tert-Butyl formate	BRL	100		ug/L	321913	1	09/11/2021 07:25	CM
Ethanol	BRL	100		ug/L	321913	1	09/11/2021 07:25	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321913	1	09/11/2021 07:25	CM
Surr: 4-Bromofluorobenzene	98.7	70-130		%REC	321913	1	09/11/2021 07:25	CM
Surr: Dibromofluoromethane	100	70-130		%REC	321913	1	09/11/2021 07:25	CM
Surr: Toluene-d8	99.5	70-130		%REC	321913	1	09/11/2021 07:25	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	6.53	1.00		ug/L	321932	1	09/11/2021 19:31	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Fluorene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Chrysene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/10/2021 02:53	DS
Surr: Nitrobenzene-d5	91.3	63.6-131		%REC	321860	1	09/10/2021 02:53	DS
Surr: 2-Fluorobiphenyl	91.9	51.4-127		%REC	321860	1	09/10/2021 02:53	DS
Surr: 4-Terphenyl-d14	106	43.2-127		%REC	321860	1	09/10/2021 02:53	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-SW-6
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 12:15:00 PM
Lab ID:	2109338-017	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/09/2021 03:24	ST
Surr: 4-Bromofluorobenzene	85.6	73.6-140		%REC	322002	1	09/09/2021 03:24	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-DUP-2
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 10:45:00 AM
Lab ID:	2109338-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	2300	50		ug/L	321954	50	09/10/2021 22:31	CM
Toluene	27	1.0		ug/L	321954	1	09/04/2021 18:17	OM
Ethylbenzene	3.1	1.0		ug/L	321954	1	09/04/2021 18:17	OM
Xylenes, Total	68	1.0		ug/L	321954	1	09/04/2021 18:17	OM
Methyl tert-butyl ether	150	1.0		ug/L	321954	1	09/04/2021 18:17	OM
Naphthalene	99	5.0		ug/L	321954	1	09/10/2021 22:08	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321954	1	09/04/2021 18:17	OM
Ethyl tert-butyl ether	BRL	10		ug/L	321954	1	09/04/2021 18:17	OM
tert-Amyl methyl ether	33	10		ug/L	321954	1	09/04/2021 18:17	OM
Isopropyl ether	370	10		ug/L	321954	1	09/04/2021 18:17	OM
tert-Butyl Alcohol	BRL	100		ug/L	321954	1	09/04/2021 18:17	OM
tert-Amyl alcohol	500	100		ug/L	321954	1	09/10/2021 22:08	CM
tert-Butyl formate	BRL	100		ug/L	321954	1	09/04/2021 18:17	OM
Ethanol	BRL	100		ug/L	321954	1	09/04/2021 18:17	OM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321954	1	09/04/2021 18:17	OM
Surr: 4-Bromofluorobenzene	99	70-130		%REC	321954	50	09/10/2021 22:31	CM
Surr: 4-Bromofluorobenzene	94.8	70-130		%REC	321954	1	09/04/2021 18:17	OM
Surr: 4-Bromofluorobenzene	99.8	70-130		%REC	321954	1	09/10/2021 22:08	CM
Surr: Dibromofluoromethane	99.5	70-130		%REC	321954	50	09/10/2021 22:31	CM
Surr: Dibromofluoromethane	94.4	70-130		%REC	321954	1	09/04/2021 18:17	OM
Surr: Dibromofluoromethane	98.4	70-130		%REC	321954	1	09/10/2021 22:08	CM
Surr: Toluene-d8	99.9	70-130		%REC	321954	50	09/10/2021 22:31	CM
Surr: Toluene-d8	100	70-130		%REC	321954	1	09/04/2021 18:17	OM
Surr: Toluene-d8	100	70-130		%REC	321954	1	09/10/2021 22:08	CM
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Lead	BRL	1.00		ug/L	321932	1	09/11/2021 19:34	EA
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Naphthalene	20	10		ug/L	321860	1	09/10/2021 03:18	DS
Acenaphthylene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
1-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
2-Methylnaphthalene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Acenaphthene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Fluorene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Phenanthrene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Anthracene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Pyrene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Benz(a)anthracene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Chrysene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Benzo(b)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Benzo(k)fluoranthene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Benzo(a)pyrene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Dibenz(a,h)anthracene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-DUP-2
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 10:45:00 AM
Lab ID:	2109338-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270E				**(SW3510C)**				
Benzo(g,h,i)perylene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	321860	1	09/10/2021 03:18	DS
Surr: Nitrobenzene-d5	90.5	63.6-131		%REC	321860	1	09/10/2021 03:18	DS
Surr: 2-Fluorobiphenyl	93.2	51.4-127		%REC	321860	1	09/10/2021 03:18	DS
Surr: 4-Terphenyl-d14	101	43.2-127		%REC	321860	1	09/10/2021 03:18	DS
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/09/2021 03:53	ST
Surr: 4-Bromofluorobenzene	116	73.6-140		%REC	322002	1	09/09/2021 03:53	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-FIELD BLANK-2
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021 1:10:00 PM
Lab ID:	2109338-019	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 12:00	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 12:00	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 12:00	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 12:00	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 12:00	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 12:00	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 12:00	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 12:00	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 12:00	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 12:00	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 12:00	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 12:00	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 12:00	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 12:00	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 12:00	CM
Surr: 4-Bromofluorobenzene	92.4	70-130		%REC	321885	1	09/04/2021 12:00	CM
Surr: Dibromofluoromethane	98.5	70-130		%REC	321885	1	09/04/2021 12:00	CM
Surr: Toluene-d8	96	70-130		%REC	321885	1	09/04/2021 12:00	CM
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011				**(SW8011)**				
1,2-Dibromoethane	BRL	0.020		ug/L	322002	1	09/09/2021 04:22	ST
Surr: 4-Bromofluorobenzene	94.3	73.6-140		%REC	322002	1	09/09/2021 04:22	ST

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-TRIP BLANK
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021
Lab ID:	2109338-020	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 09:34	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 09:34	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 09:34	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 09:34	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 09:34	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 09:34	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 09:34	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 09:34	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 09:34	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 09:34	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 09:34	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 09:34	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 09:34	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 09:34	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 09:34	CM
Surr: 4-Bromofluorobenzene	91.9	70-130		%REC	321885	1	09/04/2021 09:34	CM
Surr: Dibromofluoromethane	97.3	70-130		%REC	321885	1	09/04/2021 09:34	CM
Surr: Toluene-d8	95.3	70-130		%REC	321885	1	09/04/2021 09:34	CM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-TRIP BLANK 2
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021
Lab ID:	2109338-021	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 09:55	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 09:55	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 09:55	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 09:55	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 09:55	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 09:55	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 09:55	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 09:55	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 09:55	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 09:55	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 09:55	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 09:55	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 09:55	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 09:55	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 09:55	CM
Surr: 4-Bromofluorobenzene	91.8	70-130		%REC	321885	1	09/04/2021 09:55	CM
Surr: Dibromofluoromethane	97.4	70-130		%REC	321885	1	09/04/2021 09:55	CM
Surr: Toluene-d8	95.1	70-130		%REC	321885	1	09/04/2021 09:55	CM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-TRIP BLANK 3
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021
Lab ID:	2109338-022	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 10:16	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 10:16	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 10:16	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 10:16	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 10:16	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 10:16	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 10:16	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 10:16	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 10:16	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 10:16	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 10:16	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 10:16	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 10:16	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 10:16	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 10:16	CM
Surr: 4-Bromofluorobenzene	92	70-130		%REC	321885	1	09/04/2021 10:16	CM
Surr: Dibromofluoromethane	96.9	70-130		%REC	321885	1	09/04/2021 10:16	CM
Surr: Toluene-d8	95.6	70-130		%REC	321885	1	09/04/2021 10:16	CM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Sep-21

Client:	KLM Environmental, LLC	**Client Sample ID:**	#04785-TRIP BLANK 4
Project Name:	Quick Pantry # 19	**Collection Date:**	9/2/2021
Lab ID:	2109338-023	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS				**(SW5030B)**				
Benzene	BRL	1.0		ug/L	321885	1	09/04/2021 10:37	CM
Toluene	BRL	1.0		ug/L	321885	1	09/04/2021 10:37	CM
Ethylbenzene	BRL	1.0		ug/L	321885	1	09/04/2021 10:37	CM
Xylenes, Total	BRL	1.0		ug/L	321885	1	09/04/2021 10:37	CM
Methyl tert-butyl ether	BRL	1.0		ug/L	321885	1	09/04/2021 10:37	CM
Naphthalene	BRL	5.0		ug/L	321885	1	09/04/2021 10:37	CM
1,2-Dichloroethane	BRL	1.0		ug/L	321885	1	09/04/2021 10:37	CM
Ethyl tert-butyl ether	BRL	10		ug/L	321885	1	09/04/2021 10:37	CM
tert-Amyl methyl ether	BRL	10		ug/L	321885	1	09/04/2021 10:37	CM
Isopropyl ether	BRL	10		ug/L	321885	1	09/04/2021 10:37	CM
tert-Butyl Alcohol	BRL	100		ug/L	321885	1	09/04/2021 10:37	CM
tert-Amyl alcohol	BRL	100		ug/L	321885	1	09/04/2021 10:37	CM
tert-Butyl formate	BRL	100		ug/L	321885	1	09/04/2021 10:37	CM
Ethanol	BRL	100		ug/L	321885	1	09/04/2021 10:37	CM
3,3-Dimethyl-1-butanol	BRL	100		ug/L	321885	1	09/04/2021 10:37	CM
Surr: 4-Bromofluorobenzene	93.1	70-130		%REC	321885	1	09/04/2021 10:37	CM
Surr: Dibromofluoromethane	97.4	70-130		%REC	321885	1	09/04/2021 10:37	CM
Surr: Toluene-d8	95.5	70-130		%REC	321885	1	09/04/2021 10:37	CM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	F	Analyzed in the lab which is a deviation from the method
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Sep-21

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Lab Order: 2109338

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2109338-001A	#04785-MW-15	9/2/2021 11:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-001B	#04785-MW-15	9/2/2021 11:20:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-001C	#04785-MW-15	9/2/2021 11:20:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-001D	#04785-MW-15	9/2/2021 11:20:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/09/2021
2109338-002A	#04785-MW-16	9/2/2021 11:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-002B	#04785-MW-16	9/2/2021 11:00:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-002C	#04785-MW-16	9/2/2021 11:00:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-002D	#04785-MW-16	9/2/2021 11:00:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/09/2021
2109338-003A	#04785-MW-19	9/2/2021 8:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-003B	#04785-MW-19	9/2/2021 8:00:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-003C	#04785-MW-19	9/2/2021 8:00:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-003D	#04785-MW-19	9/2/2021 8:00:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/8/2021 11:08:05AM	09/09/2021
2109338-004A	#04785-MW-20	9/2/2021 10:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-004A	#04785-MW-20	9/2/2021 10:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/10/2021
2109338-004B	#04785-MW-20	9/2/2021 10:40:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-004C	#04785-MW-20	9/2/2021 10:40:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-004D	#04785-MW-20	9/2/2021 10:40:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/09/2021
2109338-005A	#04785-MW-21	9/2/2021 11:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/3/2021 8:15:00AM	09/11/2021
2109338-005B	#04785-MW-21	9/2/2021 11:40:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-005C	#04785-MW-21	9/2/2021 11:40:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-005D	#04785-MW-21	9/2/2021 11:40:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/09/2021
2109338-006A	#04785-MW-22	9/2/2021 9:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-006B	#04785-MW-22	9/2/2021 9:20:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-006C	#04785-MW-22	9/2/2021 9:20:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-006D	#04785-MW-22	9/2/2021 9:20:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/8/2021 11:08:05AM	09/09/2021
2109338-007A	#04785-MW-23	9/2/2021 10:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-007B	#04785-MW-23	9/2/2021 10:20:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-007C	#04785-MW-23	9/2/2021 10:20:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-007D	#04785-MW-23	9/2/2021 10:20:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/10/2021

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Lab Order: 2109338

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2109338-008A	#04785-MW-24	9/2/2021 9:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-008B	#04785-MW-24	9/2/2021 9:40:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-008C	#04785-MW-24	9/2/2021 9:40:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-008D	#04785-MW-24	9/2/2021 9:40:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/8/2021 11:08:05AM	09/09/2021
2109338-009A	#04785-MW-25	9/2/2021 8:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-009B	#04785-MW-25	9/2/2021 8:20:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-009C	#04785-MW-25	9/2/2021 8:20:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-009D	#04785-MW-25	9/2/2021 8:20:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/8/2021 11:08:05AM	09/09/2021
2109338-010A	#04785-DW-2	9/2/2021 8:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-010B	#04785-DW-2	9/2/2021 8:40:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/08/2021
2109338-010C	#04785-DW-2	9/2/2021 8:40:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-010D	#04785-DW-2	9/2/2021 8:40:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/8/2021 11:08:05AM	09/09/2021
2109338-011A	#04785-DW-3	9/2/2021 9:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-011B	#04785-DW-3	9/2/2021 9:00:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-011C	#04785-DW-3	9/2/2021 9:00:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-011D	#04785-DW-3	9/2/2021 9:00:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/8/2021 11:08:05AM	09/09/2021
2109338-012A	#04785-DW-4	9/2/2021 10:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-012B	#04785-DW-4	9/2/2021 10:00:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-012C	#04785-DW-4	9/2/2021 10:00:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-012D	#04785-DW-4	9/2/2021 10:00:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/10/2021
2109338-013A	#04785-SW-1	9/2/2021 1:00:00PM	Surface Water	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-013B	#04785-SW-1	9/2/2021 1:00:00PM	Surface Water	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-013C	#04785-SW-1	9/2/2021 1:00:00PM	Surface Water	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-013D	#04785-SW-1	9/2/2021 1:00:00PM	Surface Water	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/10/2021
2109338-014A	#04785-SW-2	9/2/2021 12:45:00PM	Surface Water	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-014B	#04785-SW-2	9/2/2021 12:45:00PM	Surface Water	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-014C	#04785-SW-2	9/2/2021 12:45:00PM	Surface Water	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-014D	#04785-SW-2	9/2/2021 12:45:00PM	Surface Water	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/10/2021
2109338-015A	#04785-SW-3	9/2/2021 12:30:00PM	Surface Water	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021

Analytical Environmental Services, Inc

Date: 22-Sep-21

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Lab Order: 2109338

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2109338-015B	#04785-SW-3	9/2/2021 12:30:00PM	Surface Water	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-015C	#04785-SW-3	9/2/2021 12:30:00PM	Surface Water	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-015D	#04785-SW-3	9/2/2021 12:30:00PM	Surface Water	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/10/2021
2109338-016A	#04785-SW-5	9/2/2021 12:00:00PM	Surface Water	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-016B	#04785-SW-5	9/2/2021 12:00:00PM	Surface Water	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-016C	#04785-SW-5	9/2/2021 12:00:00PM	Surface Water	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-016D	#04785-SW-5	9/2/2021 12:00:00PM	Surface Water	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/10/2021
2109338-017A	#04785-SW-6	9/2/2021 12:15:00PM	Surface Water	Volatile Organic Compounds by GC/MS		9/3/2021 8:15:00AM	09/11/2021
2109338-017B	#04785-SW-6	9/2/2021 12:15:00PM	Surface Water	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-017C	#04785-SW-6	9/2/2021 12:15:00PM	Surface Water	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-017D	#04785-SW-6	9/2/2021 12:15:00PM	Surface Water	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/10/2021
2109338-018A	#04785-DUP-2	9/2/2021 10:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/04/2021
2109338-018A	#04785-DUP-2	9/2/2021 10:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		9/4/2021 10:23:00AM	09/10/2021
2109338-018B	#04785-DUP-2	9/2/2021 10:45:00AM	Groundwater	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-018C	#04785-DUP-2	9/2/2021 10:45:00AM	Groundwater	Total Metals by ICP/MS		9/9/2021 10:20:00AM	09/11/2021
2109338-018D	#04785-DUP-2	9/2/2021 10:45:00AM	Groundwater	POLYNUCLEAR AROMATIC HYDROCAF		9/9/2021 9:08:00AM	09/10/2021
2109338-019A	#04785-FIELD BLANK-2	9/2/2021 1:10:00PM	Aqueous	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-019B	#04785-FIELD BLANK-2	9/2/2021 1:10:00PM	Aqueous	MICRO-EXTRACTABLE VOCs		9/8/2021 11:40:18AM	09/09/2021
2109338-020A	#04785-TRIP BLANK	9/2/2021 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-021A	#04785-TRIP BLANK 2	9/2/2021 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-022A	#04785-TRIP BLANK 3	9/2/2021 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021
2109338-023A	#04785-TRIP BLANK 4	9/2/2021 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		9/4/2021 8:03:00AM	09/04/2021

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: 321860

Sample ID: **MB-321860** Client ID: Units: **ug/L** Prep Date: **09/08/2021** Run No: **464481**
SampleType: **MBLK** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321860** Analysis Date: **09/09/2021** Seq No: **10661429**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	BRL	10									
2-Methylnaphthalene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Chrysene	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Naphthalene	BRL	10									
Phenanthrene	BRL	10									
Pyrene	BRL	10									
Surr: 2-Fluorobiphenyl	38.57	0	50.00		77.1	51.4	127				
Surr: 4-Terphenyl-d14	42.21	0	50.00		84.4	43.2	127				
Surr: Nitrobenzene-d5	41.83	0	50.00		83.7	63.6	131				

Sample ID: **LCS-321860** Client ID: Units: **ug/L** Prep Date: **09/08/2021** Run No: **464481**
SampleType: **LCS** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321860** Analysis Date: **09/09/2021** Seq No: **10661430**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	41.21	10	50.00		82.4	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: 321860

Sample ID: **LCS-321860** Client ID: Units: **ug/L** Prep Date: **09/08/2021** Run No: **464481**
SampleType: **LCS** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321860** Analysis Date: **09/09/2021** Seq No: **10661430**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Methylnaphthalene	40.32	10	50.00		80.6	70	130				
Acenaphthene	39.50	10	50.00		79.0	70	130				
Acenaphthylene	42.13	10	50.00		84.3	70	130				
Anthracene	38.67	10	50.00		77.3	70	130				
Benz(a)anthracene	42.44	10	50.00		84.9	70	130				
Benzo(a)pyrene	40.01	10	50.00		80.0	70	130				
Benzo(b)fluoranthene	40.00	10	50.00		80.0	70	130				
Benzo(g,h,i)perylene	42.80	10	50.00		85.6	70	130				
Benzo(k)fluoranthene	39.42	10	50.00		78.8	70	130				
Chrysene	39.92	10	50.00		79.8	70	130				
Dibenz(a,h)anthracene	42.89	10	50.00		85.8	70	130				
Fluoranthene	41.38	10	50.00		82.8	70	130				
Fluorene	41.50	10	50.00		83.0	70	130				
Indeno(1,2,3-cd)pyrene	43.27	10	50.00		86.5	70	130				
Naphthalene	39.12	10	50.00		78.2	70	130				
Phenanthrene	39.71	10	50.00		79.4	70	130				
Pyrene	38.58	10	50.00		77.2	70	130				
Surr: 2-Fluorobiphenyl	40.73	0	50.00		81.5	51.4	127				
Surr: 4-Terphenyl-d14	42.13	0	50.00		84.3	43.2	127				
Surr: Nitrobenzene-d5	42.59	0	50.00		85.2	63.6	131				

Sample ID: **2109338-006DMS** Client ID: **#04785-MW-22** Units: **ug/L** Prep Date: **09/08/2021** Run No: **464481**
SampleType: **MS** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321860** Analysis Date: **09/09/2021** Seq No: **10661437**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	42.94	10	50.00		85.9	54.2	130				
2-Methylnaphthalene	41.85	10	50.00		83.7	50.8	127				
Acenaphthene	41.41	10	50.00		82.8	64.4	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321860**

Sample ID: **2109338-006DMS** Client ID: **#04785-MW-22** Units: **ug/L** Prep Date: **09/08/2021** Run No: **464481**
SampleType: **MS** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321860** Analysis Date: **09/09/2021** Seq No: **10661437**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthylene	43.51	10	50.00		87.0	63.8	129				
Anthracene	43.86	10	50.00		87.7	73.8	128				
Benz(a)anthracene	49.30	10	50.00		98.6	68	133				
Benzo(a)pyrene	46.86	10	50.00		93.7	70.1	133				
Benzo(b)fluoranthene	43.36	10	50.00		86.7	66	132				
Benzo(g,h,i)perylene	45.16	10	50.00		90.3	69.8	127				
Benzo(k)fluoranthene	45.01	10	50.00		90.0	70.8	131				
Chrysene	45.49	10	50.00		91.0	72.3	130				
Dibenz(a,h)anthracene	48.30	10	50.00		96.6	69	132				
Fluoranthene	47.66	10	50.00		95.3	70.9	133				
Fluorene	45.28	10	50.00		90.6	64.4	130				
Indeno(1,2,3-cd)pyrene	47.52	10	50.00		95.0	73.1	134				
Naphthalene	38.85	10	50.00		77.7	52.5	125				
Phenanthrene	44.80	10	50.00		89.6	69.3	128				
Pyrene	45.67	10	50.00		91.3	65.8	130				
Surr: 2-Fluorobiphenyl	37.82	0	50.00		75.6	51.4	127				
Surr: 4-Terphenyl-d14	45.95	0	50.00		91.9	43.2	127				
Surr: Nitrobenzene-d5	37.98	0	50.00		76.0	63.6	131				

Sample ID: **2109338-006DMSD** Client ID: **#04785-MW-22** Units: **ug/L** Prep Date: **09/08/2021** Run No: **464481**
SampleType: **MSD** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321860** Analysis Date: **09/09/2021** Seq No: **10661438**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1-Methylnaphthalene	49.01	10	50.00		98.0	54.2	130	42.94	13.2	19.1	
2-Methylnaphthalene	47.29	10	50.00		94.6	50.8	127	41.85	12.2	18.9	
Acenaphthene	46.96	10	50.00		93.9	64.4	130	41.41	12.6	17.1	
Acenaphthylene	48.96	10	50.00		97.9	63.8	129	43.51	11.8	20	
Anthracene	46.63	10	50.00		93.3	73.8	128	43.86	6.12	20	

Qualifiers:
- > Greater than Result value
- < Less than Result value
- B Analyte detected in the associated method blank
- BRL Below reporting limit
- E Estimated (value above quantitation range)
- H Holding times for preparation or analysis exceeded
- J Estimated value detected below Reporting Limit
- N Analyte not NELAC certified
- R RPD outside limits due to matrix
- Rpt Lim Reporting Limit
- S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: 321860

Sample ID: **2109338-006DMSD** Client ID: **#04785-MW-22** Units: **ug/L** Prep Date: **09/08/2021** Run No: **464481**
SampleType: **MSD** TestCode: **POLYAROMATIC HYDROCARBONS SW8270E** BatchID: **321860** Analysis Date: **09/09/2021** Seq No: **10661438**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benz(a)anthracene	51.14	10	50.00		102	68	133	49.30	3.66	20	
Benzo(a)pyrene	48.52	10	50.00		97.0	70.1	133	46.86	3.48	20	
Benzo(b)fluoranthene	46.60	10	50.00		93.2	66	132	43.36	7.20	20	
Benzo(g,h,i)perylene	47.43	10	50.00		94.9	69.8	127	45.16	4.90	18.7	
Benzo(k)fluoranthene	46.21	10	50.00		92.4	70.8	131	45.01	2.63	20	
Chrysene	48.66	10	50.00		97.3	72.3	130	45.49	6.73	20	
Dibenz(a,h)anthracene	51.76	10	50.00		104	69	132	48.30	6.92	19	
Fluoranthene	50.68	10	50.00		101	70.9	133	47.66	6.14	20	
Fluorene	49.50	10	50.00		99.0	64.4	130	45.28	8.90	17.4	
Indeno(1,2,3-cd)pyrene	50.75	10	50.00		102	73.1	134	47.52	6.57	20	
Naphthalene	46.07	10	50.00		92.1	52.5	125	38.85	17.0	19.9	
Phenanthrene	47.41	10	50.00		94.8	69.3	128	44.80	5.66	20	
Pyrene	47.90	10	50.00		95.8	65.8	130	45.67	4.77	20	
Surr: 2-Fluorobiphenyl	45.85	0	50.00		91.7	51.4	127	37.82	0	0	
Surr: 4-Terphenyl-d14	48.42	0	50.00		96.8	43.2	127	45.95	0	0	
Surr: Nitrobenzene-d5	42.68	0	50.00		85.4	63.6	131	37.98	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321885**

Sample ID: **MB-321885** Client ID: Units: **ug/L** Prep Date: **09/04/2021** Run No: **464104**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321885** Analysis Date: **09/04/2021** Seq No: **10653125**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
3,3-Dimethyl-1-butanol	BRL	100									
Benzene	BRL	1.0									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	10									
Ethylbenzene	BRL	1.0									
Isopropyl ether	BRL	10									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	46.27	0	50.00		92.5	70	130				
Surr: Dibromofluoromethane	48.50	0	50.00		97.0	70	130				
Surr: Toluene-d8	47.95	0	50.00		95.9	70	130				

Sample ID: **LCS-321885** Client ID: Units: **ug/L** Prep Date: **09/04/2021** Run No: **464104**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321885** Analysis Date: **09/04/2021** Seq No: **10653126**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	50.04	1.0	50.00		100	70	130				
3,3-Dimethyl-1-butanol	544.2	100	500.0		109	70	130				
Benzene	50.67	1.0	50.00		101	70	130				
Ethanol	650.9	100	500.0		130	70	130				S
Ethyl tert-butyl ether	90.95	10	100.0		91.0	70	130				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: 321885

Sample ID: **LCS-321885** Client ID: Units: **ug/L** Prep Date: **09/04/2021** Run No: **464104**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321885** Analysis Date: **09/04/2021** Seq No: **10653126**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	56.42	1.0	50.00		113	70	130				
Isopropyl ether	81.35	10	100.0		81.4	70	130				
Methyl tert-butyl ether	47.63	1.0	50.00		95.3	70	130				
Naphthalene	69.39	5.0	50.00		139	70	130				S
tert-Amyl alcohol	468.3	100	500.0		93.7	70	130				
tert-Amyl methyl ether	93.52	10	100.0		93.5	70	130				
tert-Butyl Alcohol	485.2	100	500.0		97.0	70	130				
tert-Butyl formate	449.2	100	500.0		89.8	70	130				
Toluene	49.50	1.0	50.00		99.0	70	130				
Xylenes, Total	167.2	1.0	150.0		111	70	130				
Surr: 4-Bromofluorobenzene	46.23	0	50.00		92.5	70	130				
Surr: Dibromofluoromethane	48.29	0	50.00		96.6	70	130				
Surr: Toluene-d8	48.04	0	50.00		96.1	70	130				

Sample ID: **2109338-007AMS** Client ID: **#04785-MW-23** Units: **ug/L** Prep Date: **09/04/2021** Run No: **464104**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321885** Analysis Date: **09/10/2021** Seq No: **10661803**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	50.26	1.0	50.00		101	72.1	135				
3,3-Dimethyl-1-butanol	583.1	100	500.0		117	60.1	130				
Benzene	49.31	1.0	50.00		98.6	70.5	136				
Ethanol	726.3	100	500.0		145	61.9	140				S
Ethyl tert-butyl ether	101.6	10	100.0		102	71.2	122				
Ethylbenzene	51.16	1.0	50.00		102	70	134				
Isopropyl ether	100.4	10	100.0		100	71	133				
Methyl tert-butyl ether	50.32	1.0	50.00		101	65.7	136				
Naphthalene	52.98	5.0	50.00		106	58.6	135				
tert-Amyl alcohol	605.0	100	500.0		121	69.7	140				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321885**

Sample ID: **2109338-007AMS** Client ID: **#04785-MW-23** Units: **ug/L** Prep Date: **09/04/2021** Run No: **464104**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321885** Analysis Date: **09/10/2021** Seq No: **10661803**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl methyl ether	100.7	10	100.0		101	70.1	126				
tert-Butyl Alcohol	621.2	100	500.0		124	67	140				
tert-Butyl formate	380.8	100	500.0		76.2	60	134				
Toluene	48.00	1.0	50.00		96.0	66.4	140				
Xylenes, Total	156.2	1.0	150.0		104	65.4	138				
Surr: 4-Bromofluorobenzene	50.03	0	50.00		100	70	130				
Surr: Dibromofluoromethane	50.58	0	50.00		101	70	130				
Surr: Toluene-d8	49.82	0	50.00		99.6	70	130				

Sample ID: **2109338-007AMSD** Client ID: **#04785-MW-23** Units: **ug/L** Prep Date: **09/04/2021** Run No: **464104**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321885** Analysis Date: **09/10/2021** Seq No: **10662109**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	50.90	1.0	50.00		102	72.1	135	50.26	1.27	20	
3,3-Dimethyl-1-butanol	618.8	100	500.0		124	60.1	130	583.1	5.95	25.3	
Benzene	48.48	1.0	50.00		97.0	70.5	136	49.31	1.70	20	
Ethanol	792.1	100	500.0		158	61.9	140	726.3	8.66	29	S
Ethyl tert-butyl ether	105.5	10	100.0		105	71.2	122	101.6	3.76	20	
Ethylbenzene	49.99	1.0	50.00		100.0	70	134	51.16	2.31	20	
Isopropyl ether	102.4	10	100.0		102	71	133	100.4	1.96	20	
Methyl tert-butyl ether	51.63	1.0	50.00		103	65.7	136	50.32	2.57	17.3	
Naphthalene	57.03	5.0	50.00		114	58.6	135	52.98	7.36	22.7	
tert-Amyl alcohol	628.4	100	500.0		126	69.7	140	605.0	3.78	26.8	
tert-Amyl methyl ether	103.4	10	100.0		103	70.1	126	100.7	2.60	20	
tert-Butyl Alcohol	684.5	100	500.0		137	67	140	621.2	9.70	29.4	
tert-Butyl formate	310.1	100	500.0		62.0	60	134	380.8	20.5	18	R
Toluene	47.57	1.0	50.00		95.1	66.4	140	48.00	0.900	20	
Xylenes, Total	153.3	1.0	150.0		102	65.4	138	156.2	1.90	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321885**

Sample ID: **2109338-007AMSD** Client ID: **#04785-MW-23** Units: **ug/L** Prep Date: **09/04/2021** Run No: **464104**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321885** Analysis Date: **09/10/2021** Seq No: **10662109**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	49.99	0	50.00		100.0	70	130	50.03	0	0	
Surr: Dibromofluoromethane	50.73	0	50.00		101	70	130	50.58	0	0	
Surr: Toluene-d8	50.18	0	50.00		100	70	130	49.82	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: 321913

Sample ID: **MB-321913** Client ID: Units: **ug/L** Prep Date: **09/03/2021** Run No: **464079**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321913** Analysis Date: **09/03/2021** Seq No: **10653544**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
3,3-Dimethyl-1-butanol	BRL	100									
Benzene	BRL	1.0									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	10									
Ethylbenzene	BRL	1.0									
Isopropyl ether	BRL	10									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	48.29	0	50.00		96.6	70	130				
Surr: Dibromofluoromethane	47.49	0	50.00		95.0	70	130				
Surr: Toluene-d8	48.92	0	50.00		97.8	70	130				

Sample ID: **LCS-321913** Client ID: Units: **ug/L** Prep Date: **09/03/2021** Run No: **464079**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321913** Analysis Date: **09/03/2021** Seq No: **10653545**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	45.60	1.0	50.00		91.2	70	130				
3,3-Dimethyl-1-butanol	528.3	100	500.0		106	70	130				
Benzene	50.58	1.0	50.00		101	70	130				
Ethanol	473.1	100	500.0		94.6	70	130				
Ethyl tert-butyl ether	112.5	10	100.0		112	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: 321913

Sample ID: **LCS-321913** Client ID: Units: **ug/L** Prep Date: **09/03/2021** Run No: **464079**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321913** Analysis Date: **09/03/2021** Seq No: **10653545**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	49.54	1.0	50.00		99.1	70	130				
Isopropyl ether	113.8	10	100.0		114	70	130				
Methyl tert-butyl ether	52.72	1.0	50.00		105	70	130				
Naphthalene	42.12	5.0	50.00		84.2	70	130				
tert-Amyl alcohol	568.6	100	500.0		114	70	130				
tert-Amyl methyl ether	110.2	10	100.0		110	70	130				
tert-Butyl Alcohol	459.9	100	500.0		92.0	70	130				
tert-Butyl formate	477.3	100	500.0		95.5	70	130				
Toluene	51.13	1.0	50.00		102	70	130				
Xylenes, Total	151.5	1.0	150.0		101	70	130				
Surr: 4-Bromofluorobenzene	48.70	0	50.00		97.4	70	130				
Surr: Dibromofluoromethane	46.77	0	50.00		93.5	70	130				
Surr: Toluene-d8	49.78	0	50.00		99.6	70	130				

Sample ID: **2108Y13-003AMS** Client ID: Units: **ug/L** Prep Date: **09/03/2021** Run No: **464512**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321913** Analysis Date: **09/10/2021** Seq No: **10663075**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	45.08	1.0	50.00		90.2	72.1	135				
3,3-Dimethyl-1-butanol	503.1	100	500.0		101	60.1	130				
Benzene	45.95	1.0	50.00		91.9	70.5	136				
Ethanol	583.5	100	500.0		117	61.9	140				
Ethyl tert-butyl ether	93.90	10	100.0		93.9	71.2	122				
Ethylbenzene	47.29	1.0	50.00		94.6	70	134				
Isopropyl ether	92.68	10	100.0		92.7	71	133				
Methyl tert-butyl ether	46.15	1.0	50.00		92.3	65.7	136				
Naphthalene	47.57	5.0	50.00		95.1	58.6	135				
tert-Amyl alcohol	516.9	100	500.0		103	69.7	140				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321913**

Sample ID: **2108Y13-003AMS** Client ID: Units: **ug/L** Prep Date: **09/03/2021** Run No: **464512**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321913** Analysis Date: **09/10/2021** Seq No: **10663075**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl methyl ether	92.58	10	100.0		92.6	70.1	126				
tert-Butyl Alcohol	514.7	100	500.0		103	67	140				
tert-Butyl formate	388.4	100	500.0		77.7	60	134				
Toluene	44.68	1.0	50.00		89.4	66.4	140				
Xylenes, Total	142.3	1.0	150.0		94.9	65.4	138				
Surr: 4-Bromofluorobenzene	49.34	0	50.00		98.7	70	130				
Surr: Dibromofluoromethane	49.88	0	50.00		99.8	70	130				
Surr: Toluene-d8	50.05	0	50.00		100	70	130				

Sample ID: **2109399-001ADUP** Client ID: Units: **ug/L** Prep Date: **09/03/2021** Run No: **464512**
SampleType: **DUP** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321913** Analysis Date: **09/10/2021** Seq No: **10663195**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	416.0	100						435.0	4.47	30	
3,3-Dimethyl-1-butanol	BRL	10000						0	0	30	
Benzene	3599	100						4015	10.9	30	
Ethanol	BRL	10000						0	0	30	
Ethyl tert-butyl ether	BRL	1000						0	0	30	
Ethylbenzene	BRL	100						61.00	0	30	
Isopropyl ether	BRL	1000						0	0	30	
Methyl tert-butyl ether	BRL	100						0	0	30	
Naphthalene	BRL	500						0	0	30	
tert-Amyl alcohol	15340	10000						17550	13.4	30	
tert-Amyl methyl ether	BRL	1000						0	0	30	
tert-Butyl Alcohol	BRL	10000						0	0	30	
tert-Butyl formate	BRL	10000						0	0	30	
Toluene	326.0	100						360.0	9.91	30	
Xylenes, Total	418.0	100						446.0	6.48	30	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321913**

Sample ID: **2109399-001ADUP** Client ID: Units: **ug/L** Prep Date: **09/03/2021** Run No: **464512**
SampleType: **DUP** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321913** Analysis Date: **09/10/2021** Seq No: **10663195**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	4962	0						4923	0	30	
Surr: Dibromofluoromethane	4948	0						5027	0	30	
Surr: Toluene-d8	5002	0						5040	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321932**

Sample ID: **MB-321932** Client ID: Units: **ug/L** Prep Date: **09/09/2021** Run No: **464635**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **321932** Analysis Date: **09/11/2021** Seq No: **10665392**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	1.00									

Sample ID: **LCS-321932** Client ID: Units: **ug/L** Prep Date: **09/09/2021** Run No: **464635**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **321932** Analysis Date: **09/11/2021** Seq No: **10665393**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	106.9	1.00	100.0		107	80	120				

Sample ID: **2109338-005CMS** Client ID: **#04785-MW-21** Units: **ug/L** Prep Date: **09/09/2021** Run No: **464635**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **321932** Analysis Date: **09/11/2021** Seq No: **10665400**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	103.6	1.00	100.0		104	75	125				

Sample ID: **2109338-005CMSD** Client ID: **#04785-MW-21** Units: **ug/L** Prep Date: **09/09/2021** Run No: **464635**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **321932** Analysis Date: **09/11/2021** Seq No: **10665406**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	107.4	1.00	100.0		107	75	125	103.6	3.62	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321954**

Sample ID: **MB-321954** Client ID: Units: **ug/L** Prep Date: **09/04/2021** Run No: **464134**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321954** Analysis Date: **09/04/2021** Seq No: **10654711**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
3,3-Dimethyl-1-butanol	BRL	100									
Benzene	BRL	1.0									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	10									
Ethylbenzene	BRL	1.0									
Isopropyl ether	BRL	10									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	47.83	0	50.00		95.7	70	130				
Surr: Dibromofluoromethane	47.05	0	50.00		94.1	70	130				
Surr: Toluene-d8	48.58	0	50.00		97.2	70	130				

Sample ID: **LCS-321954** Client ID: Units: **ug/L** Prep Date: **09/04/2021** Run No: **464134**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321954** Analysis Date: **09/04/2021** Seq No: **10654752**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	44.04	1.0	50.00		88.1	70	130				
3,3-Dimethyl-1-butanol	574.4	100	500.0		115	70	130				
Benzene	49.36	1.0	50.00		98.7	70	130				
Ethanol	595.9	100	500.0		119	70	130				
Ethyl tert-butyl ether	106.9	10	100.0		107	70	130				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: 321954

Sample ID: **LCS-321954** Client ID: Units: **ug/L** Prep Date: **09/04/2021** Run No: **464134**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321954** Analysis Date: **09/04/2021** Seq No: **10654752**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethylbenzene	48.05	1.0	50.00		96.1	70	130				
Isopropyl ether	110.4	10	100.0		110	70	130				
Methyl tert-butyl ether	49.47	1.0	50.00		98.9	70	130				
Naphthalene	38.24	5.0	50.00		76.5	70	130				
tert-Amyl alcohol	615.6	100	500.0		123	70	130				
tert-Amyl methyl ether	105.8	10	100.0		106	70	130				
tert-Butyl Alcohol	533.8	100	500.0		107	70	130				
tert-Butyl formate	467.9	100	500.0		93.6	70	130				
Toluene	50.45	1.0	50.00		101	70	130				
Xylenes, Total	146.2	1.0	150.0		97.4	70	130				
Surr: 4-Bromofluorobenzene	49.07	0	50.00		98.1	70	130				
Surr: Dibromofluoromethane	46.13	0	50.00		92.3	70	130				
Surr: Toluene-d8	49.32	0	50.00		98.6	70	130				

Sample ID: **2109338-004AMS** Client ID: **#04785-MW-20** Units: **ug/L** Prep Date: **09/04/2021** Run No: **464527**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321954** Analysis Date: **09/10/2021** Seq No: **10663796**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	2389	50	2500		95.6	72.1	135				
3,3-Dimethyl-1-butanol	29220	5000	25000		117	60.1	130				
Benzene	4247	50	2500	2152	83.8	70.5	136				
Ethanol	36500	5000	25000		146	61.9	140				S
Ethyl tert-butyl ether	5096	500	5000		102	71.2	122				
Ethylbenzene	2454	50	2500		98.2	70	134				
Isopropyl ether	5348	500	5000	367.0	99.6	71	133				
Methyl tert-butyl ether	2654	50	2500	148.5	100	65.7	136				
Naphthalene	2748	250	2500	104.0	106	58.6	135				
tert-Amyl alcohol	30450	5000	25000		122	69.7	140				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321954**

Sample ID: **2109338-004AMS** Client ID: **#04785-MW-20** Units: **ug/L** Prep Date: **09/04/2021** Run No: **464527**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321954** Analysis Date: **09/10/2021** Seq No: **10663796**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl methyl ether	5001	500	5000		100	70.1	126				
tert-Butyl Alcohol	29290	5000	25000		117	67	140				
tert-Butyl formate	21350	5000	25000		85.4	60	134				
Toluene	2335	50	2500	25.50	92.4	66.4	140				
Xylenes, Total	7449	50	7500	54.00	98.6	65.4	138				
Surr: 4-Bromofluorobenzene	2492	0	2500		99.7	70	130				
Surr: Dibromofluoromethane	2478	0	2500		99.1	70	130				
Surr: Toluene-d8	2486	0	2500		99.5	70	130				

Sample ID: **2109338-004ADUP** Client ID: **#04785-MW-20** Units: **ug/L** Prep Date: **09/04/2021** Run No: **464527**
SampleType: **DUP** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321954** Analysis Date: **09/10/2021** Seq No: **10663878**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	50						0	0	30	
3,3-Dimethyl-1-butanol	BRL	5000						0	0	30	
Benzene	1938	50						2152	10.5	30	
Ethanol	BRL	5000						0	0	30	
Ethyl tert-butyl ether	BRL	500						0	0	30	
Ethylbenzene	BRL	50						0	0	30	
Isopropyl ether	BRL	500						367.0	0	30	
Methyl tert-butyl ether	141.0	50						148.5	5.18	30	
Naphthalene	BRL	250						104.0	0	30	
tert-Amyl alcohol	BRL	5000						0	0	30	
tert-Amyl methyl ether	BRL	500						0	0	30	
tert-Butyl Alcohol	BRL	5000						0	0	30	
tert-Butyl formate	BRL	5000						0	0	30	
Toluene	BRL	50						25.50	0	30	
Xylenes, Total	57.00	50						54.00	5.41	30	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **321954**

Sample ID: **2109338-004ADUP** Client ID: **#04785-MW-20** Units: **ug/L** Prep Date: **09/04/2021** Run No: **464527**
SampleType: **DUP** TestCode: **Volatile Organic Compounds by GC/MS** BatchID: **321954** Analysis Date: **09/10/2021** Seq No: **10663878**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	2484	0						2477	0	30	
Surr: Dibromofluoromethane	2492	0						2469	0	30	
Surr: Toluene-d8	2500	0						2482	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: 322002

Sample ID: **MB-322002** Client ID: Units: **ug/L** Prep Date: **09/08/2021** Run No: **464368**
SampleType: **MBLK** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **322002** Analysis Date: **09/08/2021** Seq No: **10659253**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	BRL	0.020									
Surr: 4-Bromofluorobenzene	4.654	0	5.000		93.1	70	130				

Sample ID: **LCS-322002** Client ID: Units: **ug/L** Prep Date: **09/08/2021** Run No: **464368**
SampleType: **LCS** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **322002** Analysis Date: **09/08/2021** Seq No: **10659254**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.08800	0.020	0.1000		88.0	60	140				
Surr: 4-Bromofluorobenzene	4.296	0	5.000		85.9	70	130				

Sample ID: **LCSD-322002** Client ID: Units: **ug/L** Prep Date: **09/08/2021** Run No: **464368**
SampleType: **LCSD** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **322002** Analysis Date: **09/08/2021** Seq No: **10659255**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.08500	0.020	0.1000		85.0	60	140	0.08800	3.47	15.6	
Surr: 4-Bromofluorobenzene	4.332	0	5.000		86.6	70	130	4.296	0	0	

Sample ID: **2109338-001BMS** Client ID: **#04785-MW-15** Units: **ug/L** Prep Date: **09/08/2021** Run No: **464368**
SampleType: **MS** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **322002** Analysis Date: **09/08/2021** Seq No: **10659258**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.07842	0.020	0.0993		79.0	70	131				
Surr: 4-Bromofluorobenzene	6.050	0	4.963		122	73.6	140				

Sample ID: **2109338-002BDUP** Client ID: **#04785-MW-16** Units: **ug/L** Prep Date: **09/08/2021** Run No: **464368**
SampleType: **DUP** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **322002** Analysis Date: **09/08/2021** Seq No: **10659260**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	BRL	0.020						0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
Project Name: Quick Pantry # 19
Workorder: 2109338

ANALYTICAL QC SUMMARY REPORT

BatchID: **322002**

Sample ID: **2109338-002BDUP** Client ID: **#04785-MW-16** Units: **ug/L** Prep Date: **09/08/2021** Run No: **464368**
SampleType: **DUP** TestCode: **MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011** BatchID: **322002** Analysis Date: **09/08/2021** Seq No: **10659260**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	4.191	0	4.876		86.0	73.6	140	5.049	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

Water Quality Meter Calibration Sheet

Project: Quick Pantry # 19

Personnel : Gary Long

Calibration Date : 8-25-21

Time : 1030

Meter Horiba U-52

Serial # W22MV13L

pH= 4.01 (100-4 Standard Solution)

Spec. Cond. = 4.54 mS/cm (100-4 Standard Solution)

Turb. = 0 NTU(100-4 Standard Solution)

D.O. = 7.11 mg/L (Air)

Signature

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP - 17.06 - 17.75

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/25/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP - 17.03 - 18:36

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/25/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 3

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP - 18.31 - 18.35

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 4

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FD- 16.98 - 18-98

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/25/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: [redacted]

FP - 15.27 - 17.73

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) 14.35 ft.

Length of Water Column (LWC=TWD-DGW) 5.65 ft.

1 Csg. Volume (LWC*C)= 5.65 x .163 = .9 gals.
3 Csg. Volumes = 3 x .9 = 2.7 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 1 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	14.35	19.72						
Volume Purged (gallons)	0	1						
Time (military)	1050	1100						
Water Temp (°F)	76.4	74.5						
pH (s.u.)	8.44	8.40						
Specific Cond. (mS/cm)	.208	.268						
Turbidity (NTU)	2.1	222						
Dissolved Oxygen (mg/L)	1.67	1.69						
Salinity	.1	.1						
OVA	–	–						

Sample Time: ~~[illegible]~~
8-26-21
~~[illegible]~~ 8:30

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:

Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 18 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP - 11.45 - 11.92

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:

Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 8

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP- 10.45 - 13.53

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 17.5 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP. 11.03 - 11.09

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/25/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 12 ft.
Depth to GW (DWG) 3.62 ft.

Length of Water Column (LWC=TWD-DGW) 8.38 ft.

1 Csg. Volume (LWC*C)= 8.38 x .163 = 1.3 gals.
3 Csg. Volumes = 3 x 1.3 = 4 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 1.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	3.62	11.68						
Volume Purged (gallons)	0	1.5						
Time (military)	1250	1300						
Water Temp (°F)	91.6	79.3						
pH (s.u.)	8.49	8.62						
Specific Cond. (mS/cm)	.216	.202						
Turbidity (NTU)	1.3	326						
Dissolved Oxygen (mg/L)	1.65	1.58						
Salinity	.1	.1						
OVA	–	–						

Sample Time: ~~1300~~
8-26-21
10:30

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/25/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-11 Dup-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 14 ft.
Depth to GW (DWG) 6.76 ft.

Length of Water Column (LWC=TWD-DGW) 7.24 ft.

1 Csg. Volume (LWC*C)= 7.24 x .163 = 1.1 gals.
3 Csg. Volumes = 3 x 1.1 = 3.3 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	6.76	12.02	12.21	12.35				
Volume Purged (gallons)	0	1	2	3.5				
Time (military)	1315	1320	1325	1330				
Water Temp (°F)	85.4	77.0	72.3	76.8				
pH (s.u.)	8.75	9.17	9.21	9.22				
Specific Cond. (mS/cm)	.494	.507	.511	.513				
Turbidity (NTU)	1.7	77.6	8.2	2.7				
Dissolved Oxygen (mg/L)	1.53	1.58	1.51	1.48				
Salinity	.2	.2	.2	.2				
OVA	–	–	–	–				

Sample Time: ~~1330~~
8-26-21
11:15

Dup-1 - 1120

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 17 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP - 10.30 - 10.49

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP - 7.91 - 11.18

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/26/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP - 8.01 - 10.38

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 13 ft.
Depth to GW (DWG) [redacted] ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP- 3.78- 3.81

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 18

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 14 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP. 6.27 - 6.31

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 25

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 16 ft.
Depth to GW (DWG) 8.23 ft.

Length of Water Column (LWC=TWD-DGW) 7.77 ft.

1 Csg. Volume (LWC*C)= 7.77 x .163 = 1.2 gals.
3 Csg. Volumes = 3 x 1.2 = 3.7 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 1.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	8.23	15.71						
Volume Purged (gallons)	0	1.5						
Time (military)	1340	1350						
Water Temp (°F)	82.1	72.8						
pH (s.u.)	8.90	8.87						
Specific Cond. (mS/cm)	.392	.397						
Turbidity (NTU)	0.8	146						
Dissolved Oxygen (mg/L)	1.54	1.59						
Salinity	.2	.2						
OVA	—	—						

Sample Time: ~~1350~~

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW-~~ RW-1

Well Diameter(D) 4 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP - 18.08 - 19.03

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # [redacted]- RW-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP- 17.00 - 17.98

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # [redacted]- Rw-3

Well Diameter(D) 4 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP- 17.25 - 18.05

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/25/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # DW-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 45 ft.
Depth to GW (DWG) 18.68 ft.

Length of Water Column (LWC=TWD-DGW) 26.32 ft.

1 Csg. Volume (LWC*C)= 26.32 x .163 = 4.2 gals.
3 Csg. Volumes = 3 x 4.2 = 12.8 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 13 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	18.68	43.61	43.75	43.82				
Volume Purged (gallons)	0	4.5	9	13				
Time (military)	1205	1210	1215	1220				
Water Temp (°F)	84.3	78.0	76.1	75.2				
pH (s.u.)	8.81	8.67	8.44	8.49				
Specific Cond. (mS/cm)	.204	.187	.185	.180				
Turbidity (NTU)	0.4	132	8.4	1.6				
Dissolved Oxygen (mg/L)	1.63	1.65	1.62	1.57				
Salinity	.1	.1	.1	.1				
OVA	—	—	—	—				

Sample Time: 8-26-21 9:00

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW-~~ DW-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 8.55 ft.

Length of Water Column (LWC=TWD-DGW) 31.45 ft.

1 Csg. Volume (LWC*C)= 31.45 x .163 = 5.1 gals.
3 Csg. Volumes = 3 x 5.1 = 15.3 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 15.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	8.55	37.29	37.46	37.61				
Volume Purged (gallons)	0	5	10	15.5				
Time (military)	1425	1430	1435	1440				
Water Temp (°F)	80.7	67.9	68.0	67.6				
pH (s.u.)	9.08	9.14	9.21	9.25				
Specific Cond. (mS/cm)	.198	.200	.203	.201				
Turbidity (NTU)	1.1	97.4	8.0	1.7				
Dissolved Oxygen (mg/L)	1.57	1.53	1.49	1.45				
Salinity	.1	.1	.1	.1				
OVA	—	—	—	—				

Sample Time: ~~[illegible]~~

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW2~~ DW-3

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 9.20 ft.

Length of Water Column (LWC=TWD-DGW) 30.80 ft.

1 Csg. Volume (LWC*C)= 30.80 x .163 = 5 gals.
3 Csg. Volumes = 3 x 5 = 15 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 15 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	9.20	37.32	37.57	37.65				
Volume Purged (gallons)	0	5	10	15				
Time (military)	1405	1410	1415	1420				
Water Temp (°F)	82.7	72.1	69.7	69.3				
pH (s.u.)	9.43	9.41	9.42	9.38				
Specific Cond. (mS/cm)	.167	.153	.151	.149				
Turbidity (NTU)	1.9	201	9.6	3.3				
Dissolved Oxygen (mg/L)	1.67	1.69	1.61	1.66				
Salinity	.1	.1	.1	.1				
OVA	–	–	–	–				

Sample Time: ~~[illegible]~~

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8/ 25 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW~~ DW-4

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 25 ft.
Depth to GW (DWG) 10.21 ft.

Length of Water Column (LWC=TWD-DGW) 14.79 ft.

1 Csg. Volume (LWC*C)= 14.79 x .163 = 2.4 gals.
3 Csg. Volumes = 3 x 2.4 = 7.2 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 2.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	10.21	24.63						
Volume Purged (gallons)	0	2.5						
Time (military)	1450	1500						
Water Temp (°F)	79.1	72.3						
pH (s.u.)	9.31	9.19						
Specific Cond. (mS/cm)	.204	.201						
Turbidity (NTU)	2.0	128						
Dissolved Oxygen (mg/L)	1.63	1.57						
Salinity	.1	.1						
OVA	–	–						

Sample Time: ~~1530~~

Dry @ 1 vol

Water Quality Meter Calibration Sheet

Project: Quick Pantry 19

Personnel : Gary Long

Calibration Date : 9-1-21

Time : 1000

Meter Horiba U-52

Serial # W22MV13L

pH= 4.01 (100-4 Standard Solution)

Spec. Cond. = 4.54 mS/cm (100-4 Standard Solution)

Turb. = 0 NTU(100-4 Standard Solution)

D.O. = 7.11 mg/L (Air)

Signature [illegible]

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 28.5 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP - 17.35 – 18.02

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) 18.51 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP - 17.32 - 18.51

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 3

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP- 18.51 - 18.56

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 4

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) 19.19 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP - 17.18 - 19.19

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/1/21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) 17.92 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:
FP - 15.38 - 17.92

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) 14.49 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 18 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP-1159-1187

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 8

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP- 10.63- 13.89

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 17.5 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:
FP - 11.32 - 11.36

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 12 ft.
Depth to GW (DWG) 4.08 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 11

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 14 ft.
Depth to GW (DWG) 7.06 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 98/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 17 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP- 10.39- 10.95

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP- 8.08- 11.22

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 98/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP. 8.07 - 10.32

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 15

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) 7.89 ft.

Length of Water Column (LWC=TWD-DGW) 7.11 ft.

1 Csg. Volume (LWC*C)= 7.11 x .163 = 1.1 gals.
3 Csg. Volumes = 3 x 1.1 = 3.3 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 1 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	7.89	14.69						
Volume Purged (gallons)	0	1						
Time (military)	1600	1605						
Water Temp (°F)	79.3	72.2						
pH (s.u.)	8.99	8.94						
Specific Cond. (mS/cm)	.331	.346						
Turbidity (NTU)	2.4	67.7						
Dissolved Oxygen (mg/L)	1.65	1.62						
Salinity	.2	.2						
OVA	–	–						

Sample Time: 9-2-21
1120

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 98/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) 7.78 ft.

Length of Water Column (LWC=TWD-DGW) 7.22 ft.

1 Csg. Volume (LWC*C)= 7.22 x .163 = 1.1 gals.
3 Csg. Volumes = 3 x 1.1 = 3.3 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 1 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	7.78	14.71						
Volume Purged (gallons)	0	1						
Time (military)	1545	1550						
Water Temp (°F)	79.6	71.5						
pH (s.u.)	9.01	9.22						
Specific Cond. (mS/cm)	.306	.296						
Turbidity (NTU)	1.7	307						
Dissolved Oxygen (mg/L)	1.68	1.59						
Salinity	.1	.1						
OVA	~	~						

Sample Time: 9-2-21
1100

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/1/21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 13 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP - 3.94 - 3.99

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ / /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 18

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 14 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP - 6.37- 6.42

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/1/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-19

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) 9.07 ft.

Length of Water Column (LWC=TWD-DGW) 5.93 ft.

1 Csg. Volume (LWC*C)= 5.93 x .163 = .9 gals.
3 Csg. Volumes = 3 x .9 = 2.9 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	9.07	13.32	13.99	14.17				
Volume Purged (gallons)	0	1	2	3				
Time (military)	1145	1150	1155	1200				
Water Temp (°F)	81.6	71.9	67.3	67.1				
pH (s.u.)	9.56	8.95	8.94	8.96				
Specific Cond. (mS/cm)	.264	.323	.330	.330				
Turbidity (NTU)	7.3	641	9.8	5.6				
Dissolved Oxygen (mg/L)	1.59	1.60	1.57	1.61				
Salinity	.1	.2	.2	.2				
OVA	—	—	—	—				

Sample Time: 9-2-21
800

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 98/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 20

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 13 ft.
Depth to GW (DWG) 5.41 ft.

Length of Water Column (LWC=TWD-DGW) 7.59 ft.

1 Csg. Volume (LWC*C)= 7.59 x .163 = 1.2 gals.
3 Csg. Volumes = 3 x 1.2 = 3.6 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	5.41	10.92	11.06	11.14				
Volume Purged (gallons)	0	1.0	2	3.5				
Time (military)	1515	1520	1525	1530				
Water Temp (°F)	79.4	71.7	69.8	68.8				
pH (s.u.)	8.36	8.58	8.47	8.44				
Specific Cond. (mS/cm)	.179	.188	.184	.179				
Turbidity (NTU)	1.3	107	8.6	2.7				
Dissolved Oxygen (mg/L)	1.73	1.67	1.61	1.55				
Salinity	.1	.1	.1	.1				
OVA		—	—	—				

Sample Time: 9-2-21
1040

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 21

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) 8.91 ft.

Length of Water Column (LWC=TWD-DGW) 6.09 ft.

1 Csg. Volume (LWC*C)= 6.09 x .163 = .9 gals.
3 Csg. Volumes = 3 x .9 = 2.9 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 1 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	8.91	14.73						
Volume Purged (gallons)	0	1						
Time (military)	1620	1625						
Water Temp (°F)	78.8	71.0						
pH (s.u.)	8.95	8.86						
Specific Cond. (mS/cm)	.244	.247						
Turbidity (NTU)	2.7	174						
Dissolved Oxygen (mg/L)	1.66	1.54						
Salinity	.1	.1						
OVA	–	–						

Sample Time: 9-2-21 1140

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 22

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) 8.81 ft.

Length of Water Column (LWC=TWD-DGW) 6.19 ft.

1 Csg. Volume (LWC*C)= 6.19 x .163 = 1 gals.
3 Csg. Volumes = 3 x 1 = 3 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	8.81	12.71	12.96	13.12				
Volume Purged (gallons)	0	1	2	3				
Time (military)	1345	1350	1355	1400				
Water Temp (°F)	80.6	71.8	68.1	68.0				
pH (s.u.)	8.62	8.80	8.55	8.60				
Specific Cond. (mS/cm)	.211	.236	.227	.215				
Turbidity (NTU)	2.3	60.7	9.4	3.3				
Dissolved Oxygen (mg/L)	1.63	1.63	1.58	1.60				
Salinity	.1	.1	.1	.1				
OVA	–	–	–	–				

Sample Time: 9-2-21
920

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/1/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 23

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) 10.71 ft.

Length of Water Column (LWC=TWD-DGW) 4.29 ft.

1 Csg. Volume (LWC*C)= 4.29 x .163 = .6 gals.
3 Csg. Volumes = 3 x .6 = 2 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling .5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	10.71	14.70						
Volume Purged (gallons)	0	.5						
Time (military)	1450	1500						
Water Temp (°F)	78.3	67.2						
pH (s.u.)	8.63	8.57						
Specific Cond. (mS/cm)	.111	.114						
Turbidity (NTU)	0.4	396						
Dissolved Oxygen (mg/L)	1.69	1.58						
Salinity	.1	.1						
OVA	–	–						

Sample Time: 9-2-21
1020

Dry @ 100'

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/1/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 24

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 15 ft.
Depth to GW (DWG) 11.05 ft.

Length of Water Column (LWC=TWD-DGW) 3.95 ft.

1 Csg. Volume (LWC*C)= 3.95 x .163 = .6 gals.
3 Csg. Volumes = 3 x .6 = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling .5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	11.05	14.73						
Volume Purged (gallons)	0	.5						
Time (military)	1410	1420						
Water Temp (°F)	79.2	66.7						
pH (s.u.)	9.80	8.91						
Specific Cond. (mS/cm)	.157	.161						
Turbidity (NTU)	6.0	371						
Dissolved Oxygen (mg/L)	1.67	1.54						
Salinity	.1	.1						
OVA	–	–						

Sample Time: 9-2-21
940

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/1/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 25

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 16 ft.
Depth to GW (DWG) 8.31 ft.

Length of Water Column (LWC=TWD-DGW) 7.69 ft.

1 Csg. Volume (LWC*C)= 7.69 x .163 = 1.2 gals.
3 Csg. Volumes = 3 x 1.2 = 3.7 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 1.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	8.31	15.21						
Volume Purged (gallons)	0	1.5						
Time (military)	1230	1235						
Water Temp (°F)	79.7	70.3						
pH (s.u.)	8.84	8.65						
Specific Cond. (mS/cm)	.379	.388						
Turbidity (NTU)	1.1	296						
Dissolved Oxygen (mg/L)	1.66	1.62						
Salinity	.2	.2						
OVA	~	~						

Sample Time: 9-2-21
820

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # RW-~~MW~~- 1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP-18.35 – 19.22

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:

Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # RW~~MW~~-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP- 1727 - 18.12

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # RW ~~MW~~-3

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 20 ft.
Depth to GW (DWG) 18.25 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: FP - 17.48 - 18.25

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # DW~~MW~~-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 45 ft.
Depth to GW (DWG) 18.87 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/1/21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # [redacted]- DW-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 9.46 ft.

Length of Water Column (LWC=TWD-DGW) 30.54 ft.

1 Csg. Volume (LWC*C)= 30.54 x .163 = 4.9 gals.
3 Csg. Volumes = 3 x 4.9 = 14.9 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 15 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	9.46	37.22	37.40	37.48				
Volume Purged (gallons)	0	5	10	15				
Time (military)	12.45	1250	1255	1300				
Water Temp (°F)	78.3	68.1	67.4	67.1				
pH (s.u.)	8.91	8.69	8.90	8.82				
Specific Cond. (mS/cm)	.221	.198	.197	.196				
Turbidity (NTU)	0.8	240	8.8	2.7				
Dissolved Oxygen (mg/L)	1.64	1.56	1.52	1.58				
Salinity	.1	.1	.1	.1				
OVA	–	–	–	–				

Sample Time: 9-2-21
840

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 98/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW~~ DW-3

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 8.69 ft.

Length of Water Column (LWC=TWD-DGW) 31.31 ft.

1 Csg. Volume (LWC*C)= 31.31 x .163 = 5.1 gals.
3 Csg. Volumes = 3 x 5.1 = 15.3 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 15.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	8.69	37.60	37.69	37.75				
Volume Purged (gallons)	0	5	10	15.5				
Time (military)	1315	1320	1325	1330				
Water Temp (°F)	80.7	69.4	68.1	67.7				
pH (s.u.)	8.96	8.98	8.94	8.89				
Specific Cond. (mS/cm)	.160	.155	.152	.152				
Turbidity (NTU)	1.4	4.22	7.9	2.6				
Dissolved Oxygen (mg/L)	1.73	1.69	1.62	1.64				
Salinity	.1	.1	.1	.1				
OVA	–	–	–	–				

Sample Time: 9-2-21
900

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 1 /21
Field Personnel G. Long and C. Austin
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW~~ DW-4

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 25 ft.
Depth to GW (DWG) 10.47 ft.

Length of Water Column (LWC=TWD-DGW) 14.53 ft.

1 Csg. Volume (LWC*C)= 14.53 x .163 = 2.3 gals.
3 Csg. Volumes = 3 x 2.3 = 7.1 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 2.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	10.47	24.68						
Volume Purged (gallons)	0	2.5						
Time (military)	1430	1435						
Water Temp (°F)	79.3	68.9						
pH (s.u.)	8.86	8.74						
Specific Cond. (mS/cm)	.194	.195						
Turbidity (NTU)	0.2	394						
Dissolved Oxygen (mg/L)	1.68	1.70						
Salinity	.1	.1						
OVA	—	—						

Sample Time: 9-2-21
1000

Dry @ 1 vol

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 2 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW~~- SW-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: 1300

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/2/21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW-~~ SW-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: 1245

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/2/21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW-~~ SW-3

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: 1230

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 2 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # [redacted]- SW-4

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: Dry

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/2/21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW-~~ SW-5 Pond

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

9-2-21
Sample Time: 1200

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 9/ 2 /21
Field Personnel G. Long
General Weather Condition P/cloudy
Ambient Air Temperature 90°
Facility Name Quick Pantry # 19
Site ID# 04785

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW~~ SW-6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) _____ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: 1215

APPENDIX C

Tax Map / Regional Geology

Reference #	PIN#	Owner	Owner Address
1	6855-411-188	SMVS Real Estate, LLC	1802 Main Street S, Greenwood, SC 29646
2	6855-391-191	Ansel D Brewer	3002 Callison Highway, Greenwood, SC 29646
3	6855-399-207	Ansel D Brewer	PO Box 2038, Greenwood, SC 29646
4	6855-475-219	David & Brandon Smith	107 Fairway Lakes Road, Greenwood, SC 29649
5	6855-515-137	City of Greenwood SC	PO Box 40, Greenwood, SC 29648
6	6855-508-090	Southern Railway	Three Commercial Place Box 209, Norfolk, VA 23510
7	6855-410-173	Darrell L Smith	6272 Highway 184 E, Donalds, SC 29638
8	6855-378-177	Hfb Properties, LLC	PO Box 1426, Greenwood, SC 29648
9	6855-393-234	Greenwood County (Health Department)	528 Monument Street Room B-03, Greenwood, SC 29646

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks· Soil & Water Sampling· Well Installation

Tax Map
Quick Pantry # 19
Greenwood, SC
UST # 04785

TECTONICS, VOL. 16, NO. 3, PAGES 460-473, JUNE 1997

The Carolina terrane in northwestern South Carolina, U.S.A.: Late Precambrian-Cambrian deformation and metamorphism in a peri-Gondwanan oceanic arc

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James E. Wright
Department of Geology and Geophysics, Rice University, Houston, Texas

Abstract. The Carolina terrane comprises an exotic volcanic island arc in the hinterland of the Southern Appalachian orogen. The western portions of the Carolina terrane consist of zoned mafic-ultramafic plutonic complexes intruded into a pile of basalts and basaltic andesites. This sequence of rocks has been interpreted to represent an episode of intra-arc rifting prior to regional metamorphism and deformation. New U-Pb zircon ages from the Mean Crossroads complex in northwestern South Carolina along the central Piedmont suture confirm relative ages inferred from detailed mapping. Two foliated metadiorites yield U-Pb dates of 579±4 and 571±16 Ma, interpreted to be crystallization ages. A foliated metaquartz diorite yields a U-Pb date of 538±5 Ma interpreted to be a crystallization age. An undeformed, unmetamorphosed diorite intruding these metamorphosed zoned complex intrusive rocks yields an age of ≈535 Ma. Hence we believe that intra-arc rifting and regional metamorphism and foliation development both occurred between ≈580 and 535 Ma. While petrographic and Ar-Ar studies support subsequent middle to late Paleozoic regional metamorphic overprint(s), or at least static recrystallization and/or uplift through hornblende-biotite-muscovite blocking temperatures for Ar, the 535 Ma, undeformed, unmetamorphosed intrusion suggests late Precambrian-Early Cambrian regional metamorphism and deformation was the event responsible for the regional metamorphic fabric in this area of the Piedmont. These observations contradict the idea that this metamorphism and fabric development are related to presumed early Paleozoic accretion of the Carolina arc to Laurentia as well as correlations with Middle Ordovician fabric elements in the eastern Piedmont. Instead, this fabric is interpreted to record a changing plate kinematics (e.g., migration of triple junction or change in relative motion vectors) during semicontinuous, diachronous development of an island arc on the Gondwanide margin.

Introduction

A common goal of workers in regional geology, structure, and tectonics is to attribute the structural and metamorphic features of an orogenic belt to specific collisional events at a destructive plate boundary. For example, many workers have inferred that deformation and metamorphism in the southern Appalachian internides was a consequence of the early Paleozoic accretion of the Carolina terrane to Laurentia and that this metamorphic fabric was the expression of the Taconic orogeny in the southern Appalachian Piedmont. The Middle Ordovician Taconic orogeny of the northern and central Appalachians was extended into the crystalline southern Appalachian Piedmont on the basis of the following factors: (1) the disruption of the Cambrian-Ordovican Laurentian passive margin sequence by the Middle Ordovician Blount clastic wedge [*Rodgers*, 1953, *Thomas*, 1977, *Shanmugan and Lash*, 1982]; (2) a presumed middle Ordovician metamorphic event in the southern Appalachian Piedmont [*Butler*, 1972; *Kish et al.*, 1979; *Glover et al.*, 1983; *Noel et al.*, 1988]; (3) an along-strike extrapolation of the Taconic orogeny southward from the type locality in eastern New York and western Vermont [*Zen*, 1972; *Rowley and Kidd*, 1981; *Stanley and Ratcliffe*, 1985] and the Hamburg klippen [*Lash and Drake*, 1984] in the New England and central Appalachians; (4) the discovery of an exotic Middle Cambrian fauna in the Carolina slate belt [*Secor et al.*, 1983; *Samson et al.*, 1990]; and (5) paleomagnetic studies that place Carolina adjacent to Laurentia in the early Paleozoic [*Vick et al.*, 1987, *Noel et al.*, 1988]. In fact, the Carolina terrane is one element of a Neoproterozoic archipelago on the periphery of Gondwana (Figure 1a) constructed on basement ranging in age from juvenile ocean floor crust to Archean. The events we describe in this contribution occurred while the Carolina terrane was in a peri-Gondwanide position.

We present U-Pb zircon dates collected in support of a detailed mapping program in the Carolina terrane of northwestern South Carolina. Geochronologic data and field relations show that the metamorphic fabric of the upper greenschist to lowermost amphibolite facies metaigneous rocks between Clinton and Spartanburg, South Carolina (Figures 1b and 2), formed ≈580-535 Ma, when the Carolina terrane was in a peri-Gondwanide position. Intrusive, metamorphic, or structural features that may correlate with stratigraphic features of the foreland are not found. Hence it is inappropriate to refer to the regional metamorphic fabric in the western Carolina terrane as "Taconic" because it predates the Taconic orogeny as defined in New England and predates the accretion of the exotic arc to Laurentia. Perhaps more significant is the recognition that the regional development of slaty cleavage or schistosity ("S_1") and regional

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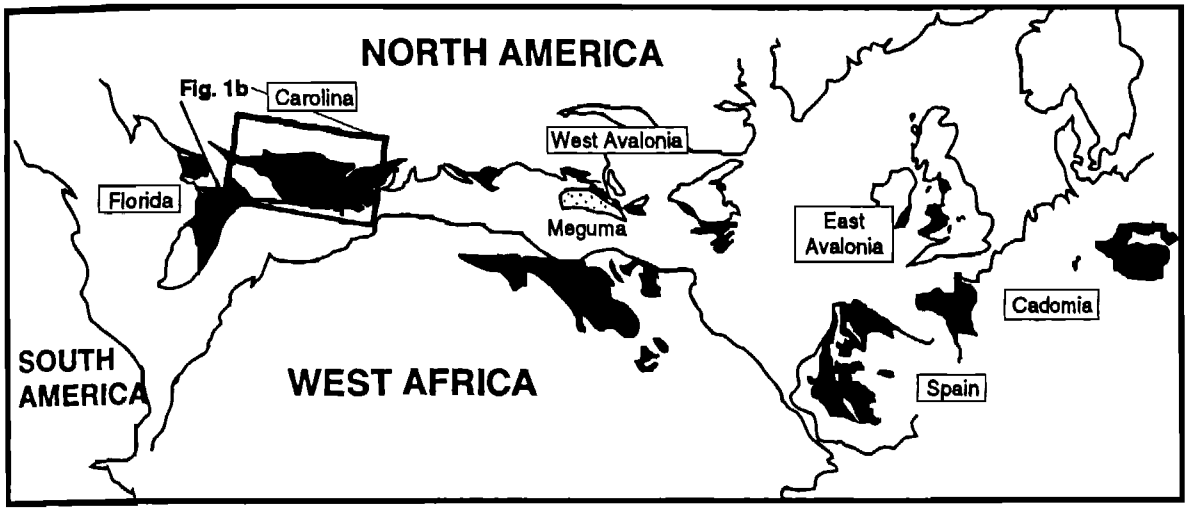

Figure 1a. Distribution of Neoproterozoic arc terranes of the circum-North Atlantic, adapted from *Nance and Murphy* [1996].

metamorphism in an exotic arc terrane may not have any genetic relation to collisional events or accretion of that terrane. In the interpretation presented here, regional metamorphism and foliation develop in response to changes in the relative motions of plates that are to be expected over a course of the development of a long-lived oceanic island arc.

Rock Units

Geologic Overview

The western portions of the Carolina terrane are dominated by upper greenschist to lower amphibolite facies mafic and ultramafic rocks that include volcanic and plutonic protoliths

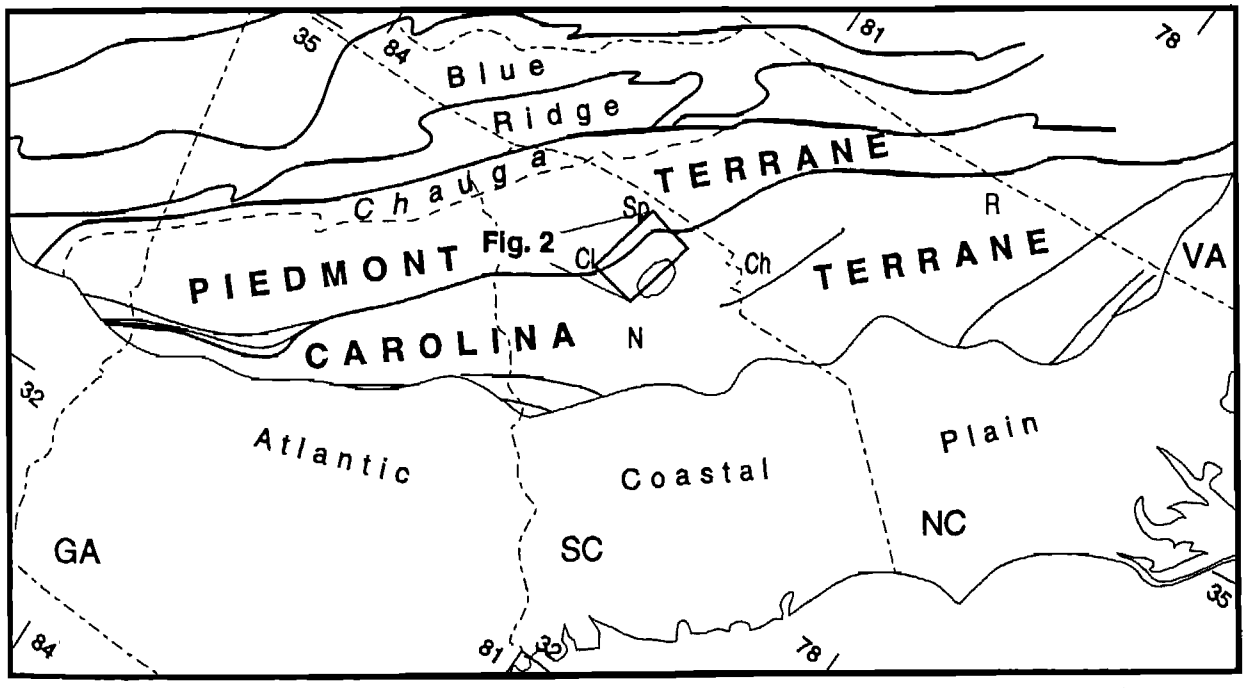

Figure 1b. Southern Appalachian regional map. Bold lines (from southeast to northwest) indicate central Piedmont suture, Brevard zone, Hayesville-Fries fault, Great Smoky fault, and Valley and Ridge Front; light lines indicate eastern Piedmont fault system. Location of figure 2 is indicated. Oval represents the approximate outline of the Bald Rock granite Abbreviations are as follows: Ch, Charlotte; Cl, Clinton; N, Newberry; R, Roxboro; Sp, Spartanburg; GA, Georgia; SC, South Carolina; NC, North Carolina; and, VA, Virginia.

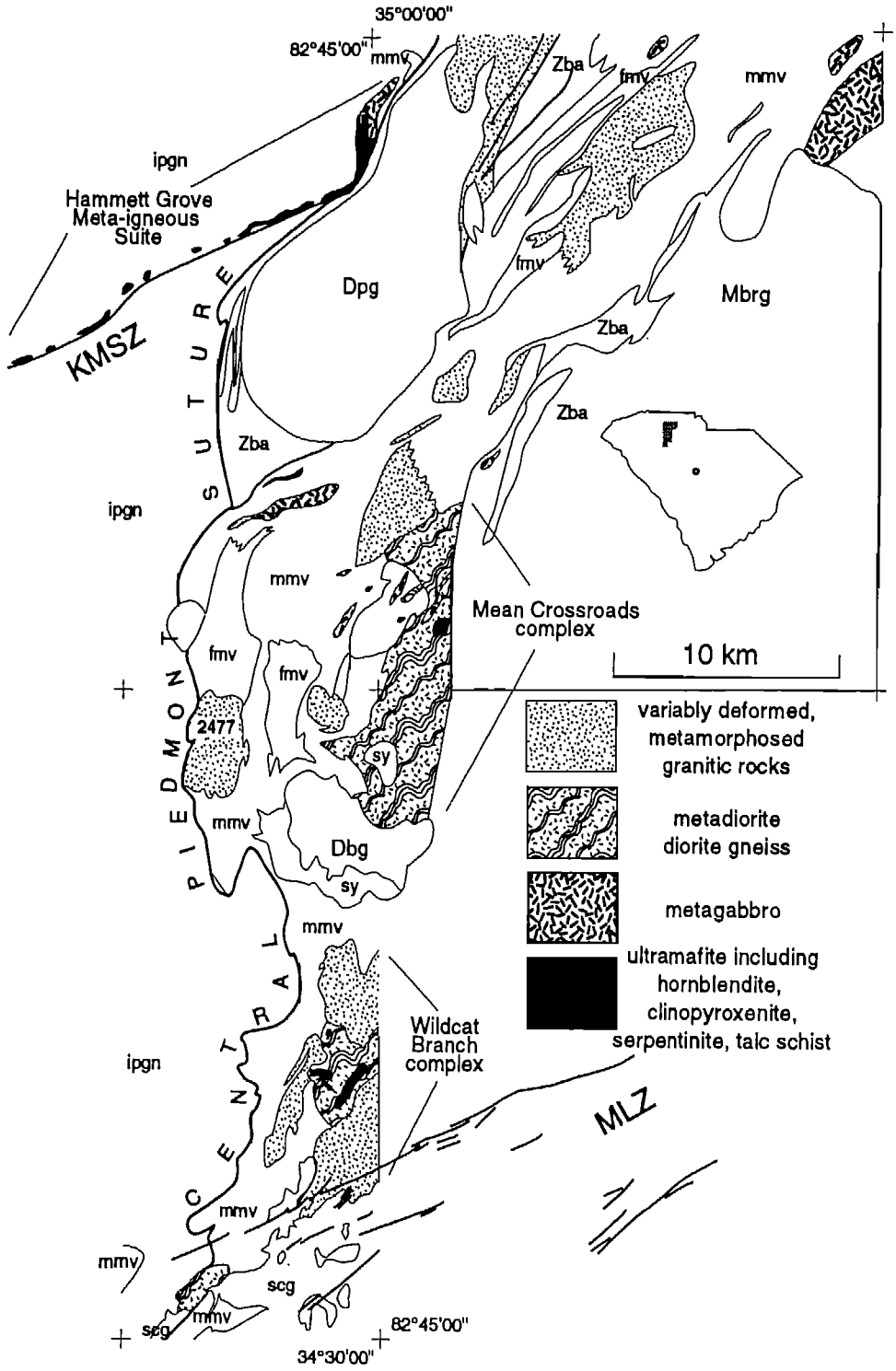

Figure 2. Sketch map of Carolina terrane in northwestern South Carolina. Abbreviations are as follows: fmv, felsic metavolcanic; mmv, mafic metavolcanic; scg, Sand Creek granite; sy, syenite; Dbg, Devonian Buffalo gabbro; Dpg, Devonian Pacolet granite; KMSZ, Kings Mountain shear zone; MLZ, Middleton-Lowndesville zone; Mbrg, Mississippian Bald Rock granite; and, Zba, late Precambrian Battleground Formation. Location 2477 is discussed in text.

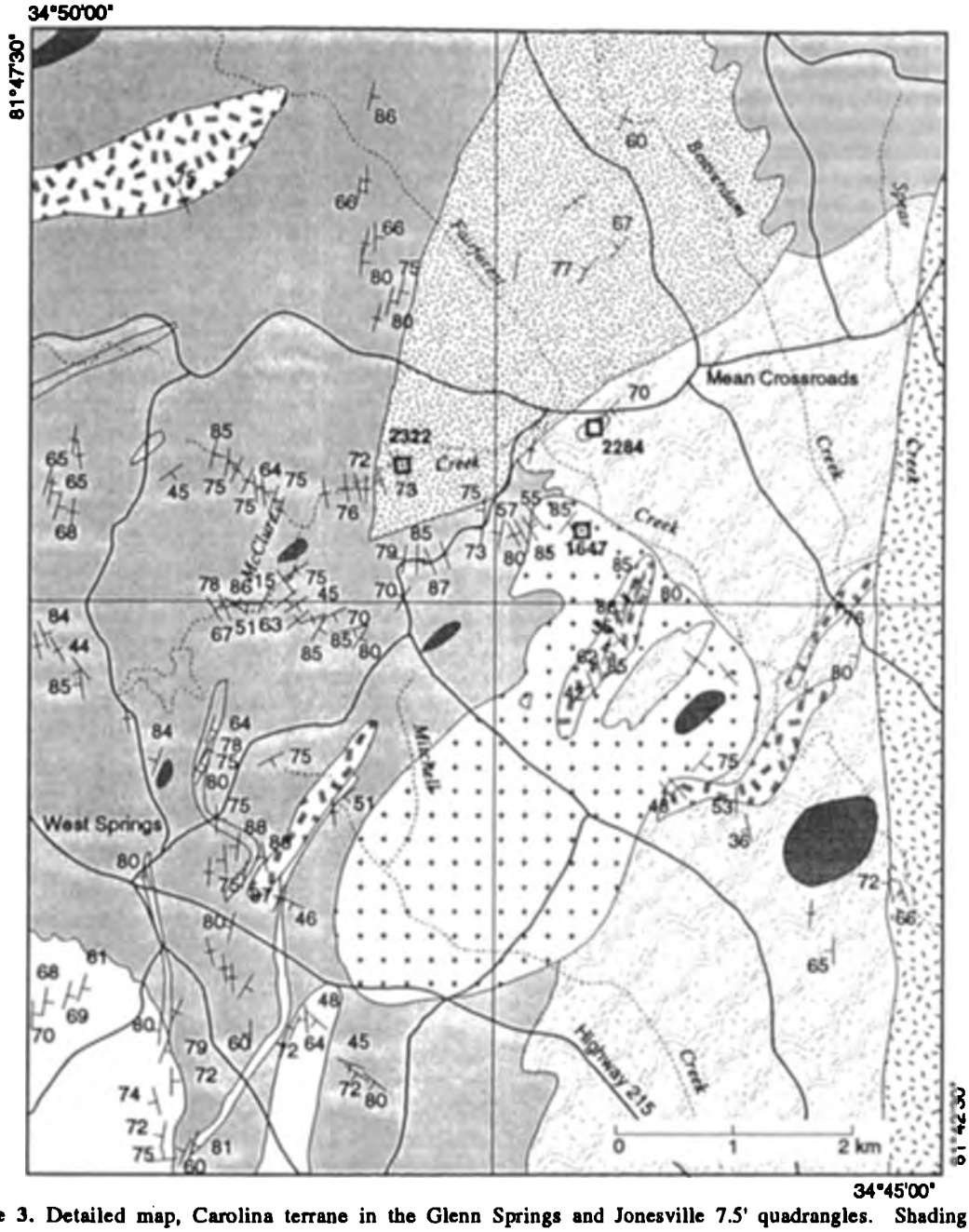

Figure 3. Detailed map, Carolina terrane in the Glenn Springs and Jonesville 7.5' quadrangles. Shading and patterns are as follows: white, felsic metavolcanic; light grey, mafic metavolcanic; dark grey, metapyroxenite-hornblendite; double bar random pattern, metagabbro; grey gneiss pattern, metadiorite-diorite gneiss; stipple, deformed biotite porphyry granodiorite; + pattern, undeformed, unmetamorphosed diorite; and, single bar random pattern, Mississippian Bald Rock granite. Strike and dip symbols indicate foliation orientation. Locations 1647, 2284, 2322 are referred to in text.

in the Carolinas and adjacent Georgia (Figures 1b and 2). Where these rocks have been mapped in detail, they are recognized as zoned intermediate-ultramafic plutonic complexes intrusive into a sequence of intercalated mafic to intermediate metavolcanic rocks. *Dennis and Shervais* [1991, 1992, 1996] interpreted field relations and geochemistry of these rocks to indicate an episode of arc rifting prior to accretion to Laurentia.

Two zoned intrusive complexes have been recognized west of the Bald Rock granite in northwestern South Carolina (Figure 2): the Wildcat Branch complex [*Horkowitz*, 1984] and the Mean Crossroads complex [*Dennis*, 1988]. The Hammett Grove metaigneous suite [*Mittwede*, 1989] may represent portions of a third zoned complex disrupted and emplaced by late Paleozoic transpressive motion. The Wildcat Branch and Mean Crossroads complexes (Figure 3) are crudely zoned from

mafic-rich cores to more felsic, dioritic rims. These complexes are approximately 10 km in diameter and are dominated (60-70%) by coarse-grained metadiorites and quartz diorites that form the outermost zone. These metadiorites enclose foliated, metamorphosed gabbro and hornblende gabbro. These metagabbros may compose up to 10-15% of a complex by area. Pyroxene, hornblende, and plagioclase are recognized as cumulate phases in the gabbros, but mappable layering is not observed. The cores of the zoned complexes are made up of coarse-grained metaclinopyroxenites and hornblendites and, locally, serpentinite. These metaultramafic cores are typically < 2 km in diameter and may form up to 15-20% of the zoned intrusive complex by area.

The zoned complexes intrude fine-grained greenstones and amphibolites that are interpreted to be metavolcanic rocks. Metamorphosed basalts and basaltic andesites are recognized in the field as actinolitic amphibolites, feldspar, and pyroxene-phyric amphibolites and amygdaloidal greenstones. The volcanic origin of these rocks is clear from their fine grain size, epidote-plagioclase-quartz-filled amygdules, pumiceous lapilli, and occurrence of plagioclase phenocrysts 1-2 mm in length. Fine-grained laminated amphibolites are interpreted as mafic to intermediate tuffs. Poorly laminated, more massive actinolitic amphibolites are interpreted to represent massive basaltic or basaltic andesite flows. Mafic metavolcanic rocks are finely foliated on the mesoscopic scale, but the presence of fine-grained polygonal quartz and feldspar and relatively coarse idioblastic amphibole imply recrystallization under static conditions. Intermediate to felsic lapilli tuffs are also recognized but are much less common. The felsic and mafic rocks are intercalated on a 1 to 10 m scale, and map boundaries between units are gradational.

Locally, the mafic volcanic rocks are composed of up to 40% clinopyroxene phenocrysts that have been replaced by actinolitic amphibole. Field and petrographic observations suggest that the protoliths of these rocks were flows, dikes, and possibly crystal-rich tuffs. Metamorphosed dikes with ankaramitic (olivine + pyroxene phenocrysts) or high-Mg, augite porphyry compositions cut both plutonic rocks and volcanic country rocks and are interpreted by *Dennis and Shervais* [1991, 1992, 1996] to represent the parent liquids from which both the zoned complexes and lavas crystallized.

Mafic metavolcanic rocks are cut by narrow (< 150 m) corridors of quartz-sericite schist that may be traced several kilometers along strike. These zones are a historic locus of gold prospecting and mining. The zones appear to be spatially related to hypabyssal metagabbros and are interpreted to represent hydrothermal alteration contemporary with volcanism. It is not clear whether faulting was important in the genesis of these zones. It is possible to trace metamorphosed andesitic pyroclastic rocks into sillimanite-sulfide-magnetite-quartz schists, with abundant sillimanite-after-kyanite prisms. These rocks are interpreted to represent extensive hydrothermal alteration of an intermediate volcanic protolith.

The quartz sericite zones are cut by metamorphosed mafic and ultramafic dikes. This important observation shows that formation of the quartz-sericite zones was contemporaneous with mafic and ultramafic volcanism and plutonism. Thus the quartz-sericite zones formed prior to middle to late Paleozoic events affecting the Carolina arc.

The late Precambrian to earliest Paleozoic rocks of the western Carolina terrane are intruded by middle to late Paleozoic intrusions. In the area presented in Figure 2, these include the unmetamorphosed and undeformed 383±5 Ma (Rb-Sr whole rock [*Mittwede and Fullagar*, 1987]) Pacolet granite, the ≈400 Ma Buffalo gabbro, and the 323±3 Ma (U-Pb zircon [*Dennis and Wright*, 1995]) Bald Rock granite. These intrusions are part of larger igneous suites and are discussed elsewhere (e.g., *McSween et al.*, 1991)

Preregional to Synregional Metamorphism Plutons

A biotite porphyry granodiorite (sample 2322, Figure 3; stop 5 of *Dennis et al.* [1995]) intrudes metabasalts and exhibits the same steeply dipping fabric seen in the metabasalts. The rock comprises up to 20% modally of biotite books that define a crude lineation. The grain size of the groundmass is < 5 mm, and the penetrative foliation is locally mylonitic. The foliation is locally deformed by shear bands, and biotite crystals define mica fish in the rock. Quartz does not show a good grain shape preferred orientation in this rock, probably as a result of later heating and polygonization of strained grains. Rounded cores of plagioclase crystals are observed but have no discernible mantle tails. The plagioclase shows only limited alteration to white mica along cleavage planes. We conclude that the foliation-forming event must have postdated emplacement of this pluton.

A second foliated diorite pluton (2477, Figure 2, stop 12 of *Dennis et al.* [1995]) also cuts metabasalts. This pluton does not show such a strong penetrative fabric as the biotite porphyry diorite, but it is cut by the central Piedmont suture This pluton therefore predates development of a regional metamorphic fabric in metavolcanic rocks in the Cross Anchor area and predates the central Piedmont suture.

Mean Crossroads metadiorite (2284, Figure 3, stop 7 of *Dennis et al.* [1995]) forms the greatest portion of the Mean Crossroads intrusive complex. This rock is generally coarse-grained with conspicuous and abundant (up to 30%) hornblende prisms. The fabric in this pluton is heterogeneously developed, as the metadiorite ranges from massive to gneissic to mylonitic. There is extensive development of epidote in gneissic layers (with quartz) from 1 mm to 25 cm thick in this rock (Figure 4a). Epidote is interpreted to develop at the expense of plagioclase in the metadiorite. The development of epidote is ubiquitous regardless of the stage of fabric development. Relict igneous hornblende phenocrysts are observed as actinolite pseudomorphs. Quartz and the remaining plagioclase grains are polygonized. Titanite is an abundant accessory mineral. This pluton also contains abundant map-scale blocks of foliated metagabbro and metapyroxenite-hornblendite of the Mean Crossroads complex. Regional metamorphism and foliation formation must have continued during emplacement of this pluton.

Postmetamorphic Pluton

An undeformed, unmetamorphosed biotite-hornblende diorite (1647, stop 6 of *Dennis et al.* [1995]) intrudes the contact between the Mean Crossroads metadiorite and metabasalt. This rock is medium-grained and contains up to

a)

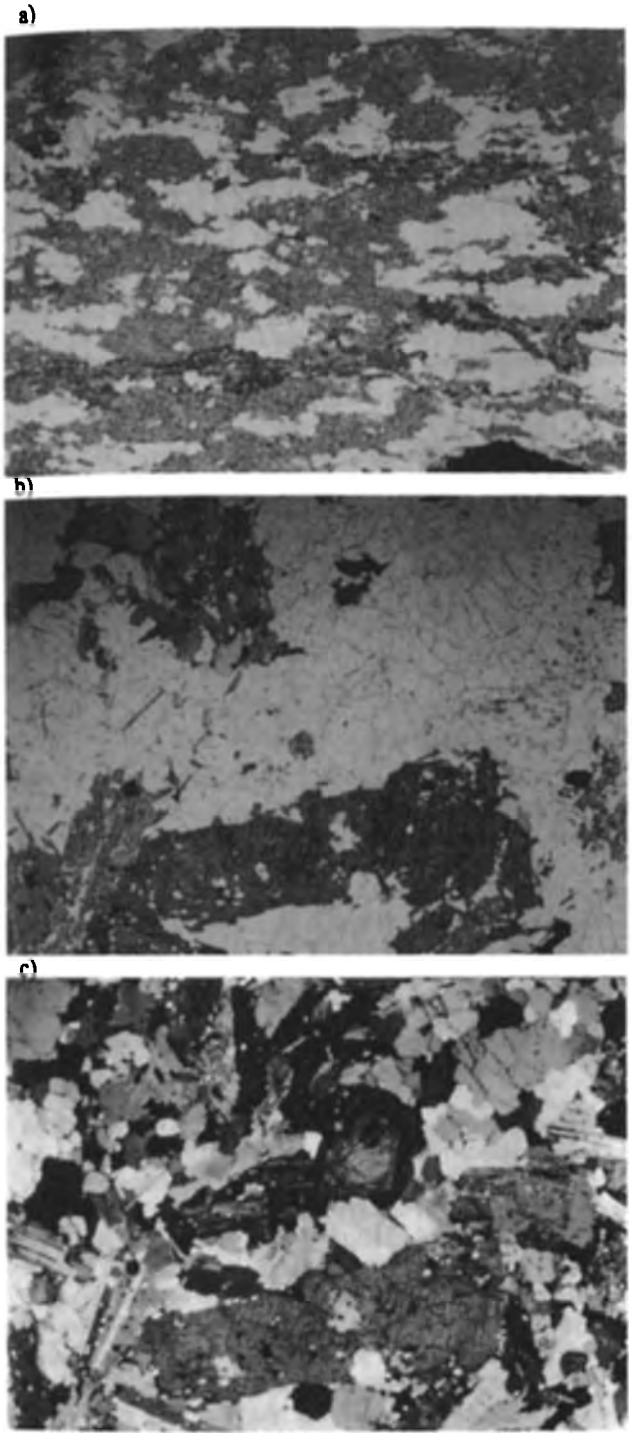

Figure 4. Photomicrographs: (a) diorite gneiss (2284), plane light. Extensive development of epidote apparent; some relict igneous amphibole is replaced by actinolite. (b) Undeformed, unmetamorphosed diorite (1647), plane light. (c) Same view as 4b, crossed-polars. Field of view in each photomicrograph is 25 mm.

40% modal mafic minerals. Where present, biotite is common as clots of grains < 1 cm in segregations < 5 cm in diameter. Quartz makes up 15% modally of the undeformed, unmetamorphosed diorite.

The following observations indicate that this pluton is clearly postmetamorphic. Igneous mineralogy and texture (Figures 4b and c) are preserved, in contrast to metamorphosed plutons (2322, 2477, and 2284) discussed above. Both foliated xenoliths (Figure 5a) and equant (spherical?) mafic enclaves (Figures 5b and 5c) are abundant and observed within meters of one another. We interpret this to indicate that the

a)

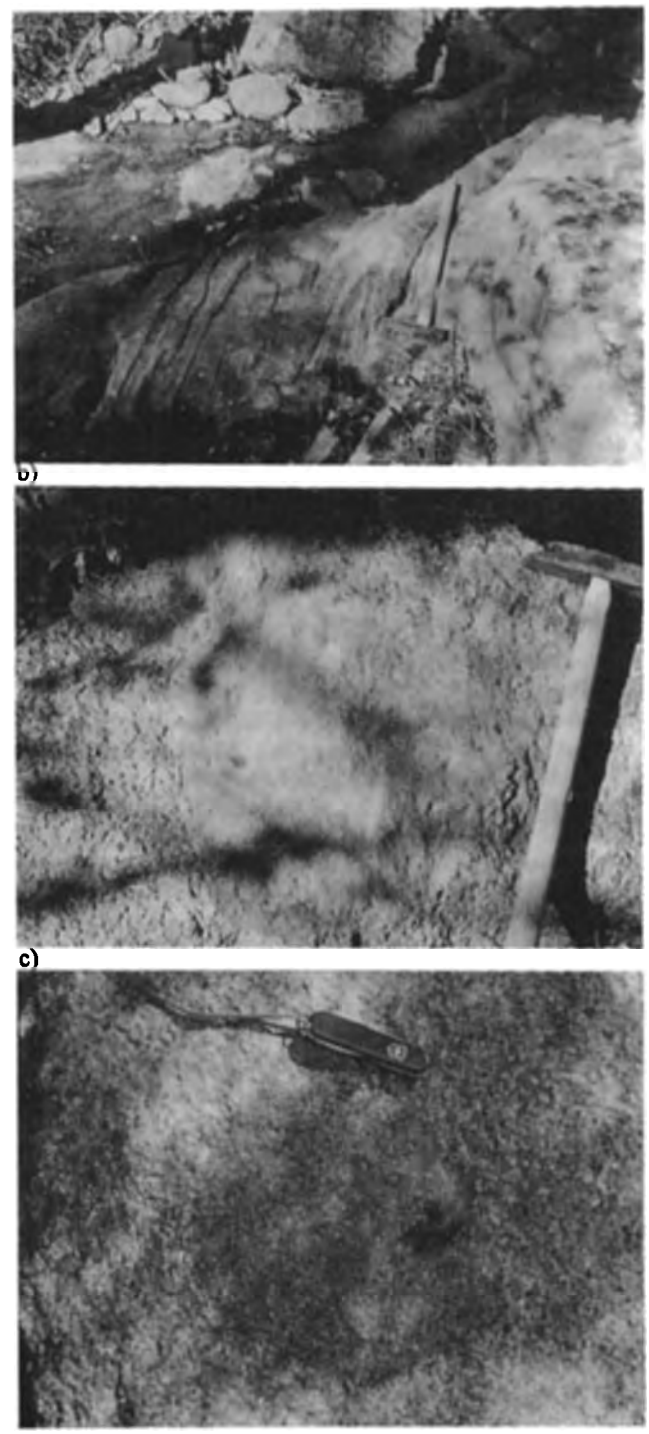

Figure 5. Field photographs within undeformed, unmetamorphosed pluton at 1647. (a) foliated xenolith. hammer handle is 66 cm (b) and (c) equant mafic enclaves. Knife is 8 cm long.

foliated blocks already contained the foliation we observe and that no differential stress acted on more mafic, immiscible, comagmatic droplets (up to 50 cm in diameter) to flatten them or cause mineral grains to align in them. Finally, mappable foliated blocks of metadiorite and metagabbro within the pluton show foliation orientations consistent with those of the country rock outside the pluton (Figure 3). These foliation orientations occur at high angles to intrusive contacts and thus cannot be explained by simple ballooning at the pluton margins. These mappable foliated blocks are interpreted as roof pendants within the undeformed, unmetamorphosed pluton.

U-Pb Geochronology

Figures 2 and 3 show a portion of the area in northwestern South Carolina where we have dated both deformed, metamorphosed and undeformed, unmetamorphosed plutonic rocks. These results constrain the ages of volcanism, of intrusion of zoned complexes, and of deformation and metamorphism in the western Carolina terrane. Isotopic data are presented in Table 1.

Analytical procedures were the same as those described by *Wright and Fahan* [1988] and *Dilles and Wright* [1988]. Isotopic data were determined on a multi-collector Finnigan Mat 262 mass spectrometer at Rice University. Total Pb blanks at Rice have ranged over the years from as little as 10 pg to as much as 100 pg. Concordia intercepts were calculated using the program of *Ludwig* [1984]. Further details of analytical procedures and error analysis are contained in Table 1.

Samples AD 2477 and AD 2322

Four fractions were analyzed from sample AD 2477 (Table 1 and Figure 6a). All fractions including the fraction that was air abraded are discordant within analytical error and have lost modest amounts of radiogenic Pb. The data array on a concordia diagram (Figure 6a) is well defined with an upper concordia intercept age of 579±4 Ma. The lower concordia intercept is within analytical error of recent Pb loss (i.e., 0 Ma). There is no discernible evidence of an older inherited or xenocrystic zircon component as indicated by the agreement, within analytical, of all $^{207}Pb^*/^{206}Pb^*$ dates despite an approximately 20 Ma spread in $^{206}Pb^*/^{238}U$ dates.

Owing to the low zircon yield from sample AD 2322 we were only able to analyze two size fractions. On concordia the two analyzed fractions plot very close to each other, and no meaningful discordia line can be fit to the two data points (Figure 6a). The $^{207}Pb^*/^{206}Pb^*$ dates of the two fractions are, however, within analytical error. Considering the recent Pb loss documented for the previous sample and samples discussed below, we have force fit a discordia line through the origin (0 Ma, recent Pb loss) and the two data points, which yields an age of 571±16 Ma. This type of analysis is essentially averaging the $^{207}Pb^*/^{206}Pb^*$ dates as well as taking into account the discordance of the two fractions. Thus our preferred interpretation is that this sample has an age of ≈570 Ma.

Sample AD 2284

Four size fractions of this sample were analyzed (Table 1 and Figure 6b). All $^{207}Pb^*/^{206}Pb^*$ dates agree within analytical error with a spread of approximately 45 Ma from the youngest to oldest $^{206}Pb^*/^{238}U$ date. These data indicate that this sample has no discernible inherited or xenocrystic zircon component. The analyzed size fractions plot on a highly linear data array with an upper concordia intercept of 538±5 Ma, which we interpret as the crystallization age of this sample, and a lower concordia intercept of ≈0 Ma, within analytical error, suggesting recent Pb loss.

Sample AD 1647

Sufficient zircon was extracted from sample AD 1647 to allow analysis of three size fractions (Table 1 and Figure 6c) As can be seen in Table 1, like the samples discussed above, all $^{207}Pb^*/^{206}Pb^*$ dates agree within analytical error but with only a limited spread of $^{206}Pb^*/^{238}U$ dates. As a result of the limited range of U-Pb dates, a discordant line was force fit through the zircon data and 0 Ma (recent Pb loss). We believe that this is a valid approach in this sample because of the recent Pb loss documented for samples previously discussed and the agreement of all $^{207}Pb^*/^{206}Pb^*$ dates within analytical error. The resulting calculated age for this sample is 535±4 Ma.

Discussion

Regional Observations

Field relations and supporting geochronology indicate that at least some of the mafic metavolcanic rocks in this area predate 570-580 Ma and the intrusion of zoned complexes. We infer that the foliation-forming event and regional metamorphism must postdate ≈580 Ma. The Mean Crossroads zoned complex appears to have been emplaced during regional deformation-metamorphism at ≈538±5 Ma. Regional deformation and metamorphism appear to have concluded in this area by about 535±4 Ma. Thus we conclude that the regional metamorphic fabric in this area of the western Carolina terrane must be late Precambrian to Early Cambrian in age (580-535 Ma).

Our results may have been anticipated by the 479 Ma Nd/Sm isochron reported by *McSween et al.* [1984] for the unmetamorphosed Barber gabbro north of Charlotte (Ch, Figure 1b). *Gilbert et al.* [1982] describe synplutonic mafic dikes within an adamellite and a weak to moderate metamorphic fabric in these intrusions at the Catawba Nuclear Plant, Lake Wylie, South Carolina, and also in the Charlotte belt type area (i.e., western Carolina terrane, Figure 1) *Gilbert et al.* [1982] report a U/Pb zircon crystallization age of 532±15 Ma for the adamellite. These workers recognized that there is "no direct evidence that the site was affected by Taconic deformation in the interval 500-450 Ma." *Butler* [1983] describes comparable relative age relations in metagabbro of the old Pineville quarry, York county, South Carolina, in the western Carolina terrane. These results are consistent with the geochronology and interpretations we present here. Our data indicate that regional deformation and metamorphism were synchronous with intrusion accompanying late Precambrian-Early Cambrian arc rifting [*Dennis and Shervais*, 1991, 1992, 1996] and ended ≈535 Ma. The strongly positive ε_{Nd} signature of the Carolina terrane as reported by *Samson* [1995] and *Samson et al.* [1995], U-Pb

Table 1. Uranium-Lead Isotopic Data

SAMPLE		Total U ppm	^{206}Pb ppm [c]	Measured ratios [a]			Atomic Ratios			Apparent Ages [b], Ma		
				$^{206}Pb/^{204}Pb$	$^{207}Pb/^{206}Pb$	$^{208}Pb/^{206}Pb$	$^{206}Pb/^{238}U$	$^{207}Pb/^{235}U$	$^{207}Pb/^{206}Pb$	$^{206}Pb/^{238}U$	$^{207}Pb/^{235}U$	$^{207}Pb/^{206}Pb$
AD2322	+200	113.0	8.58	2370	0.06533	0.18505	0.08834	0.72114	0.05921	545.7	551.3	575±5
AD2322	-200	177.2	13.50	6667	0.06118	0.17709	0.08866	0.72136	0.05901	547.6	551.5	567±2
AD2477	100-200 (A)	78.2	6.25	3460	0.06354	0.20937	0.09312	0.76200	0.05935	573.9	575.2	580±3
AD2477	100-200	68.4	5.27	3610	0.06350	0.24026	0.08970	0.73566	0.05948	553.8	559.9	585±2
AD2477	200-325 (C)	101.0	7.89	4405	0.06280	0.20485	0.09098	0.74650	0.05951	564.1	566.2	586±3
AD2477	200-325 (F)	113.4	9.08	6849	0.06145	0.19537	0.09323	0.76278	0.05934	574.6	575.6	579±3
AD 2284	+200	176.3	12.74	25000	0.05883	0.14358	0.08416	0.67598	0.05825	520.9	524.3	539±2
AD 2284	-200	184.8	13.48	31250	0.05862	0.13944	0.08491	0.68054	0.05813	525.4	527.1	535±2
AD 2284	-200	179.7	13.08	34483	0.05862	0.14089	0.08474	0.68004	0.05820	524.3	526.8	537±2
AD 2284	-325	137.4	9.13	19608	0.05883	0.15750	0.07733	0.61942	0.05809	480.2	489.5	533±3
AD 1647	+200	120.6	8.62	8130	0.05989	0.15649	0.08325	0.66703	0.05811	515.5	518.9	534±2
AD 1647	200-325	149.7	10.89	11765	0.05941	0.15115	0.08465	0.67902	0.05818	523.8	526.2	536±2
AD 1647	-325	159.9	11.30	13889	0.05915	0.15239	0.08230	0.65938	0.05811	509.8	514.2	534±2

+200, 100-200,etc. refer to size fractions in mesh. A, air-abraded fraction; C and F coarse and fine splits respectively of the same size fraction.

[a] Isotopic compositions corrected for mass fraction (0.11% per amu).

[b] Ages calculated using the following constants: decay constant for ^{235}U and ^{238}U=9.8485*exp-10 and 1.55125*exp-10 yr^{-1} respectively; $^{238}U/^{235}U$ = 137.88.

[c] Denotes radiogenic Pb, corrected for common Pb using the isotopic composition of $^{206}Pb/^{204}Pb$ = 18.6 and $^{207}Pb/^{204}Pb$ = 15.6. Sample dissolution and ion exchange chemistry modified from Krogh (1973).

Error analysis follows Mattinson (1987).

Concordia intercepts and errors calculated using the program of Ludwig [1984].

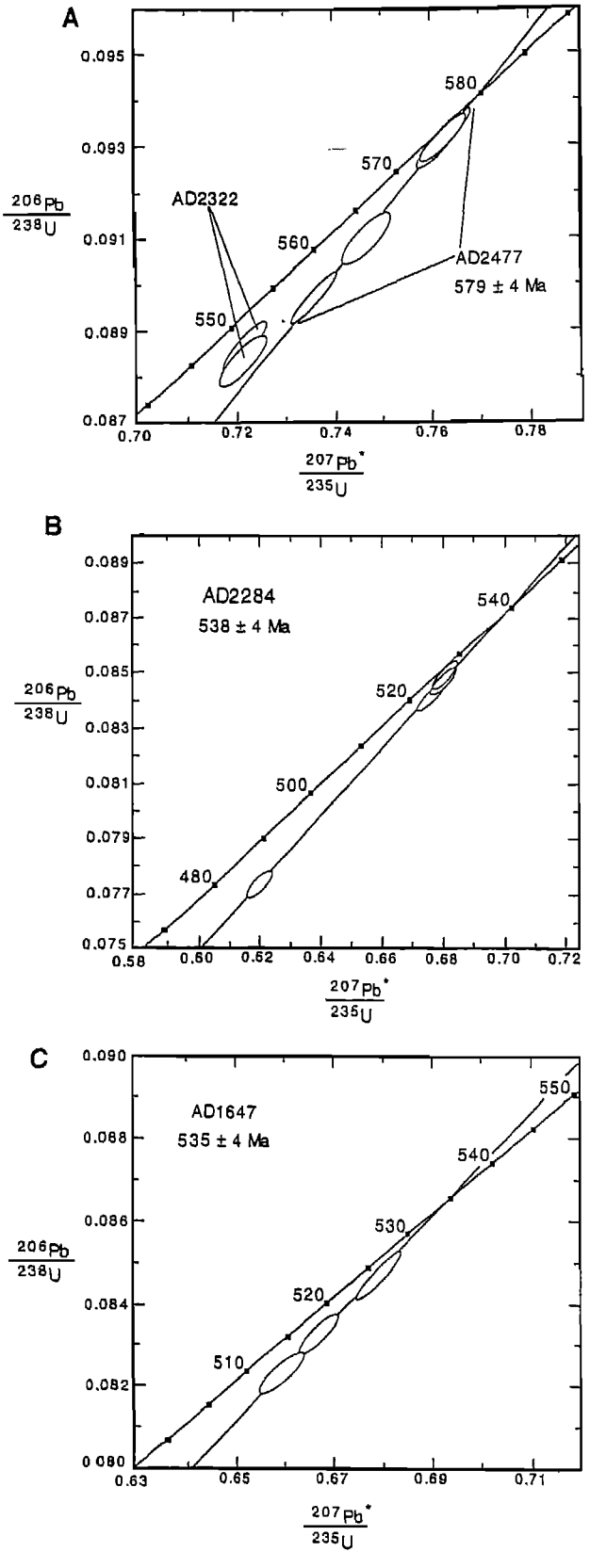

Figure 6. Concordia diagrams (a) (2477 and 2322), (b) (2284), and (c) (1647).

zircon data that show lack of an inherited component, and typical lack of xenocrystic zircons in Proterozoic rocks of the Carolina terrane [*Samson*, 1995] suggest that the Carolina terrane formed on a juvenile basement and that this arc-rifting event occurred in an intra-oceanic setting and not an Andean-type arc.

The highest structural levels of the Carolina terrane in eastern South Carolina preserve a diverse Middle Cambrian "Tethyan" [*Theokritoff*, 1979] Acado-Baltic (i.e., Gondwanan) fauna in the upper mudstone of the (informally named) Asbill Pond formation [*Samson et al.*, 1990]. Deposition of this Middle Cambrian unit (after ≈520 Ma [*Bowring et al.*, 1993]) must postdate the arc rifting, deformation, and metamorphic event (≈ 580 - 535 Ma) recorded in the western Carolina terrane and presented here. Thus the metamorphic fabric-forming event that we have documented in the western Carolina terrane occurred when the Carolina terrane was in a peri-Gondwanide position, contemporary with the opening of Iapetus [e.g., *Bond et al.*, 1984], and therefore necessarily prior to the accretion of the arc to Laurentia. Thus the deformation and metamorphism we report are unrelated to the accretion of the arc to the proto-North American continent.

In the eastern Carolina terrane (Carolina slate belt) of South Carolina the foliated Longtown granite (550 Ma) intrudes the strongly deformed Persimmon Fork Formation [*Barker et al.*, 1995], and there is a possible angular unconformity beneath the fossil-bearing, upper mudstone of the Asbill Pond formation [*Secor et al.*, 1986a, plate 1; *Dennis et al.*, 1993] discussed above. These relations strongly suggest that deformation and metamorphism occurred between 580-535 Ma across the width of the Carolina terrane in South Carolina. These relations argue against a 500-450 Ma "Taconic" orogeny in the Carolina terrane that is a consequence of accretion of the exotic terrane to Laurentia.

Whole rock K-Ar and $^{40}Ar/^{39}Ar$ mineral ages and paleomagnetic evidence that support Middle Ordovician accretion of Carolina to Laurentia [*Kish et al.*, 1979; *Vick et al.*, 1987; *Noel et al.*, 1988; *Offield et al.*, 1995] suggest that some fabric elements recognized in the eastern Piedmont of North Carolina may be related to accretion of the Carolina arc to Laurentia. In the central Piedmont, however, we do not have the data to support that interpretation. The prospect of identifying a collision between Carolina and a Grenville-aged fragment [*Hoffman*, 1991] is held out by the preliminary Nd isotopic data reported by *Mueller et al.* [1996] and *Kozuch et al.* [1993] that suggest a swing from the strongly positive initial ε_{Nd} values (+3 to +6) that are characteristic of the older Carolina terrane [*Samson et al.*, 1995; *Samson*, 1995] to more modest ε_{Nd} values in the +1 to +3 range, and even strongly negative values (-4.2 reported by *Mueller et al.* for the Flat Swamp member of the Cid Formation) in the upper, metasedimentary part of the Carolina slate belt in North Carolina. *Hibbard and Samson* [1995] have suggested a collision with the Goochland terrane [*Farrar*, 1984] of central Virginia might explain the apparent swing in Nd isotopes. Such a hypothesis requires the Goochland terrane to be exotic with respect to Laurentia as recognized by *Hibbard and Samson* [1995]. Recent U-Pb data for the Montpelier meta-anorthosite of the Goochland terrane reported by *Aleinikoff et al.* [1996] appear to "acquit" Goochland from suspect status. These workers report a crystallization age of 1045±10 Ma for the

Montpelier meta-anorthosite, within error of that reported for the Roseland anorthosite in the Blue Ridge (1045±44 Ma, Nd-Sm whole rock isochron [*Pettingill et al.*, 1984]). The Roseland is part of a Grenville basement massif with an attached Laurentian cover sequence [*Herz and Force*, 1984]. The situation in North Carolina is complicated by recent preliminary reports [*Koeppen et al.*, 1995] suggesting that some of the younger, metasedimentary units of the Carolina terrane in North Carolina may be as young as Middle Ordovician. We conclude that it is inappropriate to correlate fabric elements observed in the eastern portion of the Carolina terrane in North Carolina with fabric elements observed in the western Carolina terrane in South Carolina.

Subsequent tectonothermal evolution of the Carolina terrane is interpreted to include middle Paleozoic static recrystallization of metamorphic phases, localized faulting, and Carboniferous uplift related to Alleghanian collision. Late Precambrian-Early Cambrian orogeny in the western Carolina terrane was followed by intrusion of the Silurian-Devonian plutonic complex [*McSween et al.*, 1984; *Butler and Fullagar*, 1978]. $^{40}Ar/^{39}Ar$ mineral ages from the western Carolina terrane yield Carboniferous cooling ages (≈320-300 Ma [*Dallmeyer et al.*, 1986; *Horton et al.*, 1987]). These cooling ages are interpreted to date uplift and west-vergent thrusting of the Carolina terrane above the Laurentian margin along the Alleghanian Appalachian decollement [*Secor et al.*, 1986b], as well as the timing of folding of foliation surfaces and the central Piedmont suture in the western Charlotte belt. Dextral strike-slip shearing along favorably inclined segments of the central Piedmont suture, the Kings Mountain shear zone and Middleton-Lowndesville zone, is interpreted to have ended by ≈312 Ma (U/Pb zircon date reported as age of crystallization of undeformed Cold Point granite [*Horton and McConnell*, 1991].

Tectonic Model

We present here a model for late Precambrian-Early Cambrian (580-535 Ma) peri-Gondwanide orogeny (magmatism and development of a regional metamorphic fabric interpreted to accompany a change in the thickness of the lithosphere) in the western Carolina terrane (Figures 7 and 8b) and speculate on subsequent events prior to Alleghanian continent-continent collision (Figure 8c-8e). The locus of the Carolina arc with respect to recent Late Precambrian plate reconstructions [e.g., *Hoffman*, 1991; *Dalziel et al.*, 1994] is not entirely clear, but the interpretations presented here (Figures 7 and 8) are consistent with reconstructions [e g., *Nance and Murphy*,1994, 1996], based on Nd isotopes and xenocrystic and detrital zircon populations within Neoproterozoic-Cambrian rocks of the Avalonia-Cadomia-Carolina terranes. The reconstruction presented in Figure 7 preserves the geometry observed in the present distribution of these terranes (Figure 1a) requiring neither 180° rotations nor terranes racing past each other in the Paleozoic. We separate Carolina from Florida and the Amazonian craton by a subduction zone, recognizing coeval magmatic activity in the two terranes (Figures 7 and 8a) [*Heatherington et al.*, 1996] and the accumulation of the Florida arc on a Grenville-age basement.

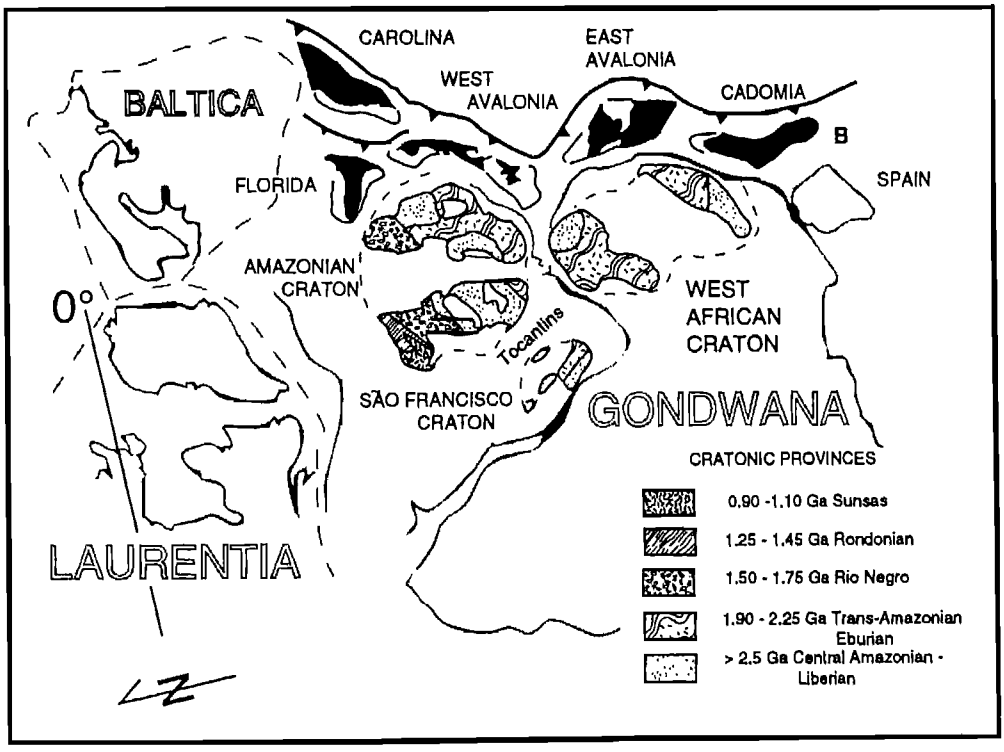

Figure 7. Plate tectonic reconstruction showing distribution of Avalon-Cadomia-Carolina (present day surface outcrops shown in black) relative to Gondwanan cratonic provinces and Laurentia ≈550 Ma. Compare Figure 1a. Modified from *Nance and Murphy* [1996]. Equator from *Hoffman* [1991].

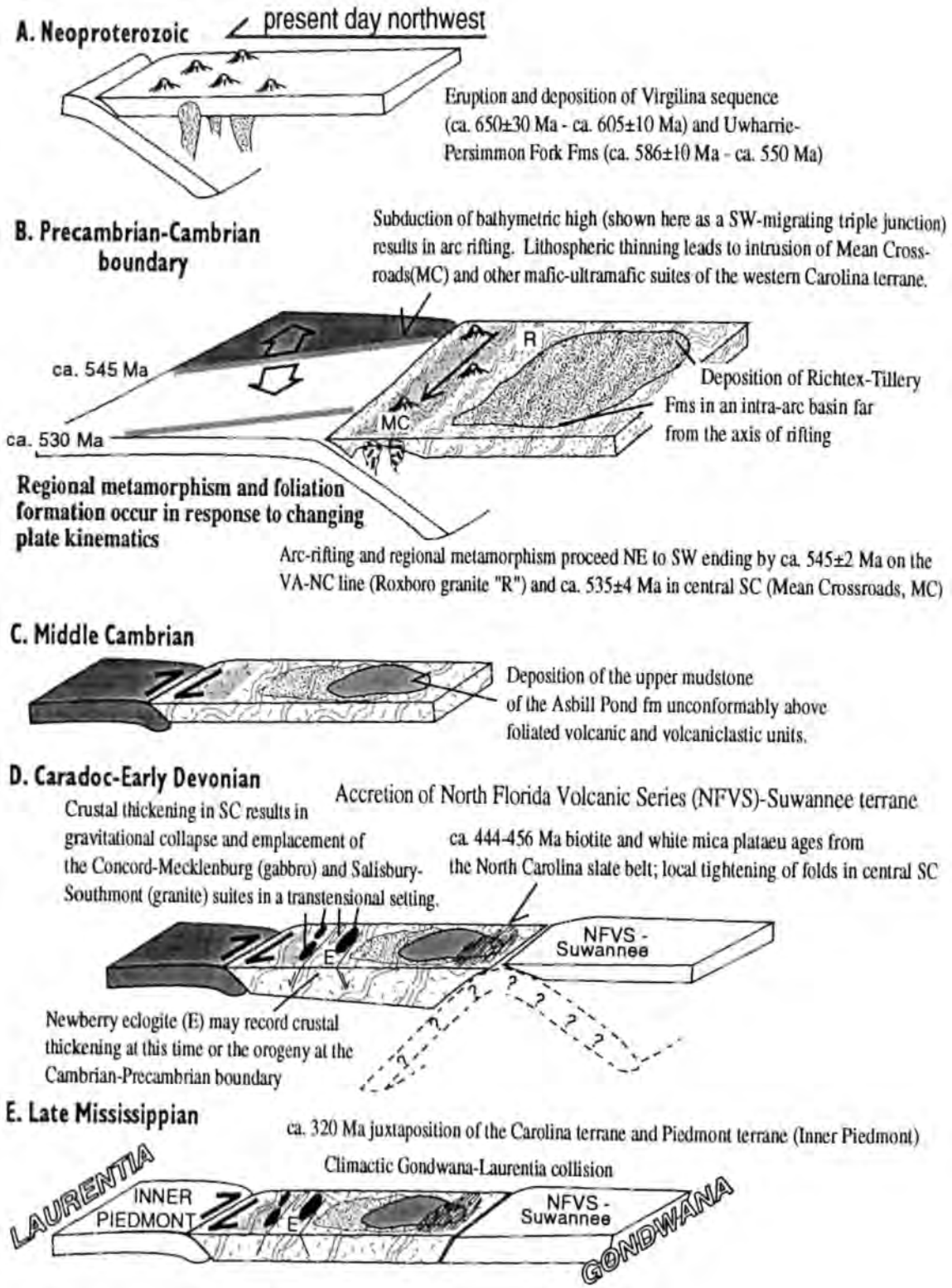

Figure 8. Plate tectonic model for the Carolina terrane from the Late Proterozoic (ca. 650 Ma) to immediately prior to Laurentia-Gondwana collision in the Carboniferous: (a) Neoproterozoic, (b) Precambrian-Cambrian boundary, (c) Middle Cambrian, (d) Caradoc-Early Devonian, and (e) Late Mississippian Interpreted from sources discussed in the Tectonic Model section of the discussion.

Figures 8b and 8c depict in a cartoon way the critical relations discussed in this paper. We show the (present-day) southwest migration of a bathymetric high beneath the Carolina arc at the Precambrian-Cambrian boundary. In Figure 8b this is shown as a migrating triple junction, but a chain of seamounts, or an oceanic plateau are also possibilities. Subduction of the bathymetric high causes arc rifting that allows ultramafic lavas to reach high structural levels without appreciable fractionation. Zoned mafic-ultramafic complexes intrude basalts and basaltic andestites cut by the ultramafic dikes that feed them [*Dennis and Shervais*, 1991, 1992, 1996]. Zircons of the Mean Crossroads complex show no inheritance. Behind the rifted forearc, turbiditic wackes and intercalated greenstones of the Richtex and Tillery Formations (of the North and South Carolina slate belts respectively) are deposited in an intra-arc basin far from the axis of rifting. This entire package is overprinted by a greenschist to amphibolite facies metamorphic fabric, the age of which overlaps in time the crystallization age of the mafic-ultramafic intrusive complexes. In the Roxboro (North Carolina) area ("R" in Figures 1b and 8b) we know this event was over by ≈545±2 Ma (U-Pb zircon), because the undeformed Roxboro granite cuts the strongly foliated volcanic units [*Hibbard and Samson*, 1995]. In northwestern South Carolina the metamorphic fabric predates 535±4 Ma, as discussed above. Assuming little subsequent strike-parallel strain internal to the Carolina terrane and an along strike distance of ≈ 300 km between the areas, then the migration rate of the triple junction (or other linear bathymetric high) along the subduction zone equaled about 30 mm/yr (300 km/10 million years). The migrating triple junction is supported by the facts that (1) postarc rifting, the stratigraphic section is dominated by sedimentary rocks: it is clear that subduction had by and large ended. (2) A reorganization of plate boundaries is probably required by the opening of Iapetus. Other workers in the Avalonia-Cadomia-Carolina peripheral orogens have recognized the onset of strike-slip deformation at about the Precambrian-Cambrian boundary [e.g., *Strachan et al.*, 1996, Figure 4; *Nance and Murphy*, 1996, Figure 6; *Nance et al.*, 1991]. The Cross Hill shear zone [*Lawrence et al.*, 1995] and precursors to the Middleton-Lowndesville zone [*West*, 1996] may have originated as minor dextral faults within the western Carolina terrane with the transition from a convergent to transform plate boundary. By the Middle Cambrian (Figure 8c), orogenic effects had ceased, and the upper, fossiliferous mudstone of the Asbill Pond formation was deposited in angular unconformity on the cleaved rocks of the slate belt [*Secor et al.*, 1986a, Plate I; *Dennis et al.*, 1993].

Amalgamation of Florida and Carolina (Figure 8d) along a dextral transpressional plate boundary is interpreted here to be the cause of ≈455 Ma K/Ar whole rock and $^{40}Ar/^{39}Ar$ mineral ages in the North Carolina slate belt [e.g., *Offield et al.*, 1995] and local tightening of F_1 folds in the eastern Piedmont of South Carolina. Crustal thickening may have accompanied terrane amalgamation with subsequent gravitational collapse, but we do know that ≈400 Ma a linear array of alkalic to subalkalic gabbros with high ε_{Nd} (Concord-Mecklenburg suite [e.g., *McSween et al.* [1984]) and alkalic granites with low initial $^{87}Sr/^{86}Sr$ ratios (Salisbury-Southmont suite [*Butler and Fullagar*, 1978]) intruded the western Carolina terrane. *Dennis* [1991] interpreted these plutons to have been emplaced during lithospheric thinning by gravitational collapse. An amphibolitized Group B eclogite found within the Carolina terrane near Newberry, South Carolina [*Shervais et al.*, 1997; *Libby and Carpenter*, 1970] within a crustal block dominated by one of these plutons may record crustal thickening during this Ordovician event or, alternatively, subduction of warm oceanic crust (e.g., spreading ridge or young hot-spot trace [after *Cloos*, 1993]) during the event at the Precambrian-Cambrian boundary.

By the Late Mississippian, the Carolina terrane and the Inner Piedmont (Piedmont terrane) had amalgamated (Figure 8e) [*Dennis and Wright*, 1997]. Prior to this time the terranes appear to have had distinct and different tectonothermal histories. U-Pb monazite ages from five Inner Piedmont locations show peak metamorphic conditions were reached ≈350-360 Ma and ≈320 Ma [*Dennis and Wright*, 1997]. The Carolina terrane shows evidence for a ≈320 Ma event [e.g., *Dallmeyer et al.*, 1986, *Horton et al.*, 1987]. There is little evidence, however, to support a 360 Ma event in the Carolina terrane. More complete descriptions of Alleghanian effects in the Appalachian Piedmont are given by *Secor et al.* [1986a, b], *Horton et al.* [1987], and *Sacks and Secor* [1990].

Conclusions

1. The western Carolina terrane in northwestern South Carolina comprises mafic-ultramafic zoned plutonic complexes that intrude a mafic to intermediate volcanic pile. This rock association has been interpreted (elsewhere [*Dennis and Shervais*, 1991, 1992, 1996]) to indicate an episode of intra-arc rifting. This package has been metamorphosed to greenschist to lowermost amphibolite facies.
2. Three metamorphosed, deformed plutons in the Mean Crossroads area have been dated by the U-Pb zircon method. These plutons yield crystallization ages between 579±4 and 538±5 Ma.
3. An undeformed, unmetamorphosed pluton that cuts the Mean Crossroads complex has been dated by the U-Pb zircon method and yielded a crystallization age of 535±4 Ma.
4. Deformation and regional metamorphism in the western Carolina terrane in northwestern South Carolina occurred in the period 570-535 Ma.
5. This deformation and regional metamorphism occurred when Carolina was in a peri-Gondwanide position based on a diverse, Middle Cambrian, Tethyan Acado-Baltic fauna recognized in the eastern Carolina terrane in the eastern Piedmont of South Carolina.
6. Observations in the eastern part of the Carolina terrane, including the Longtown metagranite and a possible angular unconformity beneath the upper, trilobite-bearing mudstone of the Asbill Pond formation, suggest this event extended across the width of the Carolina terrane in South Carolina.
7. The regional metamorphic fabric of the Carolina terrane in South Carolina does not record the accretion of Carolina to Laurentia or the "Taconic" orogeny, but instead, records ongoing kinematic and thermal processes contemporary with the accumulation of a long-lived oceanic volcanic arc.

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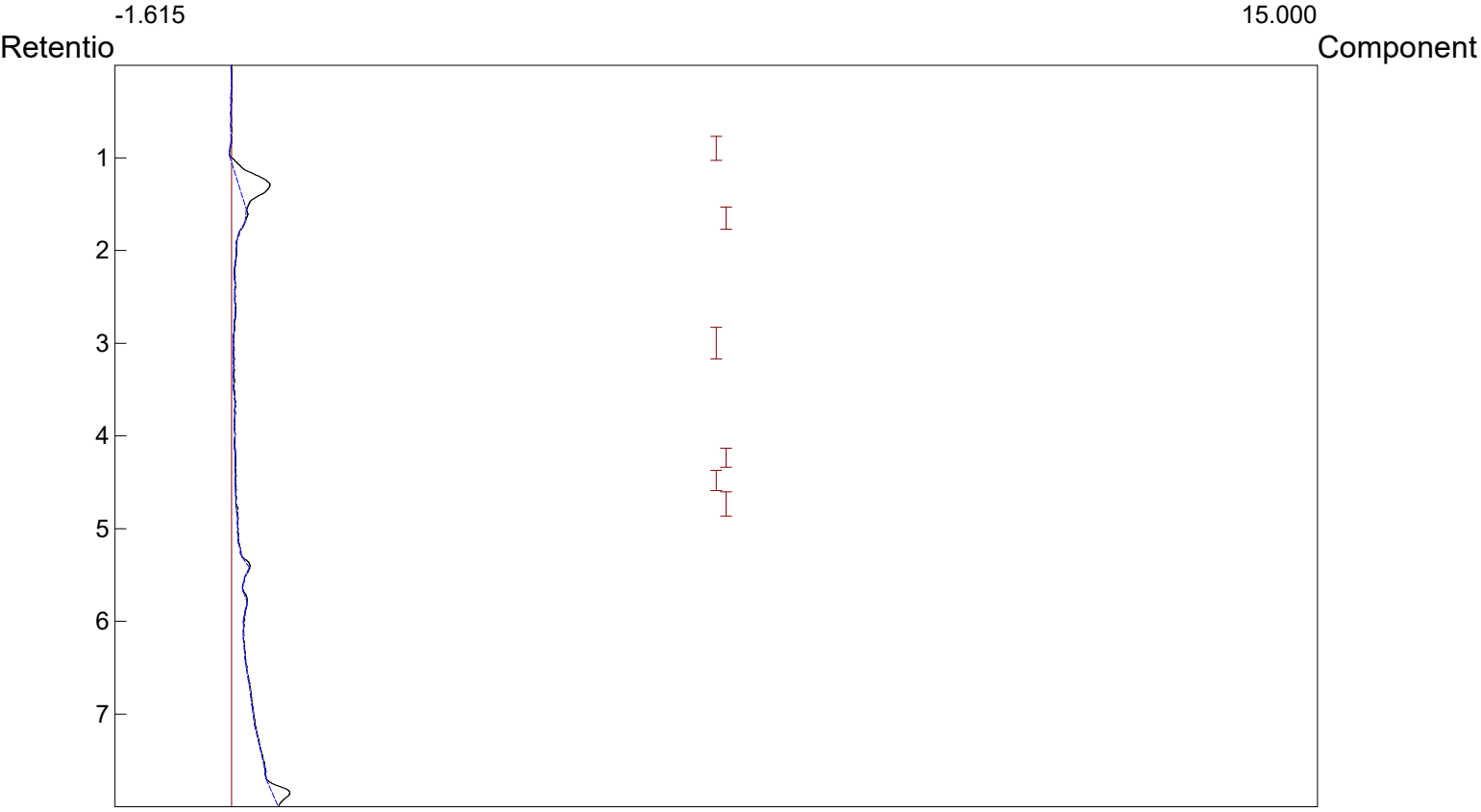
APPENDIX D

Field Screening Logs

Lab name: KLM Environmental, LLC
Collected: 4/27/21
Analysis date: 04/27/2021 16:32:47
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-1

Temperature program:

Init temp	Hold	Ramp	Final temp



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Collected: 4/27/21
Analysis date: 04/27/2021 16:55:32
Method: Headspace Injection
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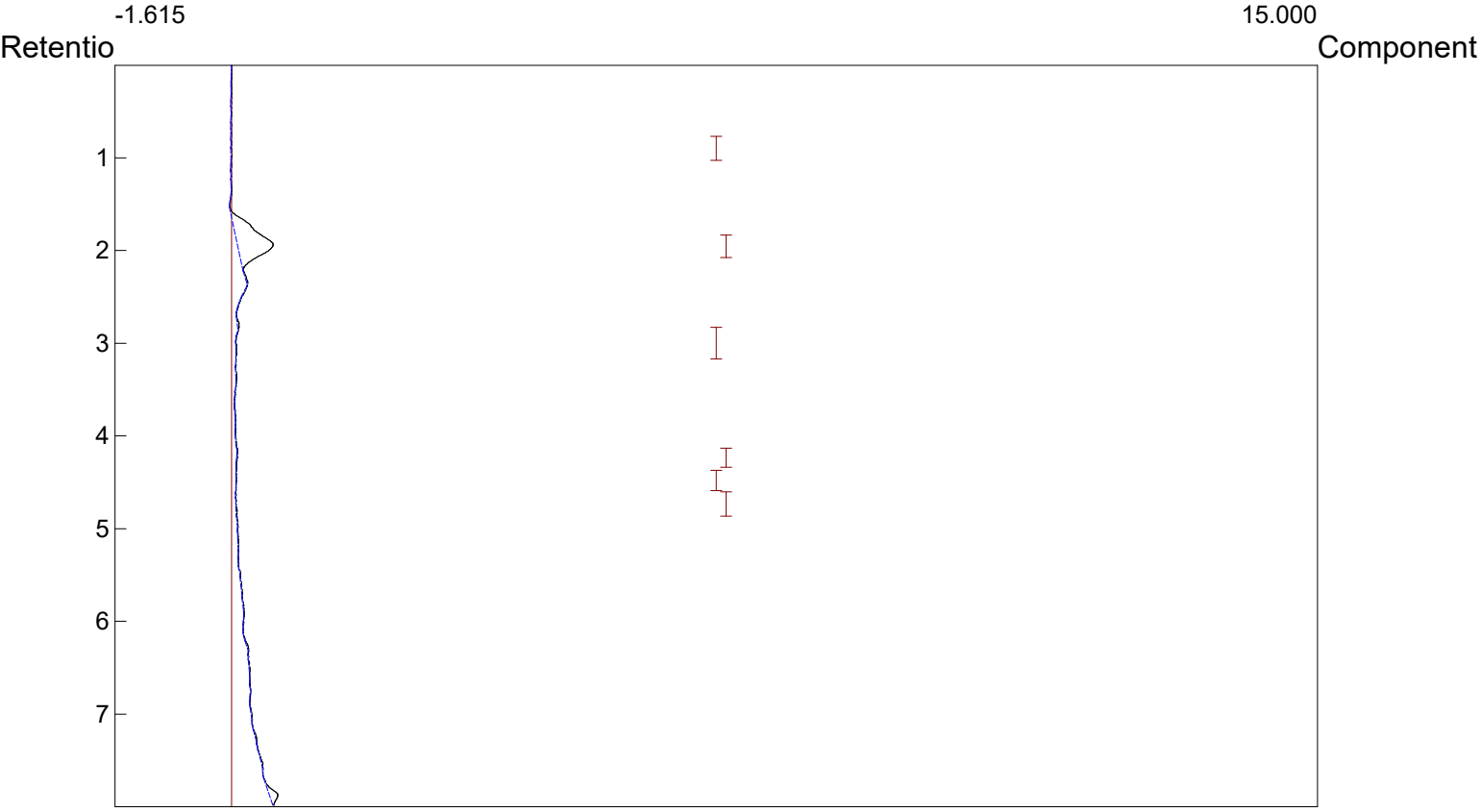
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-2

Temperature program:

Init temp	Hold	Ramp	Final temp



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Method: Headspace Injection
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Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
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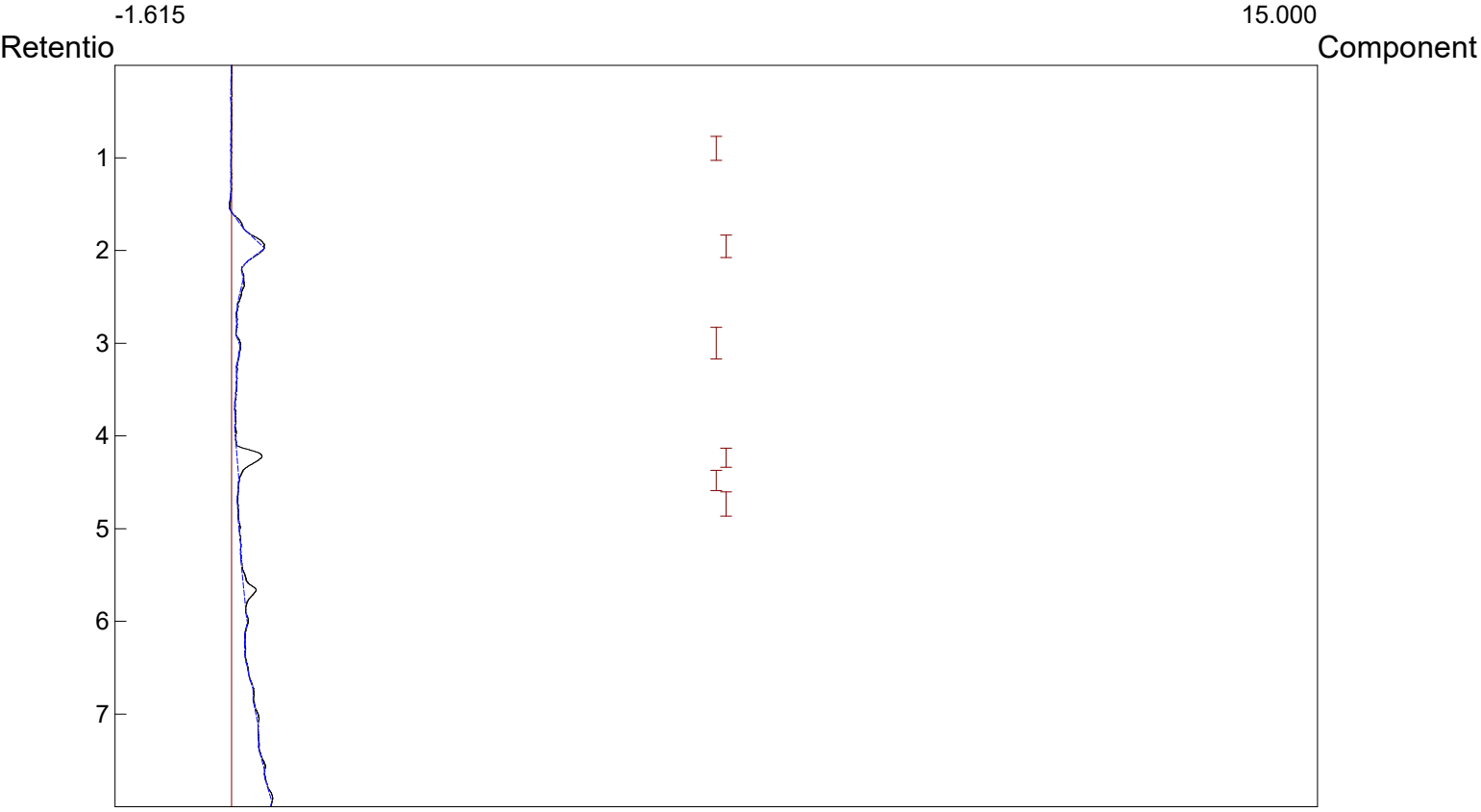

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Method: Headspace Injection
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Carrier: HELIUM AT 5 PSI
Sample: GP-4

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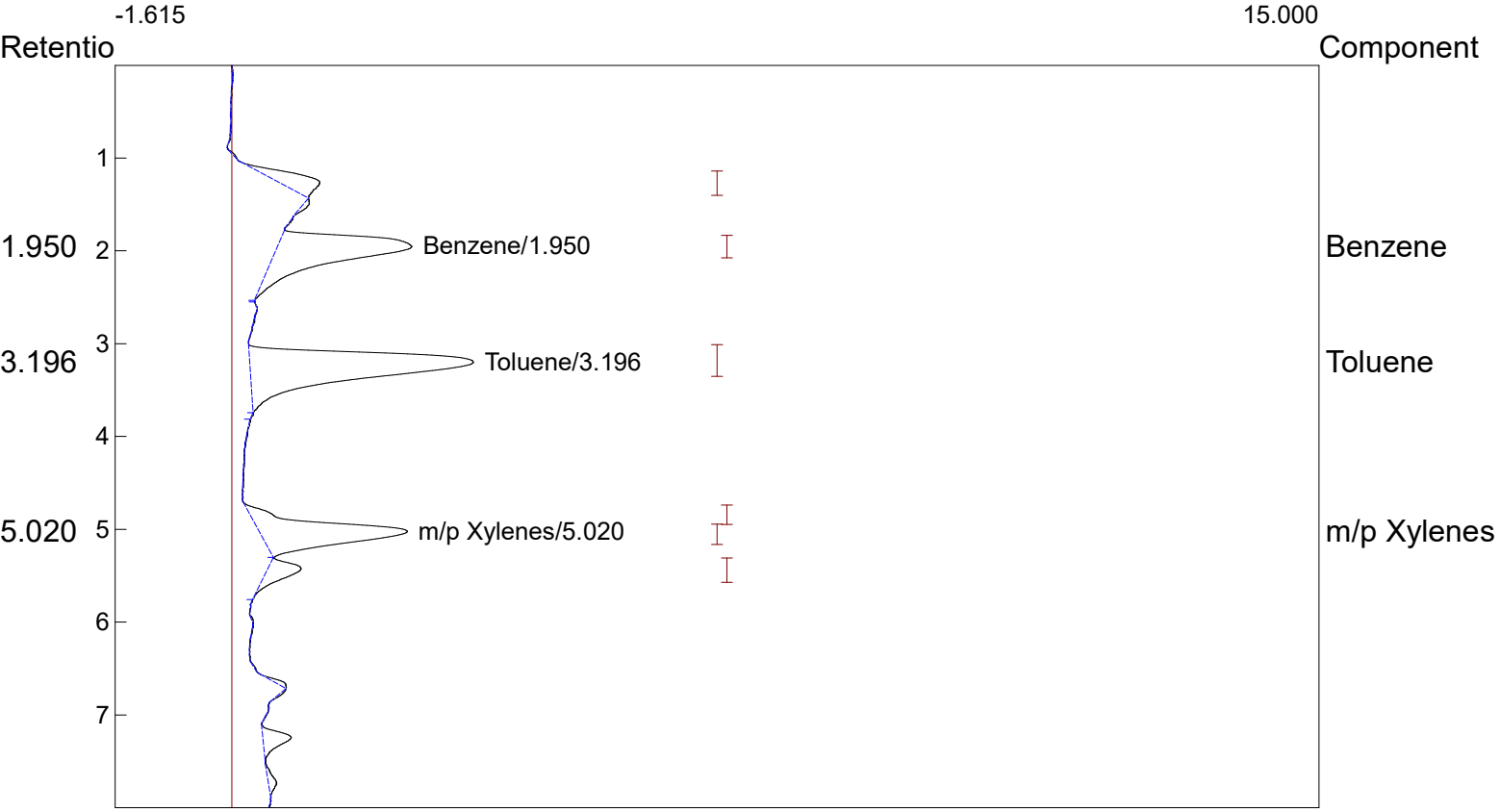

Component	Retention	Area	External	Units
Benzene	1.950	33.9016	87.2246	ppb
Toluene	3.196	56.0920	176.6944	ppb
m/p Xylenes	5.020	30.0608	89.9238	ppb
		120.0544	353.8428	

Lab name: KLM Environmental, LLC
Collected: 4/27/21
Analysis date: 04/27/2021 18:59:03
Method: Headspace Injection
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Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-5

Temperature program:

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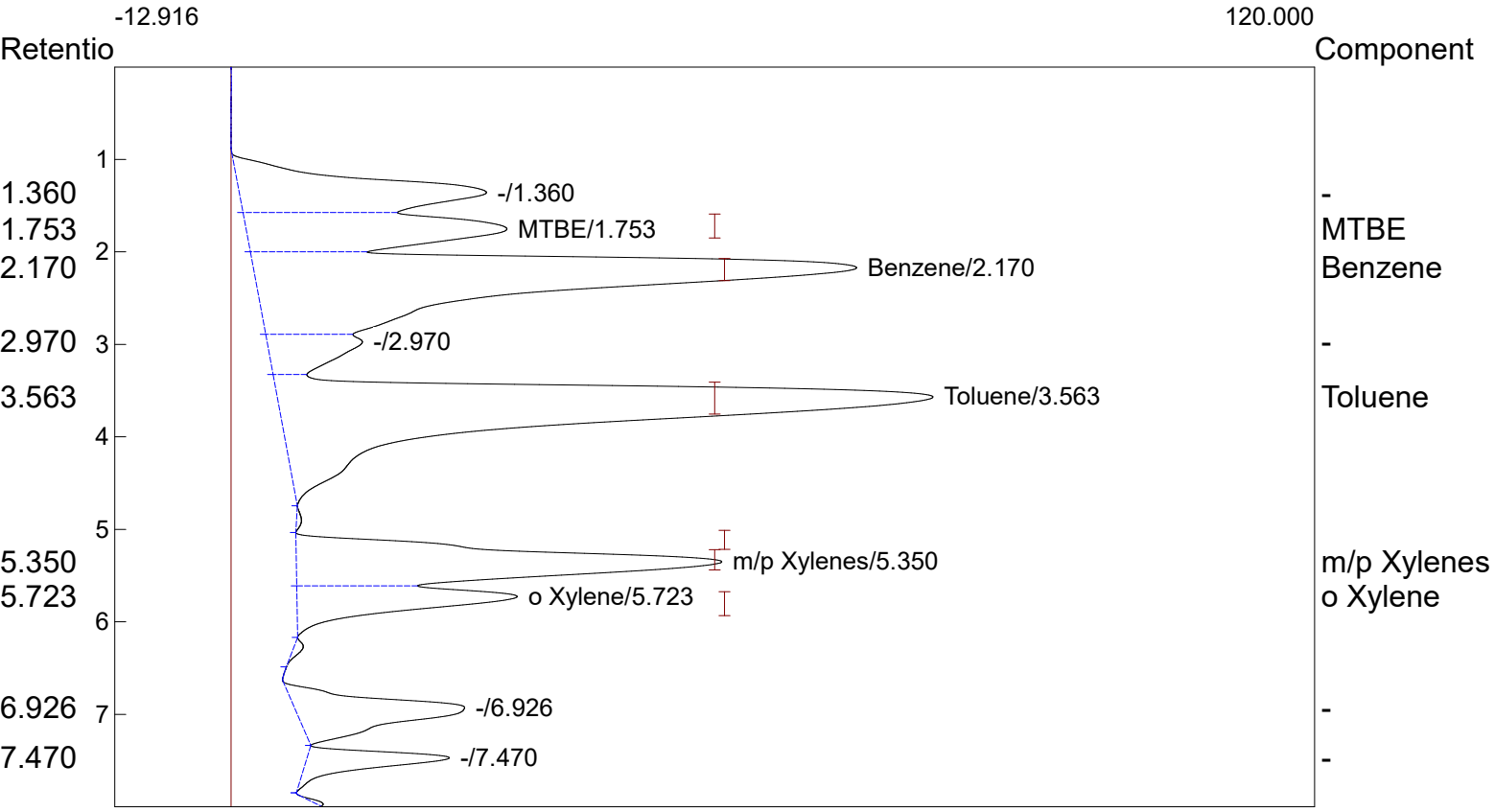

Component	Retention	Area	External	Units
MTBE	1.753	584.0208	4386.6482	ppb
Benzene	2.170	1774.9732	4566.7872	ppb
Toluene	3.563	1977.1876	6228.3041	ppb
m/p Xylenes	5.350	898.1134	2686.6135	ppb
o Xylene	5.723	371.3392	2565.5249	ppb
		5605.6342	20433.8780	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 12:38:48
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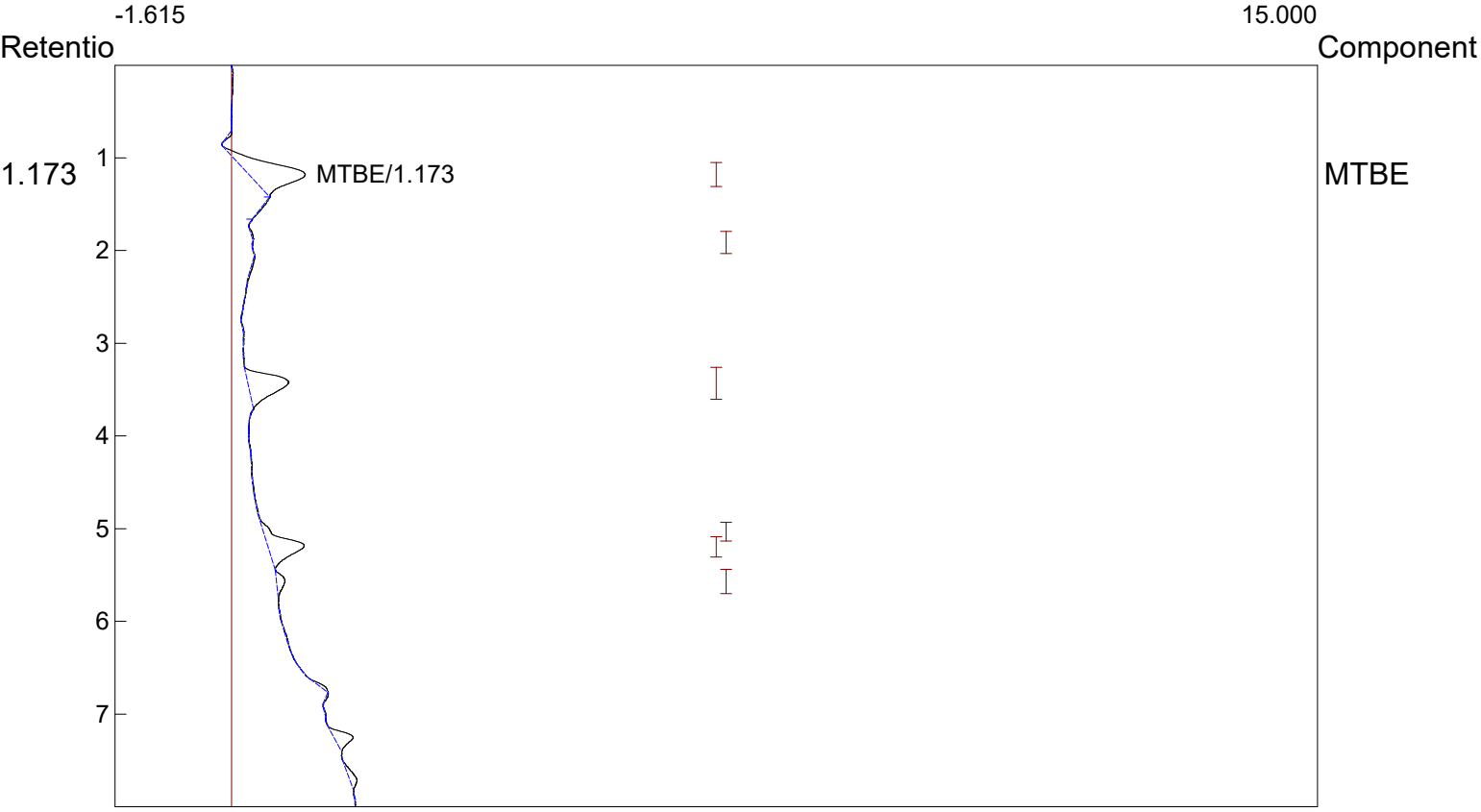
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-6

Temperature program:

Init temp	Hold	Ramp	Final temp

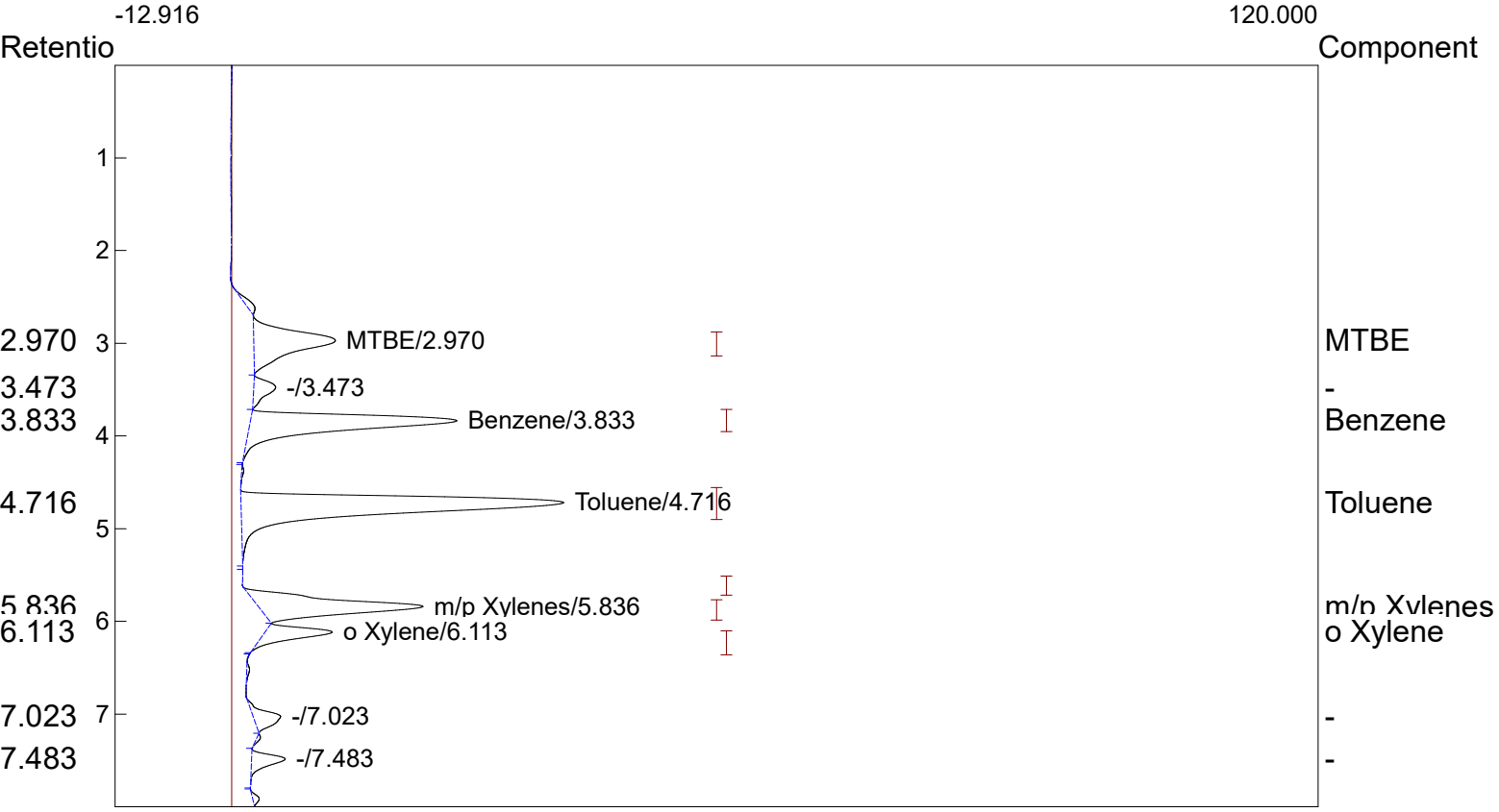


Component	Retention	Area	External	Units
MTBE	1.173	12.0704	90.6622	ppb
		12.0704	90.6622	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 12:56:21
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-7

Temperature program:

Init temp	Hold	Ramp	Final temp

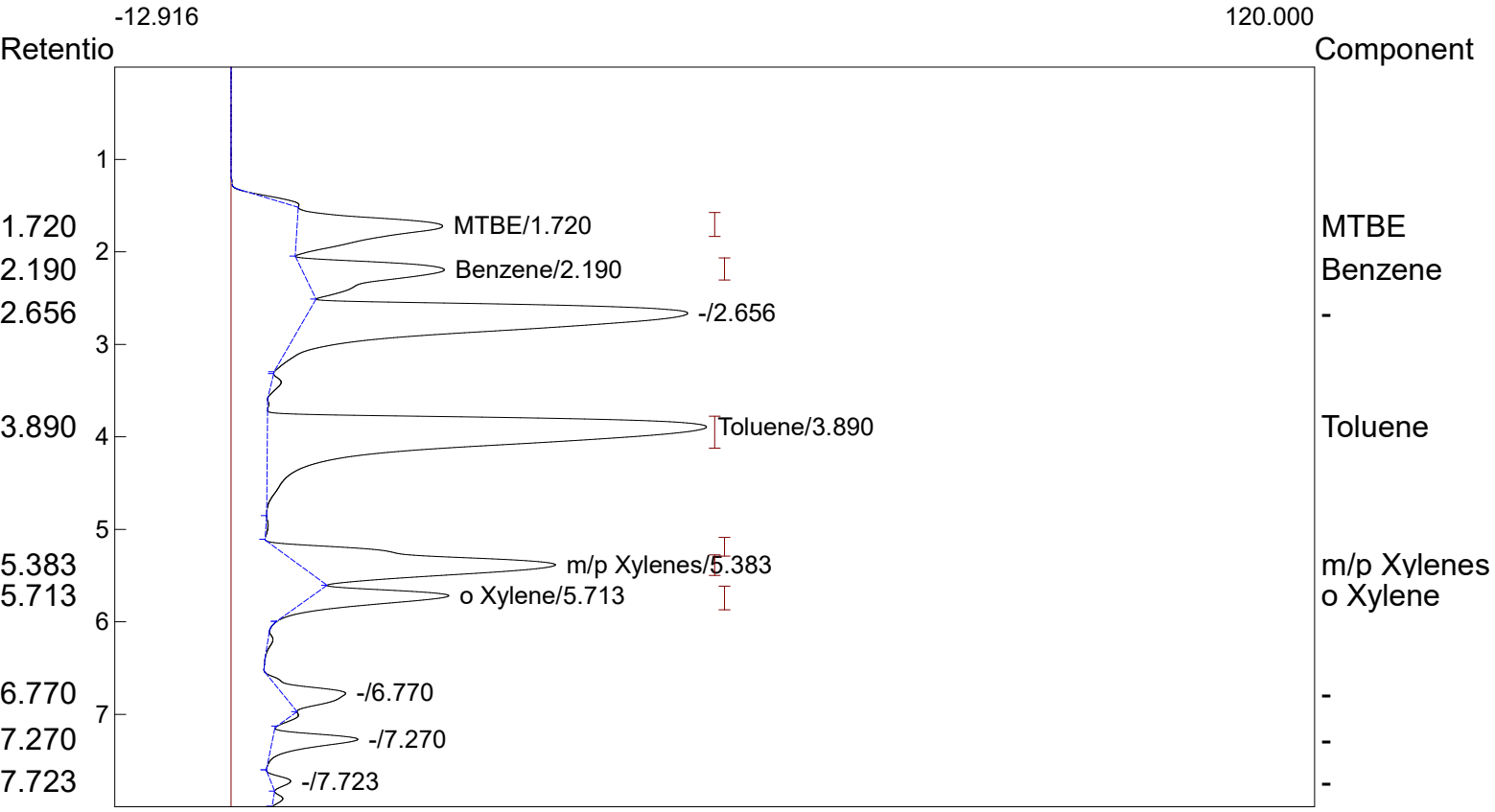


Component	Retention	Area	External	Units
MTBE	2.970	139.2520	1045.9380	ppb
Benzene	3.833	241.4792	621.2962	ppb
Toluene	4.716	429.2830	1352.2769	ppb
m/p Xylenes	5.836	186.6882	558.4585	ppb
o Xylene	6.113	58.2740	402.6060	ppb
		1054.9764	3980.5756	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 13:45:52
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-9

Temperature program:

Init temp	Hold	Ramp	Final temp

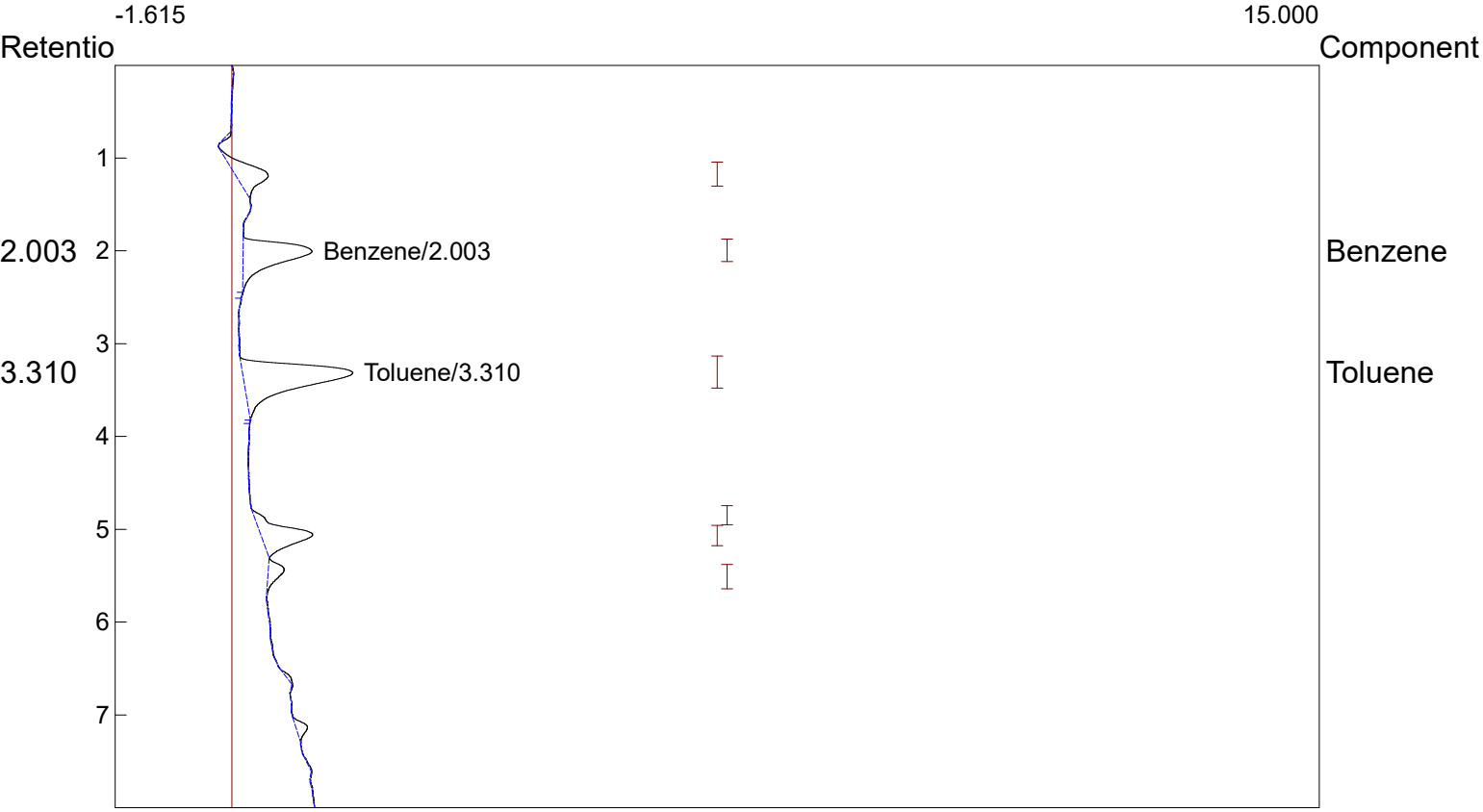


Component	Retention	Area	External	Units
MTBE	1.720	238.3150	1790.0117	ppb
Benzene	2.190	215.7828	555.1825	ppb
Toluene	3.890	967.5900	3047.9884	ppb
m/p Xylenes	5.383	410.3610	1227.5526	ppb
o Xylene	5.713	150.7878	1041.7695	ppb
		1982.8366	7662.5047	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 13:14:02
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-9

Temperature program:

Init temp	Hold	Ramp	Final temp

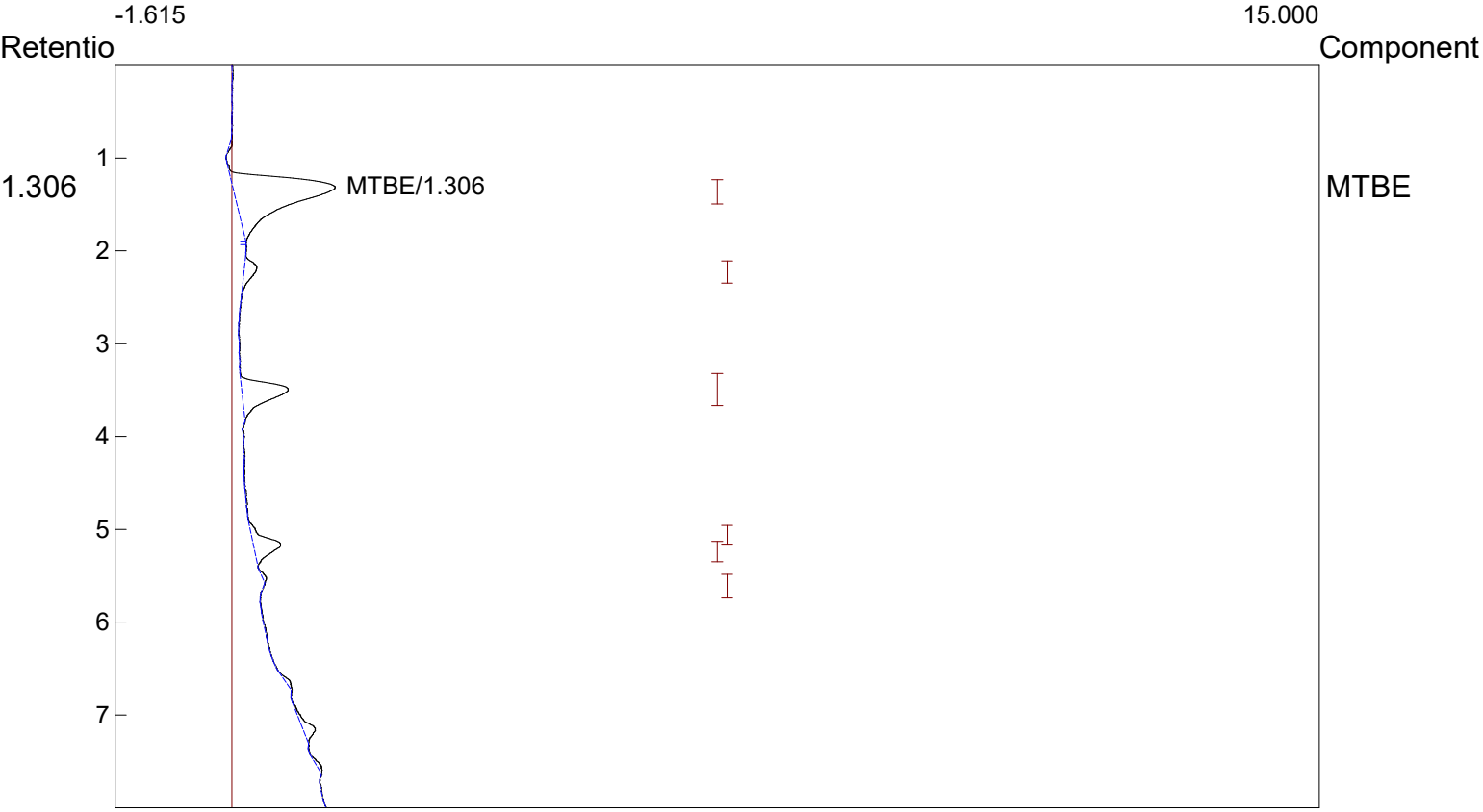


Component	Retention	Area	External	Units
Benzene	2.003	14.0312	36.1005	ppb
Toluene	3.310	24.5168	77.2299	ppb
		38.5480	113.3305	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 15:07:27
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-10

Temperature program:

Init temp	Hold	Ramp	Final temp

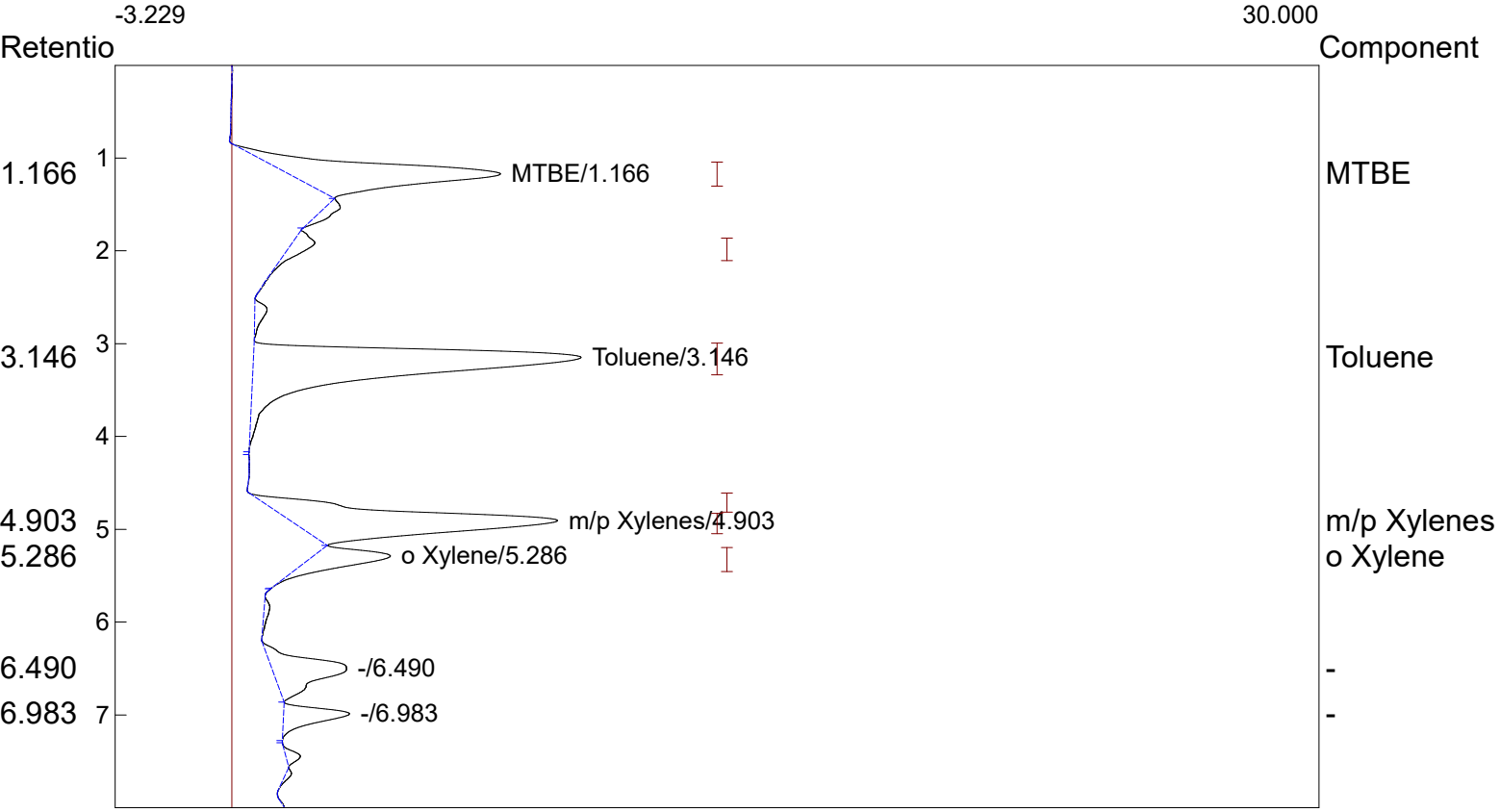


Component	Retention	Area	External	Units
MTBE	1.306	27.9204	209.7134	ppb
		27.9204	209.7134	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 15:45:06
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-11

Temperature program:

Init temp	Hold	Ramp	Final temp

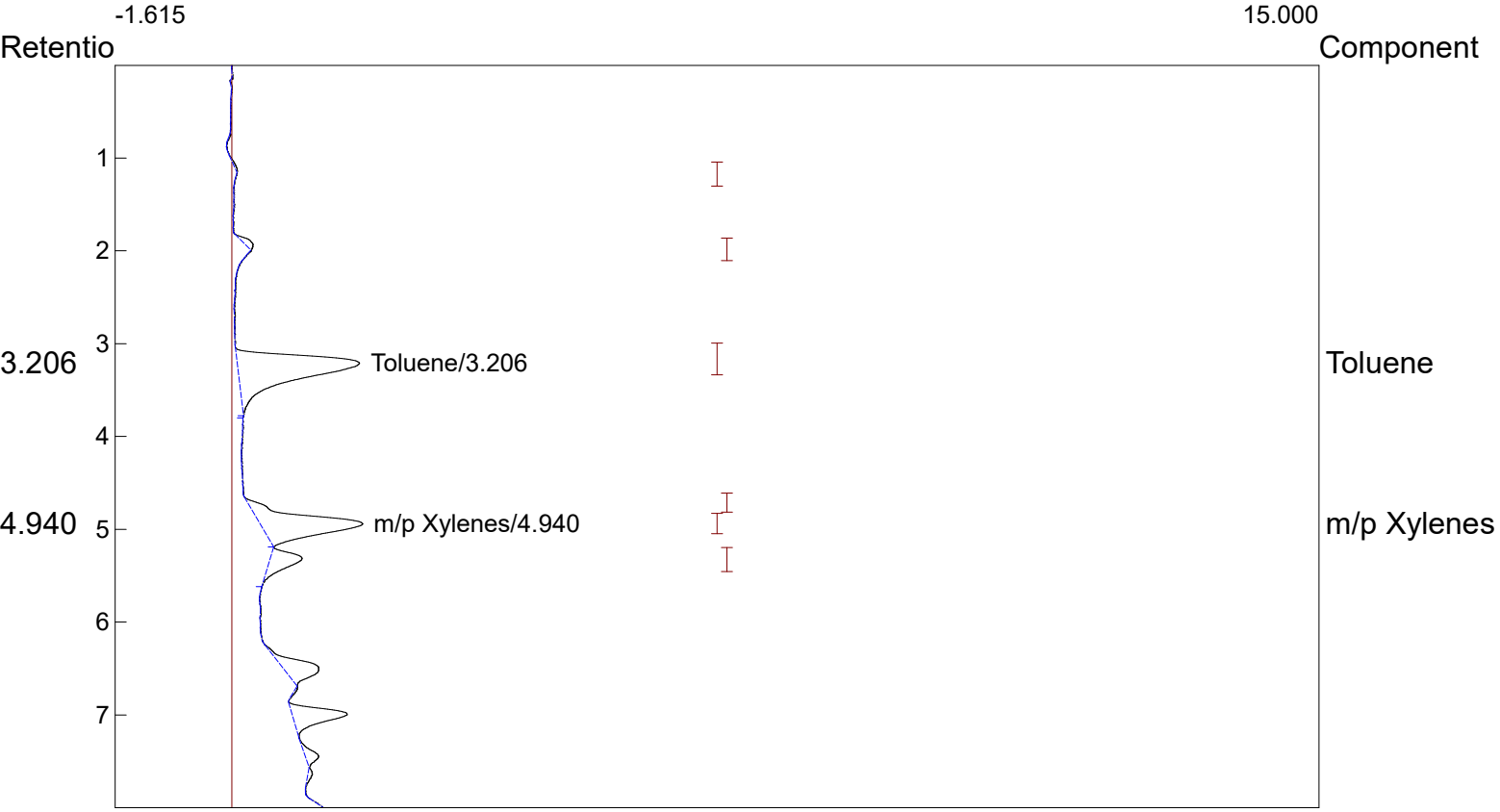


Component	Retention	Area	External	Units
MTBE	1.166	86.0184	646.0942	ppb
Toluene	3.146	167.1036	526.3901	ppb
m/p Xylenes	4.903	111.6152	333.8853	ppb
o Xylene	5.286	25.3312	175.0093	ppb
		390.0684	1681.3790	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 16:05:45
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-12

Temperature program:

Init temp	Hold	Ramp	Final temp

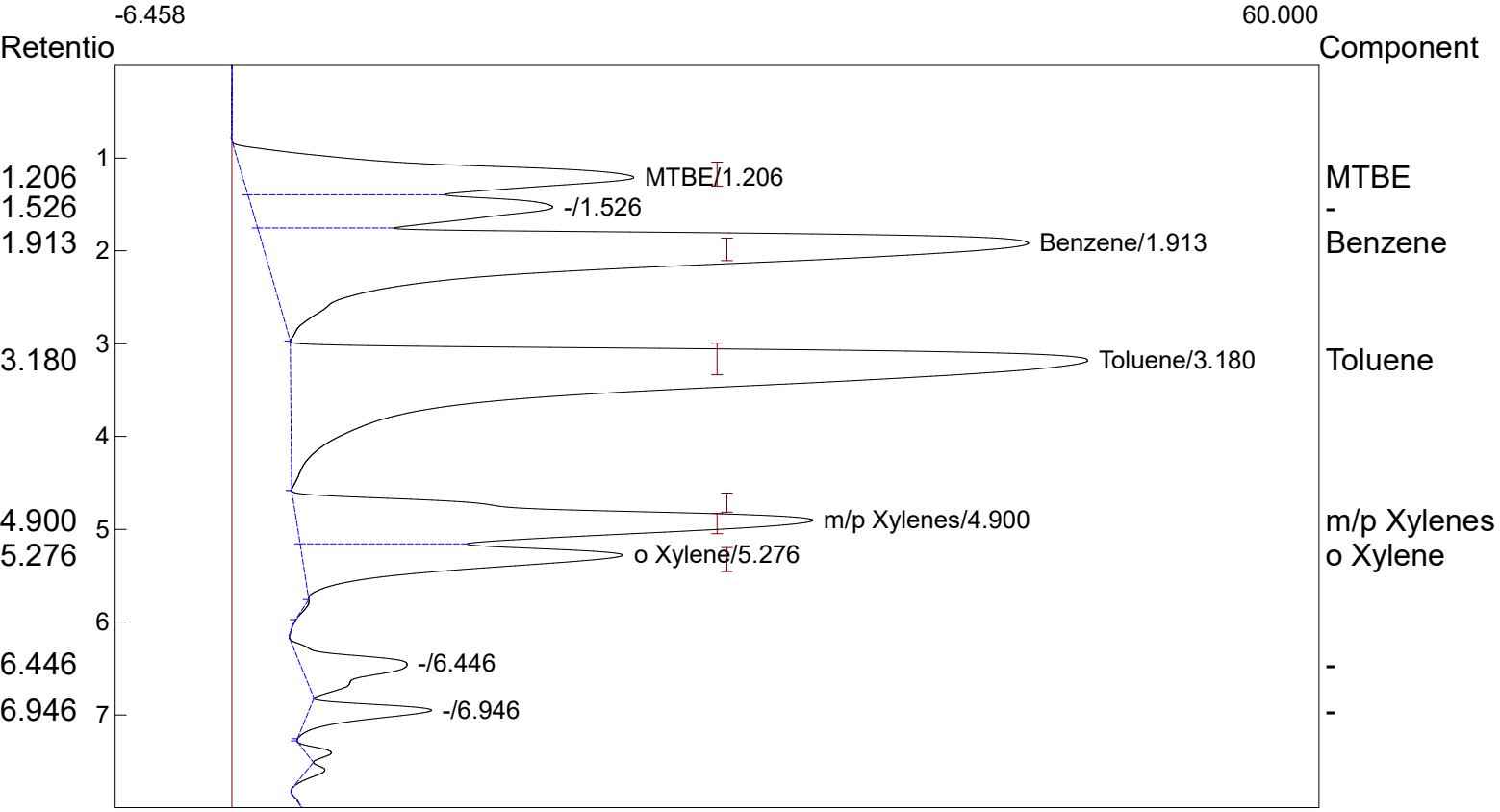


Component	Retention	Area	External	Units
Toluene	3.206	27.9720	88.1141	ppb
m/p Xylenes	4.940	19.1224	57.2027	ppb
		47.0944	145.3168	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 16:42:45
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-13

Temperature program:

Init temp	Hold	Ramp	Final temp

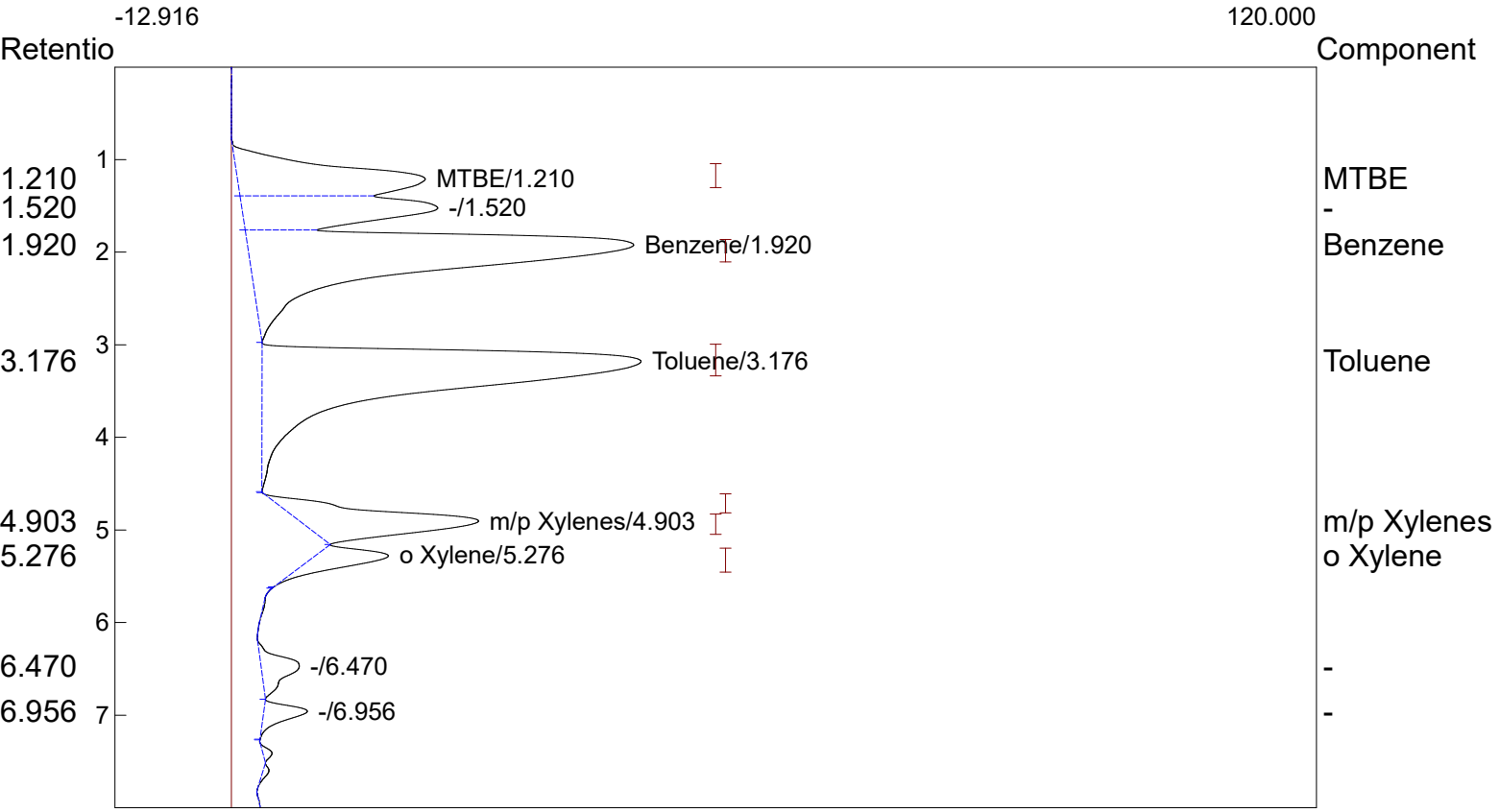


Component	Retention	Area	External	Units
MTBE	1.206	395.0743	2967.4491	ppb
Benzene	1.913	1062.4157	2733.4646	ppb
Toluene	3.180	1267.0776	3991.3990	ppb
m/p Xylenes	4.900	547.5796	1638.0278	ppb
o Xylene	5.276	279.9816	1934.3494	ppb
		3552.1288	13264.6900	

Lab name: KLM Environmental, LLC
Collected: 4/28/21
Analysis date: 04/28/2021 16:23:54
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-14

Temperature program:

Init temp	Hold	Ramp	Final temp

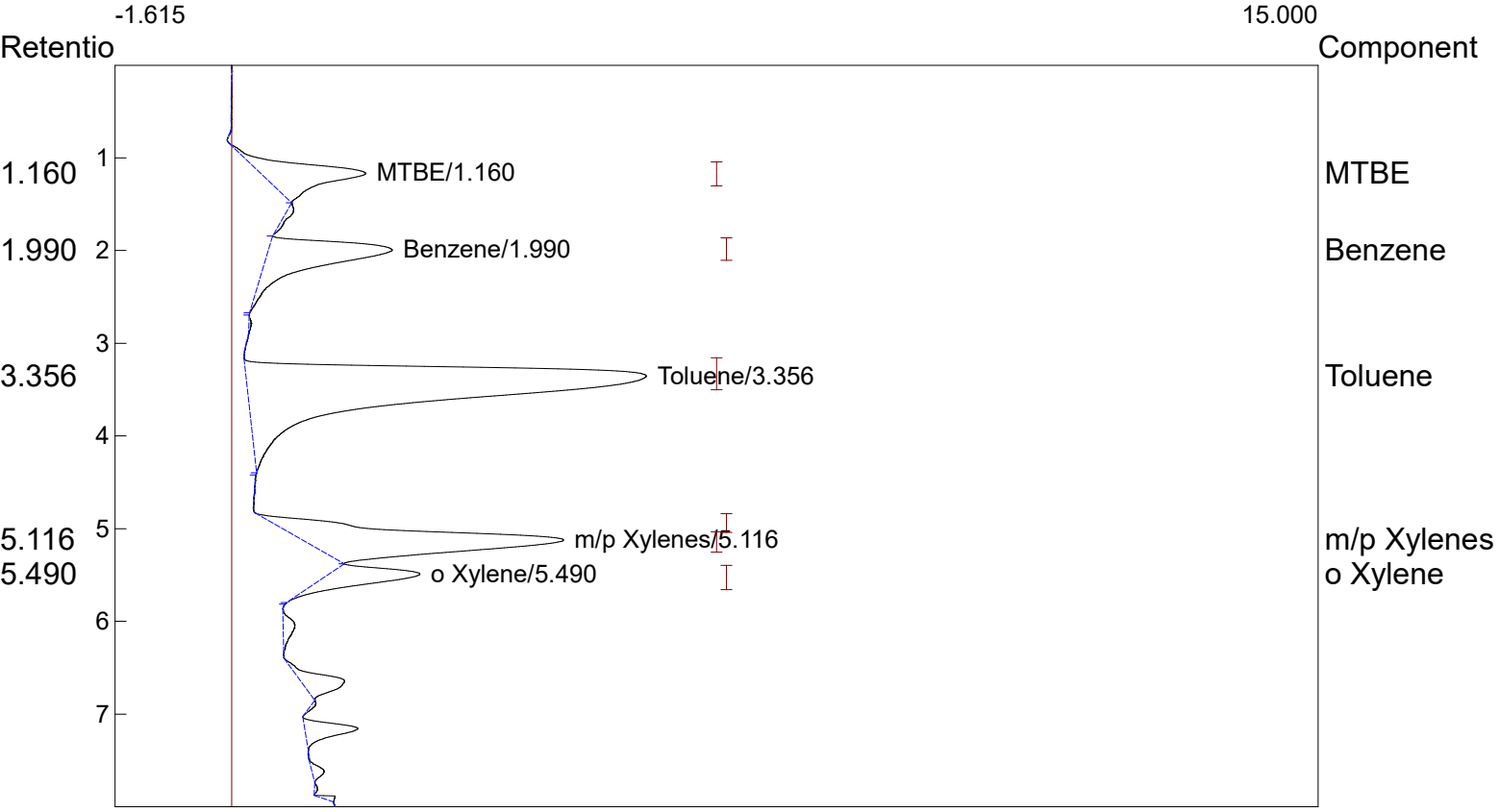


Component	Retention	Area	External	Units
MTBE	1.210	402.9868	3026.8808	ppb
Benzene	1.920	1096.5696	2821.3384	ppb
Toluene	3.176	1191.5592	3753.5098	ppb
m/p Xylenes	4.903	319.5164	955.8003	ppb
o Xylene	5.276	102.7398	709.8133	ppb
		3113.3718	11267.3427	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 09:21:56
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-15

Temperature program:

Init temp	Hold	Ramp	Final temp

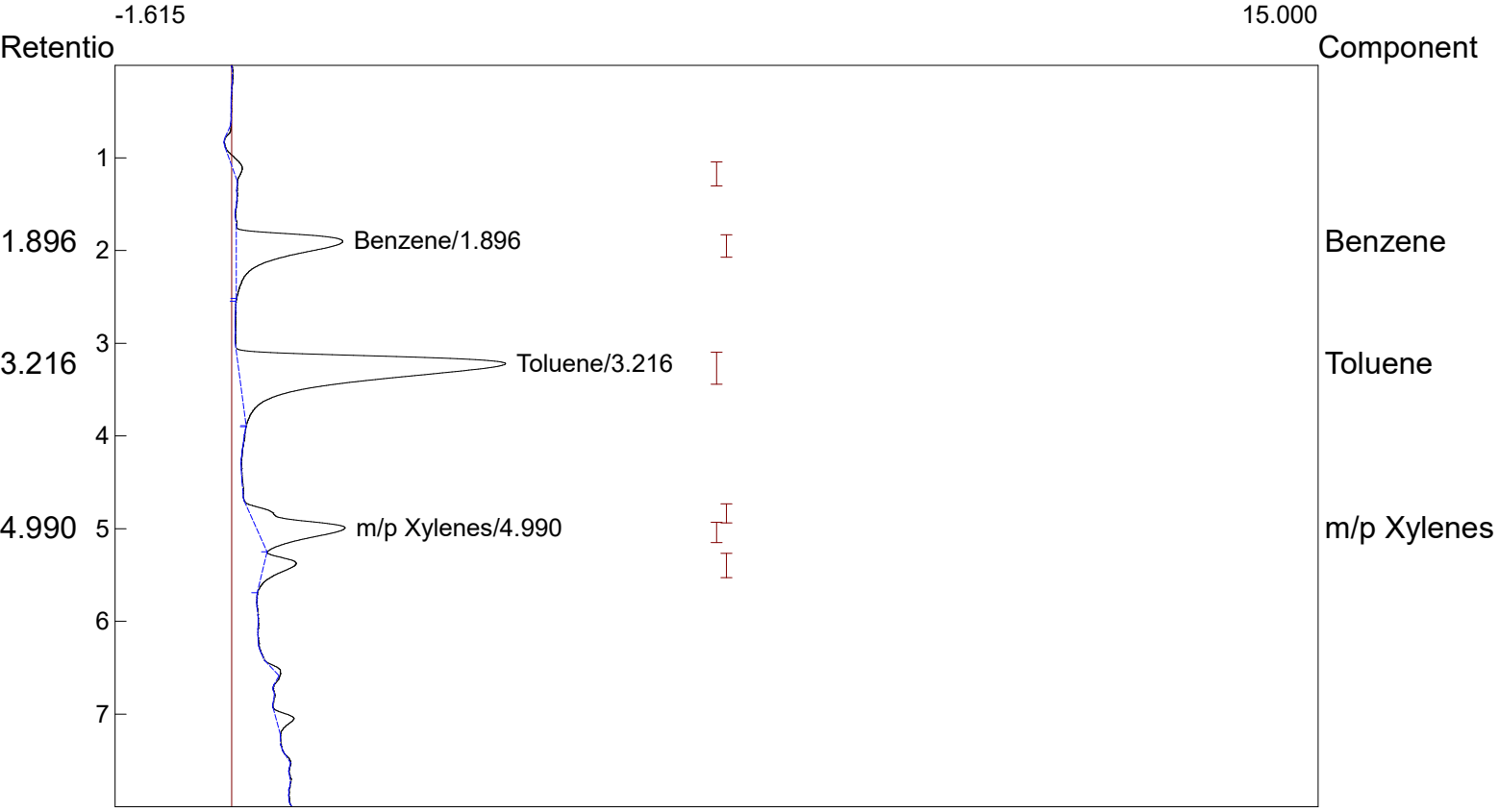


Component	Retention	Area	External	Units
MTBE	1.160	20.6876	155.3870	ppb
Benzene	1.990	28.6520	73.7181	ppb
Toluene	3.356	131.0780	412.9065	ppb
m/p Xylenes	5.116	53.6952	160.6236	ppb
o Xylene	5.490	14.1198	97.5515	ppb
		248.2326	900.1867	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 09:38:34
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-16

Temperature program:

Init temp	Hold	Ramp	Final temp

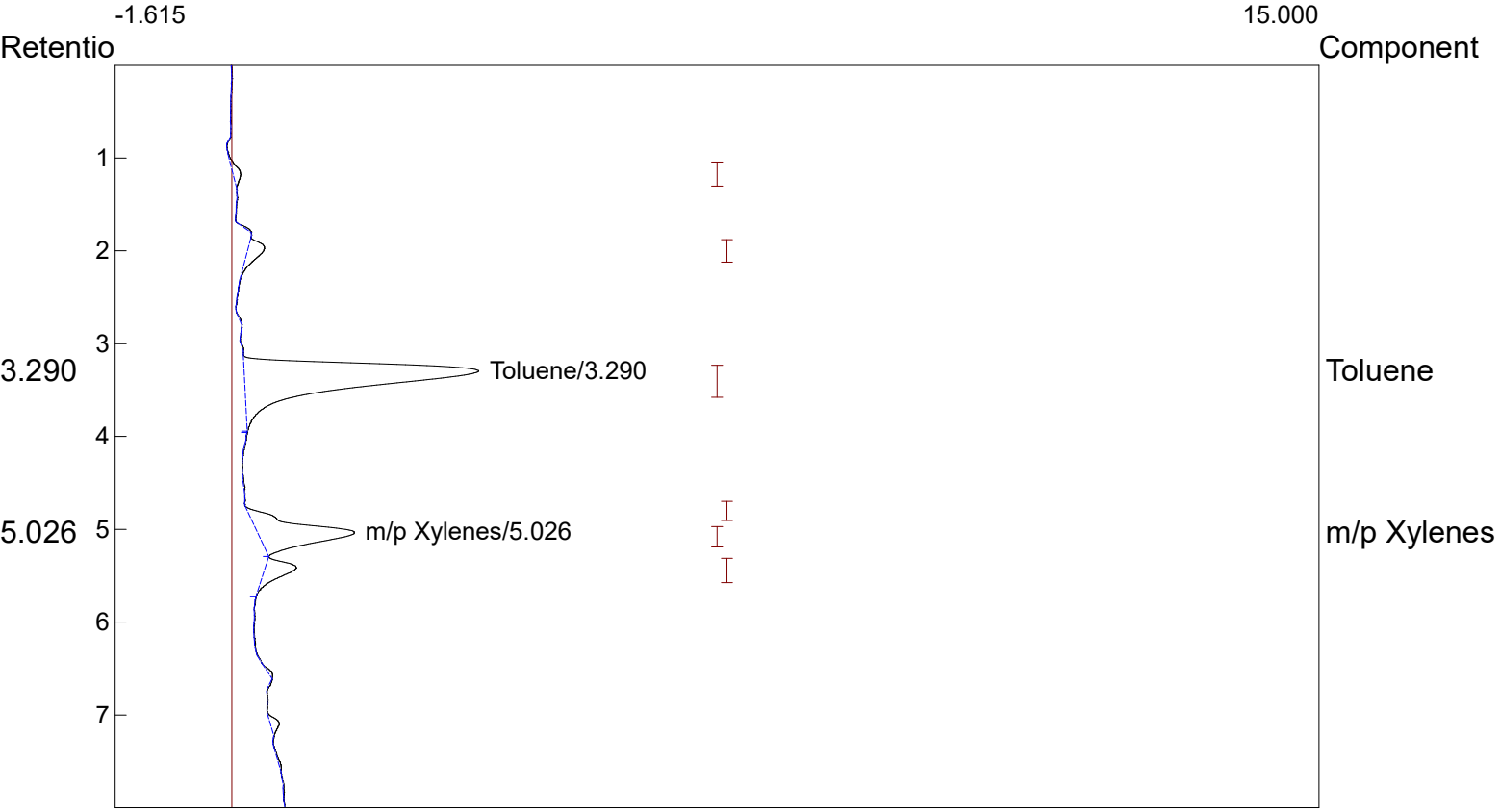


Component	Retention	Area	External	Units
Benzene	1.896	23.0462	59.2950	ppb
Toluene	3.216	62.7338	197.6166	ppb
m/p Xylenes	4.990	16.9848	50.8083	ppb
		102.7648	307.7200	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 11:03:52
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-17

Temperature program:

Init temp	Hold	Ramp	Final temp

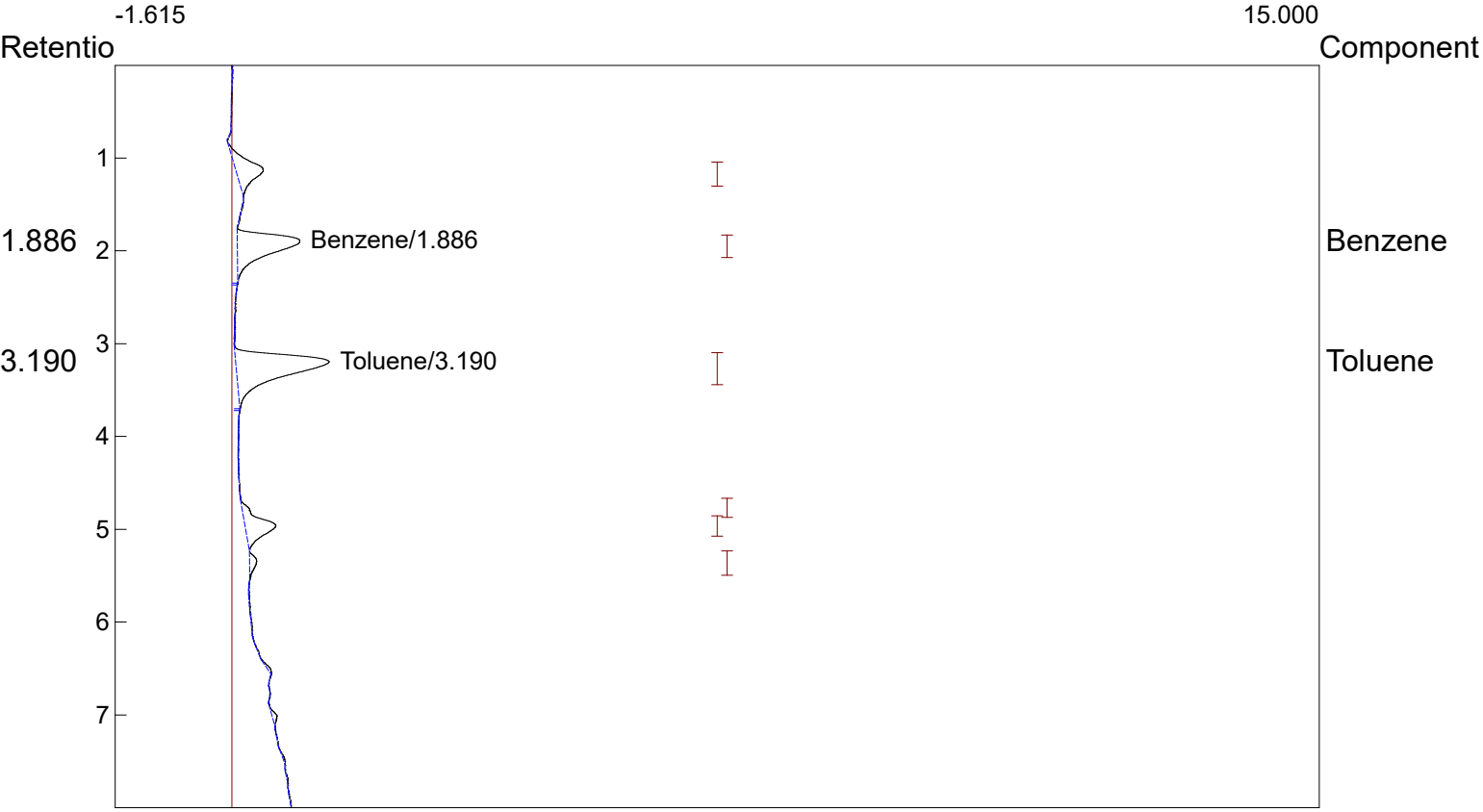


Component	Retention	Area	External	Units
Toluene	3.290	53.9322	169.8909	ppb
m/p Xylenes	5.026	18.6682	55.8440	ppb
		72.6004	225.7349	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 09:55:35
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-18

Temperature program:

Init temp	Hold	Ramp	Final temp

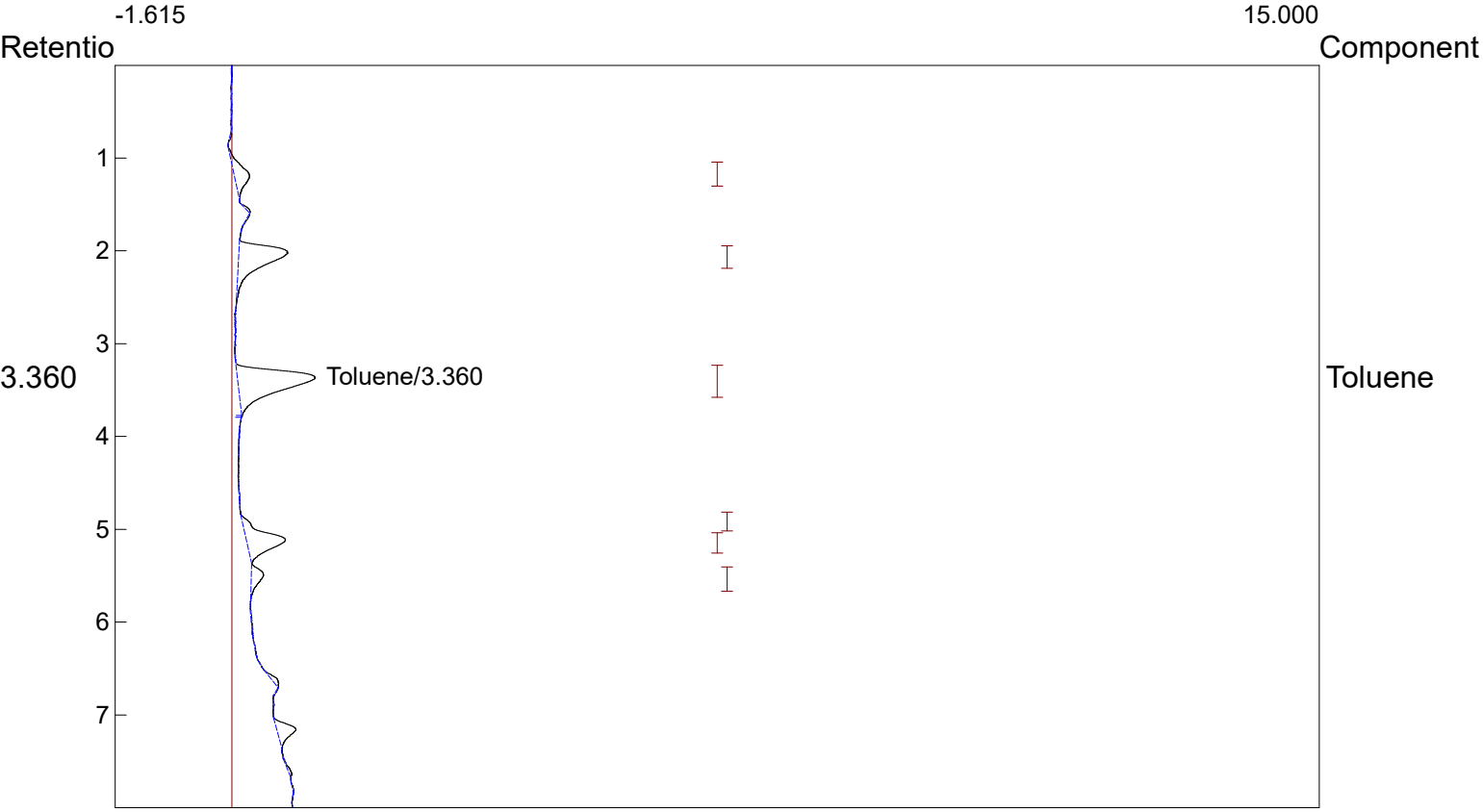


Component	Retention	Area	External	Units
Benzene	1.886	12.2024	31.3953	ppb
Toluene	3.190	19.8308	62.4687	ppb
		32.0332	93.8639	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 10:45:48
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-19

Temperature program:

Init temp	Hold	Ramp	Final temp

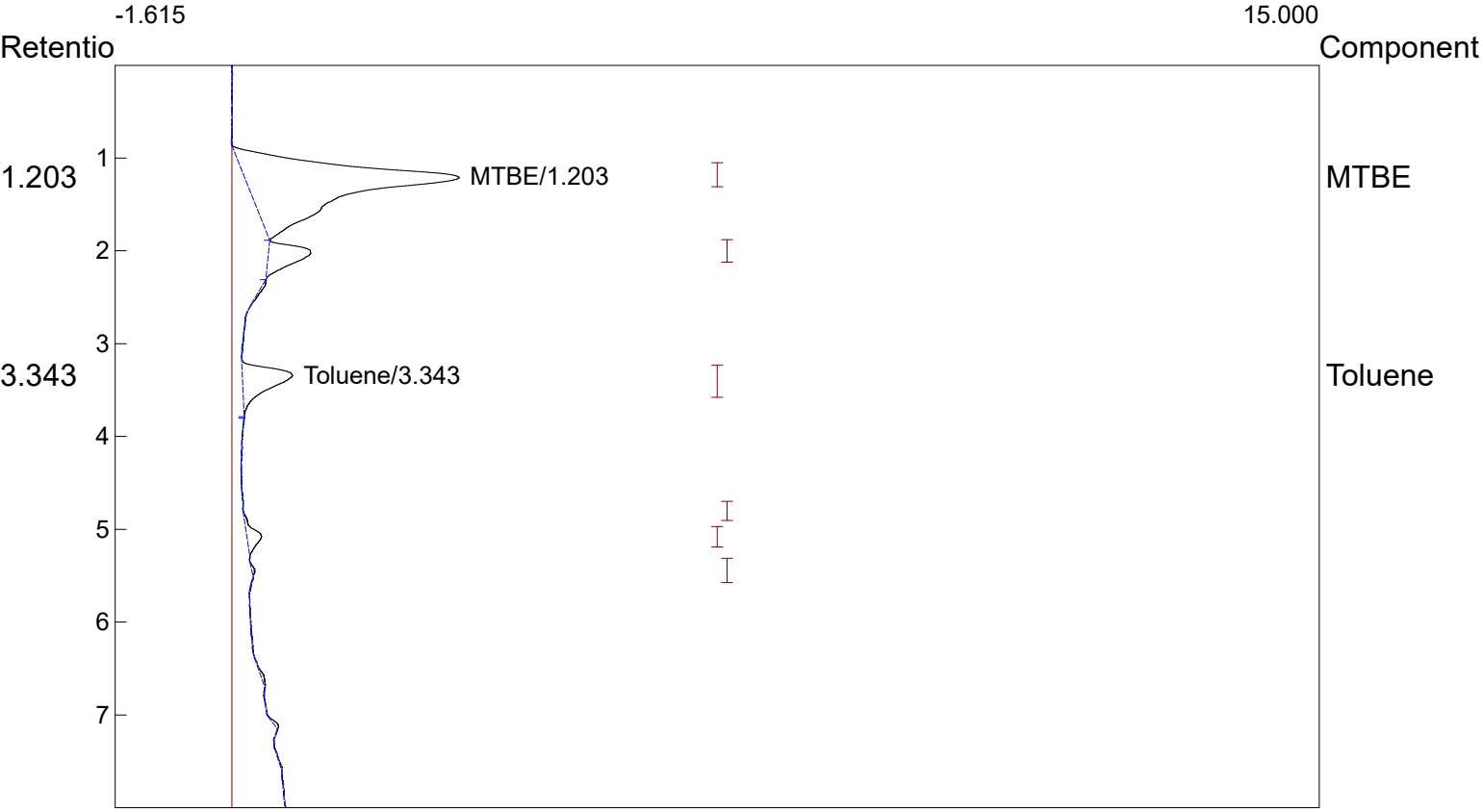


Component	Retention	Area	External	Units
Toluene	3.360	15.7998	49.7707	ppb
		15.7998	49.7707	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 11:33:02
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-20

Temperature program:

Init temp	Hold	Ramp	Final temp

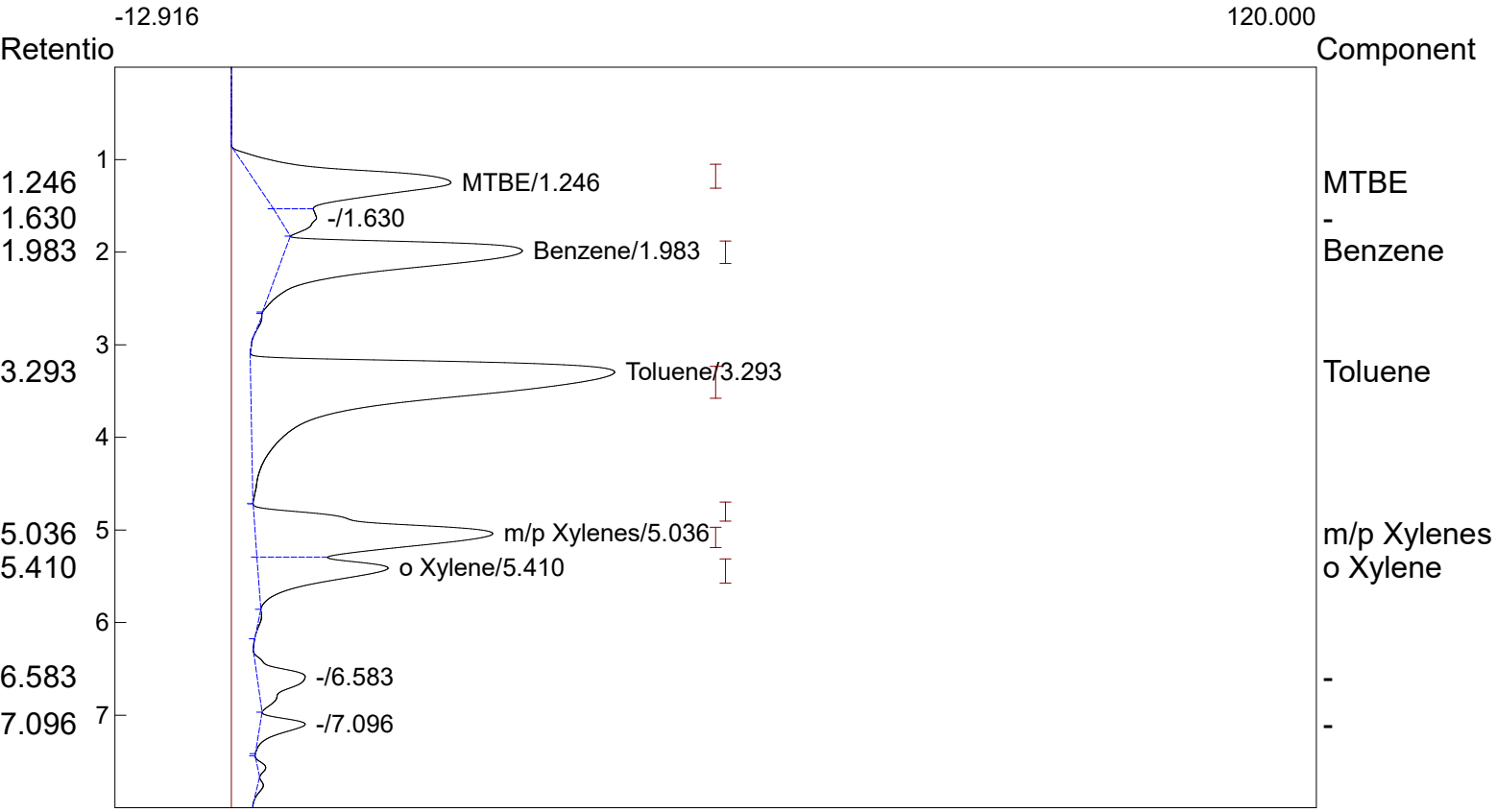


Component	Retention	Area	External	Units
MTBE	1.203	67.7732	509.0524	ppb
Toluene	3.343	10.3810	32.7010	ppb
		78.1542	541.7534	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 13:22:43
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-21

Temperature program:

Init temp	Hold	Ramp	Final temp

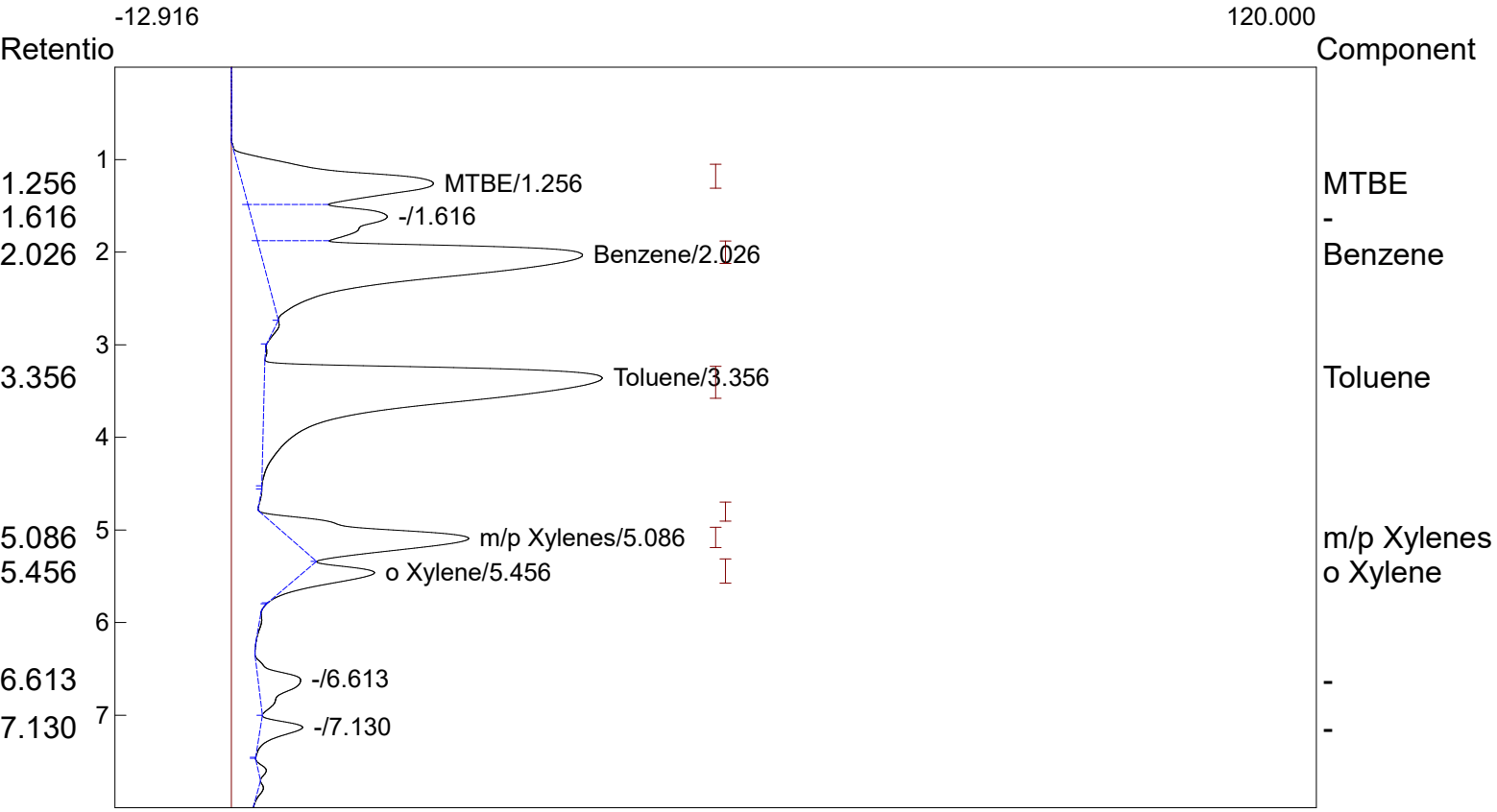


Component	Retention	Area	External	Units
MTBE	1.246	418.3326	3142.1449	ppb
Benzene	1.983	501.2432	1289.6370	ppb
Toluene	3.293	1113.2596	3506.8596	ppb
m/p Xylenes	5.036	497.2508	1487.4744	ppb
o Xylene	5.410	221.8051	1532.4170	ppb
		2751.8913	10958.5329	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 13:03:58
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-22

Temperature program:

Init temp	Hold	Ramp	Final temp

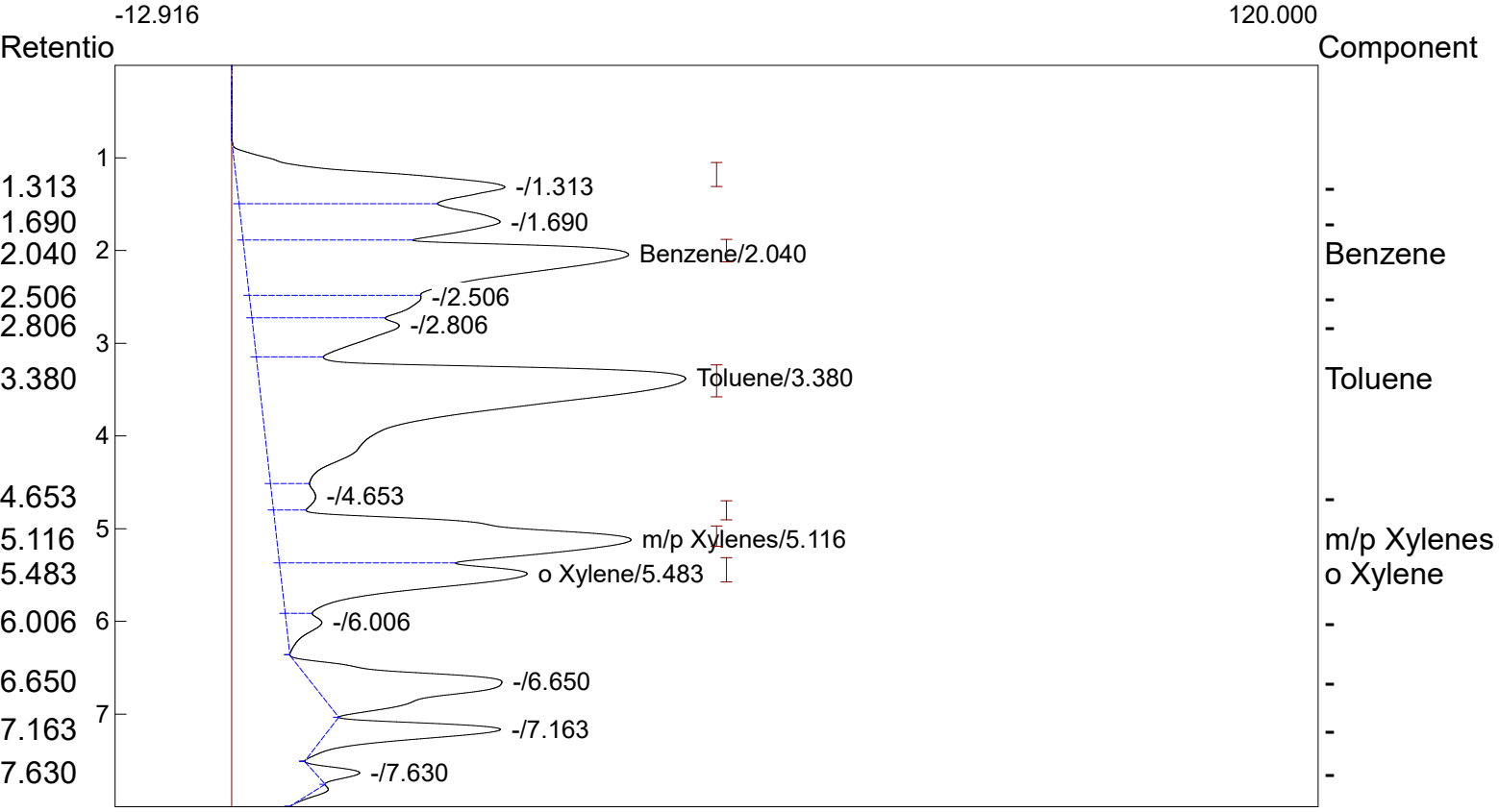


Component	Retention	Area	External	Units
MTBE	1.256	419.6157	3151.7824	ppb
Benzene	2.026	824.5954	2121.5823	ppb
Toluene	3.356	982.9638	3096.4171	ppb
m/p Xylenes	5.086	314.0232	939.3680	ppb
o Xylene	5.456	93.9988	649.4231	ppb
		2635.1969	9958.5729	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 13:53:41
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-23

Temperature program:

Init temp	Hold	Ramp	Final temp

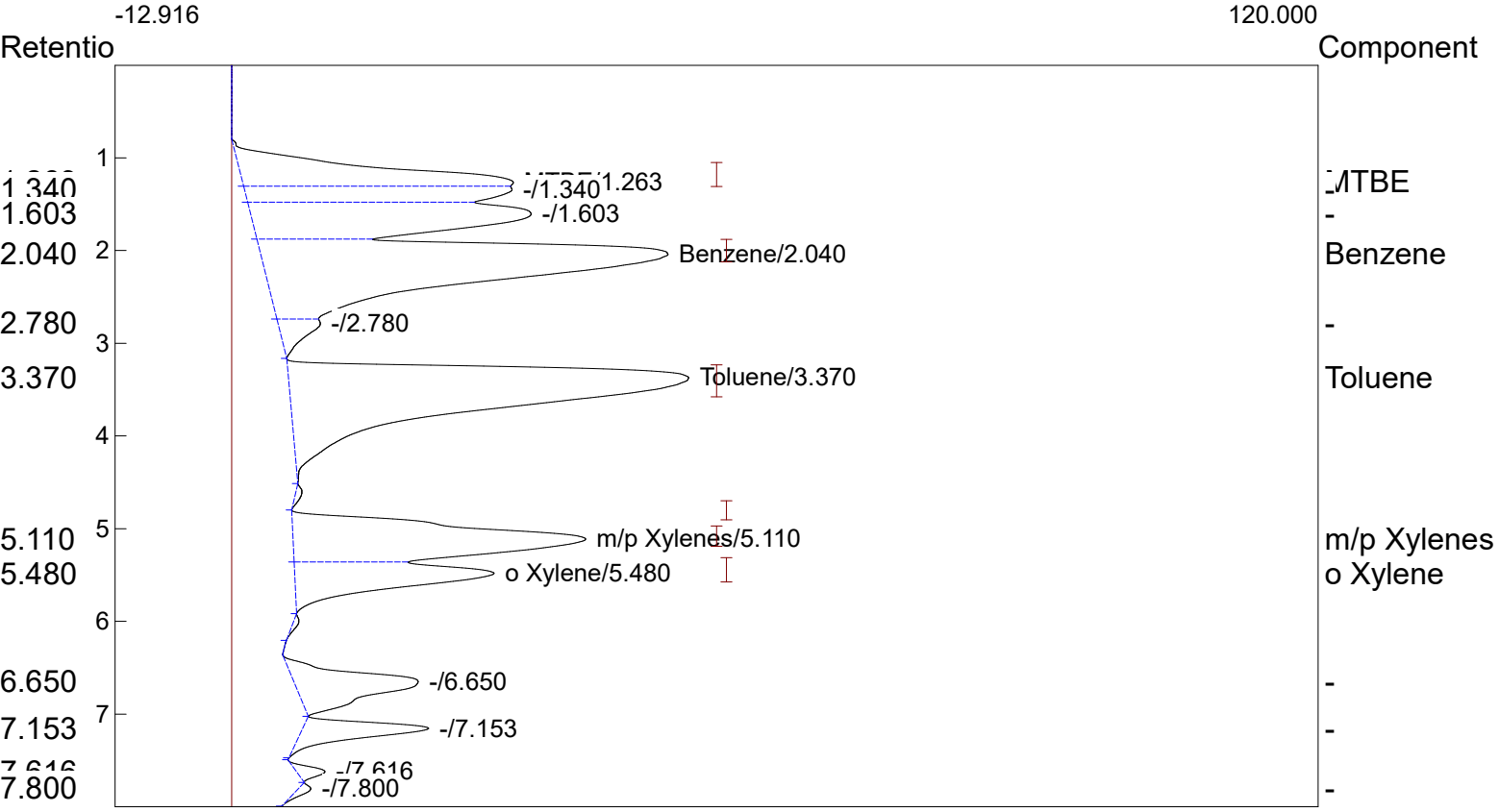


Component	Retention	Area	External	Units
Benzene	2.040	1107.8574	2850.3805	ppb
Toluene	3.380	1709.3978	5384.7442	ppb
m/p Xylenes	5.116	904.3068	2705.1404	ppb
o Xylene	5.483	500.1244	3455.2818	ppb
		4221.6864	14395.5469	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 14:33:05
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-24

Temperature program:

Init temp	Hold	Ramp	Final temp

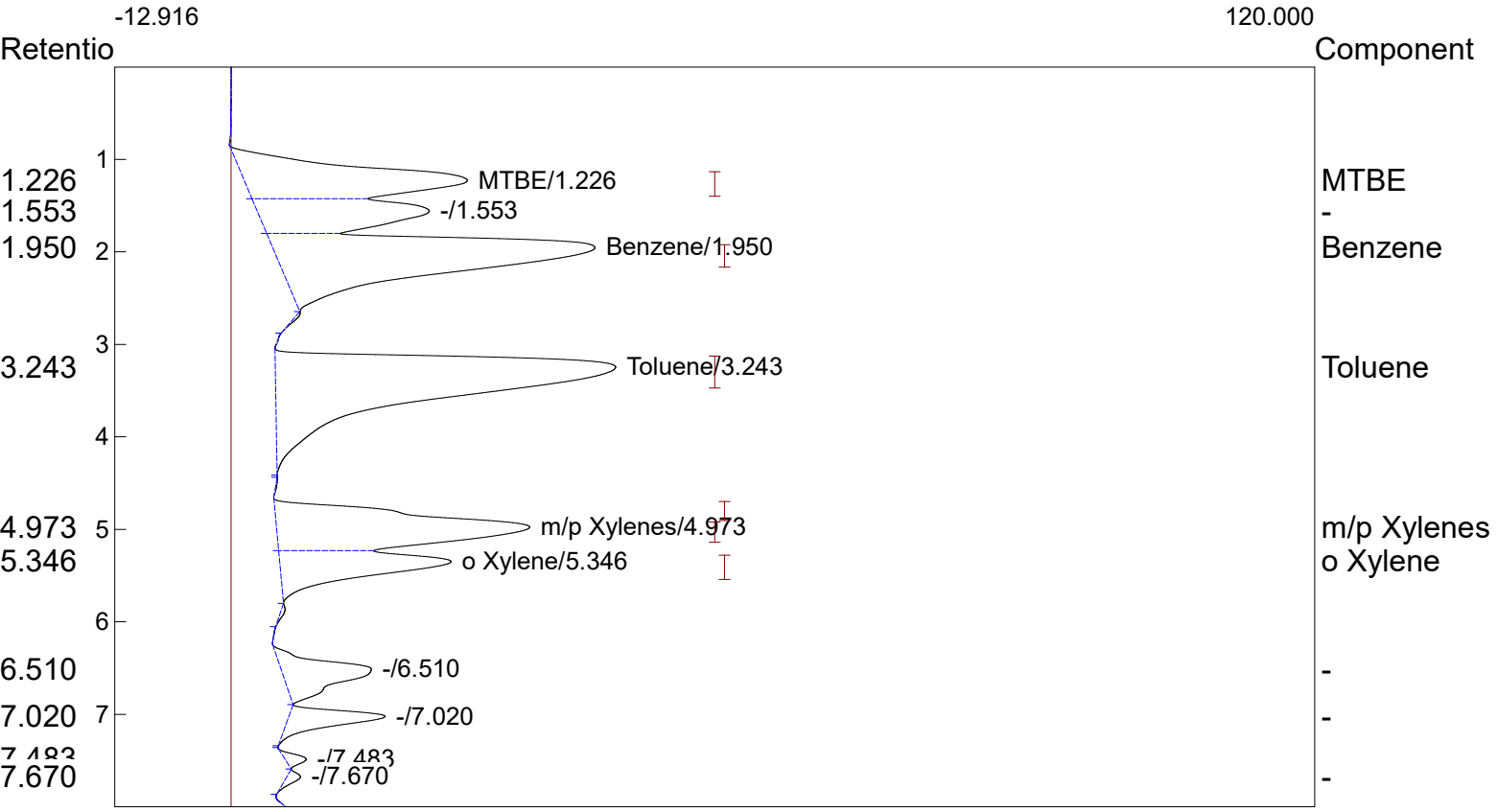


Component	Retention	Area	External	Units
MTBE	1.263	409.2056	3073.5909	ppb
Benzene	2.040	1255.8574	3231.1663	ppb
Toluene	3.370	1318.0326	4151.9115	ppb
m/p Xylenes	5.110	668.9503	2001.0957	ppb
o Xylene	5.480	353.3637	2441.3349	ppb
		4005.4096	14899.0993	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 15:56:09
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-25

Temperature program:

Init temp	Hold	Ramp	Final temp

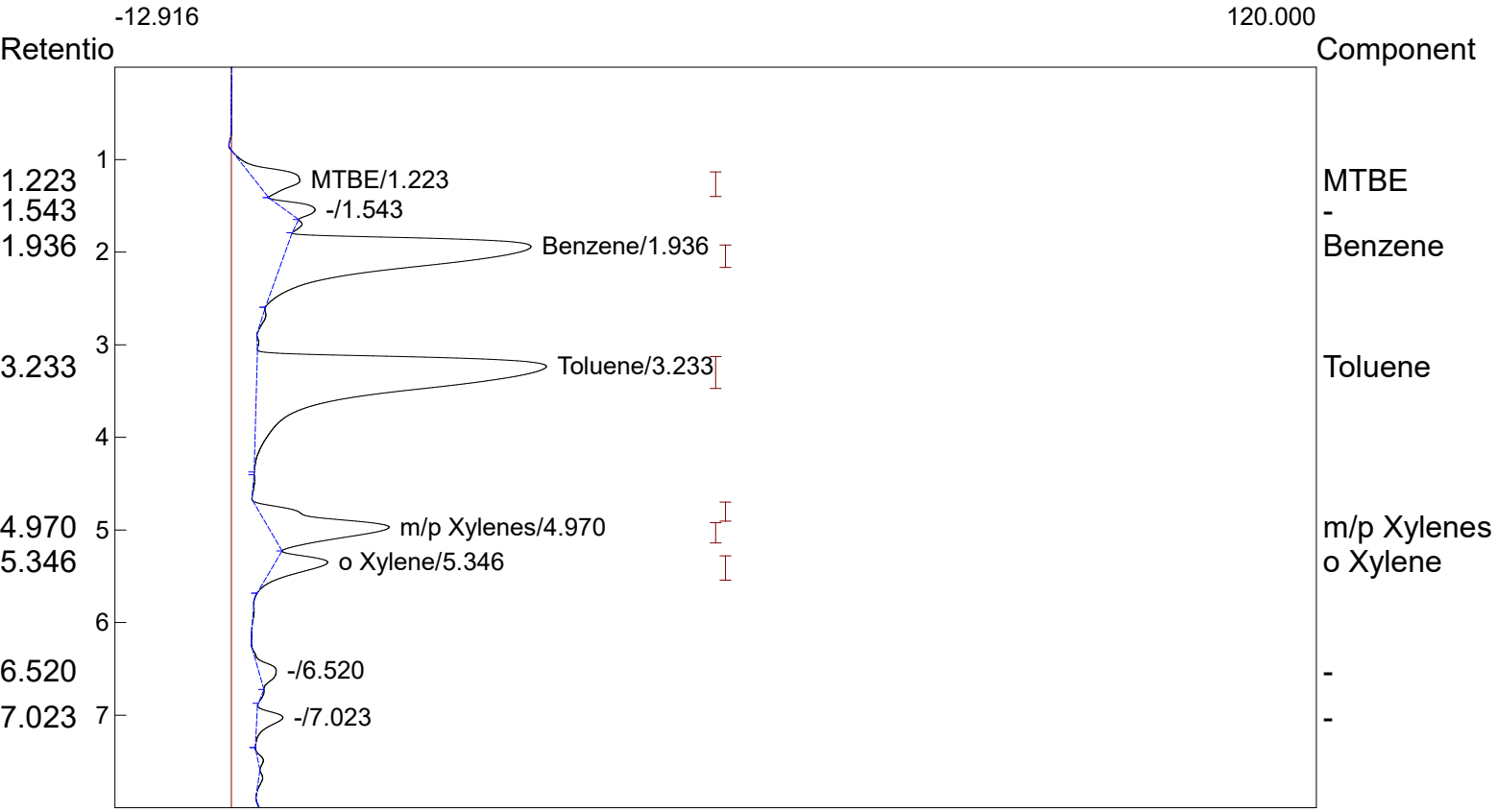


Component	Retention	Area	External	Units
MTBE	1.226	486.0887	3651.0688	ppb
Benzene	1.950	870.2700	2239.0974	ppb
Toluene	3.243	1111.4212	3501.0685	ppb
m/p Xylenes	4.973	580.1439	1735.4406	ppb
o Xylene	5.346	301.9481	2086.1125	ppb
		3349.8719	13212.7879	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 16:16:07
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-26

Temperature program:

Init temp	Hold	Ramp	Final temp

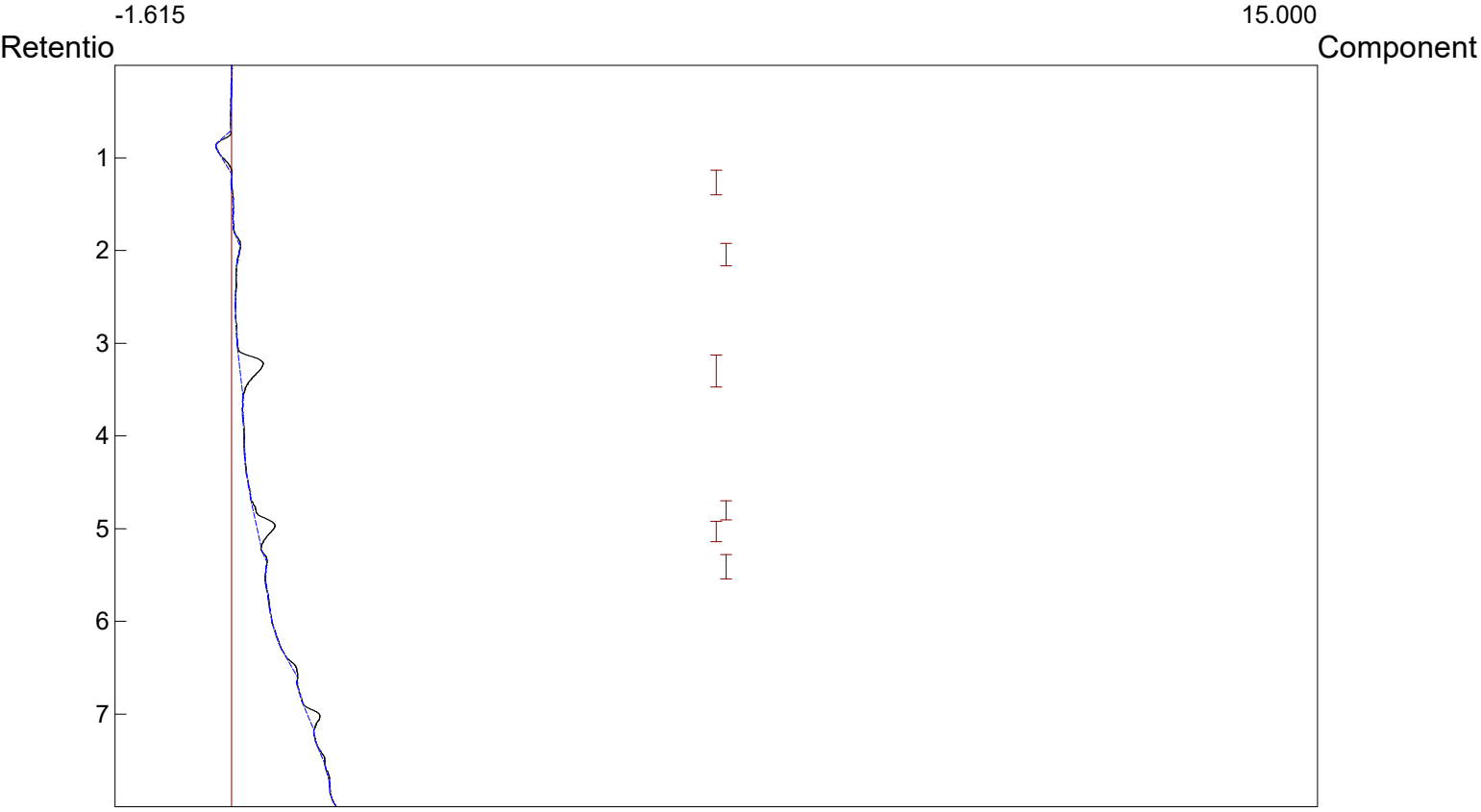


Component	Retention	Area	External	Units
MTBE	1.223	70.1336	526.7816	ppb
Benzene	1.936	553.8826	1425.0717	ppb
Toluene	3.233	783.8708	2469.2577	ppb
m/p Xylenes	4.970	202.7830	606.6044	ppb
o Xylene	5.346	68.2064	471.2274	ppb
		1678.8764	5498.9428	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 16:35:35
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-27

Temperature program:

Init temp	Hold	Ramp	Final temp

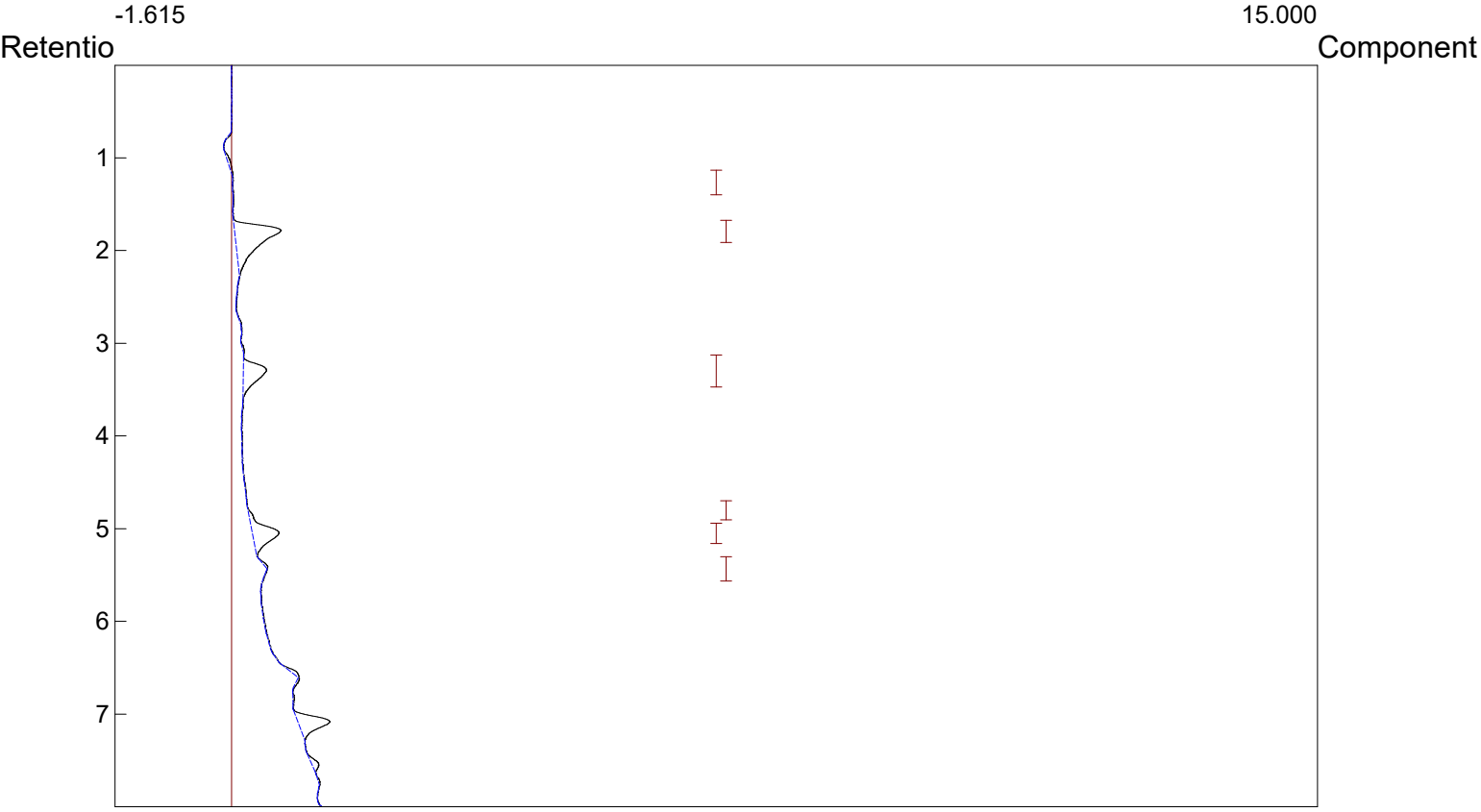


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 17:12:27
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-28

Temperature program:

Init temp	Hold	Ramp	Final temp

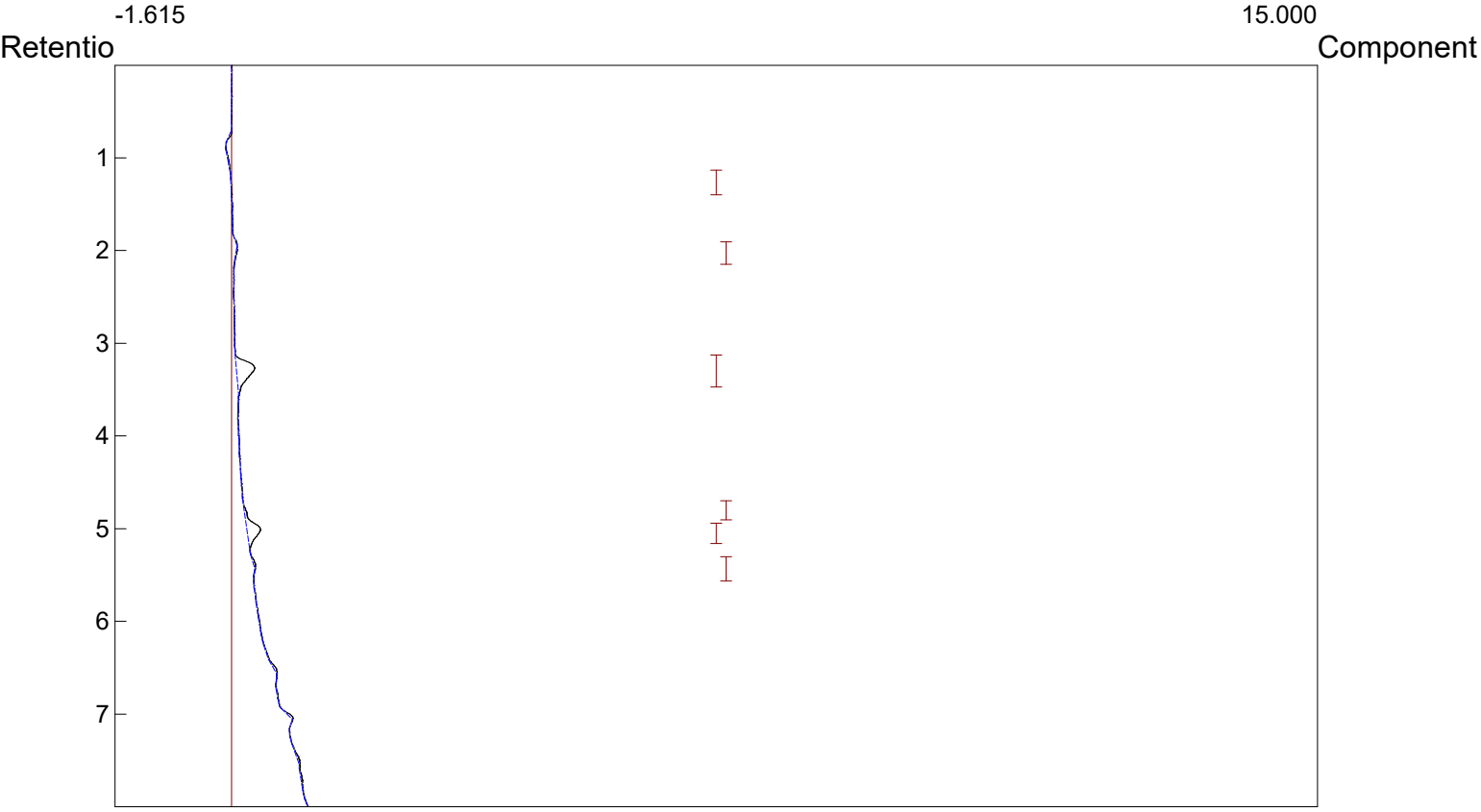


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 4/29/21
Analysis date: 04/29/2021 17:42:10
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-29

Temperature program:

Init temp	Hold	Ramp	Final temp

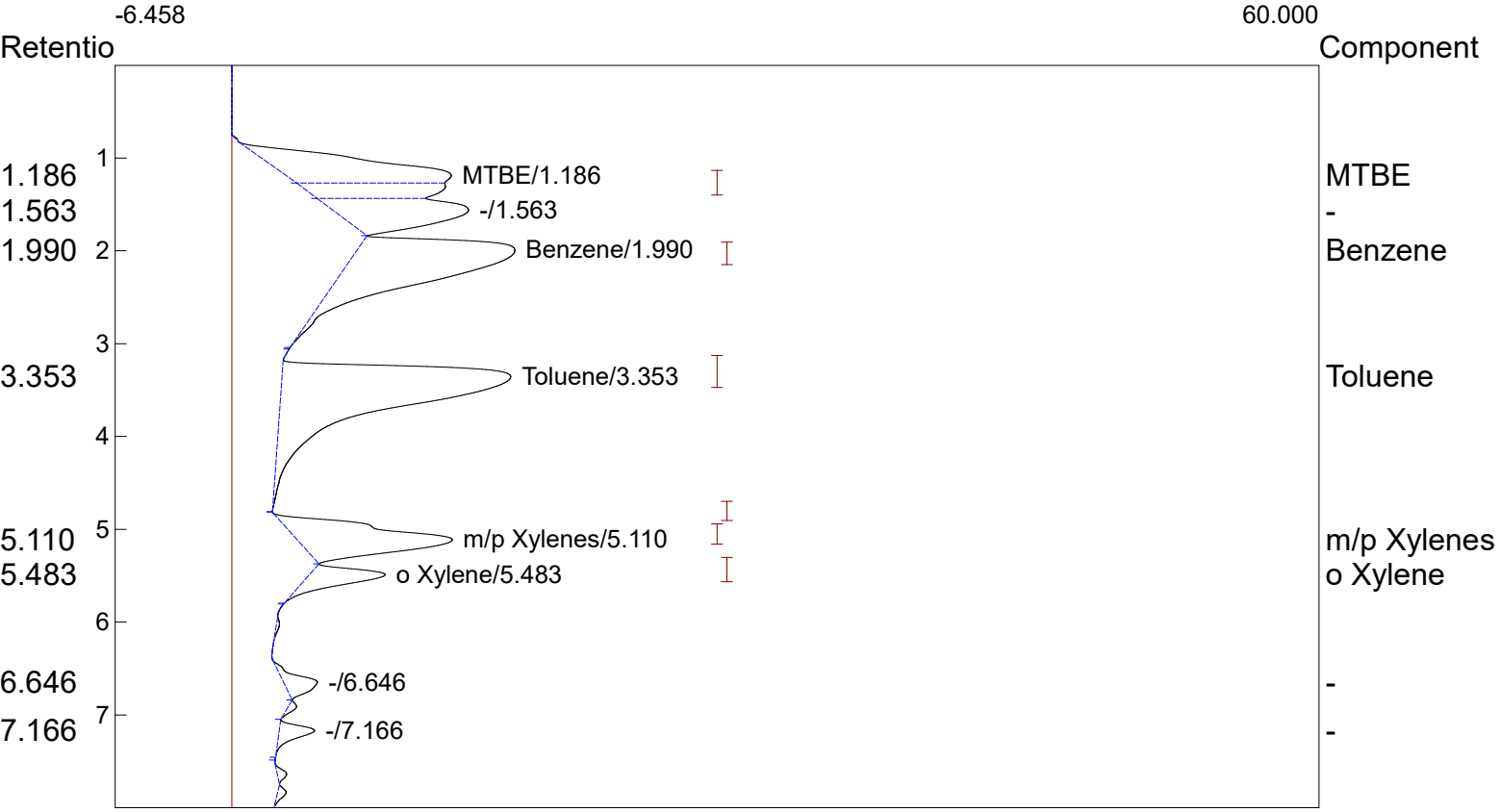


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 4/30/21
Analysis date: 04/30/2021 09:13:59
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-30

Temperature program:

Init temp	Hold	Ramp	Final temp

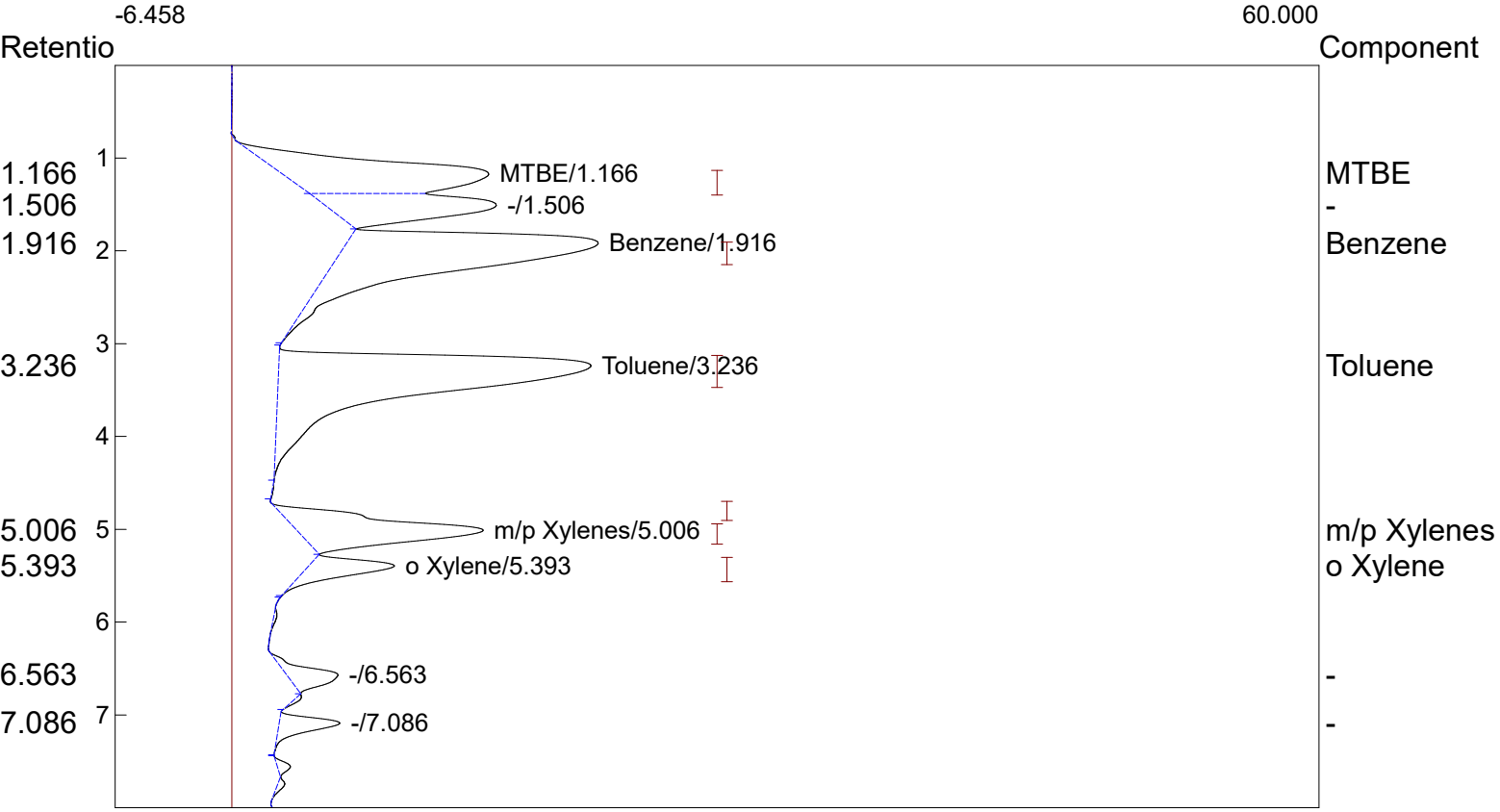


Component	Retention	Area	External	Units
MTBE	1.186	154.1100	1157.5382	ppb
Benzene	1.990	263.9834	679.1967	ppb
Toluene	3.353	385.0008	1212.7843	ppb
m/p Xylenes	5.110	151.3018	452.6037	ppb
o Xylene	5.483	46.7744	323.1571	ppb
		1001.1704	3825.2800	

Lab name: KLM Environmental, LLC
Collected: 4/30/21
Analysis date: 04/30/2021 09:31:53
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-31

Temperature program:

Init temp	Hold	Ramp	Final temp

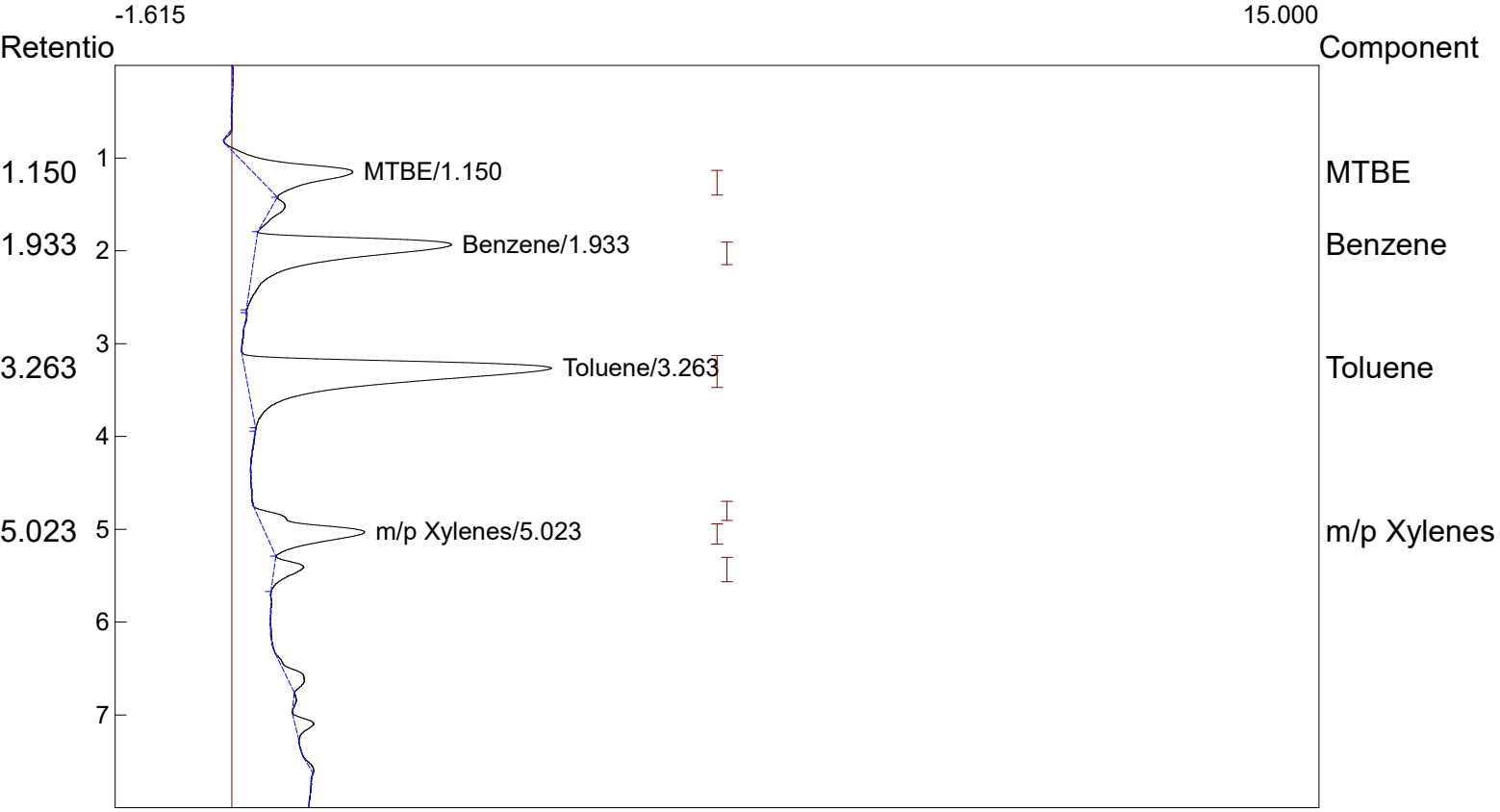


Component	Retention	Area	External	Units
MTBE	1.166	231.3609	1737.7787	ppb
Benzene	1.916	364.8380	938.6832	ppb
Toluene	3.236	476.3820	1500.6426	ppb
m/p Xylenes	5.006	168.1342	502.9561	ppb
o Xylene	5.393	53.7896	371.6240	ppb
		1294.5047	5051.6846	

Lab name: KLM Environmental, LLC
Collected: 4/30/21
Analysis date: 04/30/2021 09:51:30
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-32

Temperature program:

Init temp	Hold	Ramp	Final temp

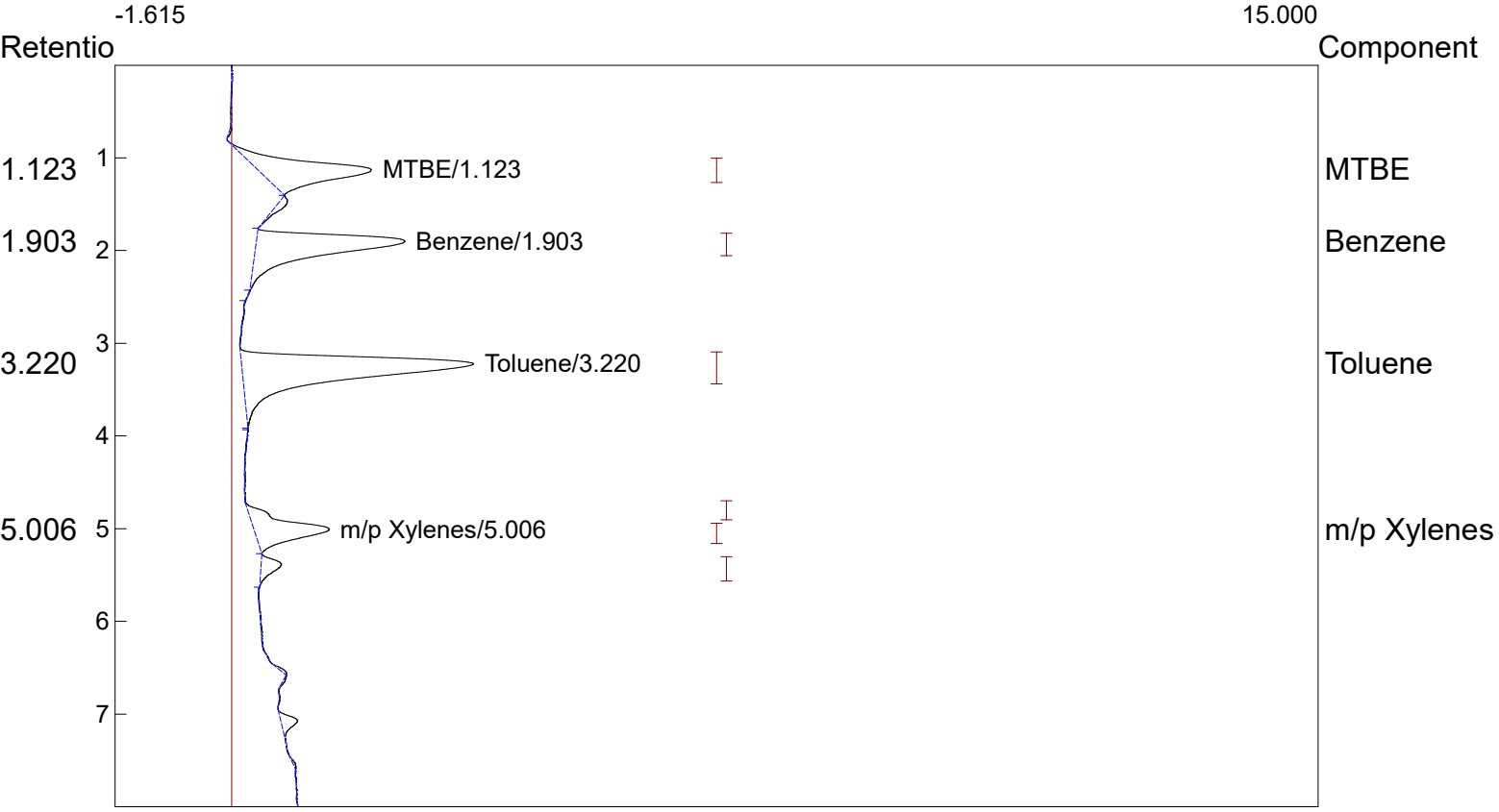


Component	Retention	Area	External	Units
MTBE	1.150	18.7810	141.0663	ppb
Benzene	1.933	40.2752	103.6231	ppb
Toluene	3.263	66.0780	208.1512	ppb
m/p Xylenes	5.023	18.4056	55.0585	ppb
		143.5398	507.8990	

Lab name: KLM Environmental, LLC
Collected: 4/30/21
Analysis date: 04/30/2021 10:09:16
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-33

Temperature program:

Init temp	Hold	Ramp	Final temp

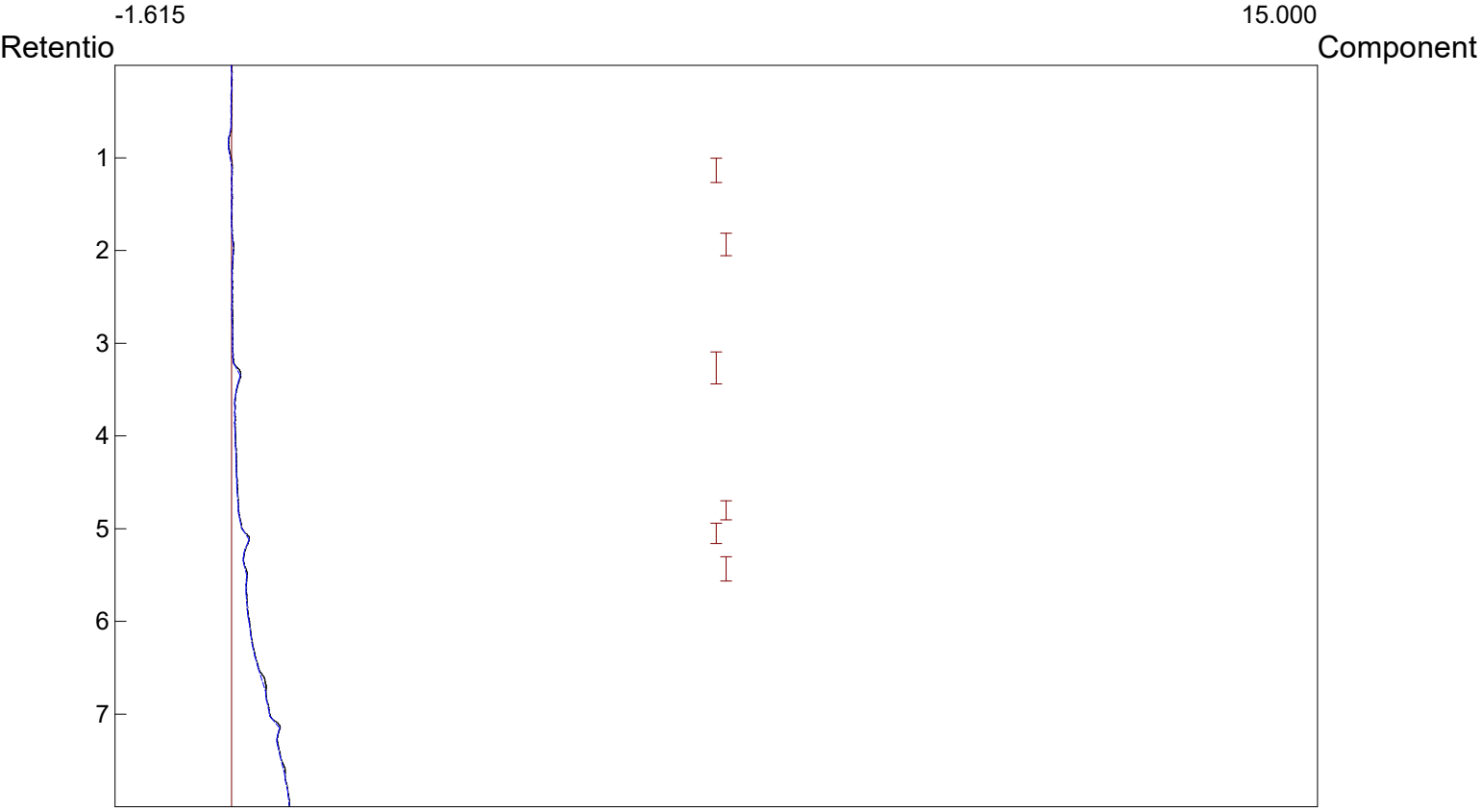


Component	Retention	Area	External	Units
MTBE	1.123	21.8240	163.9226	ppb
Benzene	1.903	29.1592	75.0230	ppb
Toluene	3.220	49.8860	157.1450	ppb
m/p Xylenes	5.006	13.9392	41.6977	ppb
		114.8084	437.7883	

Lab name: KLM Environmental, LLC
Collected: 4/30/21
Analysis date: 04/30/2021 11:42:58
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-34

Temperature program:

Init temp	Hold	Ramp	Final temp

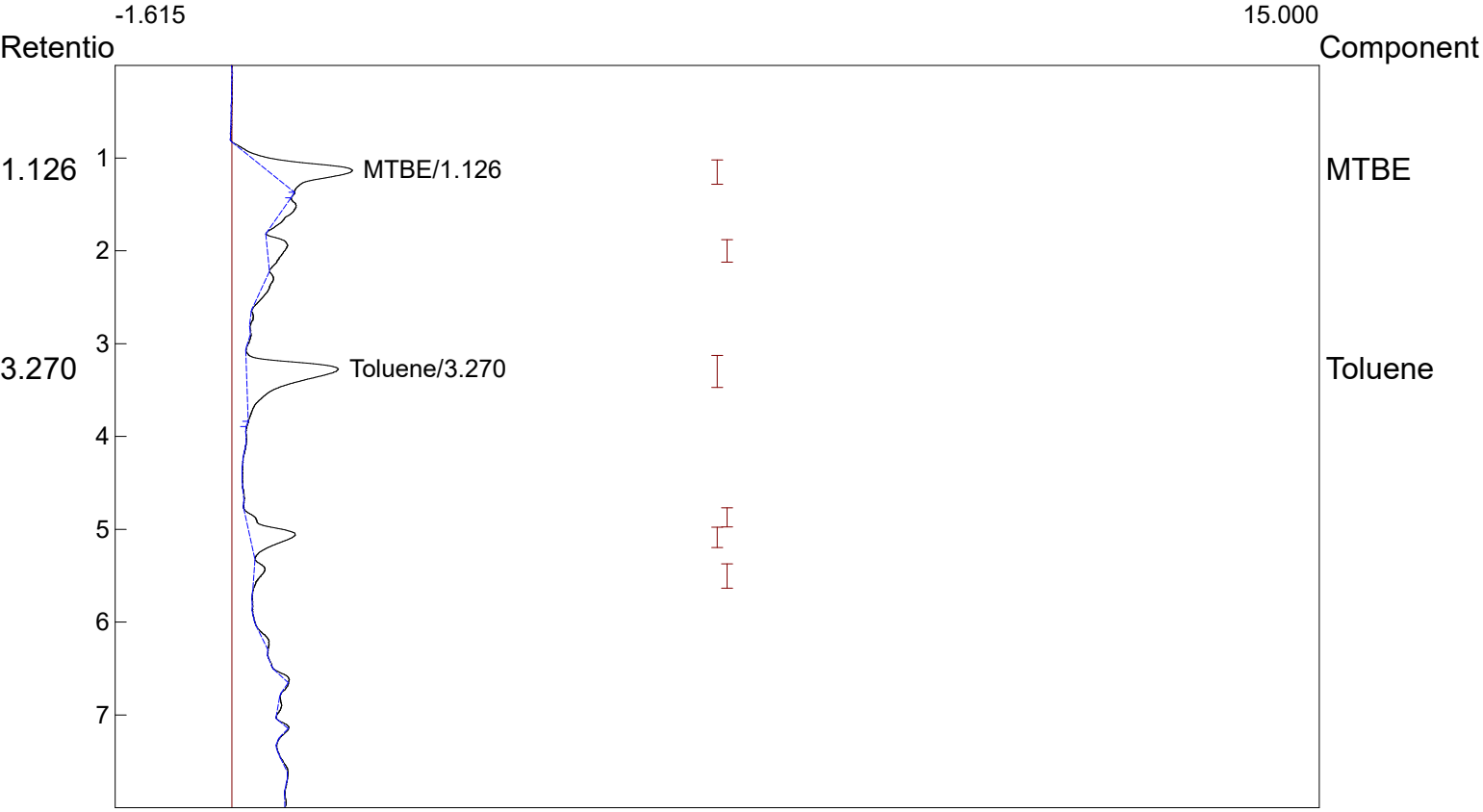


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/17/21
Analysis date: 05/17/2021 17:49:25
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-36 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

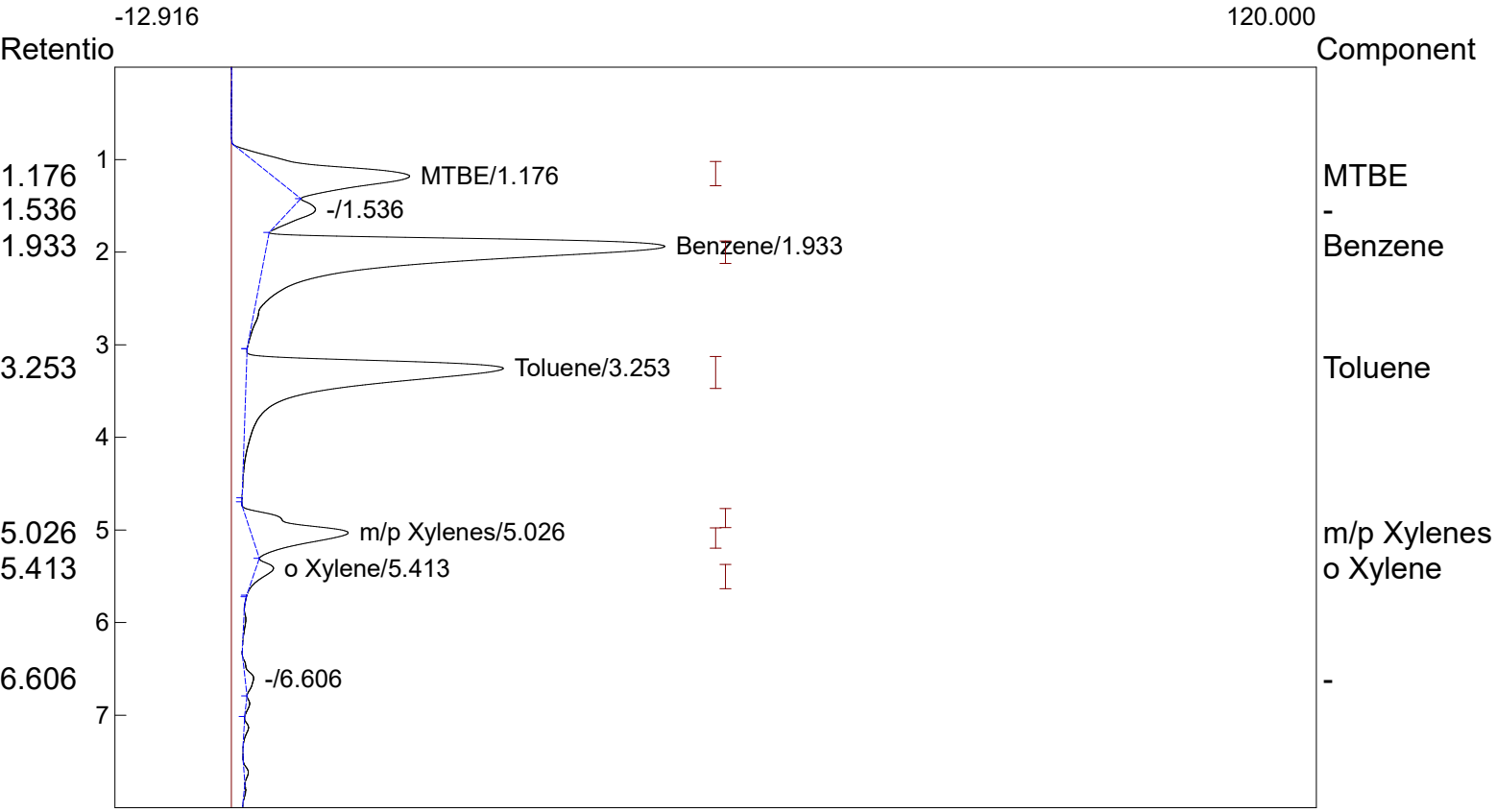


Component	Retention	Area	External	Units
MTBE	1.126	13.8308	103.8847	ppb
Toluene	3.270	19.7852	40.5502	ppb
		33.6160	144.4349	

Lab name: KLM Environmental, LLC
Collected: 5/17/21
Analysis date: 05/17/2021 18:07:09
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-37 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

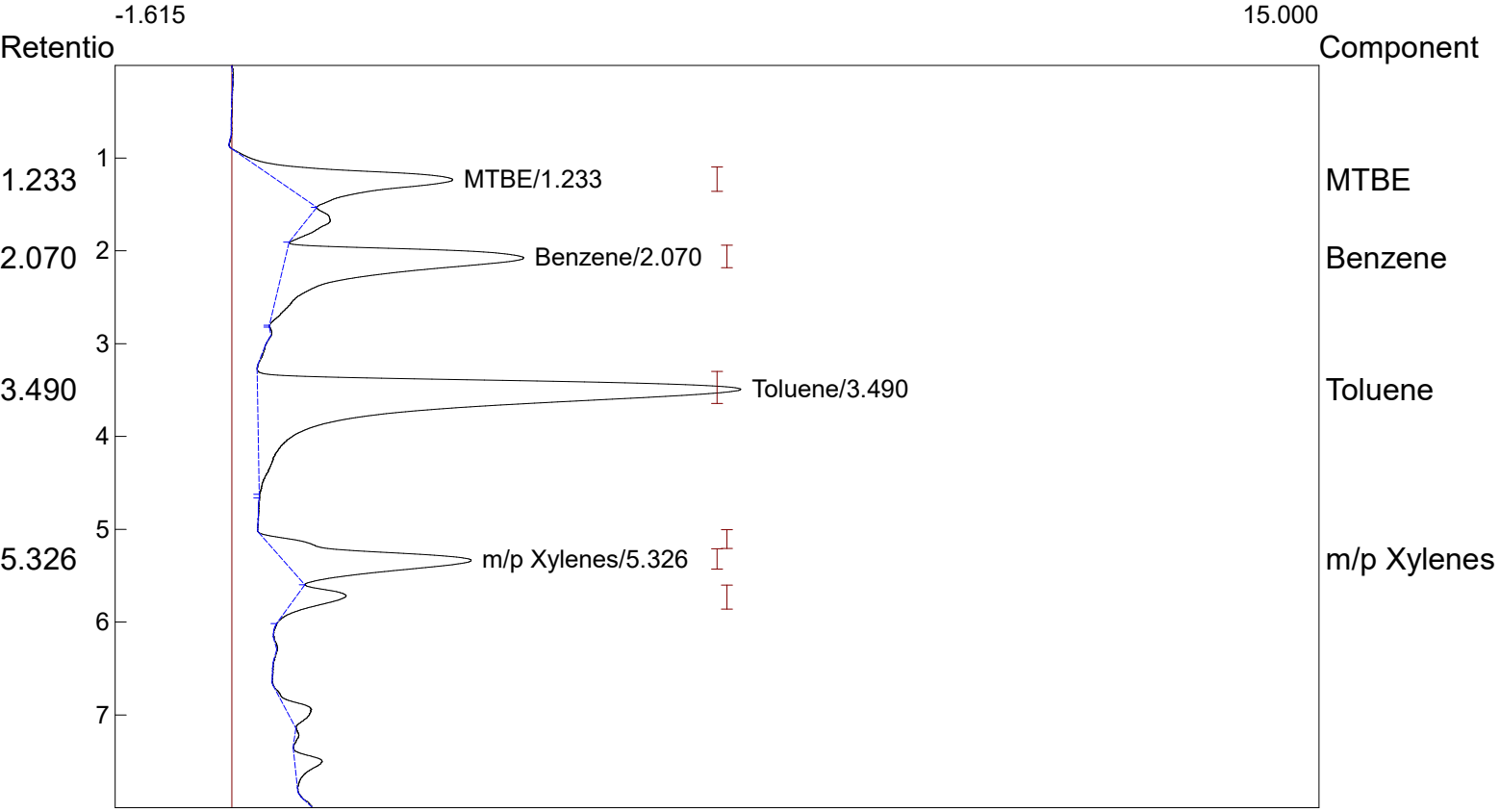


Component	Retention	Area	External	Units
MTBE	1.176	226.7586	1703.2103	ppb
Benzene	1.933	742.9300	1276.1722	ppb
Toluene	3.253	504.9544	1034.9144	ppb
m/p Xylenes	5.026	159.8024	178.6855	ppb
o Xylene	5.413	19.6838	100.2465	ppb
		1654.1292	4293.2288	

Lab name: KLM Environmental, LLC
Collected: 5/17/21
Analysis date: 05/17/2021 18:24:43
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-38 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp



Component	Retention	Area	External	Units
MTBE	1.233	33.8942	254.5833	ppb
Benzene	2.070	56.4340	96.9398	ppb
Toluene	3.490	126.2324	258.7159	ppb
m/p Xylenes	5.326	37.3164	41.7259	ppb
		253.8770	651.9649	

Lab name: KLM Environmental, LLC
Collected: 5/17/21
Analysis date: 05/17/2021 18:40:17
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-39 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/17/21
Analysis date: 05/17/2021 18:55:05
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-40 - Quick Pantry #19

Temperature program:

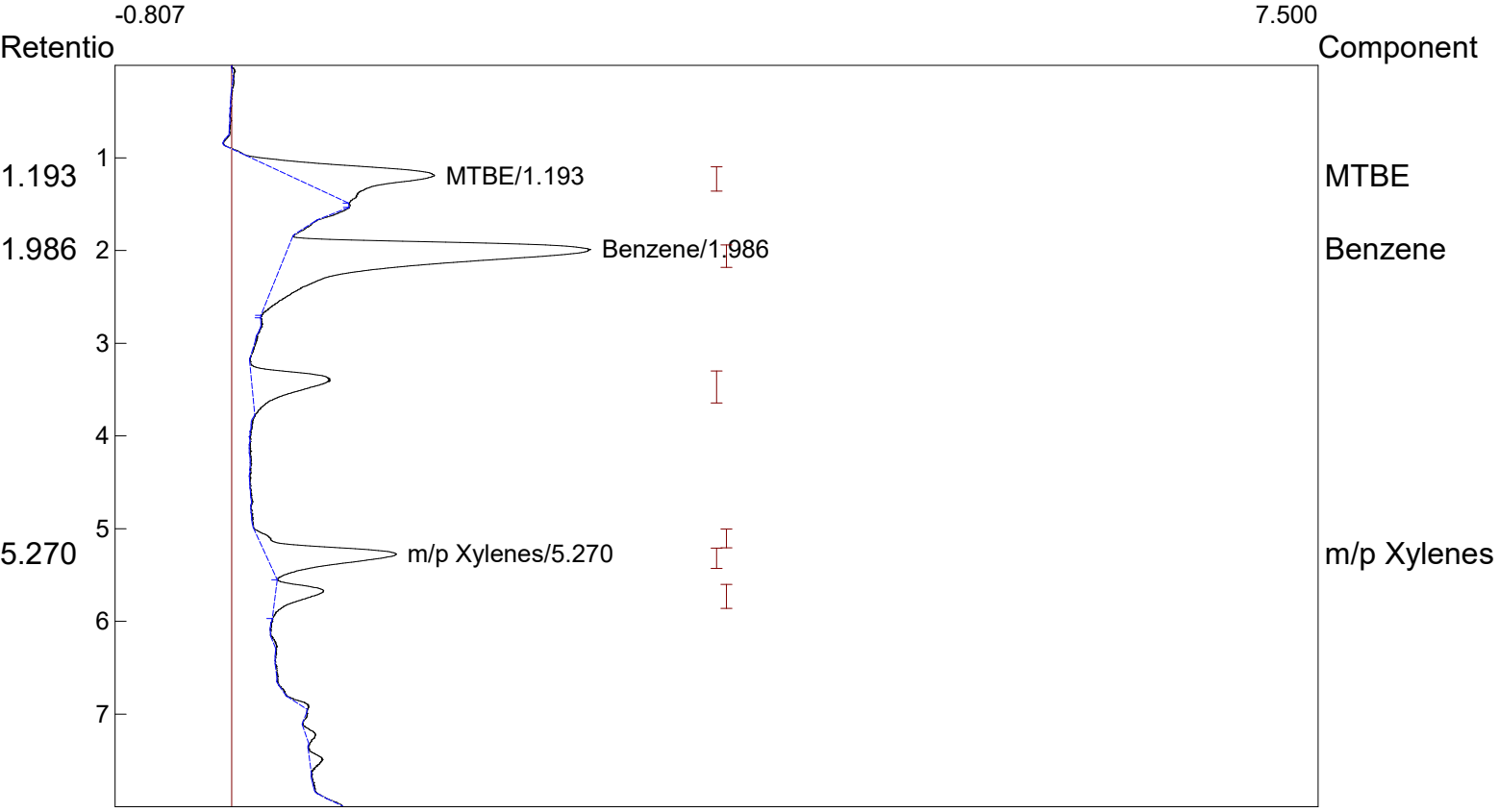
Init temp	Hold	Ramp	Final temp

Component	Retention	Area	External	Units
Benzene	2.006	17.1100	29.3908	ppb
		17.1100	29.3908	

Lab name: KLM Environmental, LLC
Collected: 5/17/21
Analysis date: 05/17/2021 19:09:32
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-41 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

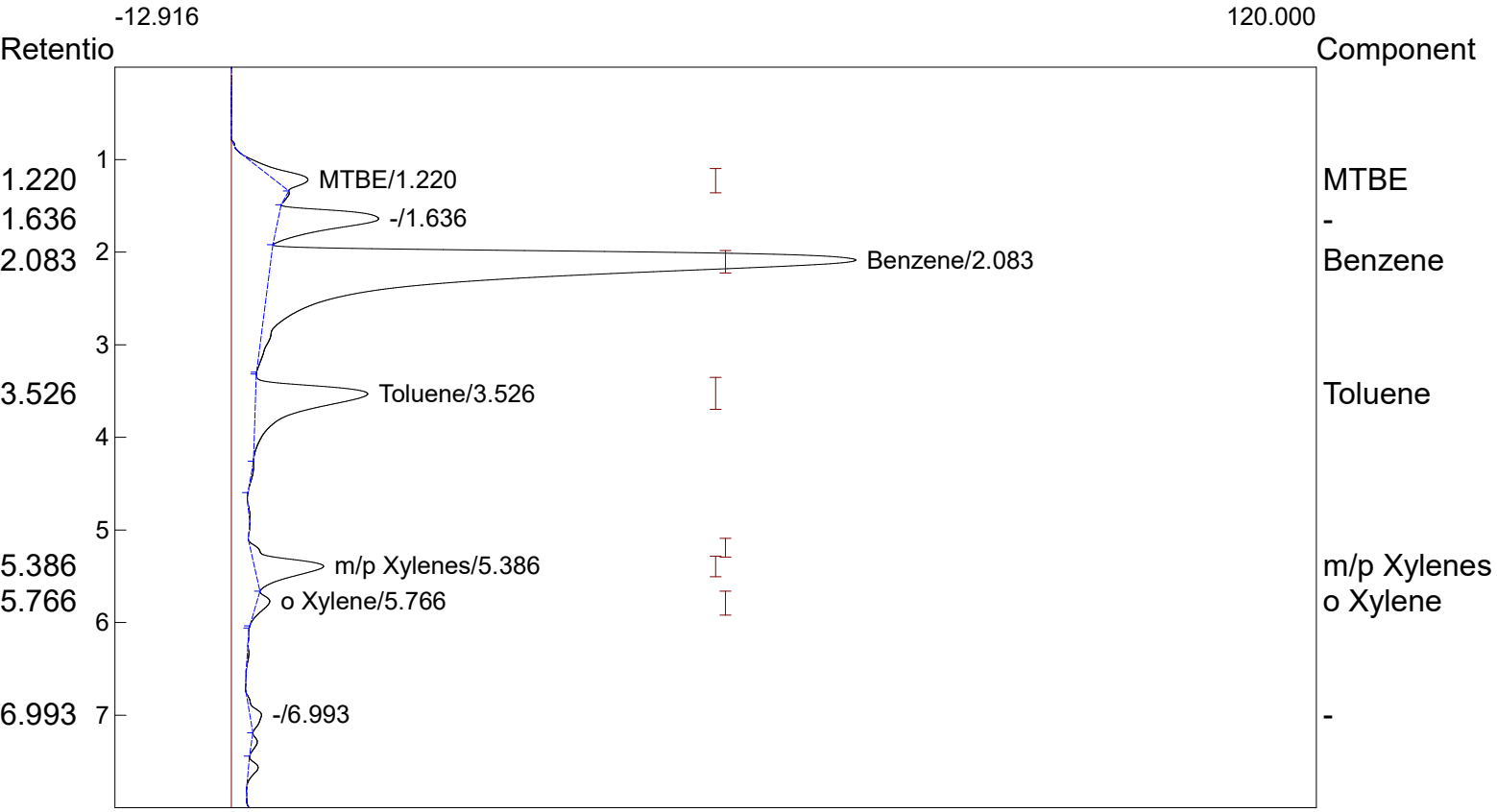


Component	Retention	Area	External	Units
MTBE	1.193	14.3750	107.9723	ppb
Benzene	1.986	34.3848	59.0647	ppb
m/p Xylenes	5.270	11.0458	12.3510	ppb
		59.8056	179.3880	

Lab name: KLM Environmental, LLC
Collected: 5/17/21
Analysis date: 05/17/2021 19:25:05
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-42 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

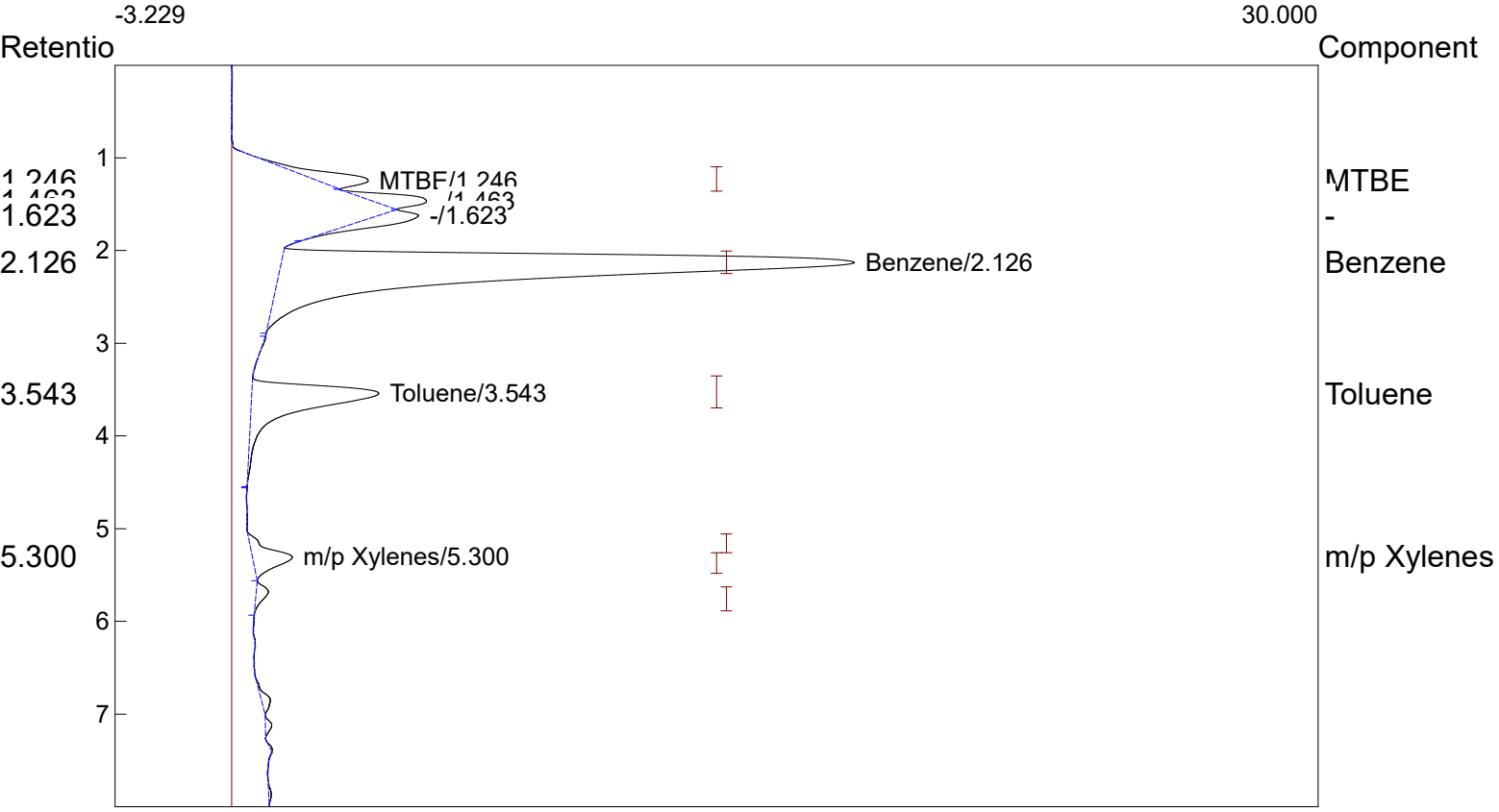


Component	Retention	Area	External	Units
MTBE	1.220	42.4916	319.1594	ppb
Benzene	2.083	1222.0098	2099.1142	ppb
Toluene	3.526	212.6760	435.8838	ppb
m/p Xylenes	5.386	98.3692	109.9930	ppb
o Xylene	5.766	15.1174	76.9905	ppb
		1590.6640	3041.1409	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 10:14:11
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-43 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

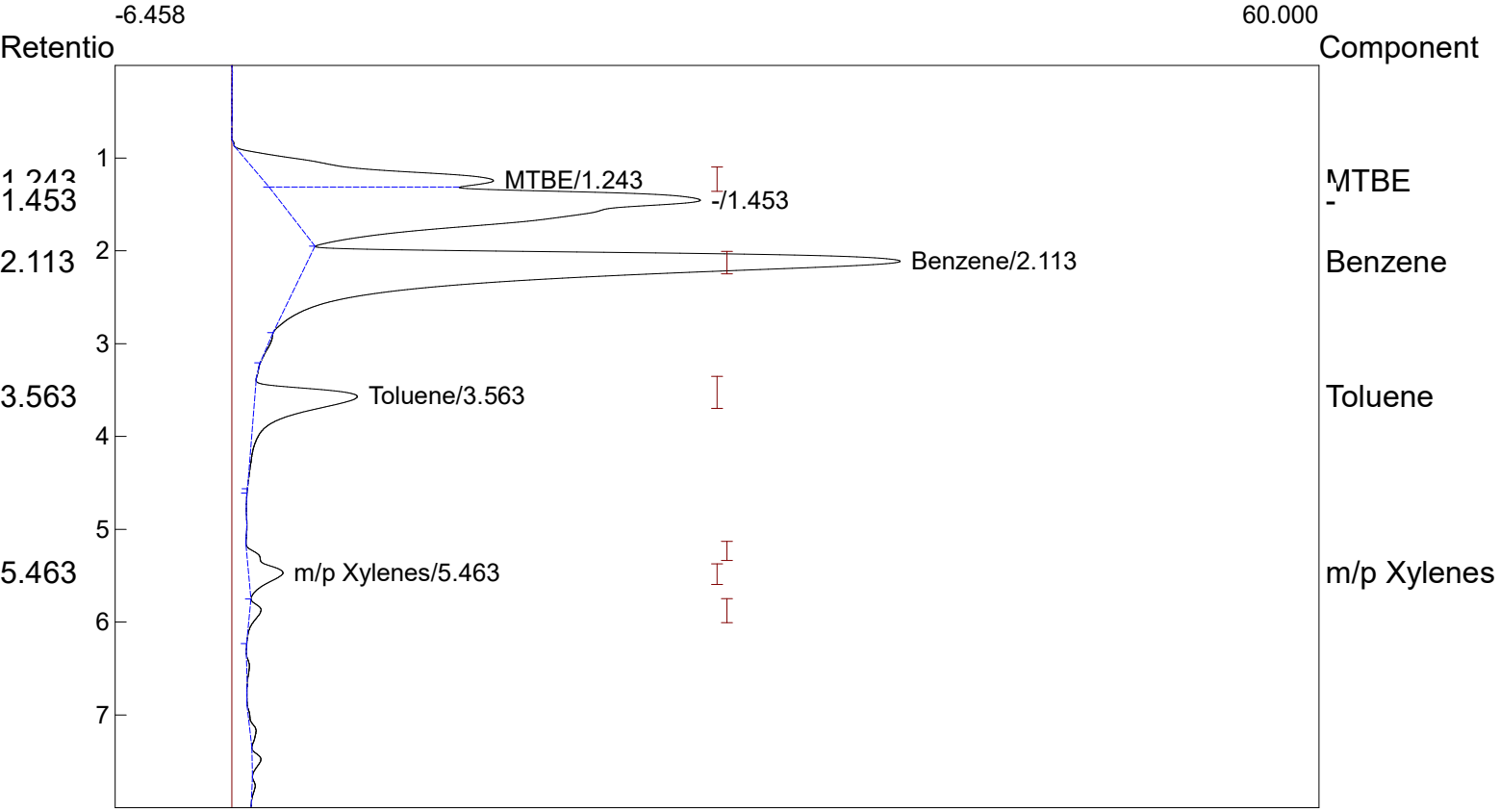


Component	Retention	Area	External	Units
MTBE	1.246	14.4800	108.7610	ppb
Benzene	2.126	270.7622	465.1033	ppb
Toluene	3.543	58.9460	120.8110	ppb
m/p Xylenes	5.300	14.5840	16.3073	ppb
		358.7722	710.9826	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 10:30:43
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-44 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

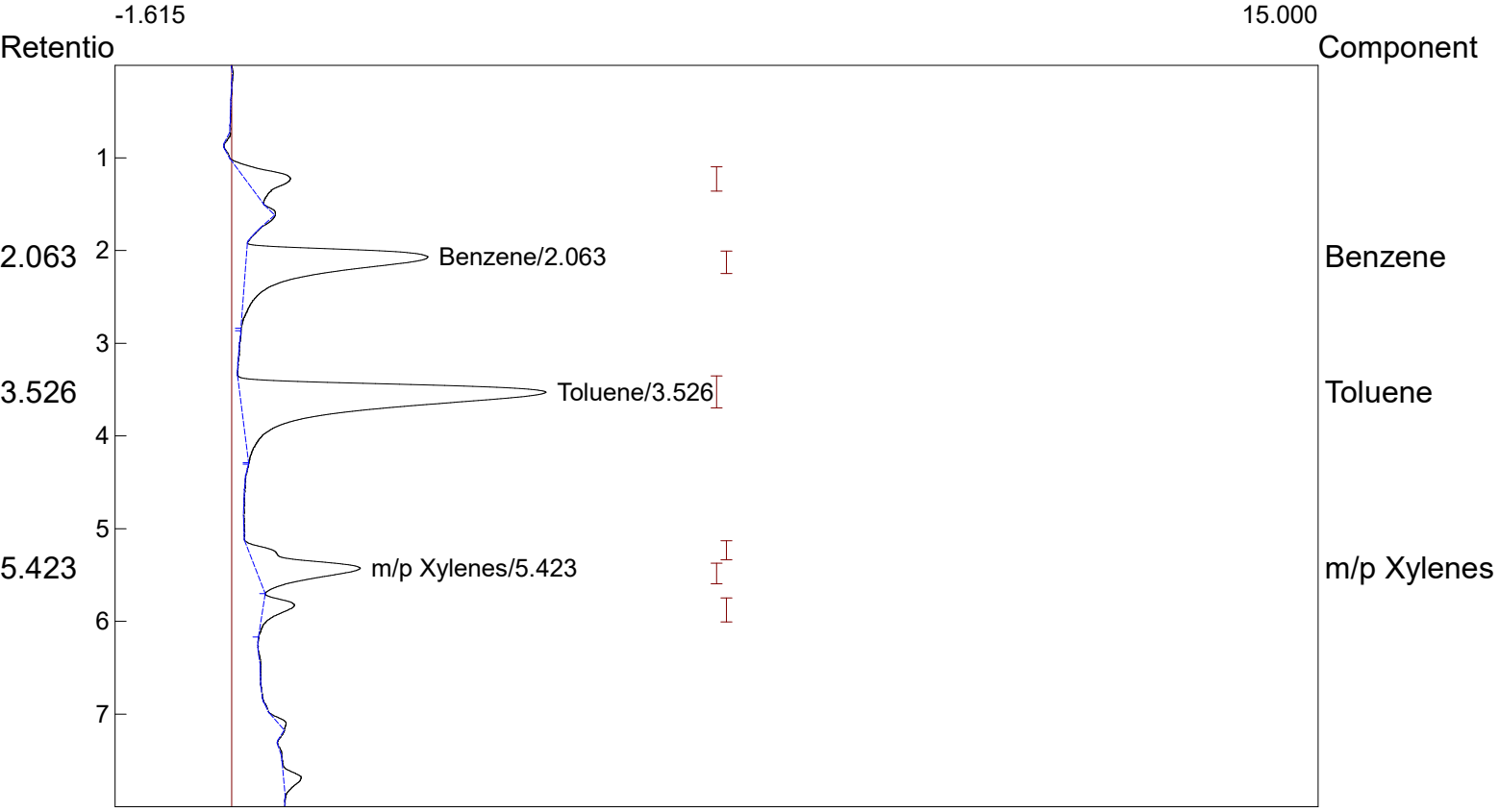


Component	Retention	Area	External	Units
MTBE	1.243	165.0838	1239.9636	ppb
Benzene	2.113	571.9642	982.4947	ppb
Toluene	3.563	95.4512	195.6292	ppb
m/p Xylenes	5.463	28.8012	32.2045	ppb
		861.3004	2450.2920	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 10:45:13
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-45 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

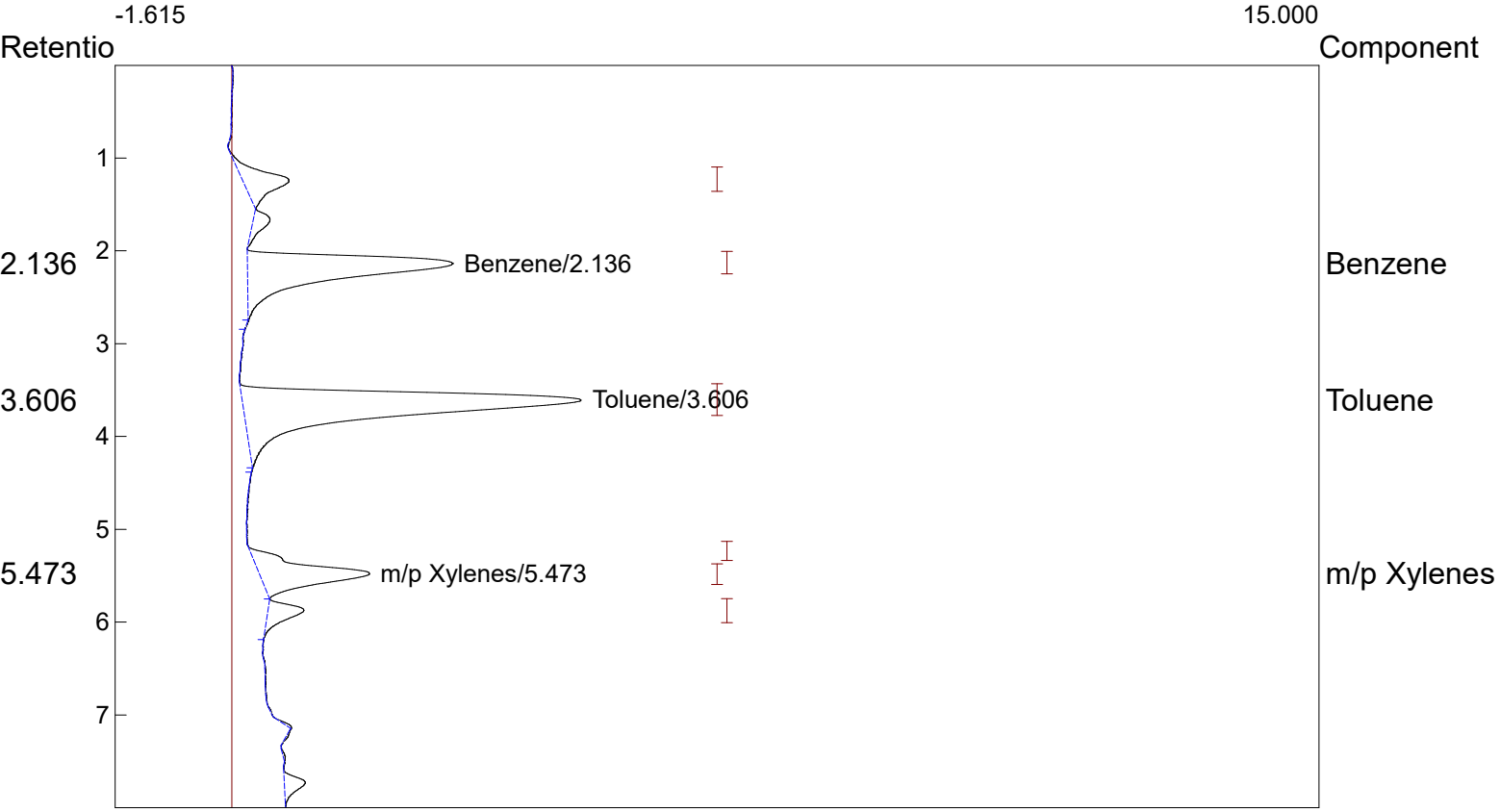


Component	Retention	Area	External	Units
Benzene	2.063	41.2696	70.8911	ppb
Toluene	3.526	71.5420	146.6268	ppb
m/p Xylenes	5.423	20.1940	22.5802	ppb
		133.0056	240.0981	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 11:01:17
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-46 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

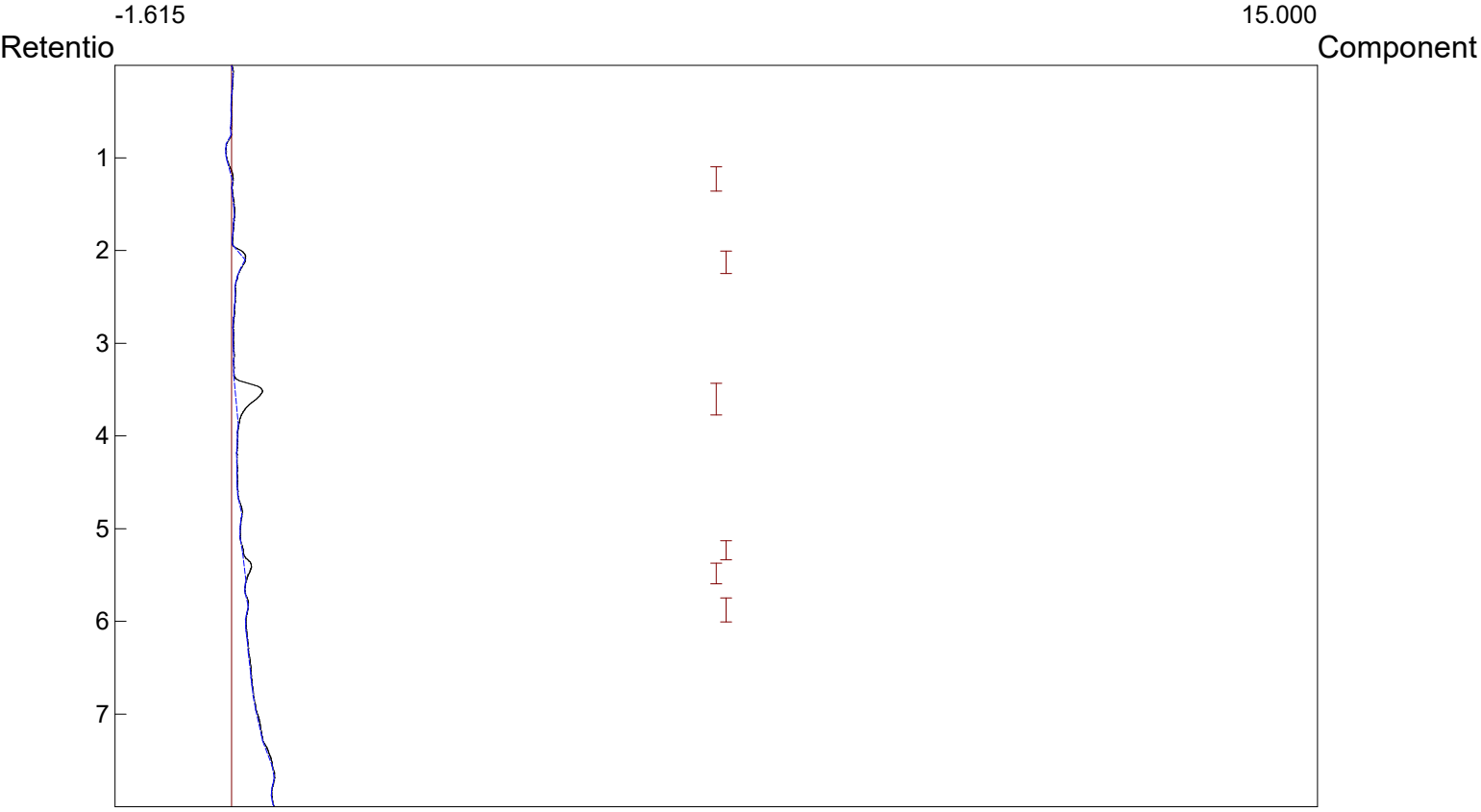


Component	Retention	Area	External	Units
Benzene	2.136	44.9676	77.2433	ppb
Toluene	3.606	77.5472	158.9346	ppb
m/p Xylenes	5.473	21.2052	23.7109	ppb
		143.7200	259.8888	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 11:15:55
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-47 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

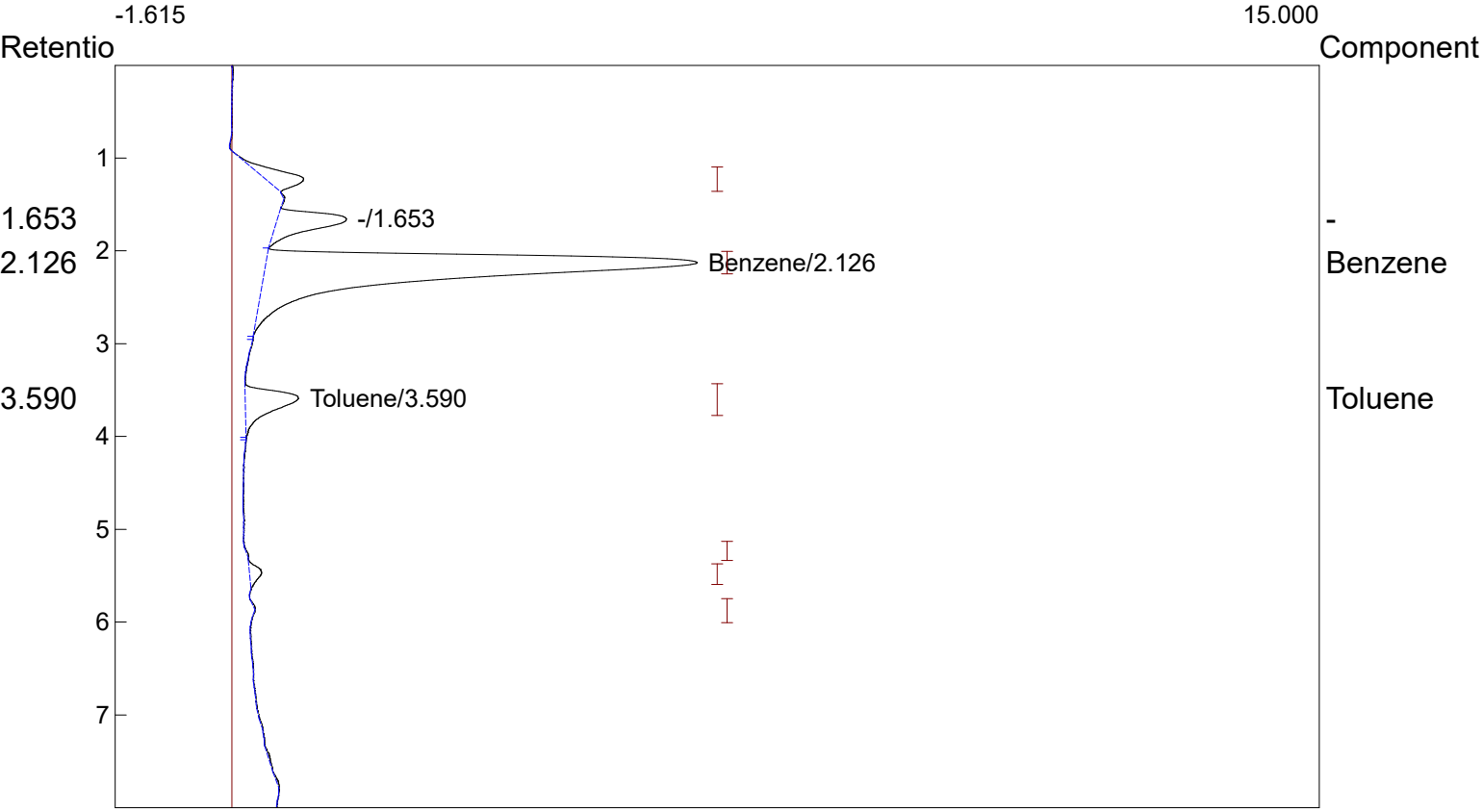


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 11:31:40
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-48 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

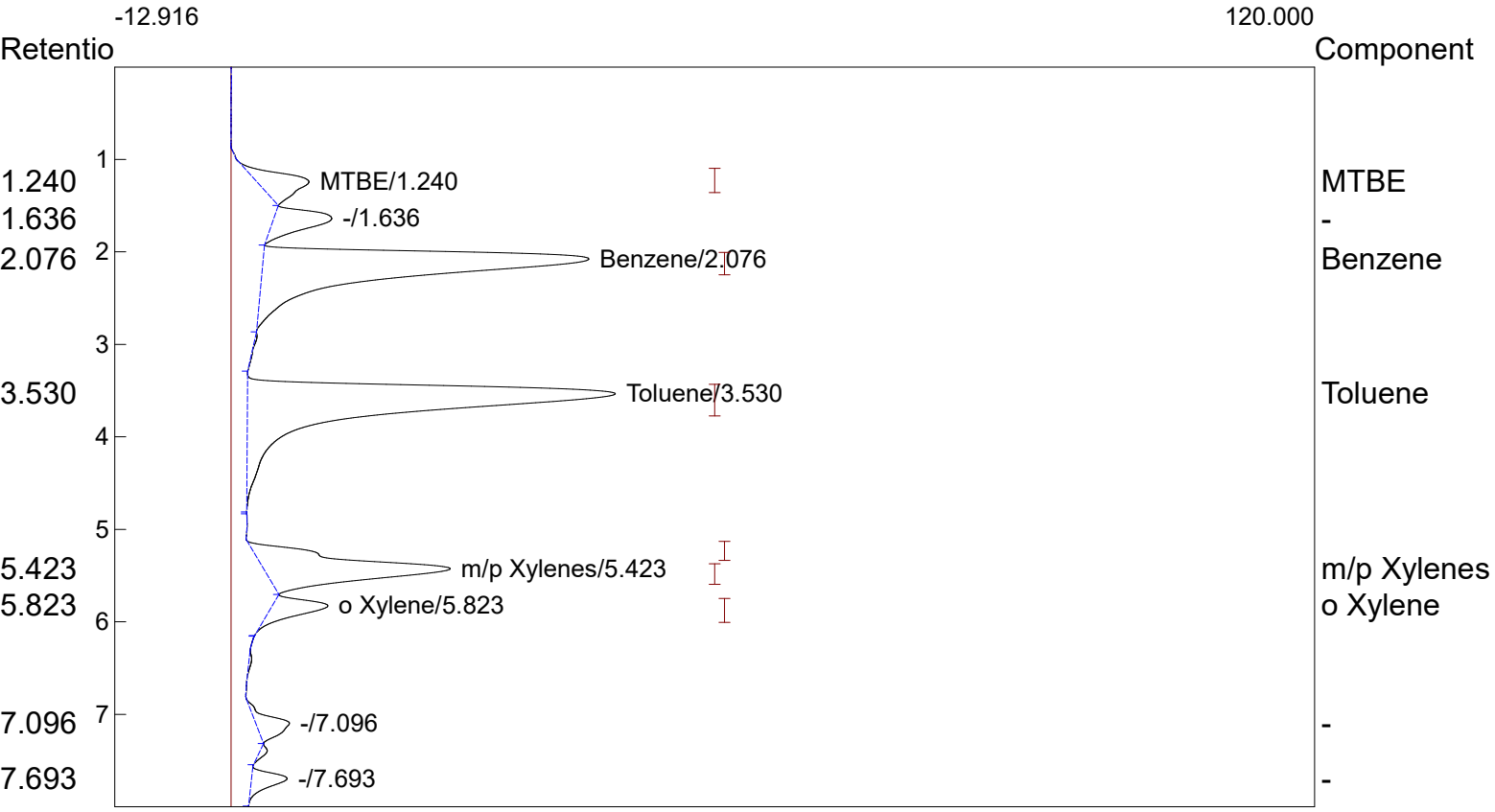


Component	Retention	Area	External	Units
Benzene	2.126	98.4920	169.1852	ppb
Toluene	3.590	10.5682	21.6597	ppb
		109.0602	190.8449	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 11:46:39
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-49 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

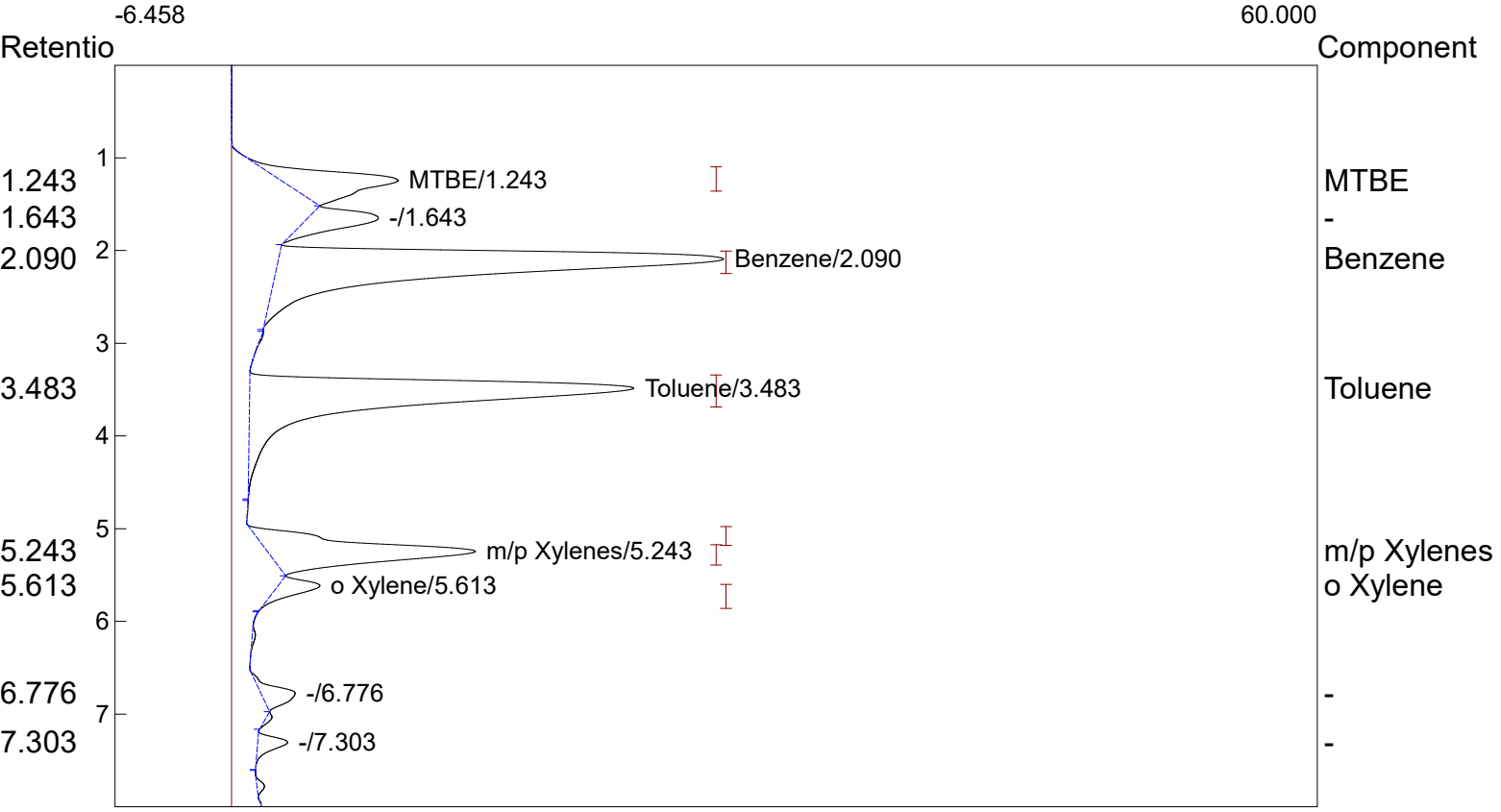


Component	Retention	Area	External	Units
MTBE	1.240	81.7044	613.6913	ppb
Benzene	2.076	642.2856	1103.2897	ppb
Toluene	3.530	783.9532	1606.7282	ppb
m/p Xylenes	5.423	312.4730	349.3965	ppb
o Xylene	5.823	67.8896	345.7510	ppb
		1888.3058	4018.8567	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 13:20:35
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-50 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

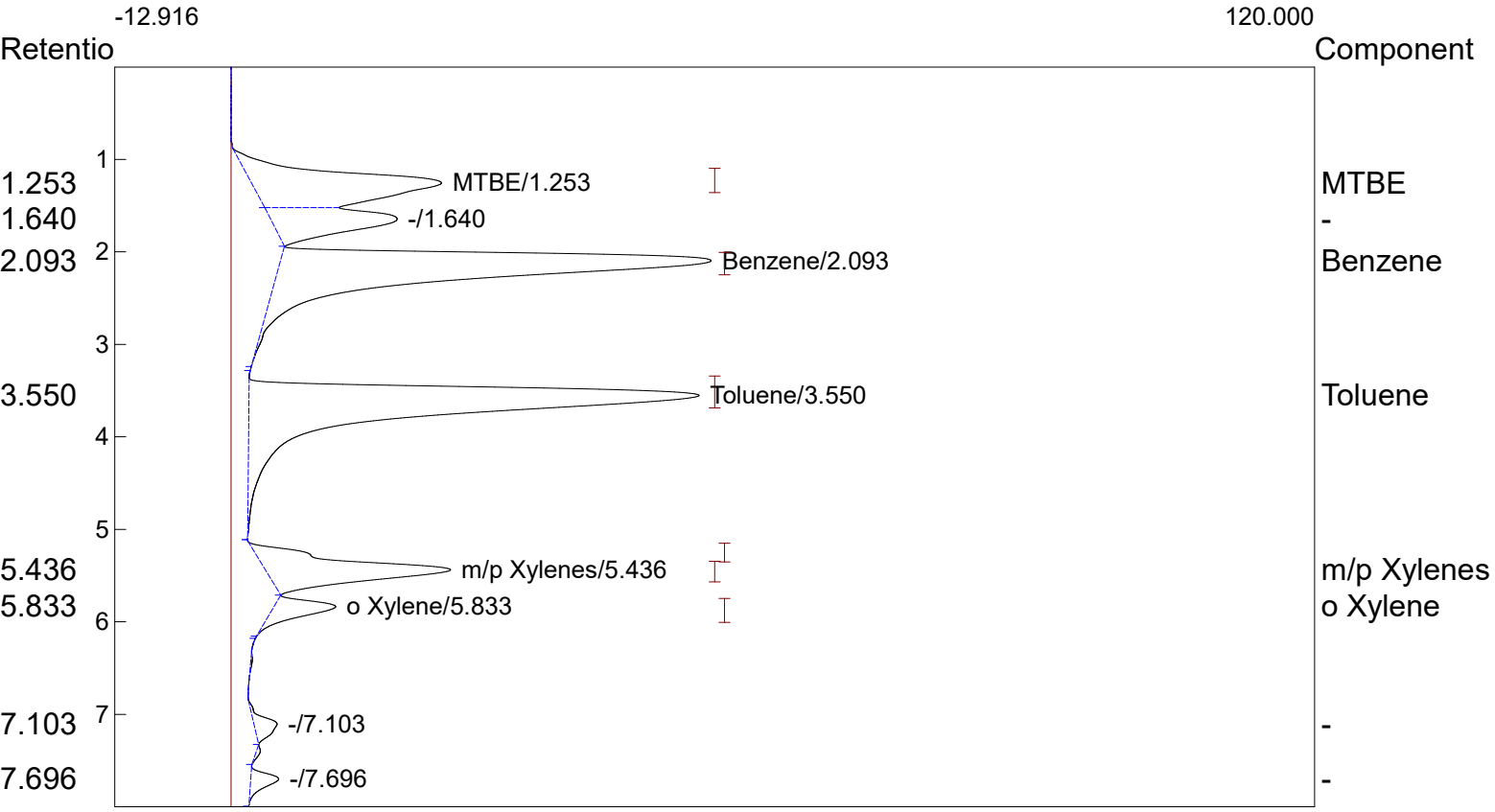


Component	Retention	Area	External	Units
MTBE	1.243	91.8492	689.8900	ppb
Benzene	2.090	413.2140	709.8007	ppb
Toluene	3.483	372.4206	763.2837	ppb
m/p Xylenes	5.243	161.5154	180.6009	ppb
o Xylene	5.613	23.5564	119.9690	ppb
		1062.5556	2463.5443	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 13:36:37
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-51 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

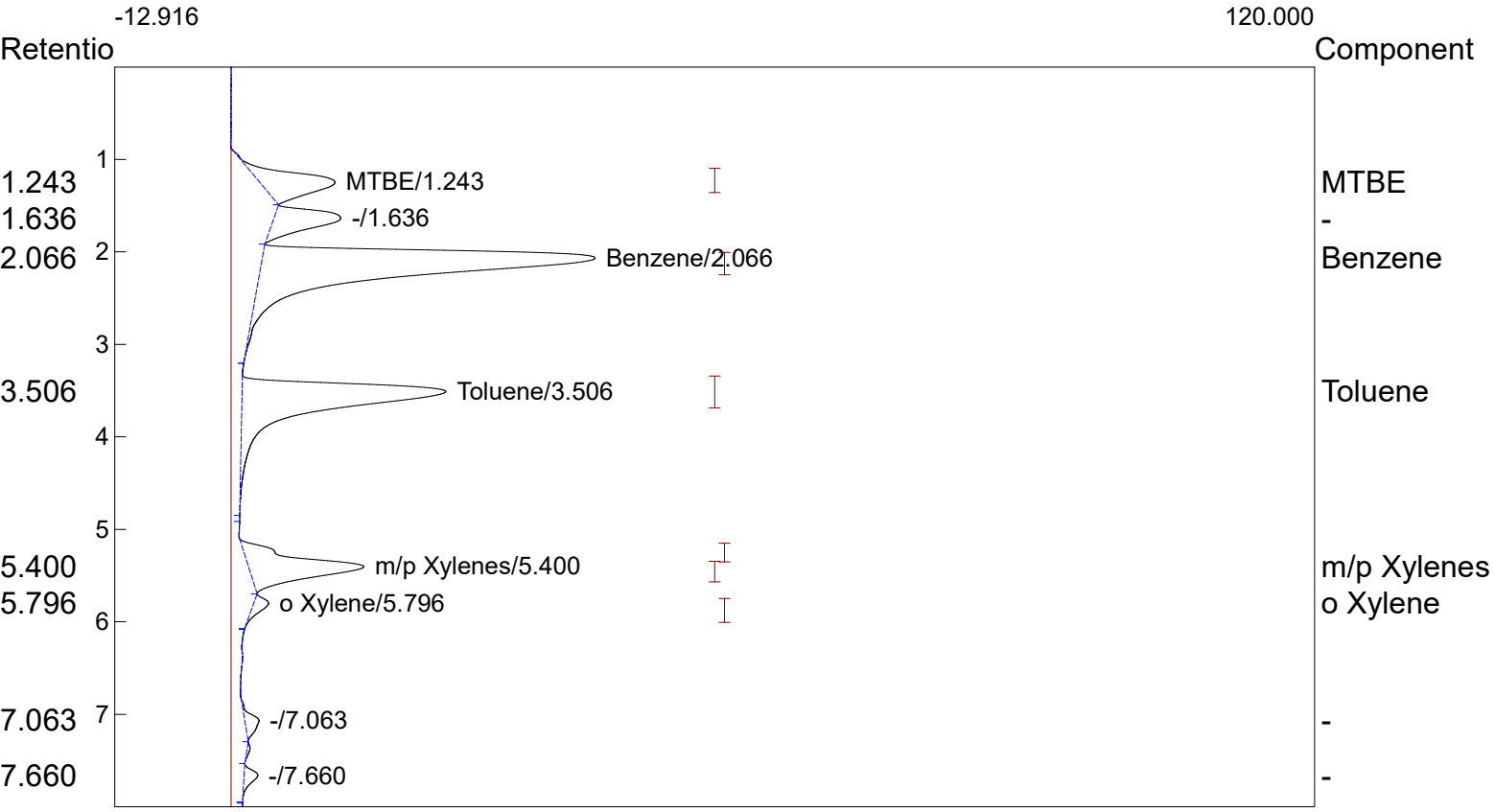


Component	Retention	Area	External	Units
MTBE	1.253	406.1391	3050.5581	ppb
Benzene	2.093	878.2200	1508.5673	ppb
Toluene	3.550	993.8922	2037.0025	ppb
m/p Xylenes	5.436	300.9880	336.5544	ppb
o Xylene	5.833	76.0338	387.2282	ppb
		2655.2731	7319.9104	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 13:51:25
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-52 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

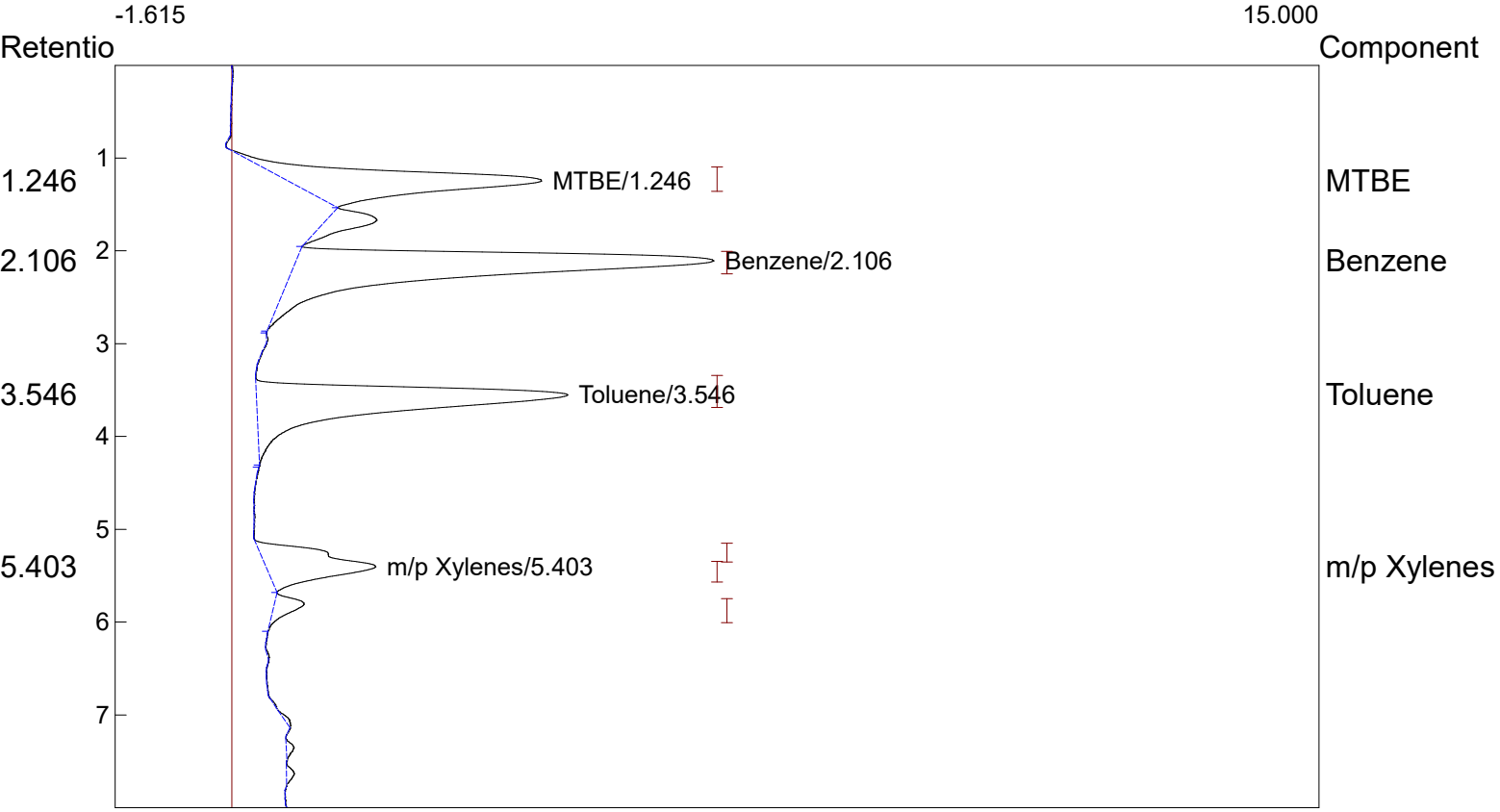


Component	Retention	Area	External	Units
MTBE	1.243	122.7748	922.1758	ppb
Benzene	2.066	664.9290	1142.1855	ppb
Toluene	3.506	410.7364	841.8127	ppb
m/p Xylenes	5.400	186.3722	208.3950	ppb
o Xylene	5.796	16.5830	84.4546	ppb
		1401.3954	3199.0236	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 14:07:02
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-53 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

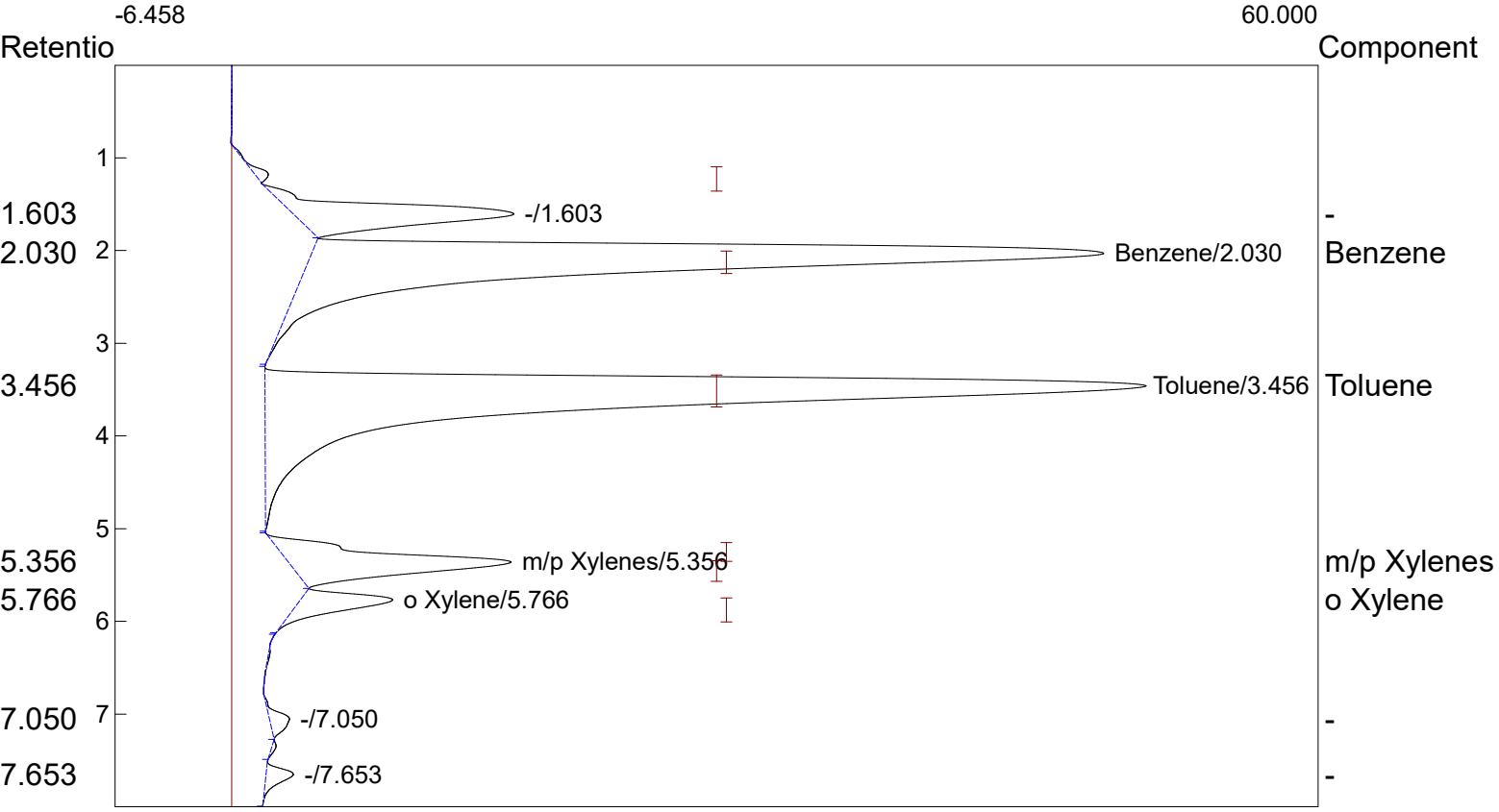


Component	Retention	Area	External	Units
MTBE	1.246	50.9540	382.7214	ppb
Benzene	2.106	94.8412	162.9140	ppb
Toluene	3.546	71.3768	146.2882	ppb
m/p Xylenes	5.403	25.5956	28.6201	ppb
		242.7676	720.5438	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 14:21:32
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-54 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

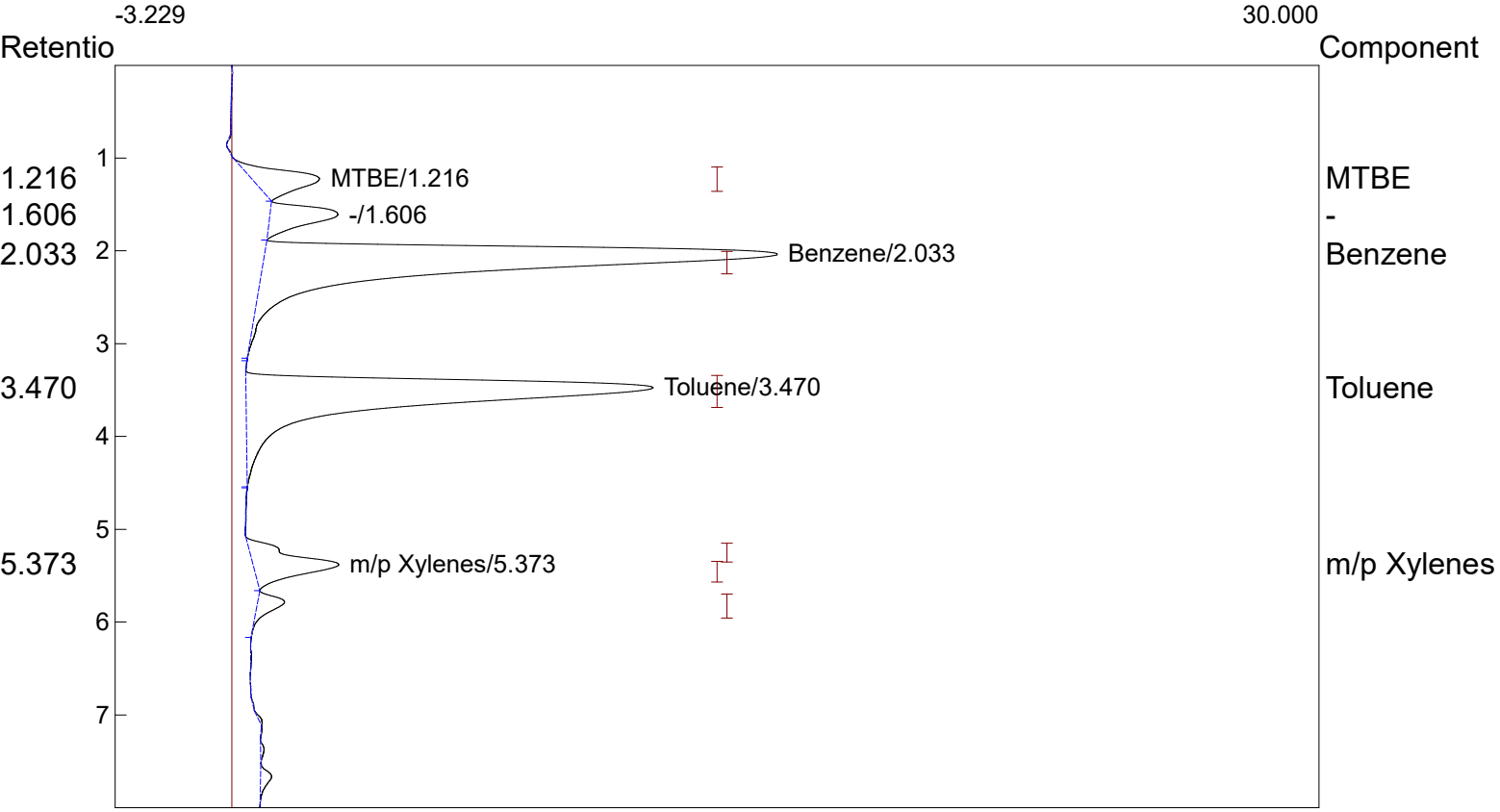


Component	Retention	Area	External	Units
Benzene	2.030	840.1498	1443.1720	ppb
Toluene	3.456	1060.5616	2173.6428	ppb
m/p Xylenes	5.356	183.8104	205.5304	ppb
o Xylene	5.766	61.1332	311.3418	ppb
		2145.6550	4133.6870	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 14:36:08
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-55 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

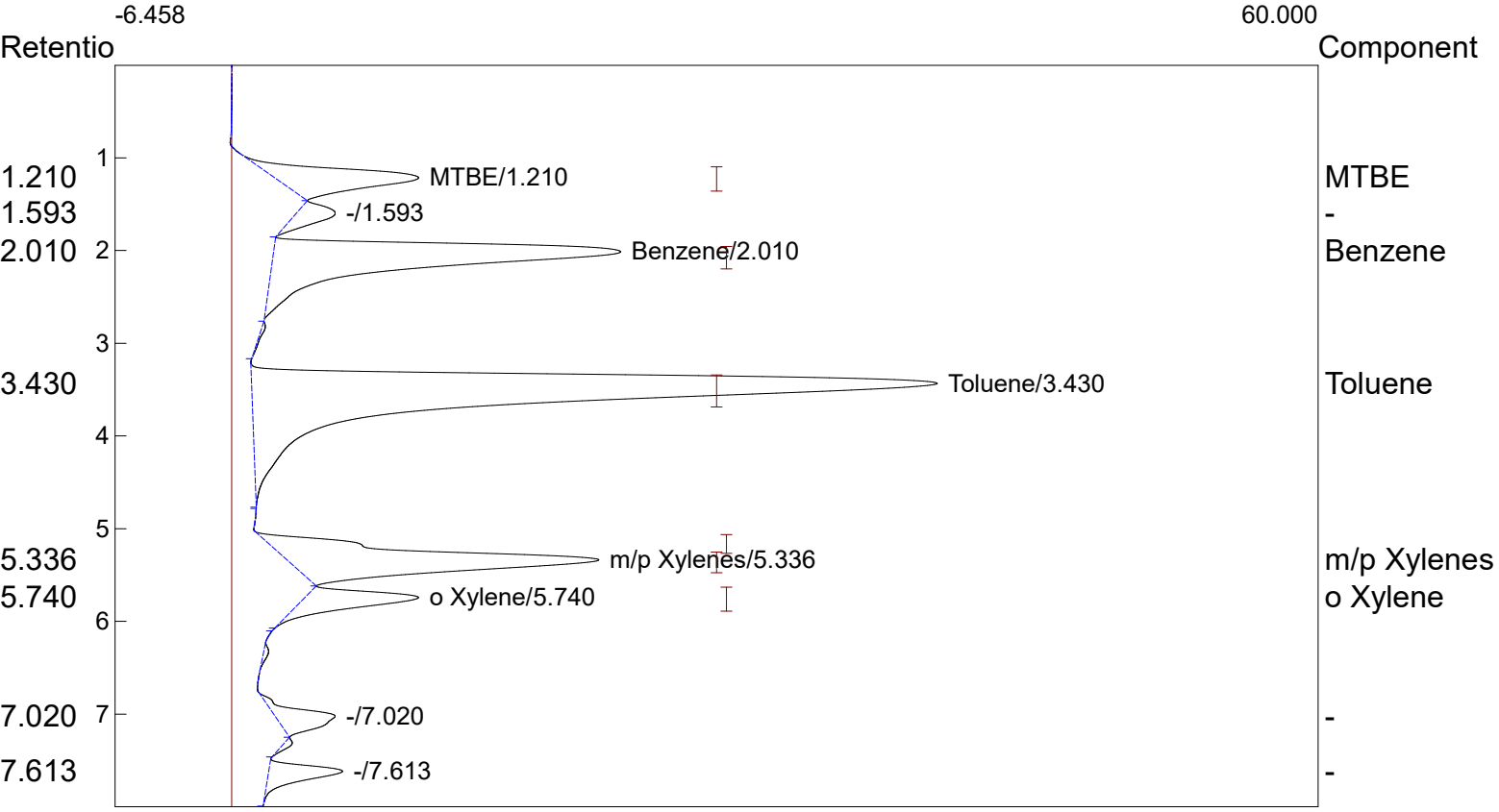


Component	Retention	Area	External	Units
MTBE	1.216	25.3628	190.5029	ppb
Benzene	2.033	242.1676	415.9847	ppb
Toluene	3.470	201.5444	413.0694	ppb
m/p Xylenes	5.373	35.1812	39.3384	ppb
		504.2560	1058.8955	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 14:50:19
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-56 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

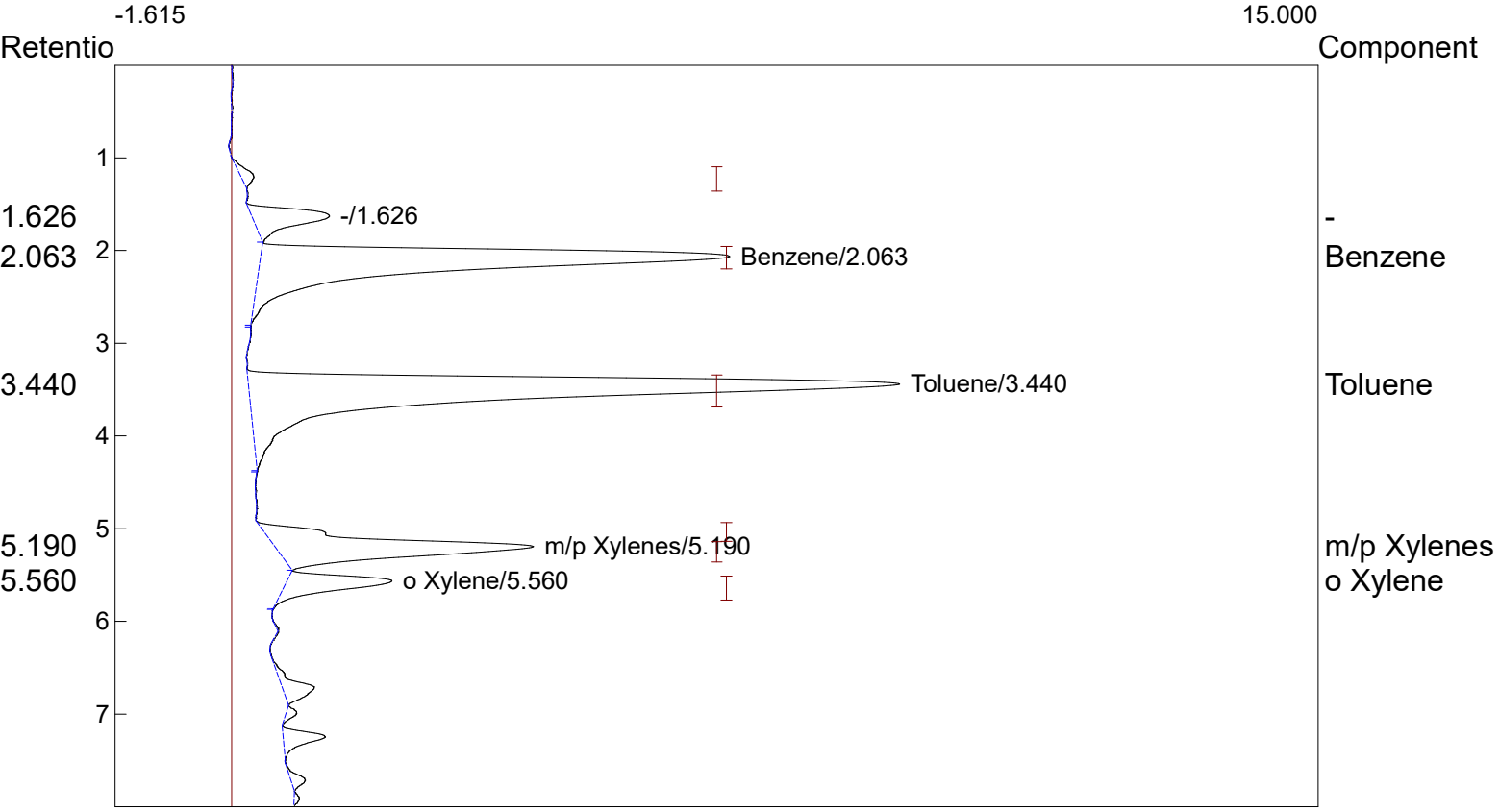


Component	Retention	Area	External	Units
MTBE	1.210	107.1380	804.7260	ppb
Benzene	2.010	325.2828	558.7563	ppb
Toluene	3.430	761.6302	1560.9767	ppb
m/p Xylenes	5.336	256.3548	286.6471	ppb
o Xylene	5.740	71.3322	363.2837	ppb
		1521.7380	3574.3898	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 16:55:39
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-57 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

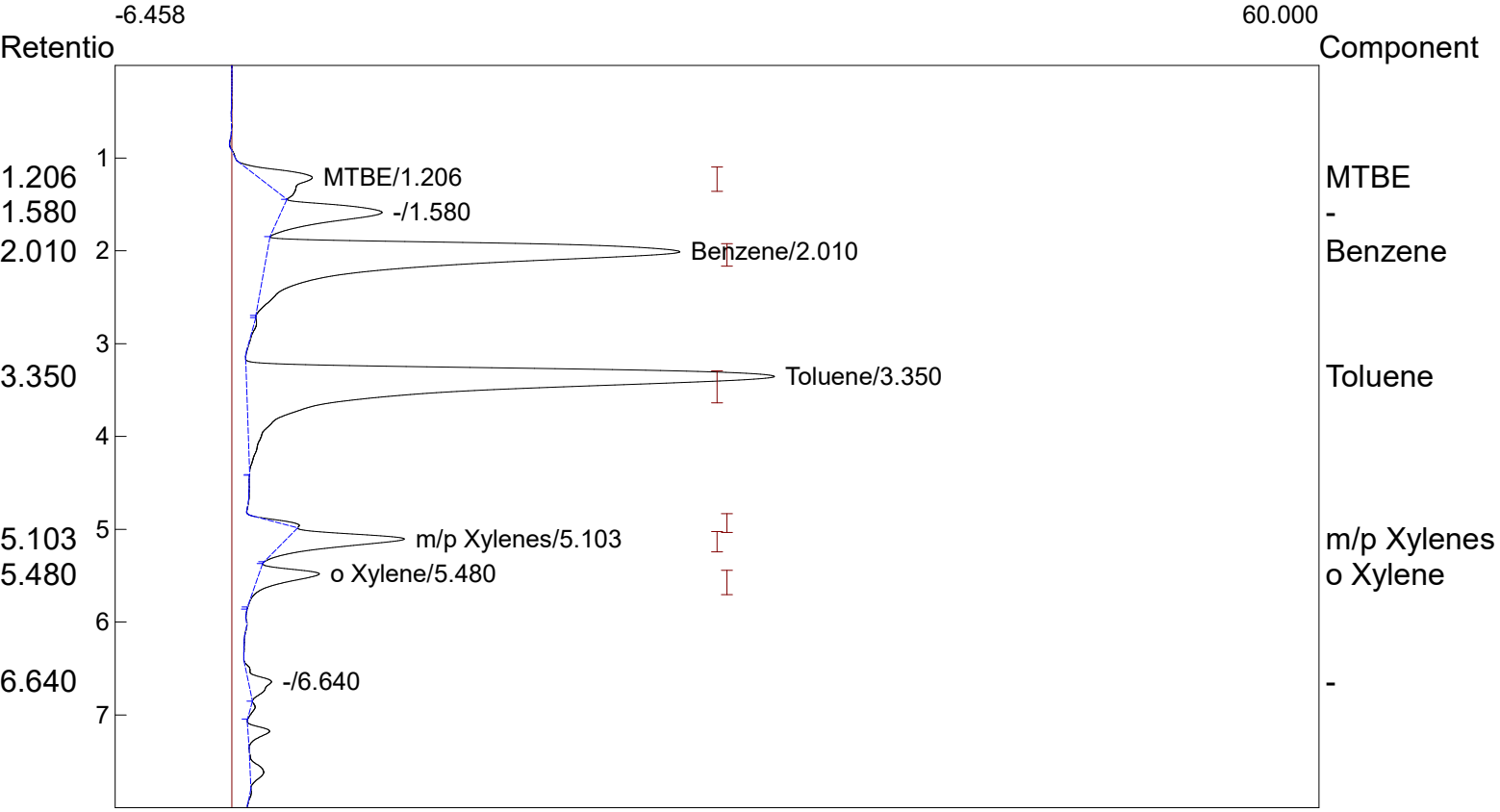


Component	Retention	Area	External	Units
Benzene	2.063	95.3188	163.7344	ppb
Toluene	3.440	136.4388	279.6341	ppb
m/p Xylenes	5.190	44.7598	50.0489	ppb
o Xylene	5.560	14.7344	75.0400	ppb
		291.2518	568.4574	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 17:05:50
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-58 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

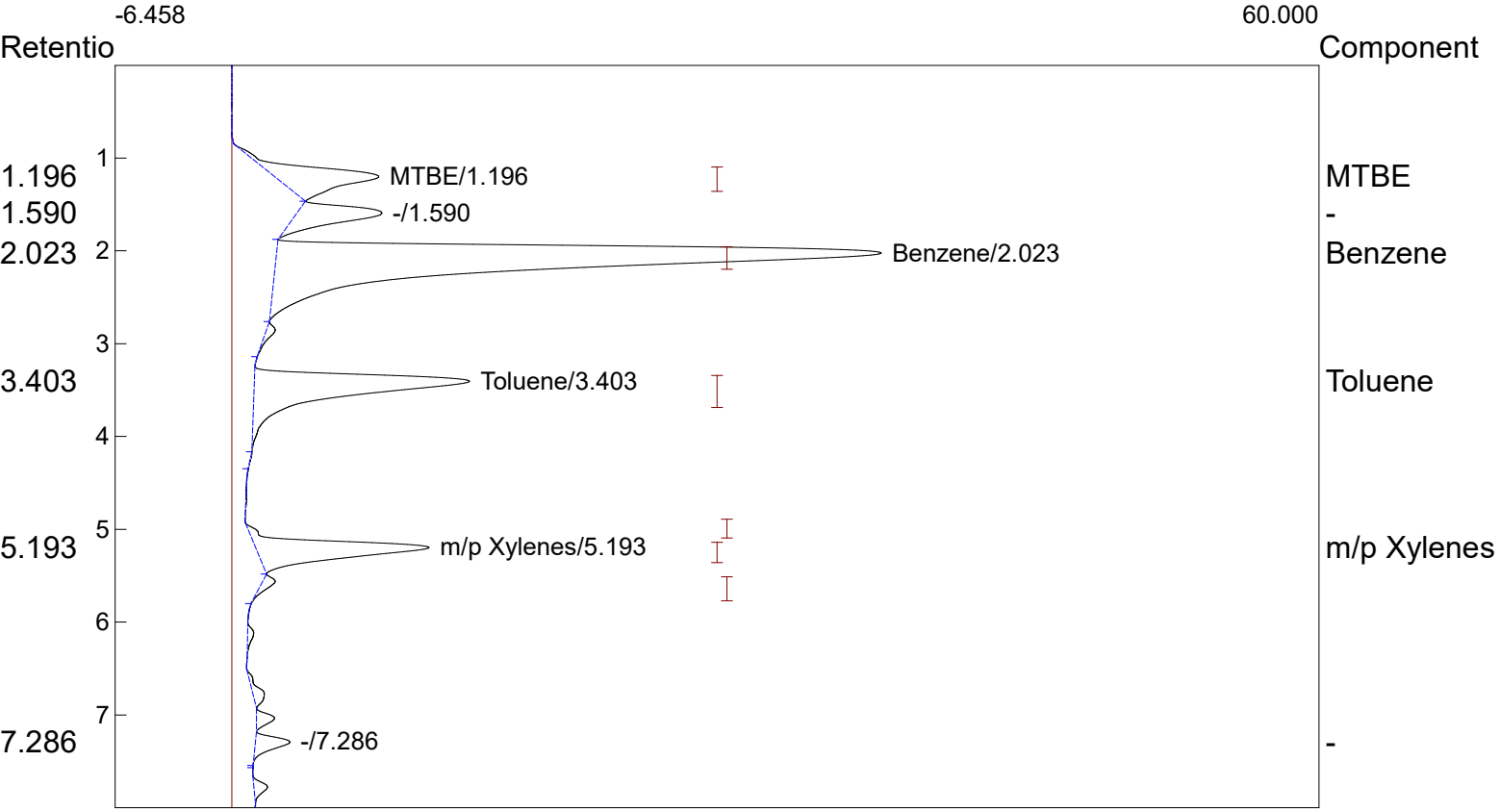


Component	Retention	Area	External	Units
MTBE	1.206	35.1432	263.9647	ppb
Benzene	2.010	350.9726	602.8851	ppb
Toluene	3.350	469.7782	962.8201	ppb
m/p Xylenes	5.103	58.7536	65.6962	ppb
o Xylene	5.480	30.1008	153.2986	ppb
		944.7484	2048.6648	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 16:31:26
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-59 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

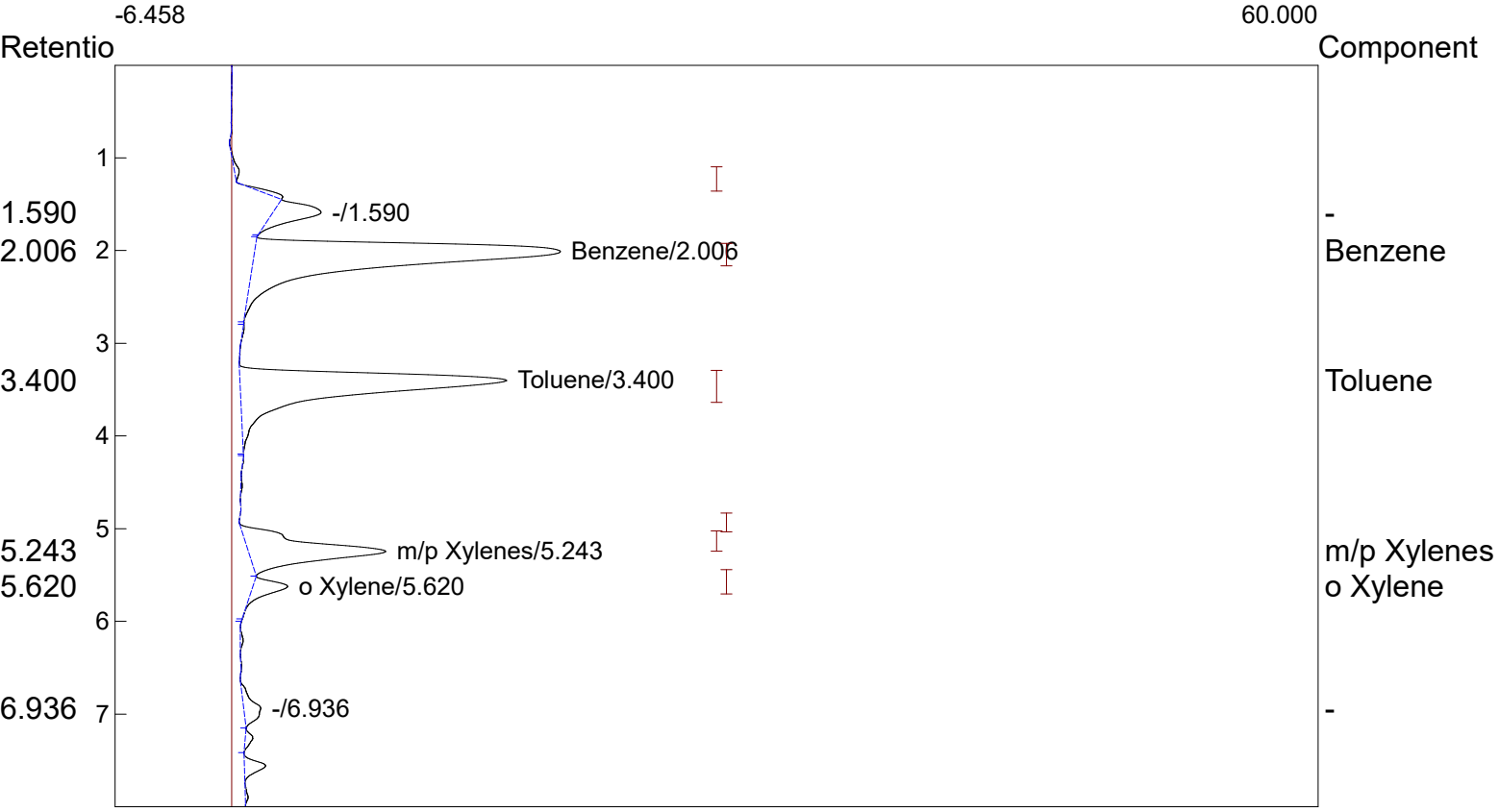


Component	Retention	Area	External	Units
MTBE	1.196	77.5320	582.3519	ppb
Benzene	2.023	549.3730	943.6885	ppb
Toluene	3.403	173.9806	356.5768	ppb
m/p Xylenes	5.193	108.4576	121.2735	ppb
		909.3432	2003.8908	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 17:16:30
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-60 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

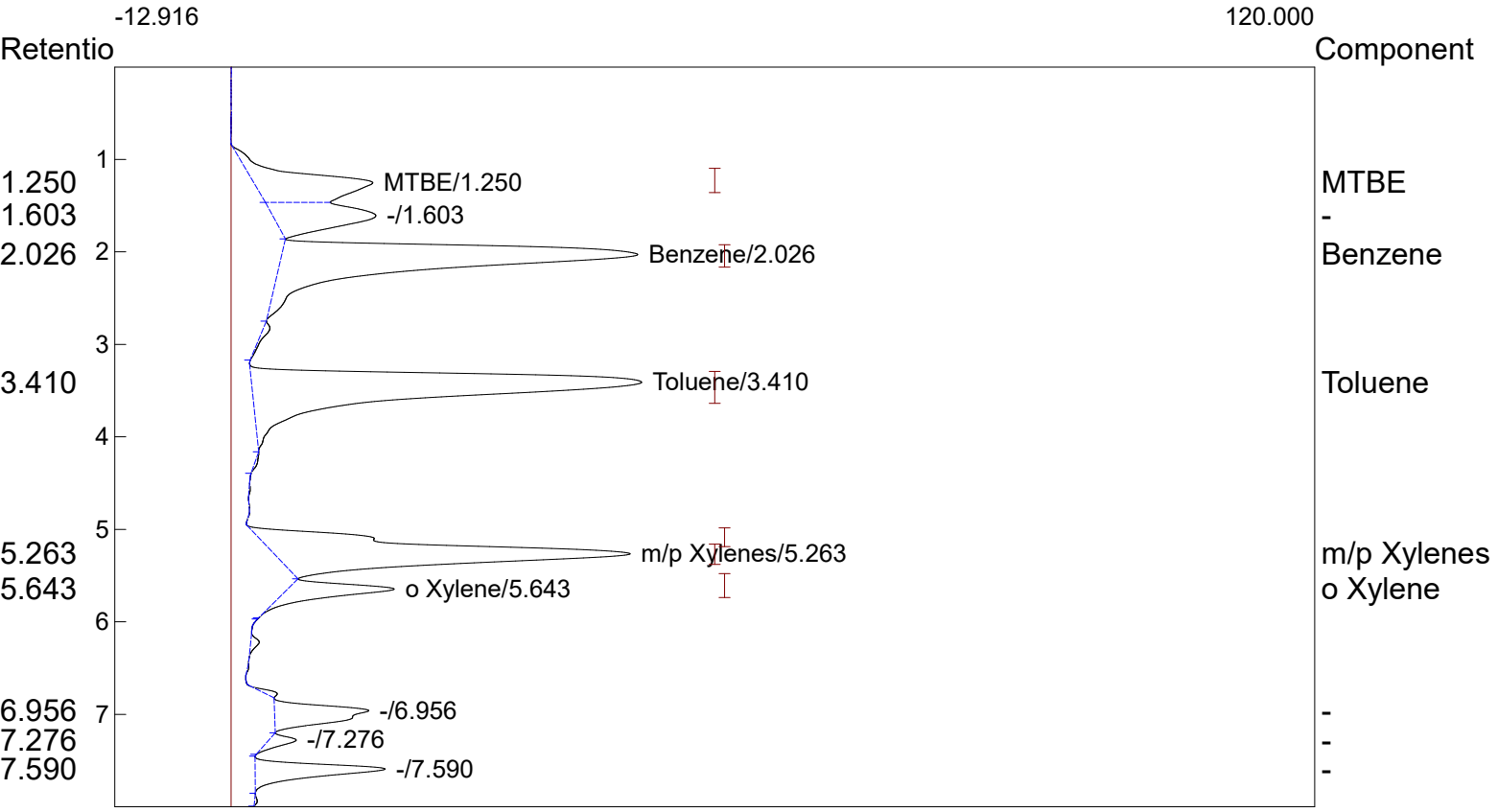


Component	Retention	Area	External	Units
Benzene	2.006	273.3872	469.6124	ppb
Toluene	3.400	220.6704	452.2685	ppb
m/p Xylenes	5.243	102.3070	114.3962	ppb
o Xylene	5.620	17.4030	88.6307	ppb
		613.7676	1124.9078	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 17:27:10
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-61 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

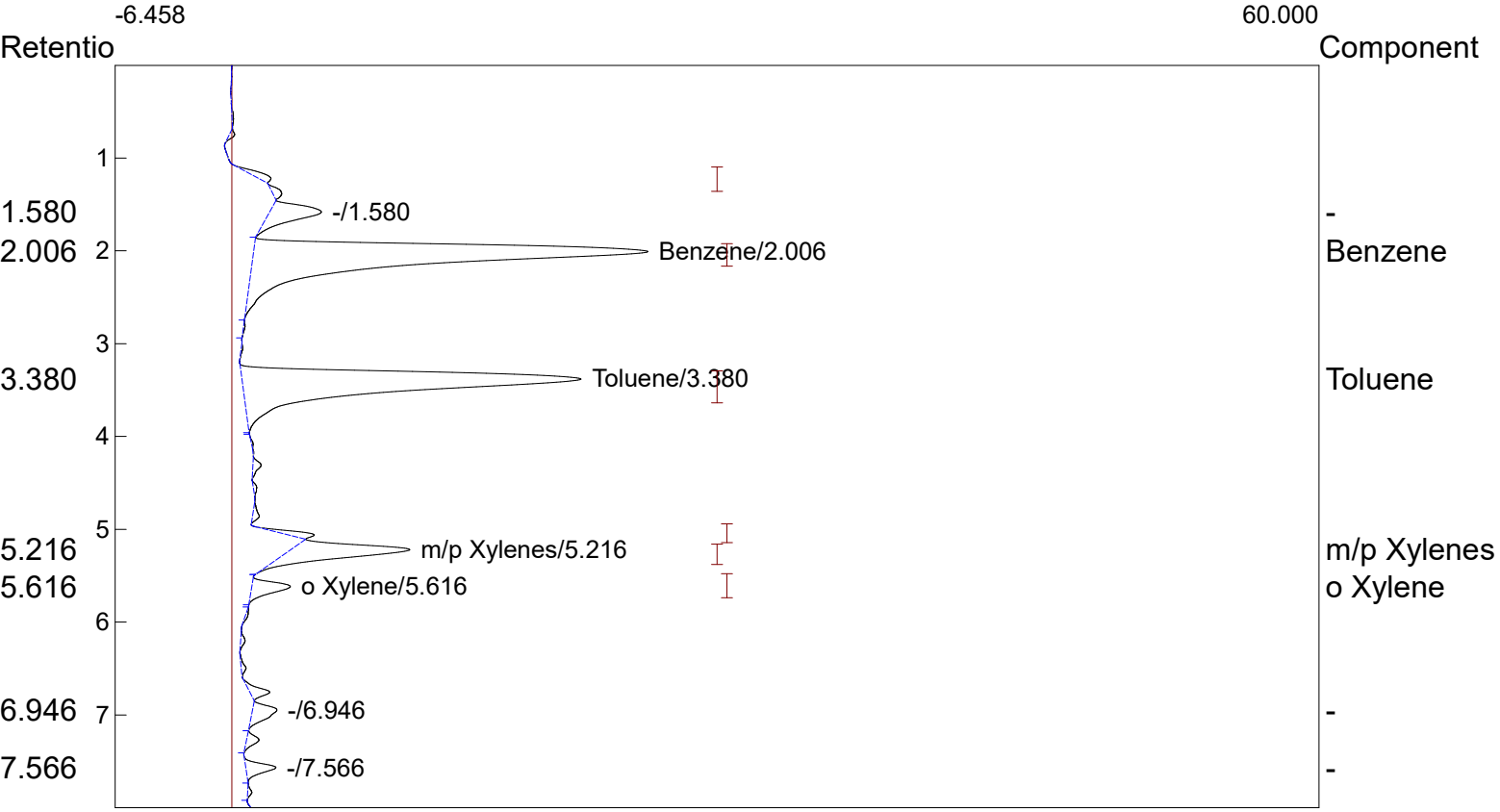


Component	Retention	Area	External	Units
MTBE	1.250	219.5652	1649.1798	ppb
Benzene	2.026	642.7756	1104.1314	ppb
Toluene	3.410	740.1008	1516.8518	ppb
m/p Xylenes	5.263	562.8600	629.3706	ppb
o Xylene	5.643	104.0650	529.9867	ppb
		2269.3666	5429.5202	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 17:37:37
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-62 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

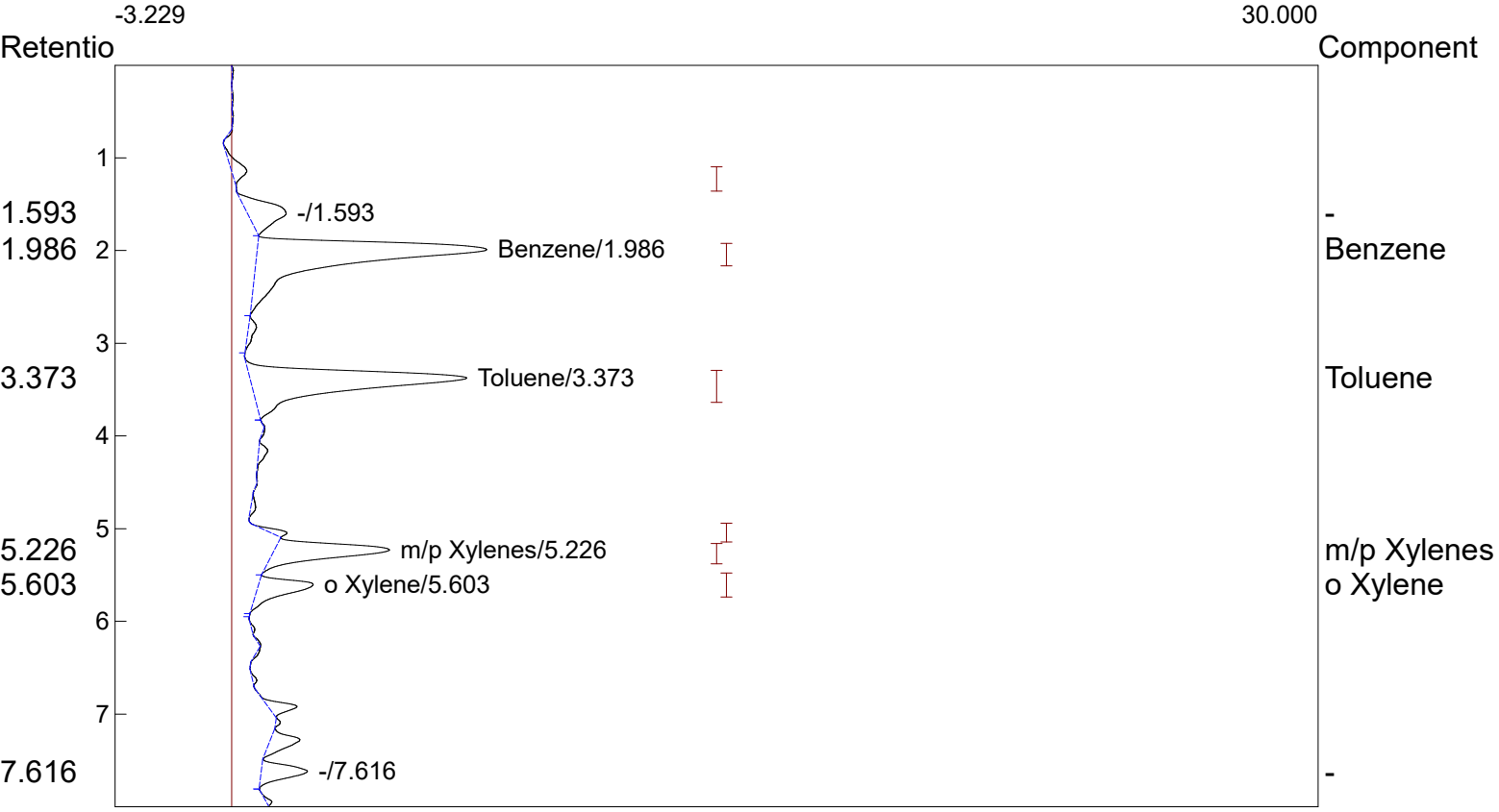


Component	Retention	Area	External	Units
Benzene	2.006	306.5616	526.5979	ppb
Toluene	3.380	258.4306	529.6588	ppb
m/p Xylenes	5.216	61.0364	68.2488	ppb
o Xylene	5.616	16.6192	84.6390	ppb
		642.6478	1209.1445	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/18/2021 17:48:14
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-63 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

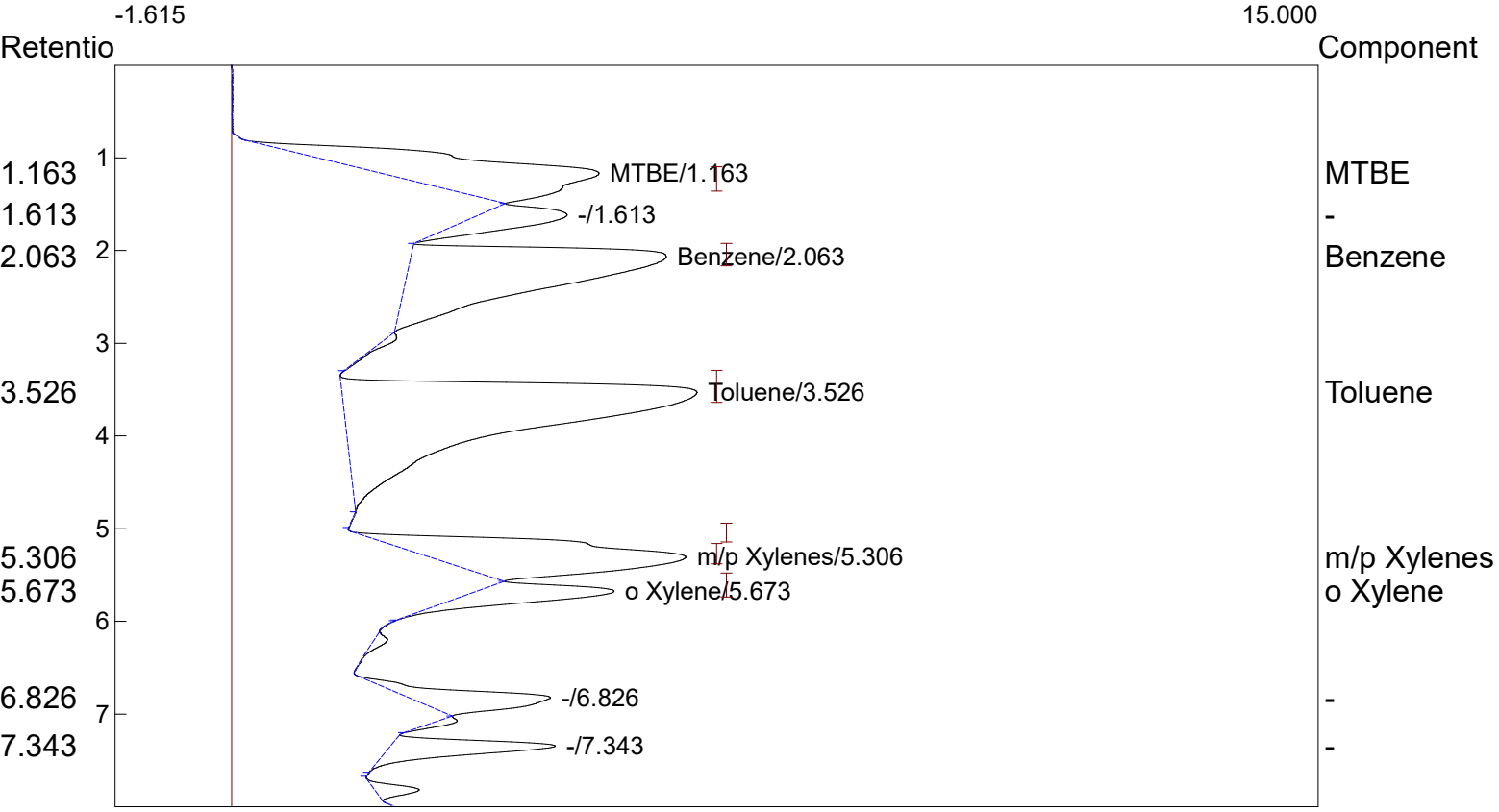


Component	Retention	Area	External	Units
Benzene	1.986	94.3362	162.0465	ppb
Toluene	3.373	79.5284	162.9951	ppb
m/p Xylenes	5.226	31.3304	35.0326	ppb
o Xylene	5.603	16.1248	82.1211	ppb
		221.3198	442.1953	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 09:42:56
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-64 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

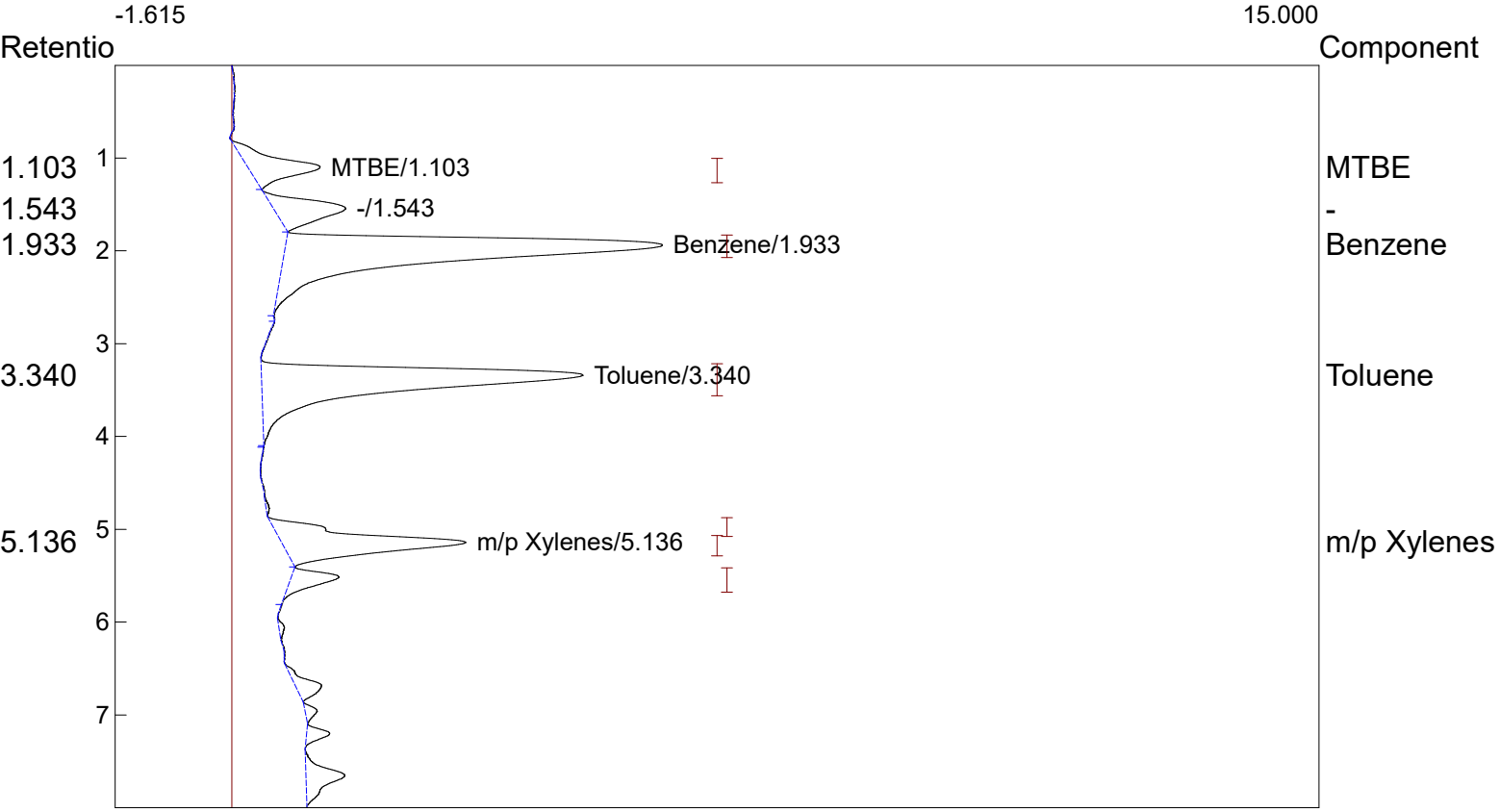


Component	Retention	Area	External	Units
MTBE	1.163	71.9404	540.3527	ppb
Benzene	2.063	103.3344	177.5032	ppb
Toluene	3.526	169.6966	347.7967	ppb
m/p Xylenes	5.306	71.1610	79.5698	ppb
o Xylene	5.673	23.2420	118.3678	ppb
		439.3744	1263.5902	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 09:59:19
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-65 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

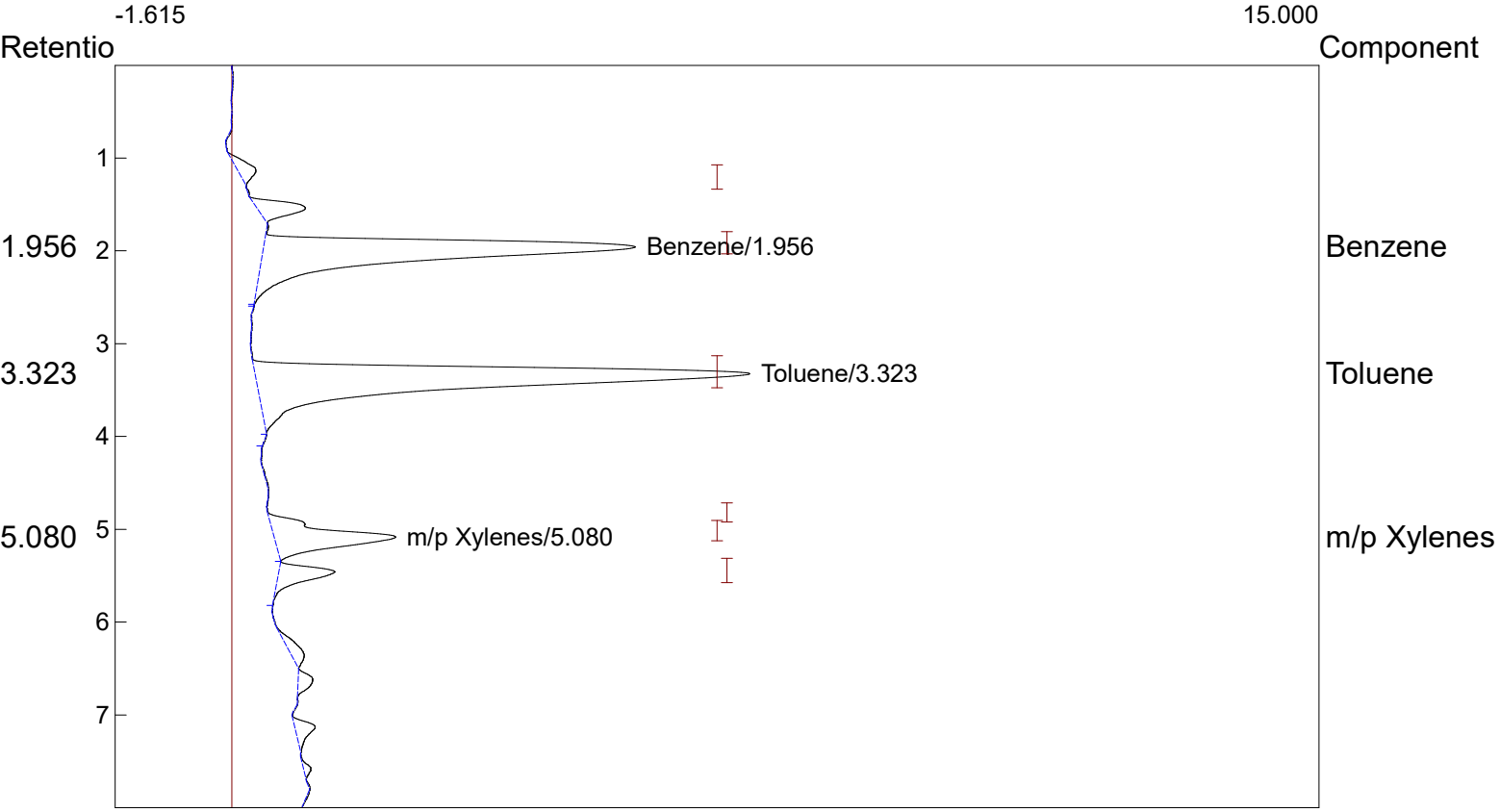


Component	Retention	Area	External	Units
MTBE	1.103	13.7392	103.1967	ppb
Benzene	1.933	85.0998	146.1807	ppb
Toluene	3.340	70.5804	144.6560	ppb
m/p Xylenes	5.136	33.6868	37.6674	ppb
		203.1062	431.7008	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 11:12:37
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-66 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

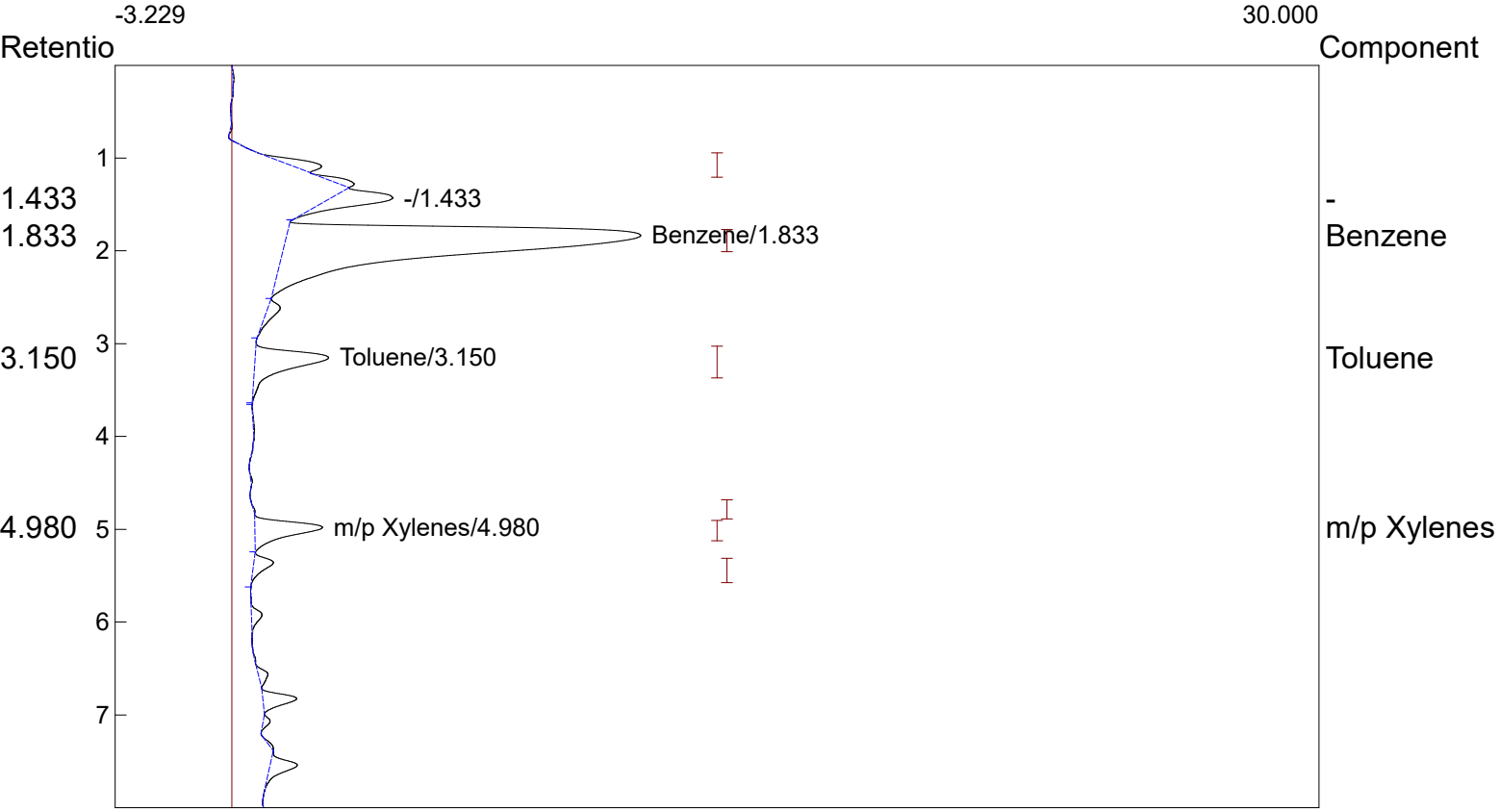


Component	Retention	Area	External	Units
Benzene	1.956	71.7692	123.2819	ppb
Toluene	3.323	98.1872	201.2367	ppb
m/p Xylenes	5.080	21.4504	23.9851	ppb
		191.4068	348.5037	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 10:09:53
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-67 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

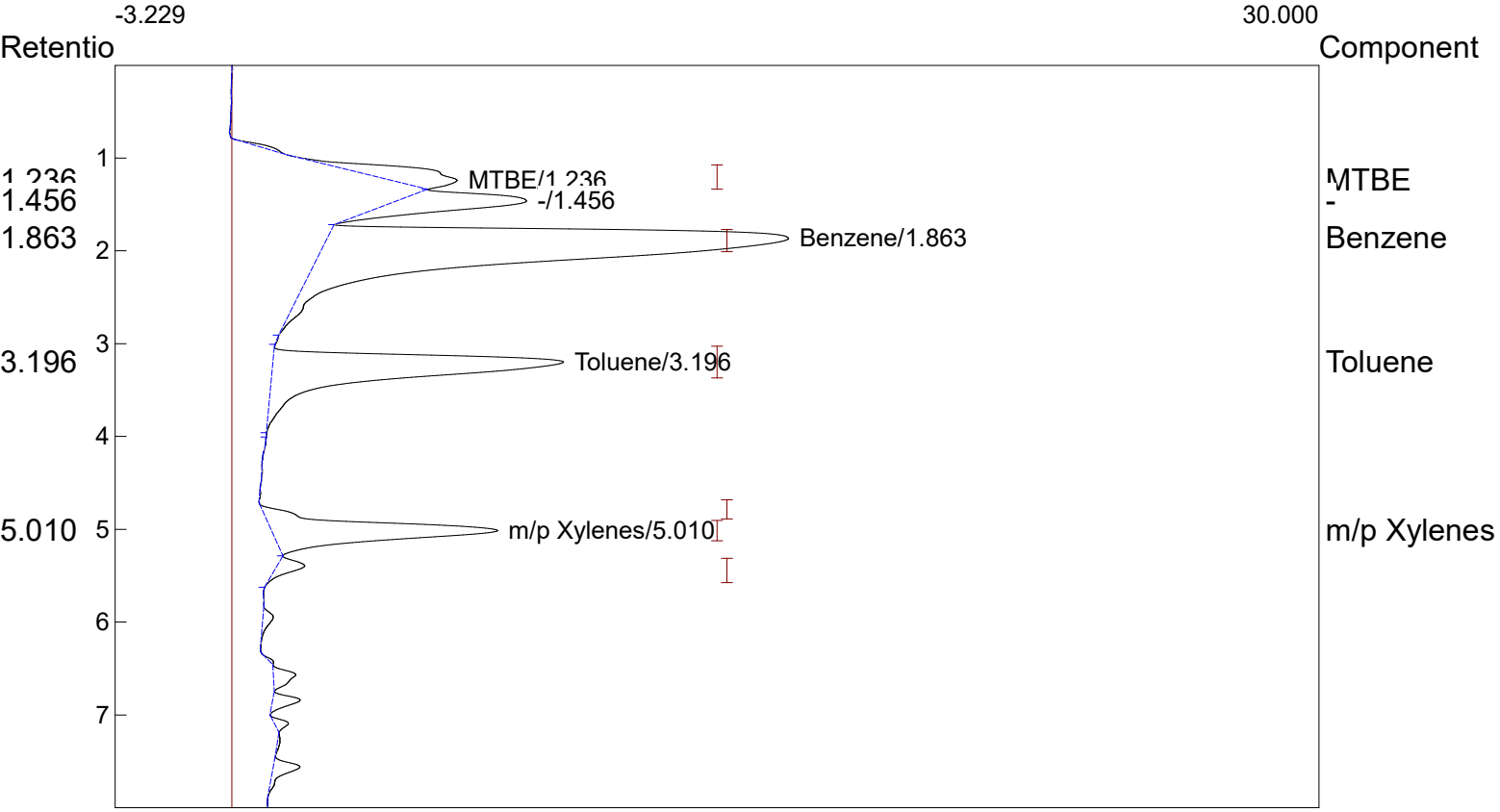


Component	Retention	Area	External	Units
Benzene	1.833	193.1600	331.8017	ppb
Toluene	3.150	25.5240	52.3120	ppb
m/p Xylenes	4.980	18.8270	21.0517	ppb
		237.5110	405.1653	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 10:21:14
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-68 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

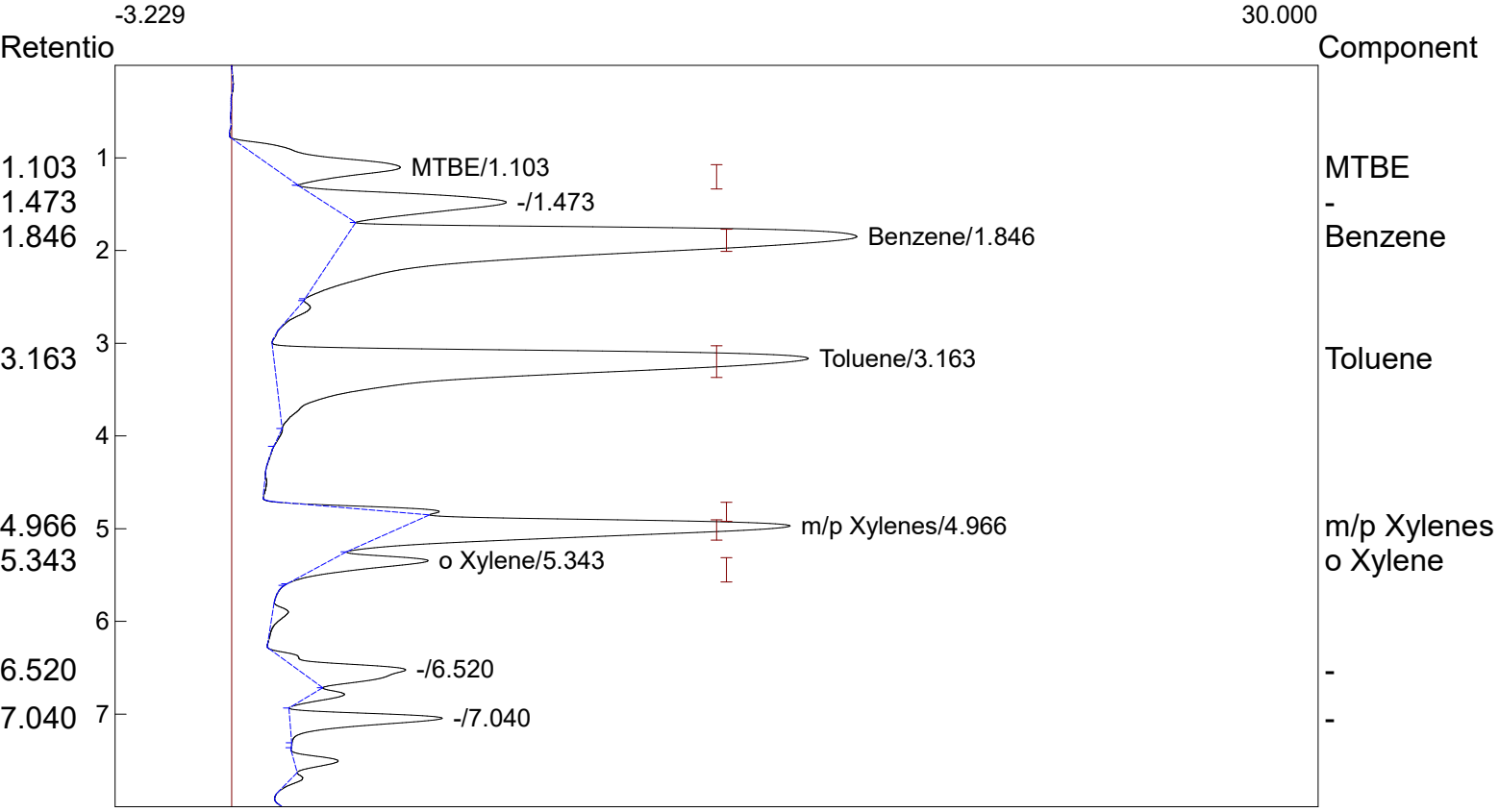


Component	Retention	Area	External	Units
MTBE	1.236	28.3826	213.1850	ppb
Benzene	1.863	285.1018	489.7352	ppb
Toluene	3.196	127.6444	261.6098	ppb
m/p Xylenes	5.010	77.2708	86.4015	ppb
		518.3996	1050.9316	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 10:31:45
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-69 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

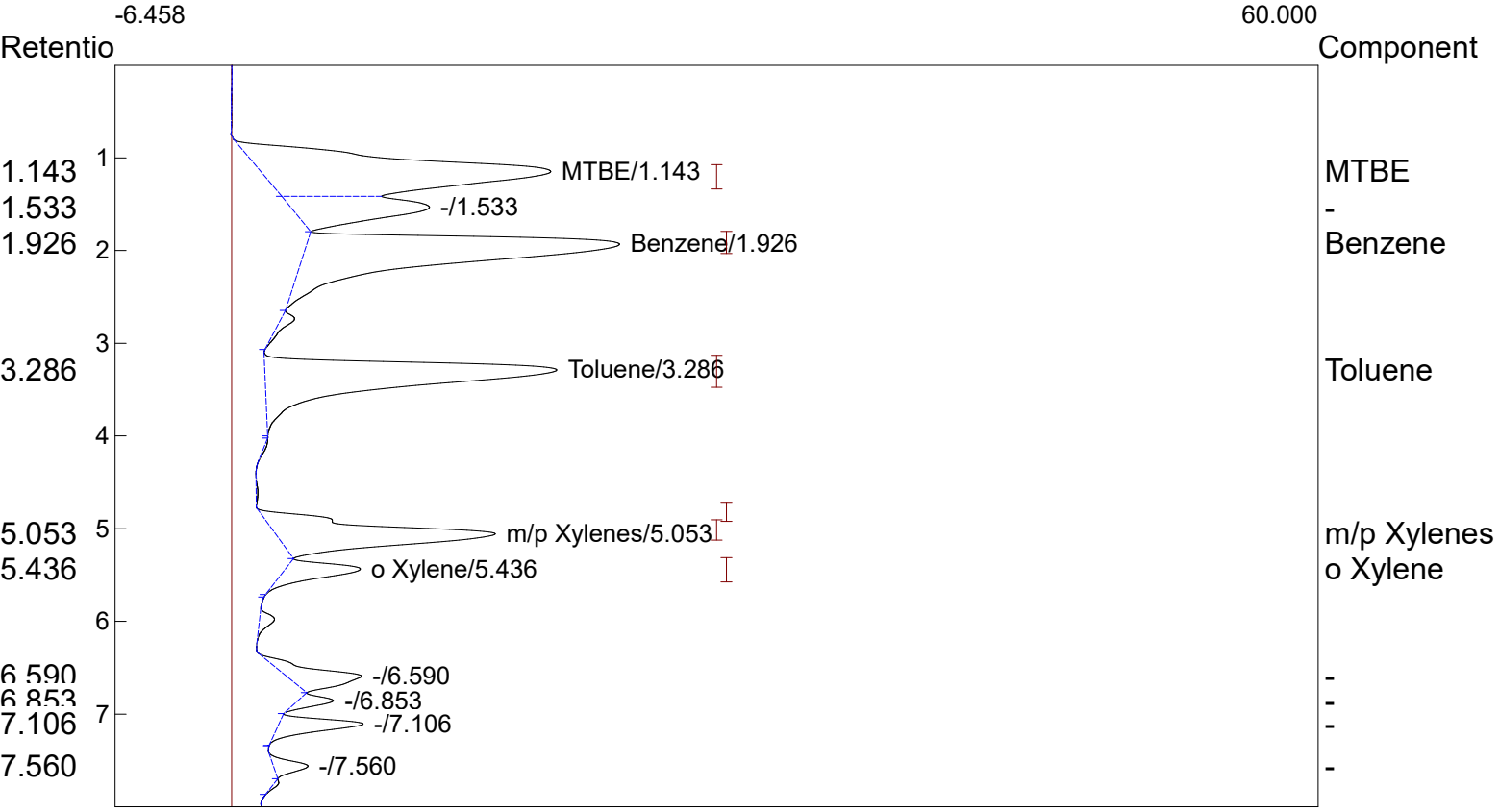


Component	Retention	Area	External	Units
MTBE	1.103	52.0364	390.8515	ppb
Benzene	1.846	274.9350	472.2711	ppb
Toluene	3.163	262.7596	538.5312	ppb
m/p Xylenes	4.966	123.4712	138.0612	ppb
o Xylene	5.343	23.7178	120.7910	ppb
		736.9200	1660.5060	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 10:50:57
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-70 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

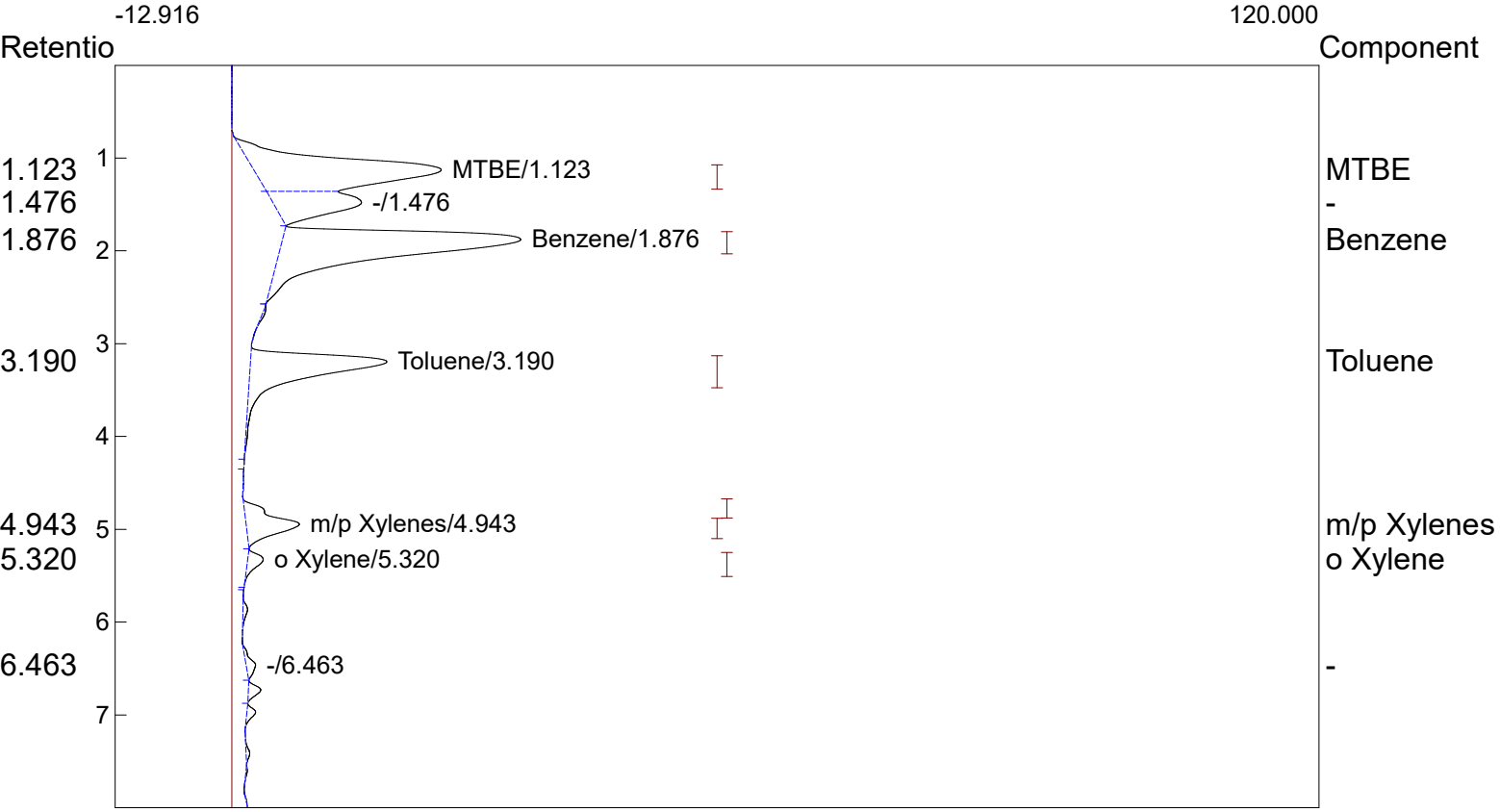


Component	Retention	Area	External	Units
MTBE	1.143	331.7694	2491.9586	ppb
Benzene	1.926	326.7650	561.3024	ppb
Toluene	3.286	274.1268	561.8285	ppb
m/p Xylenes	5.053	172.6028	192.9985	ppb
o Xylene	5.436	42.3796	215.8326	ppb
		1147.6436	4023.9206	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 12:47:48
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-71 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

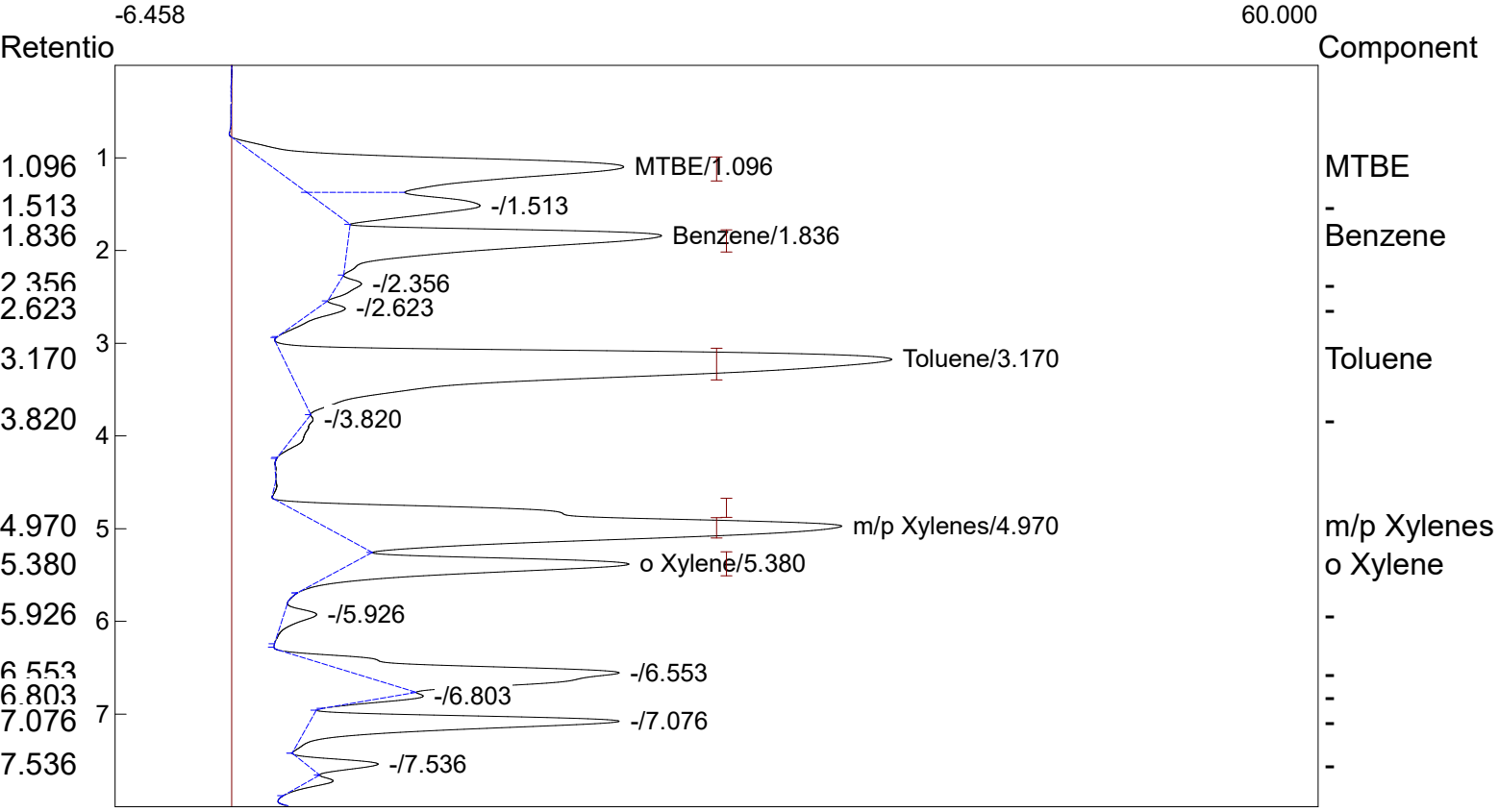


Component	Retention	Area	External	Units
MTBE	1.123	380.9000	2860.9843	ppb
Benzene	1.876	477.9208	820.9511	ppb
Toluene	3.190	236.2810	484.2628	ppb
m/p Xylenes	4.943	82.6710	92.4399	ppb
o Xylene	5.320	17.5180	89.2164	ppb
		1195.2908	4347.8544	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 13:00:02
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-72 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

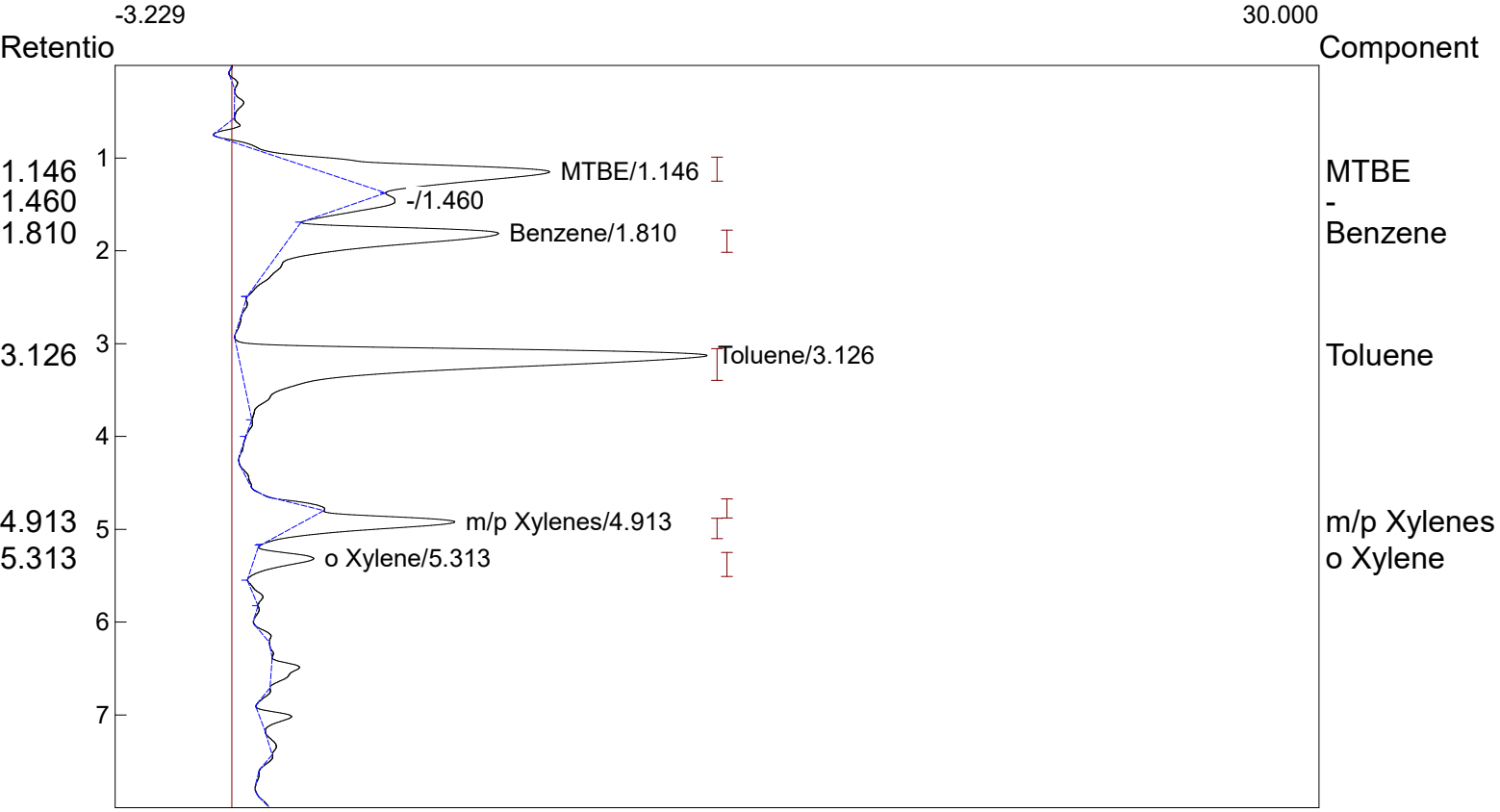


Component	Retention	Area	External	Units
MTBE	1.096	327.0560	2456.5557	ppb
Benzene	1.836	229.0564	393.4629	ppb
Toluene	3.170	634.5688	1300.5618	ppb
m/p Xylenes	4.970	500.8460	560.0287	ppb
o Xylene	5.380	159.0208	809.8679	ppb
		1850.5480	5520.4770	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 13:11:10
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-73 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

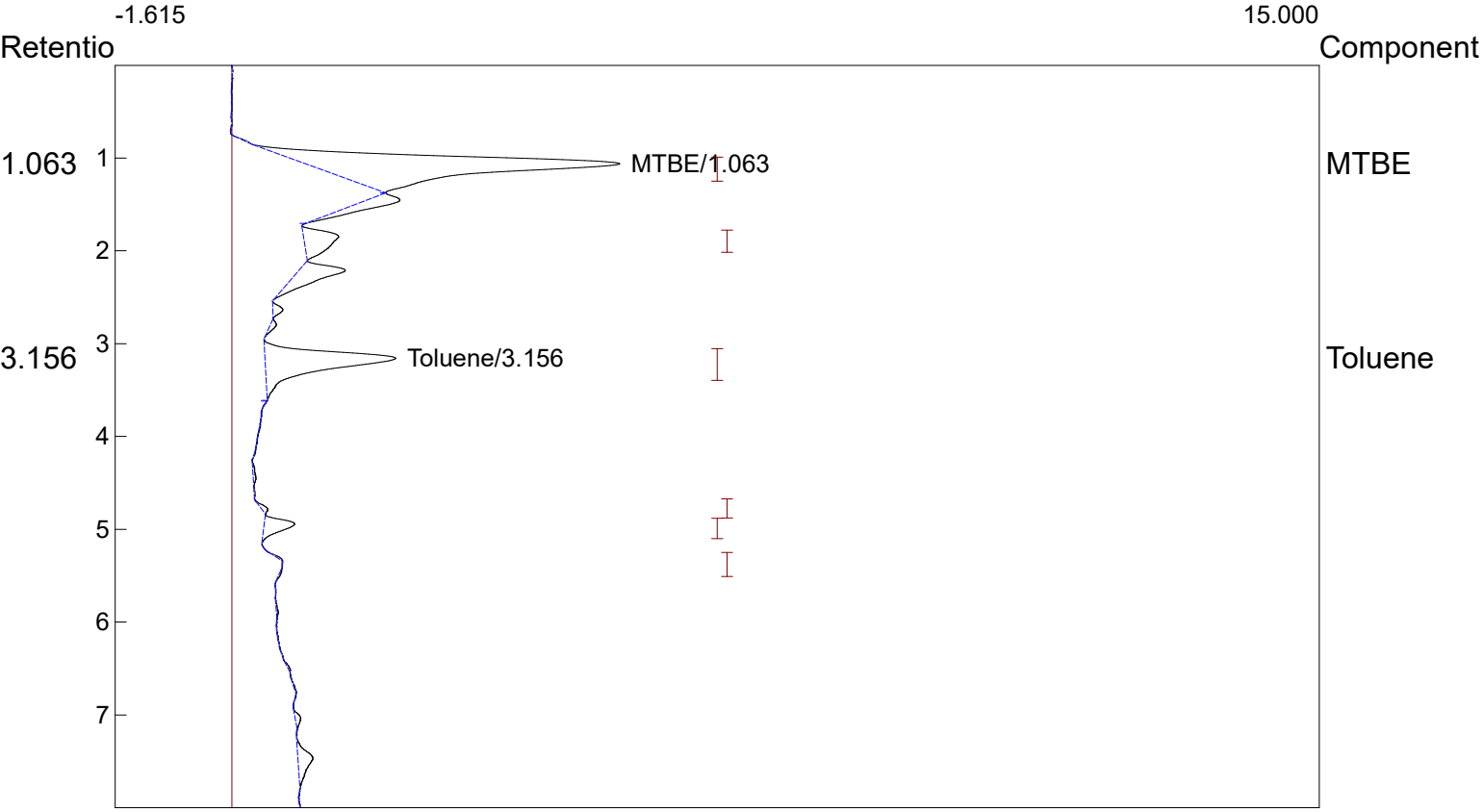


Component	Retention	Area	External	Units
MTBE	1.146	79.6114	597.9705	ppb
Benzene	1.810	74.9656	128.7726	ppb
Toluene	3.126	189.1084	387.5815	ppb
m/p Xylenes	4.913	38.4668	43.0122	ppb
o Xylene	5.313	15.0508	76.6514	ppb
		397.2030	1233.9882	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 13:37:24
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-74 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

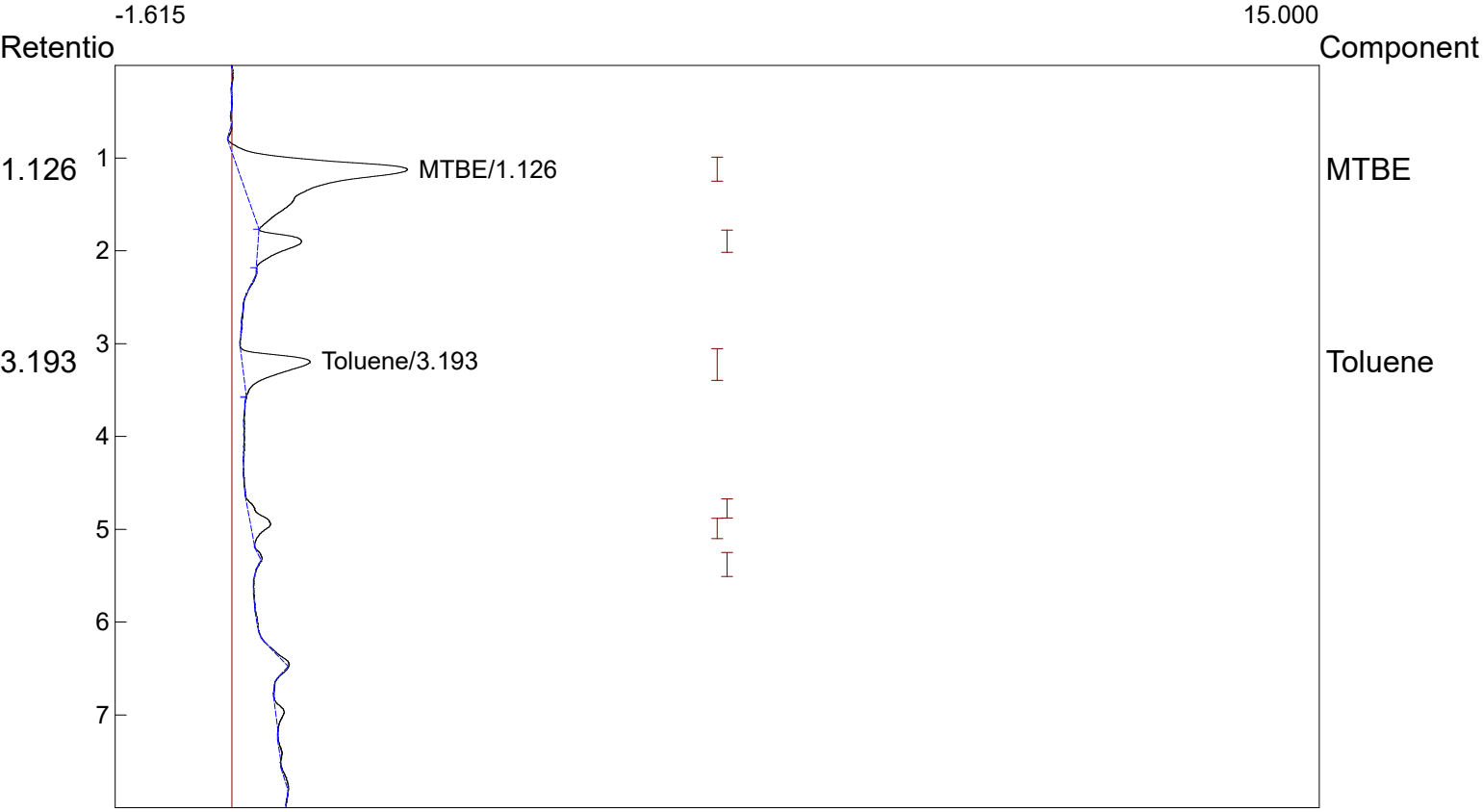


Component	Retention	Area	External	Units
MTBE	1.063	54.4848	409.2417	ppb
Toluene	3.156	23.0304	47.2013	ppb
		77.5152	456.4430	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 13:55:31
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-75 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

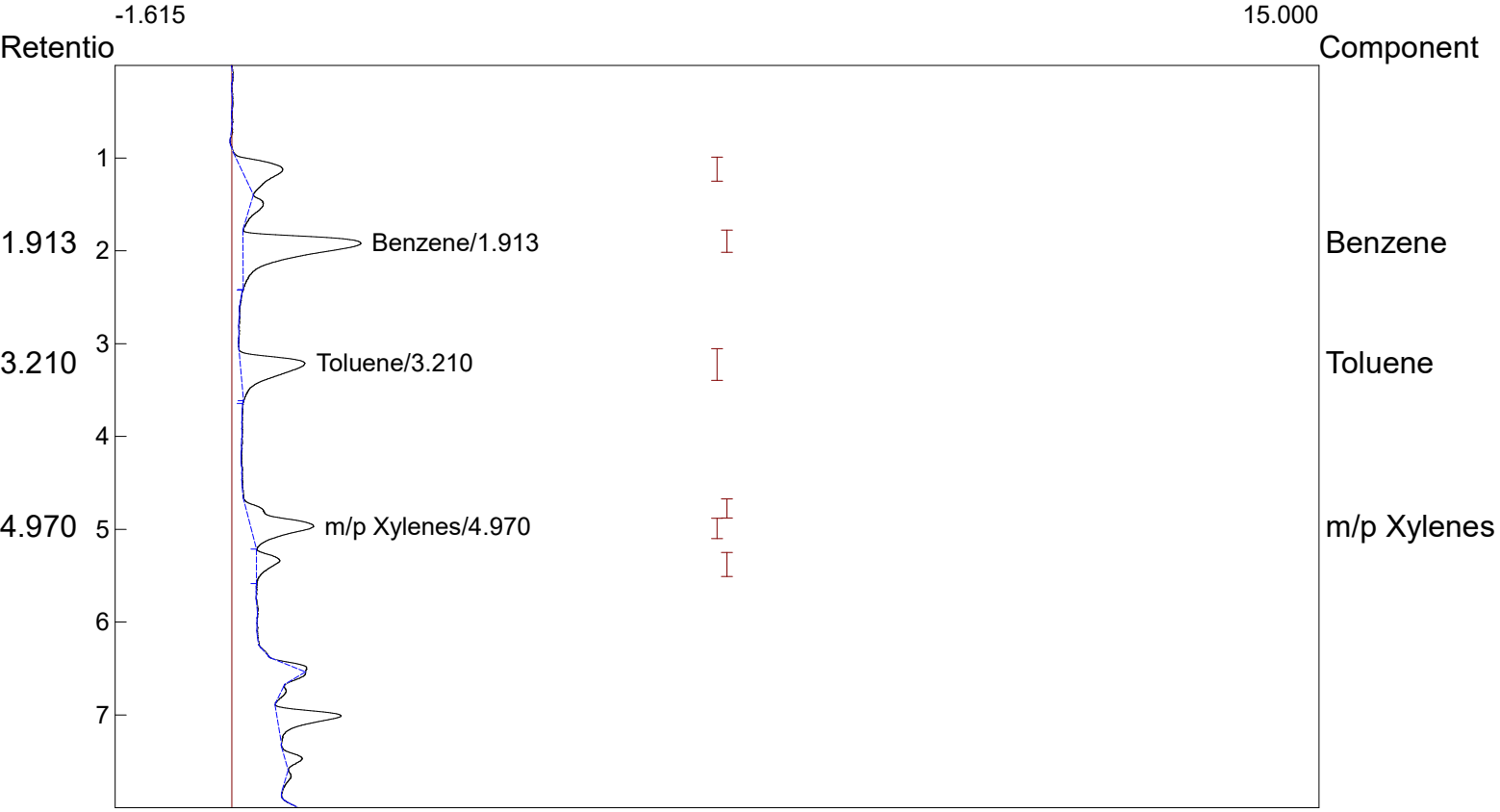


Component	Retention	Area	External	Units
MTBE	1.126	46.7504	351.1477	ppb
Toluene	3.193	12.3412	25.2935	ppb
		59.0916	376.4412	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 14:34:41
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-76 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

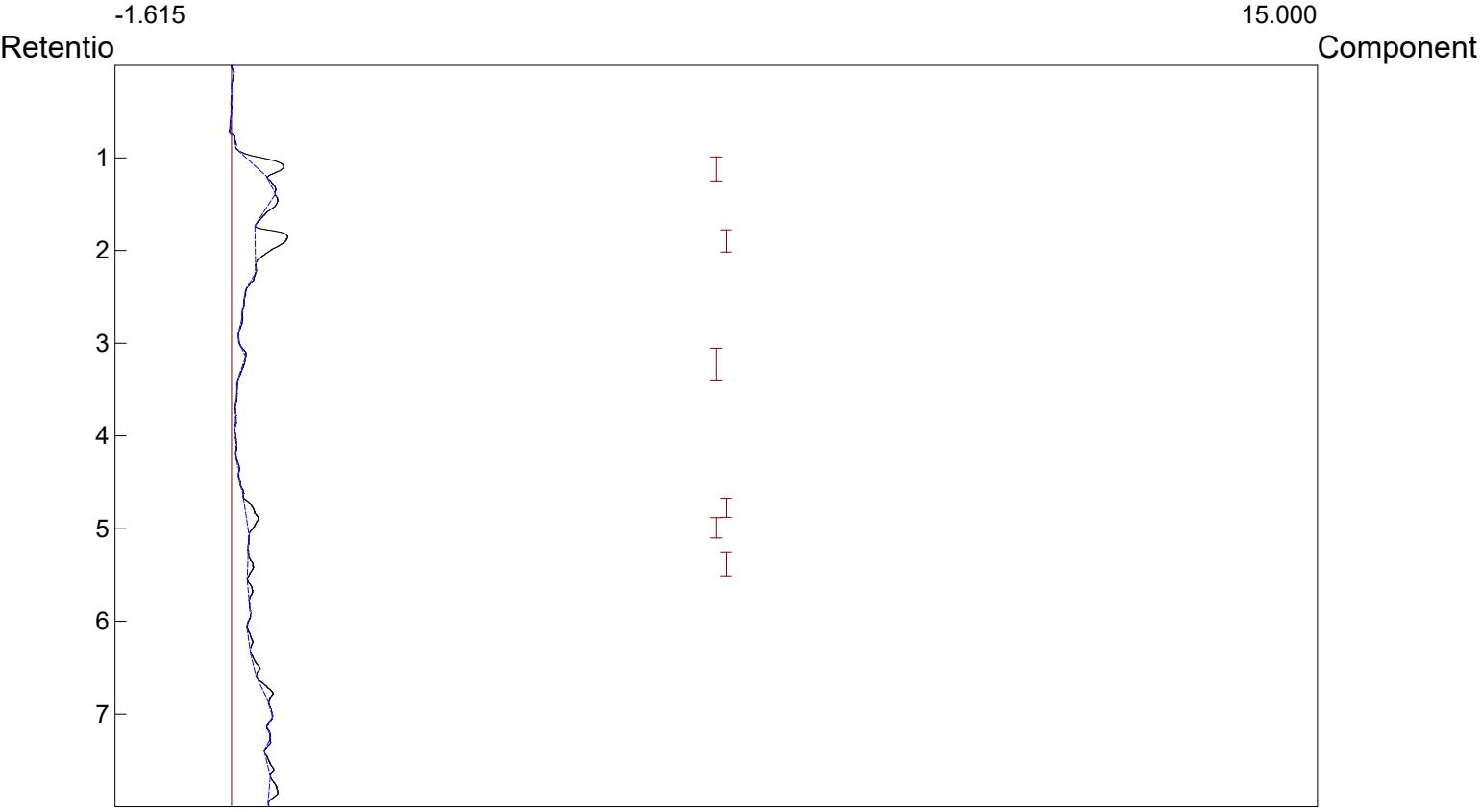


Component	Retention	Area	External	Units
Benzene	1.913	22.4552	38.5725	ppb
Toluene	3.210	12.2980	25.2050	ppb
m/p Xylenes	4.970	11.4468	12.7994	ppb
		46.2000	76.5770	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 14:51:02
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-77 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

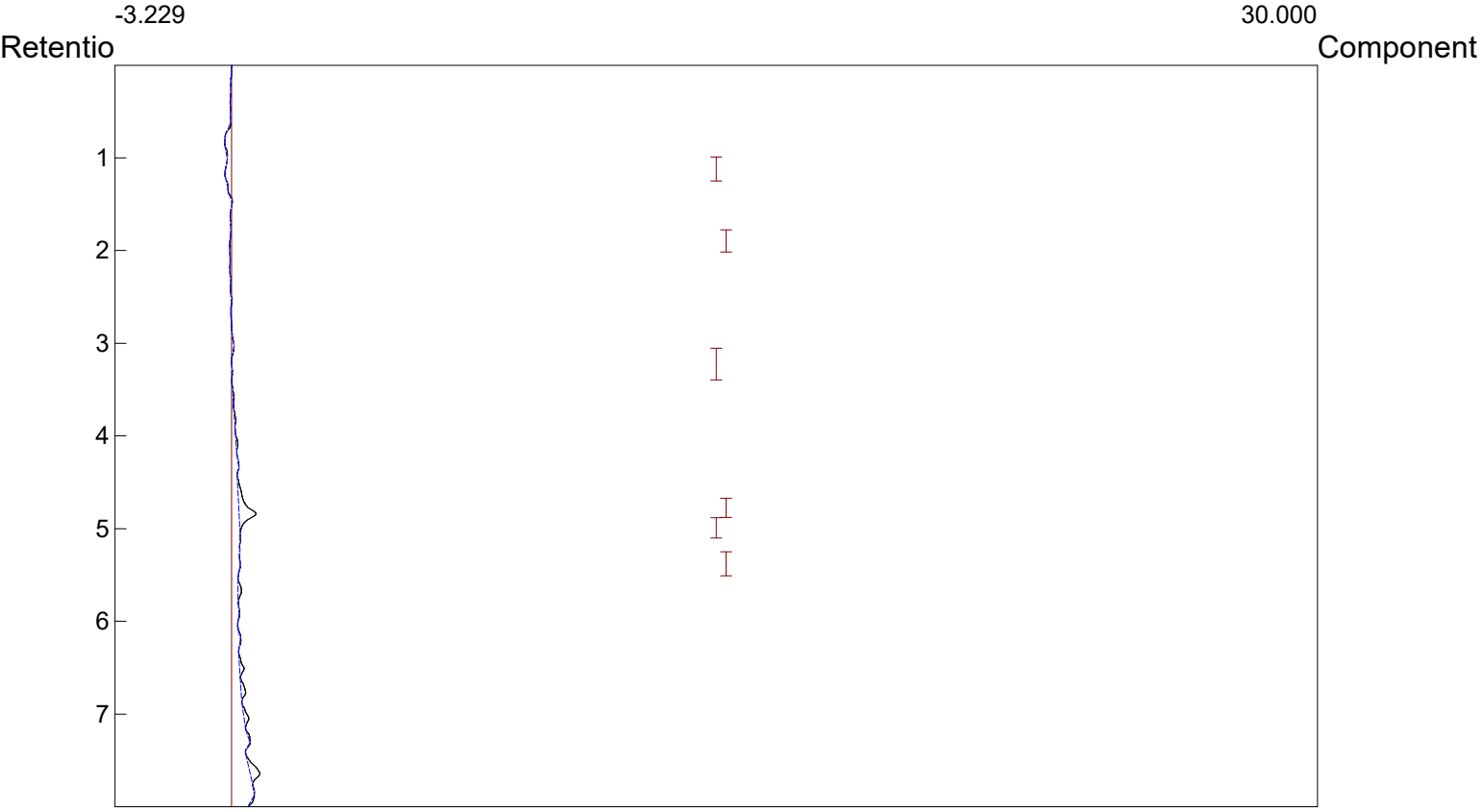


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 17:02:58
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-78 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

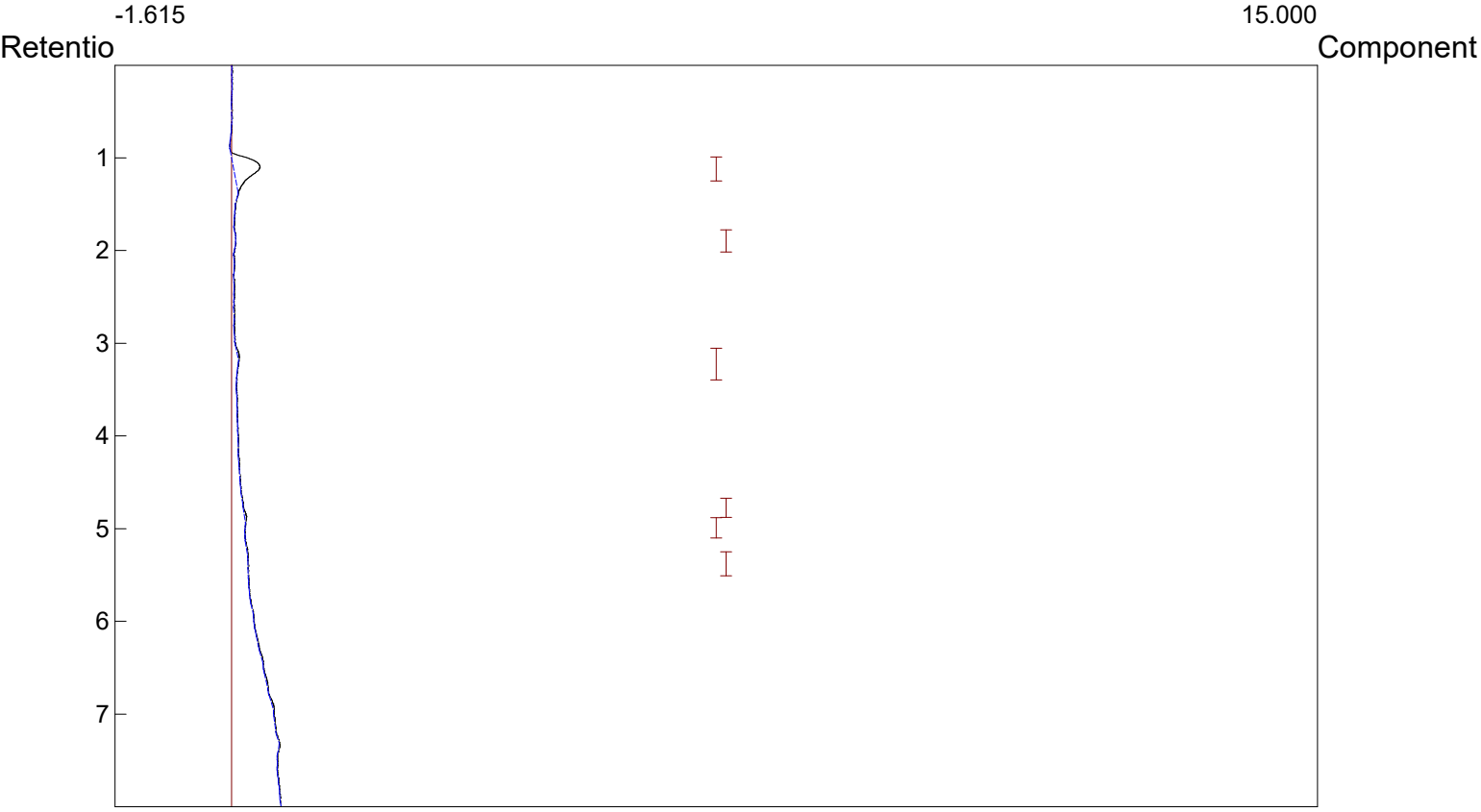


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 16:25:53
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-79 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

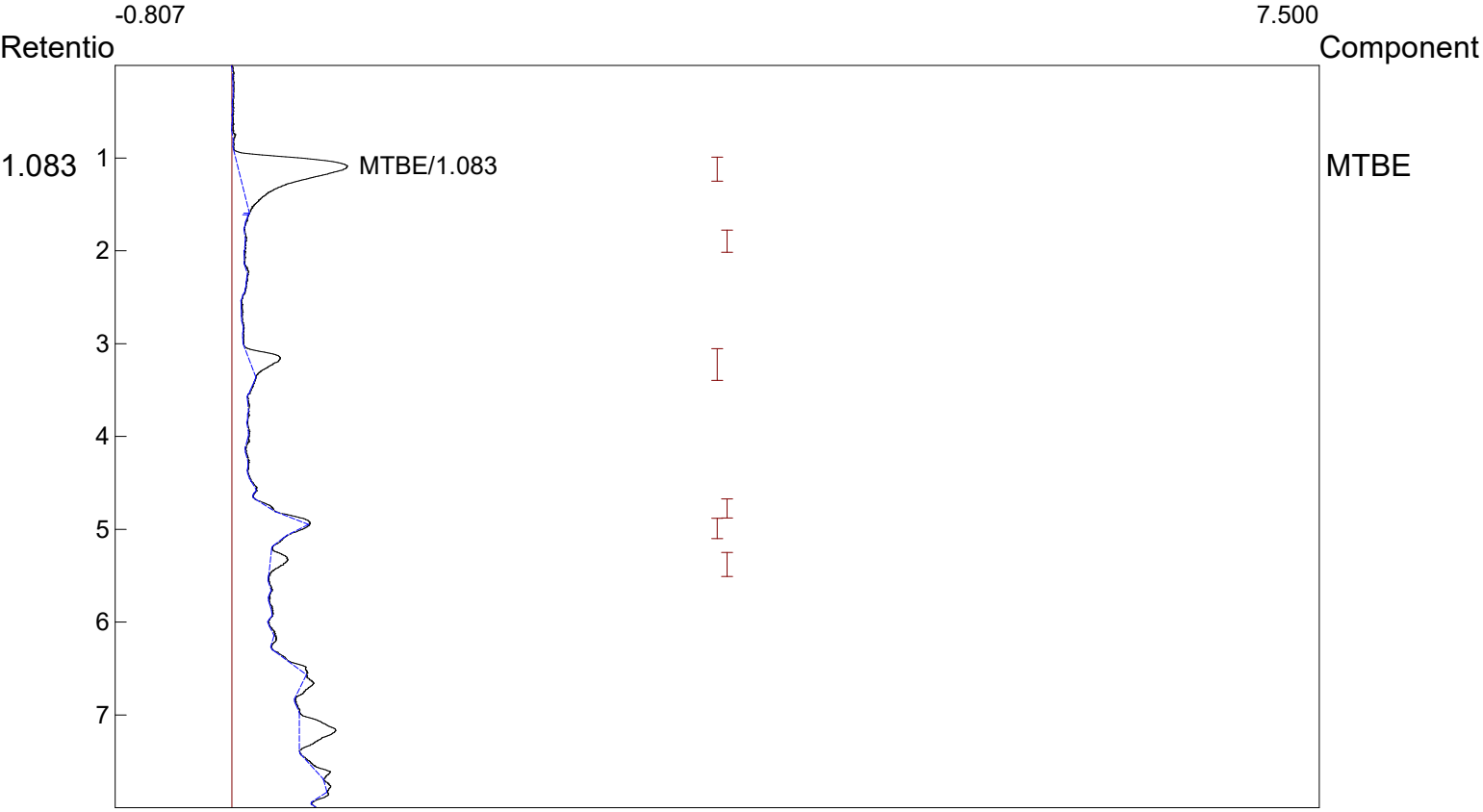


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 16:53:24
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-80 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

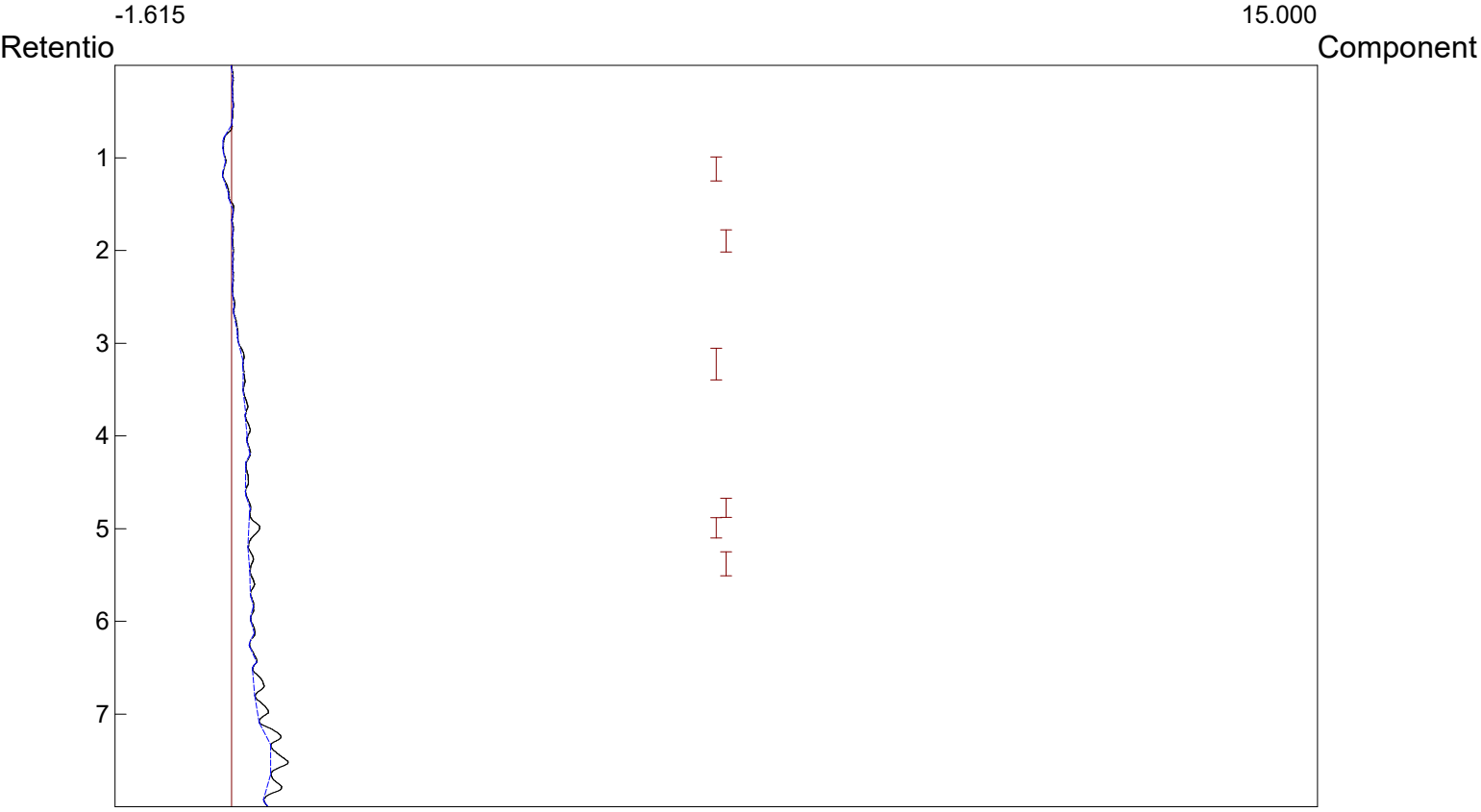


Component	Retention	Area	External	Units
MTBE	1.083	13.0034	97.6701	ppb
		13.0034	97.6701	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 17:14:02
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-81 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

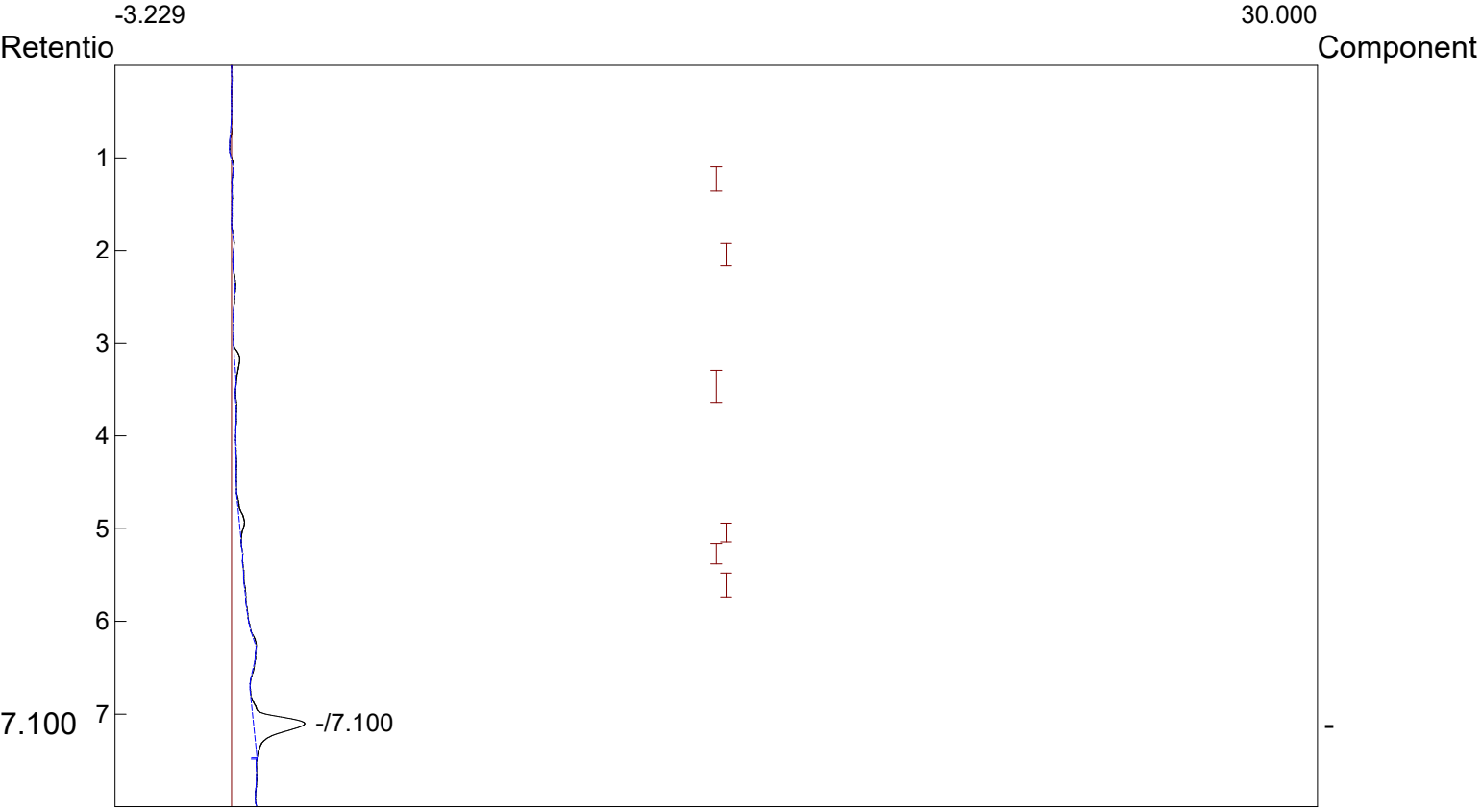


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/19/2021 17:43:10
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-82 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

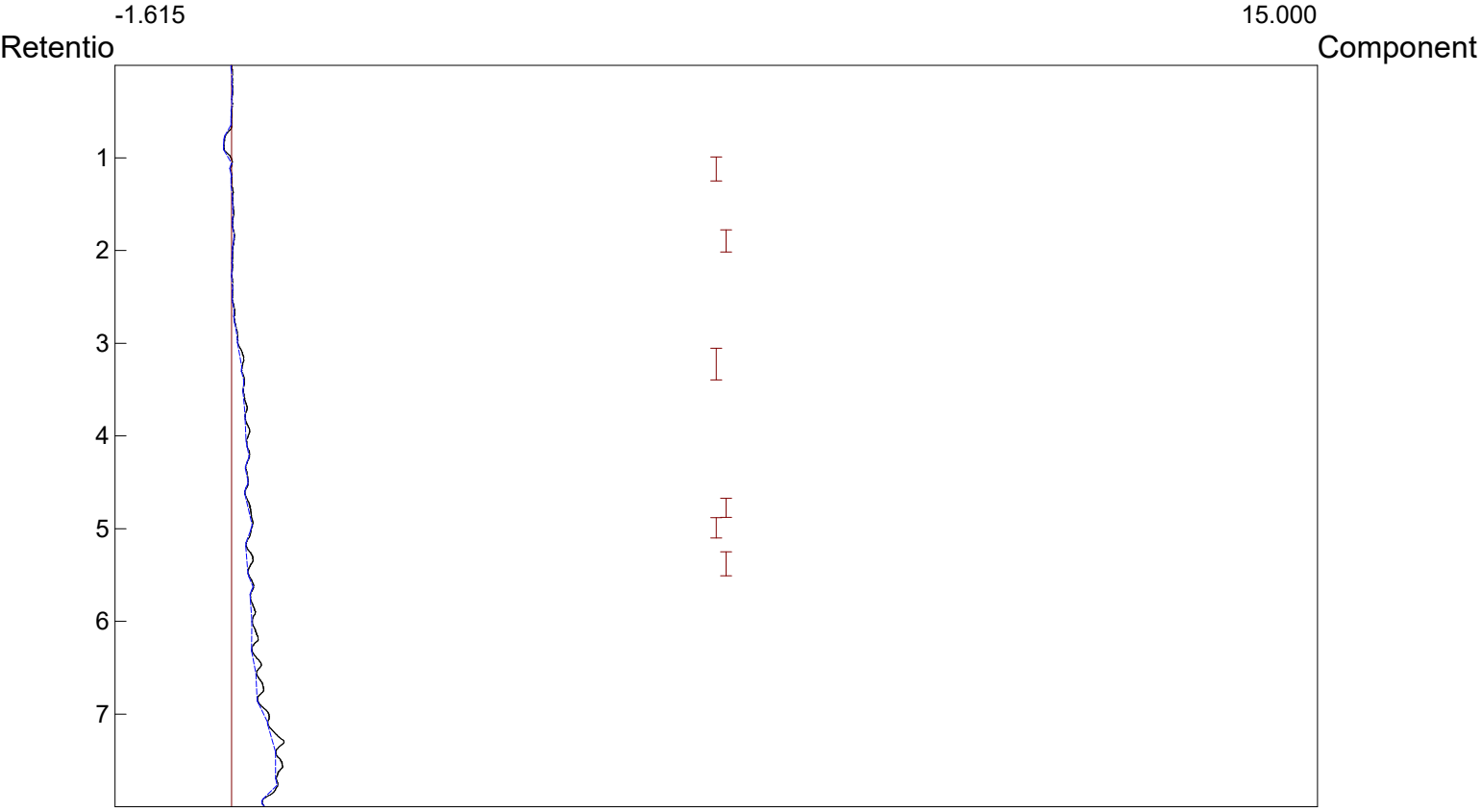


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/19/21
Analysis date: 05/19/2021 17:24:59
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-83 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

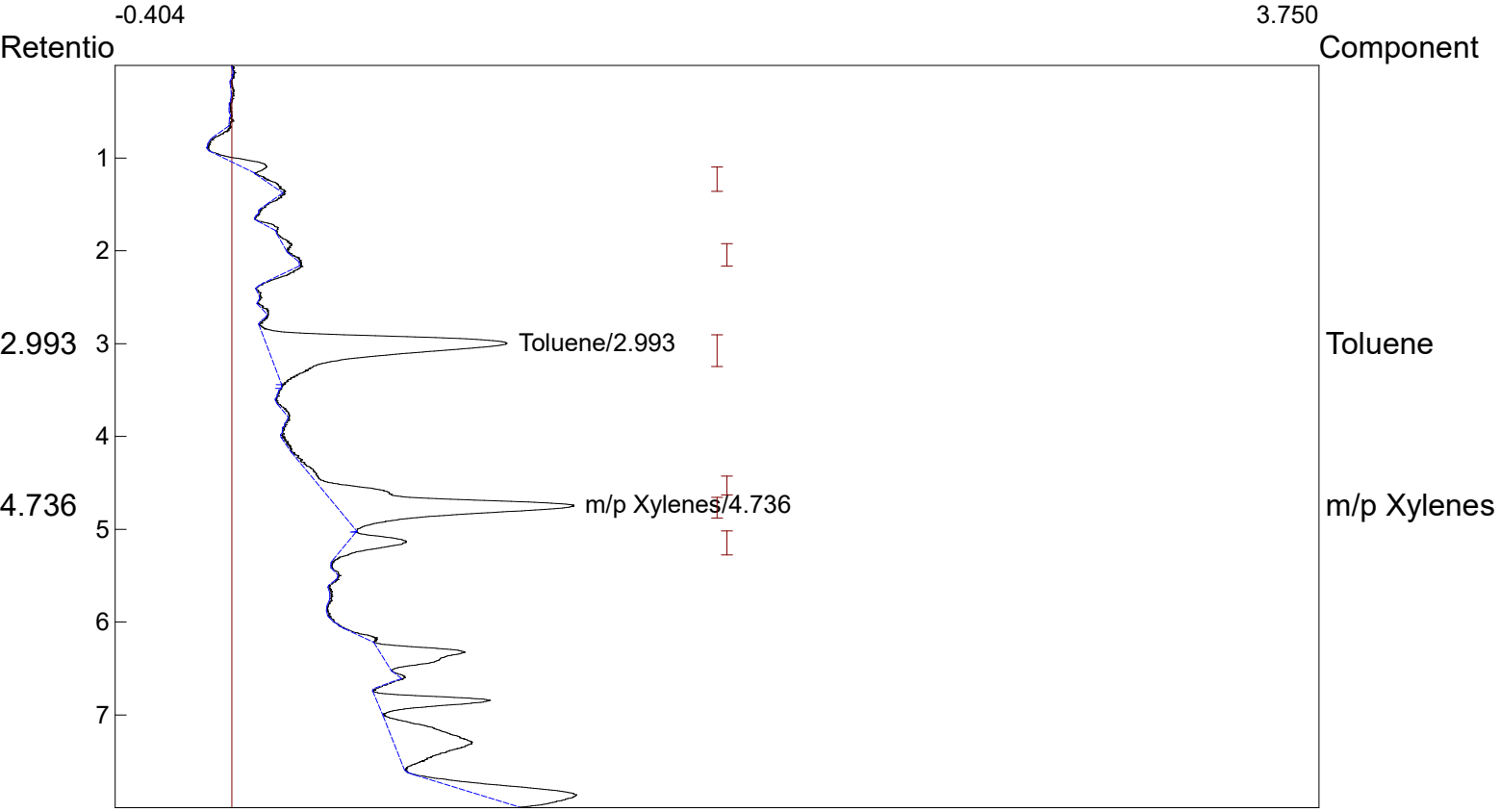


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/18/21
Analysis date: 05/19/2021 17:52:45
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-84 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

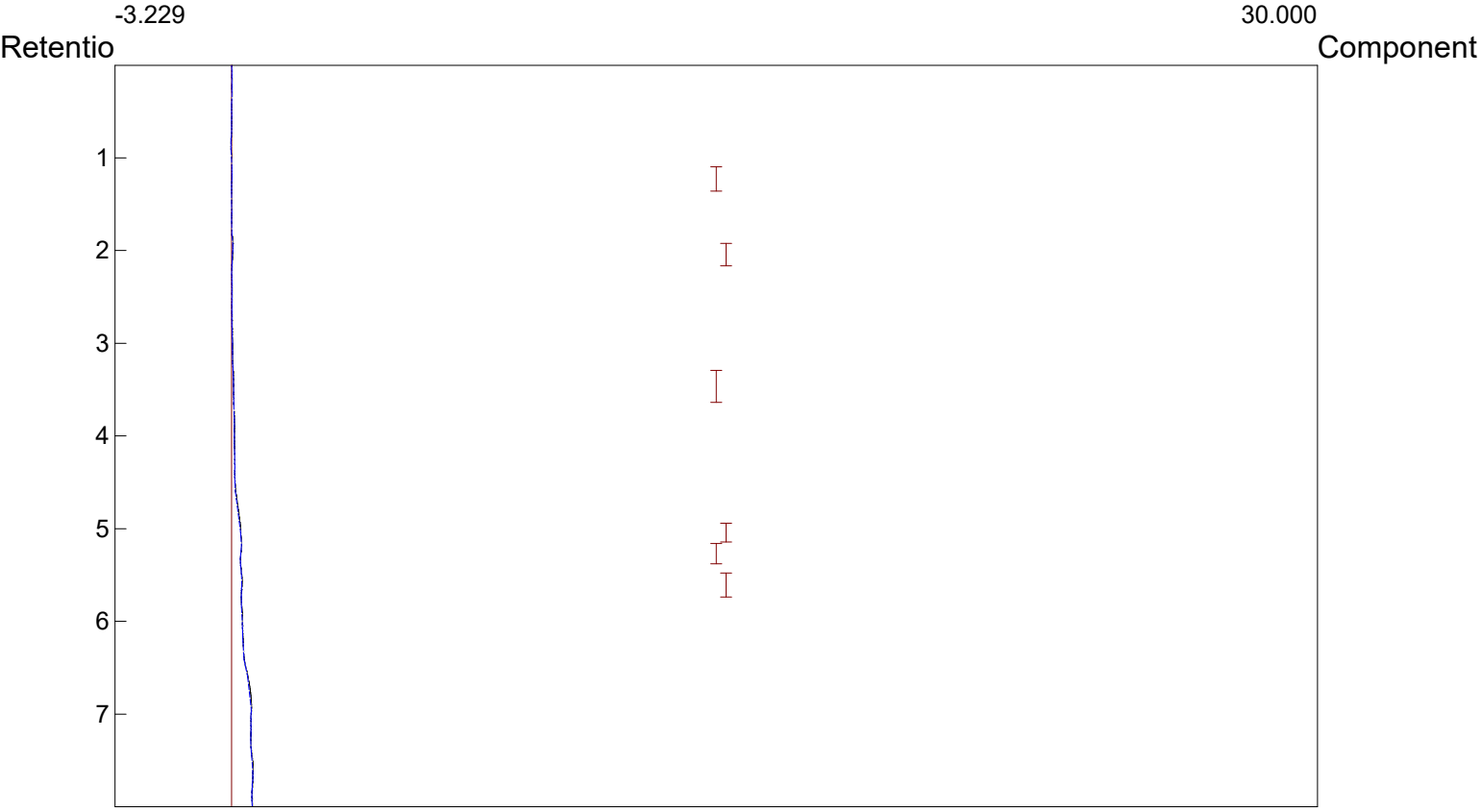


Component	Retention	Area	External	Units
Toluene	2.993	11.4156	23.3965	ppb
m/p Xylenes	4.736	10.3544	11.5779	ppb
		21.7700	34.9744	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 09:42:53
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-85 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

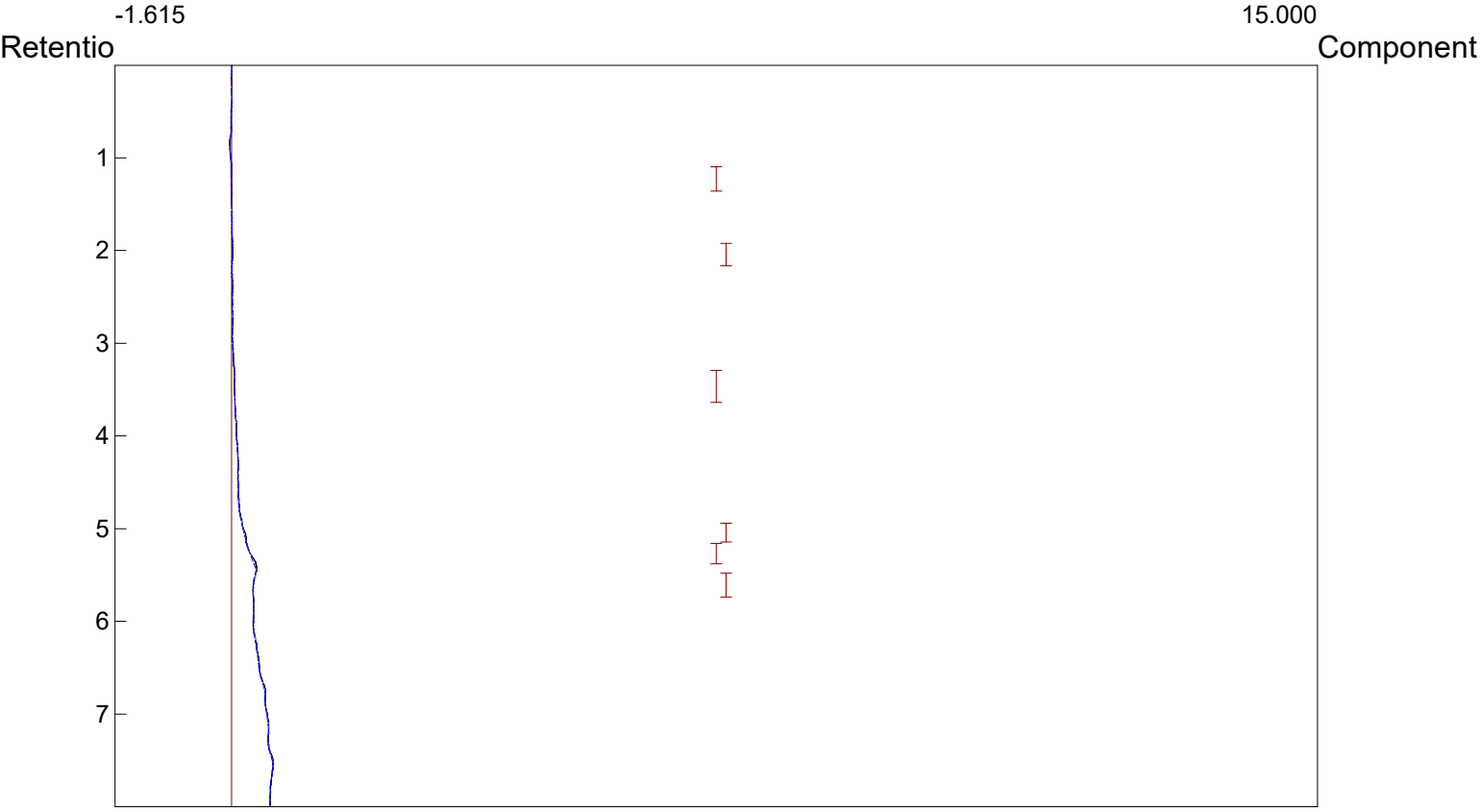


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 10:09:10
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-86 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

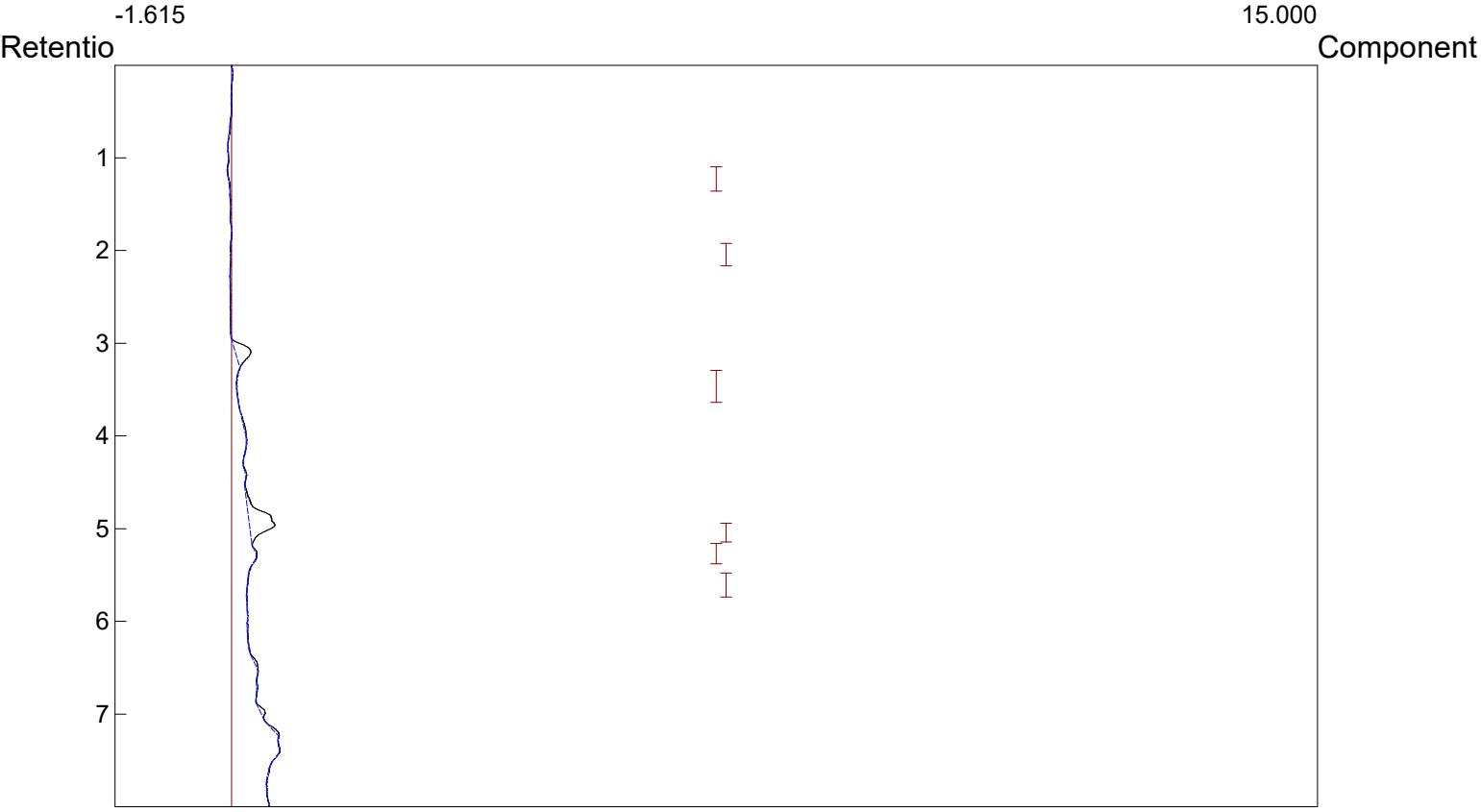


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 10:18:12
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-87 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

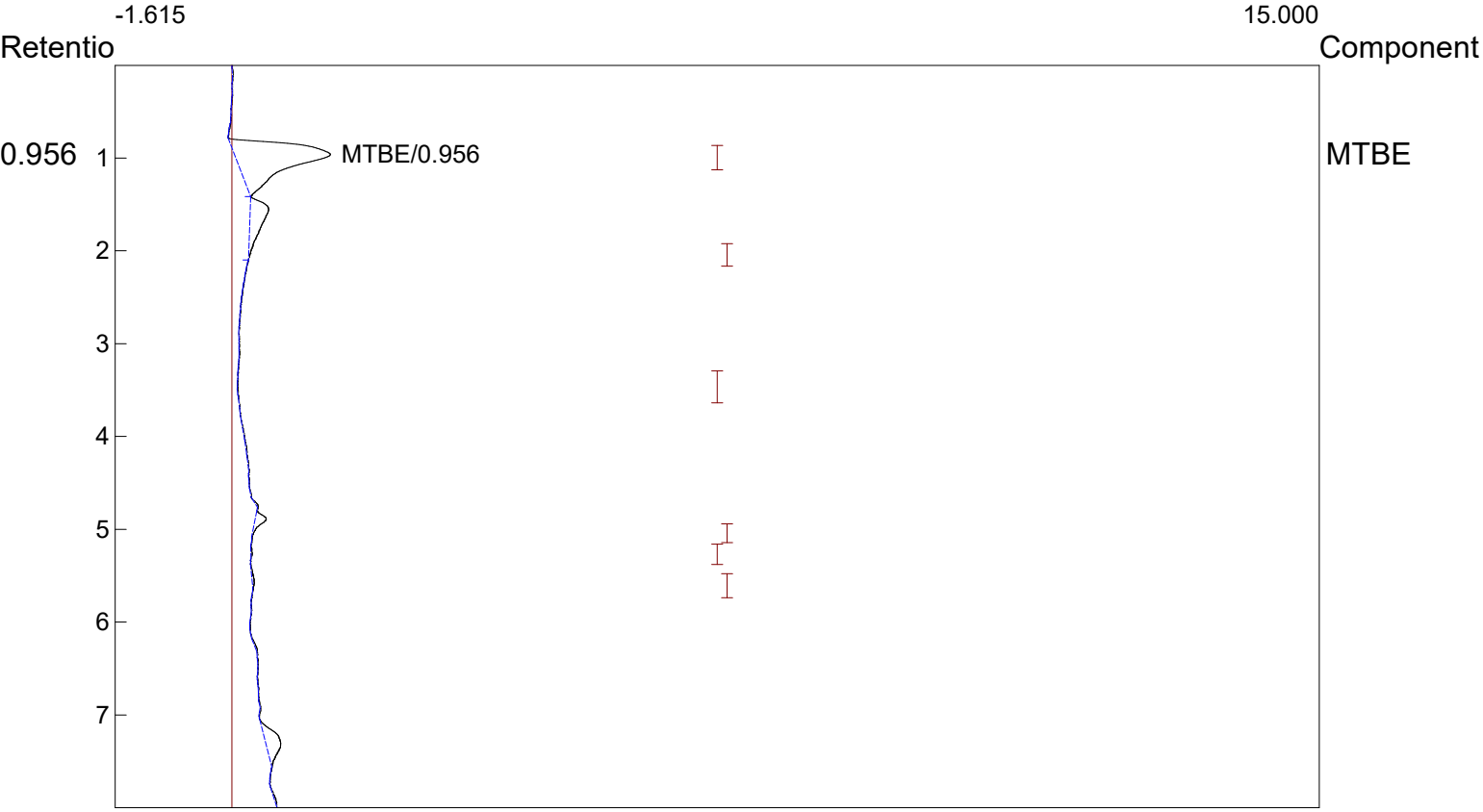


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 10:28:10
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-88 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

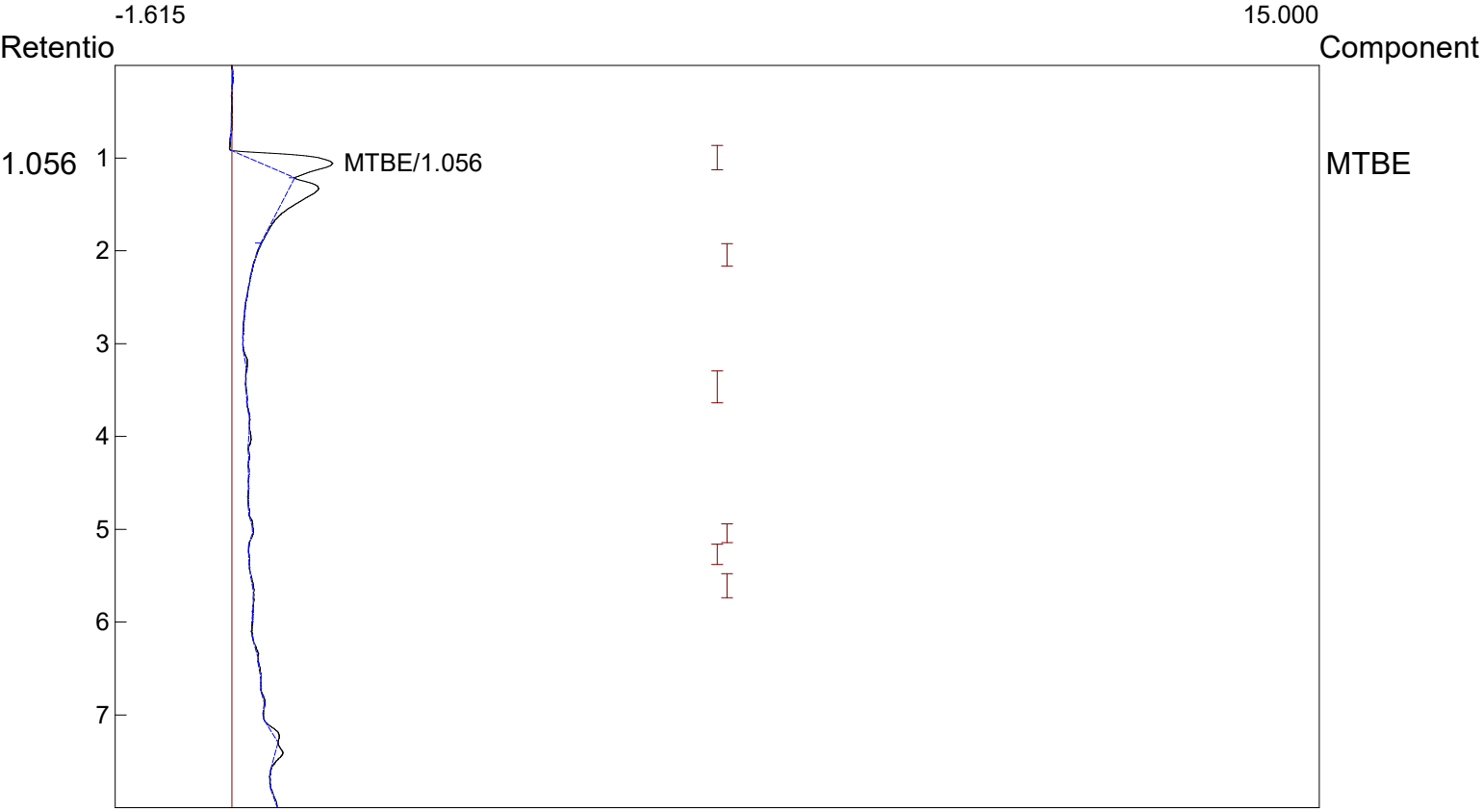


Component	Retention	Area	External	Units
MTBE	0.956	23.8000	178.7646	ppb
		23.8000	178.7646	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 10:39:09
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-89 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

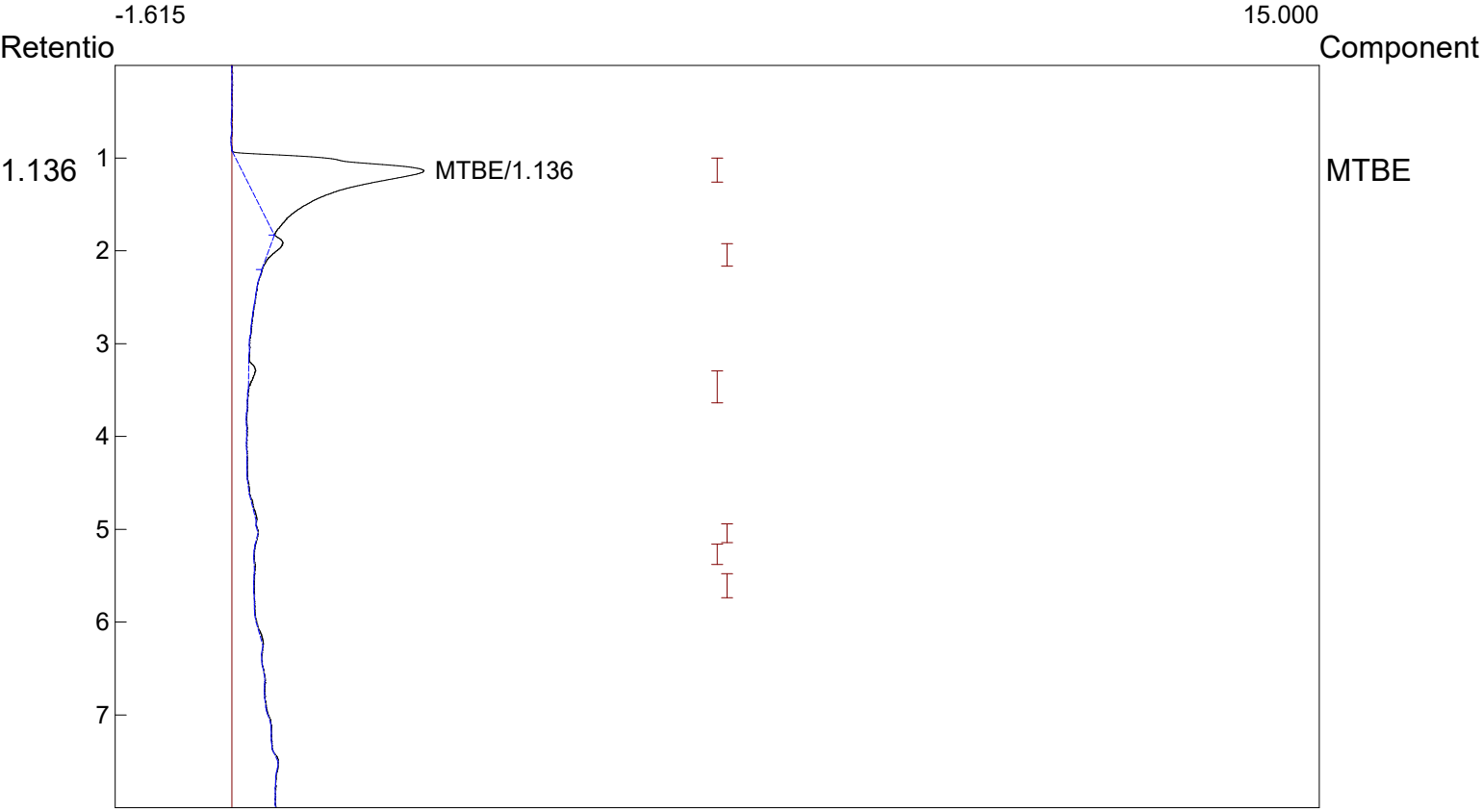


Component	Retention	Area	External	Units
MTBE	1.056	11.0358	82.8912	ppb
		11.0358	82.8912	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 11:09:39
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-90 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

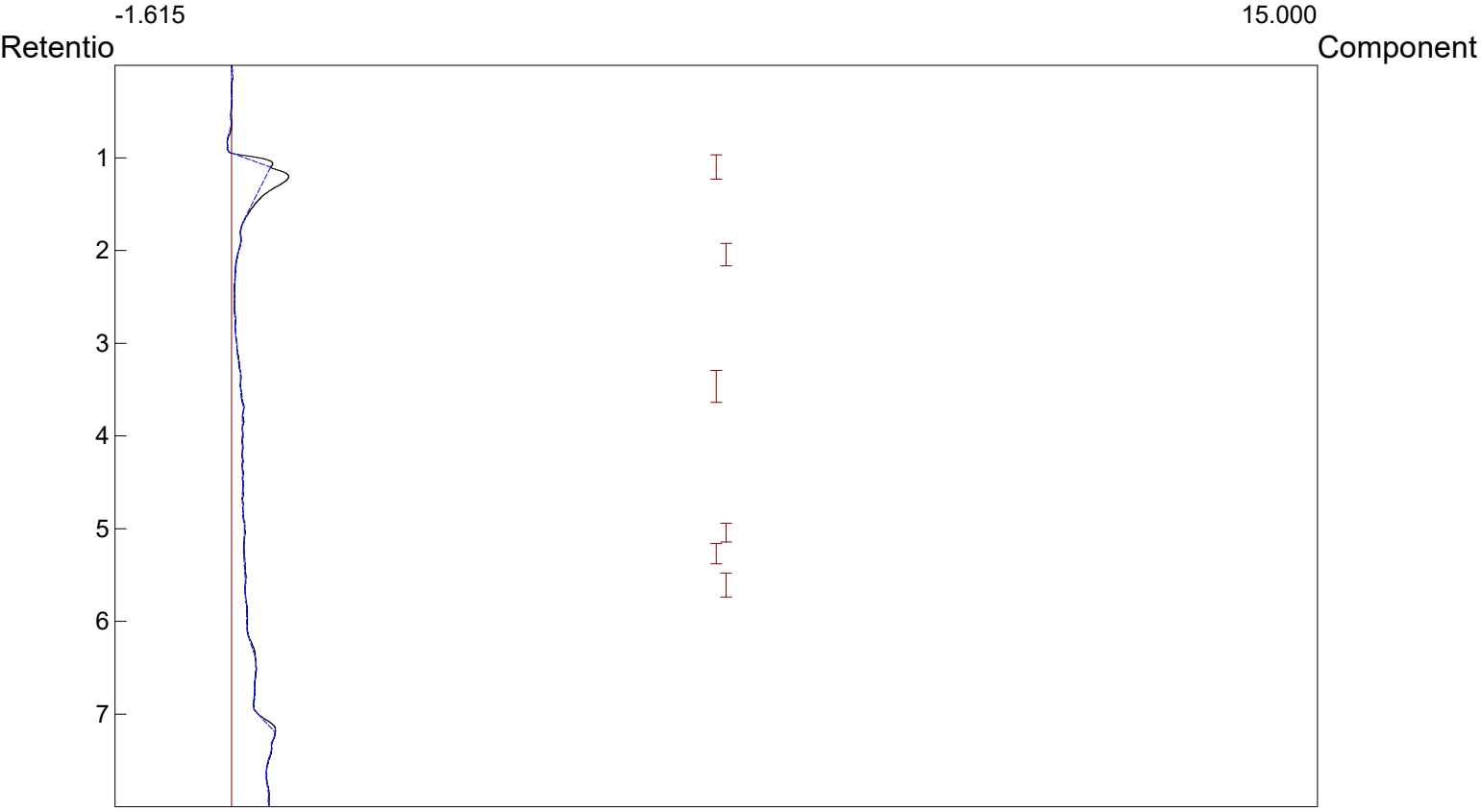


Component	Retention	Area	External	Units
MTBE	1.136	56.1254	421.5644	ppb
		56.1254	421.5644	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 11:21:24
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-91 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

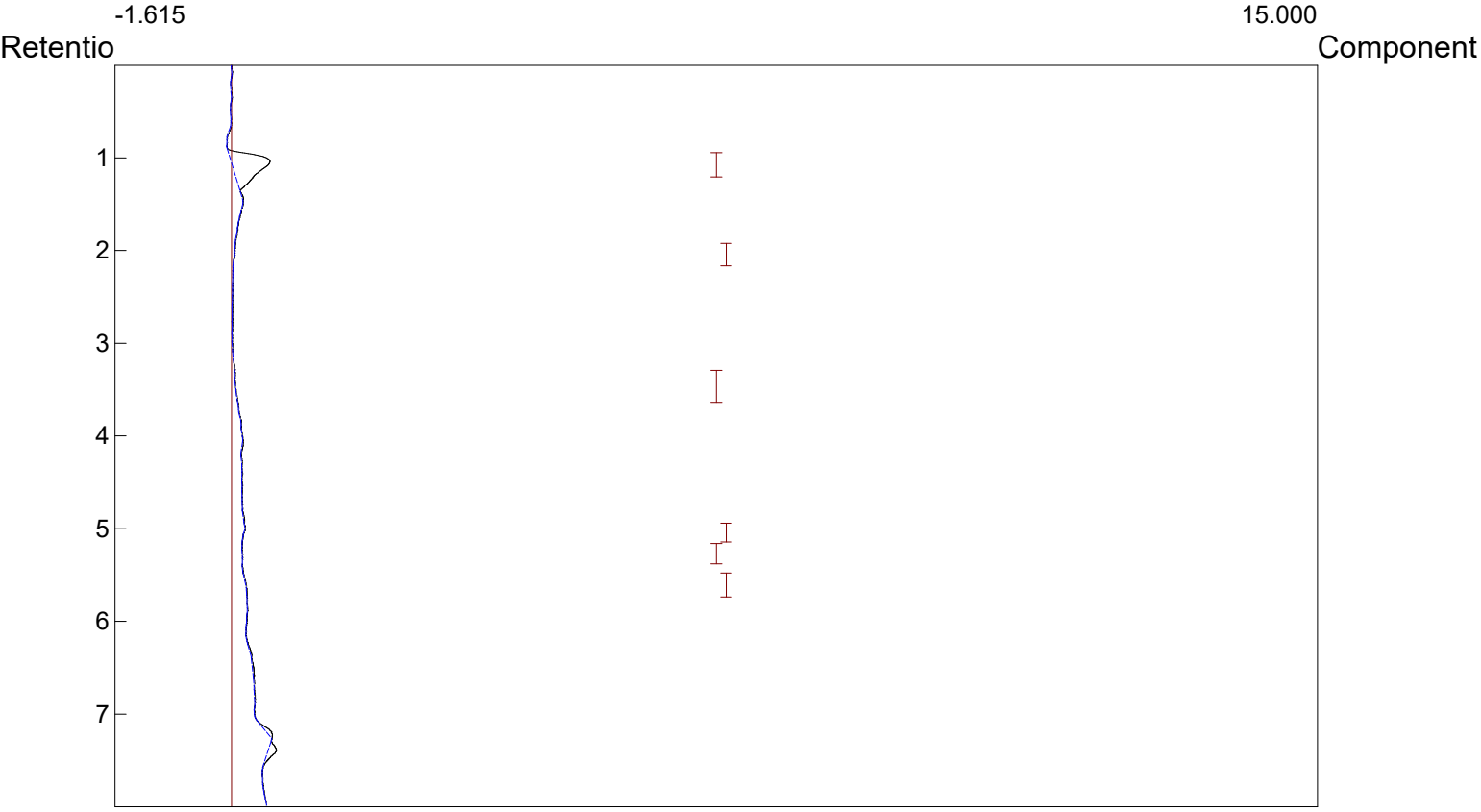


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 11:32:09
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-92 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

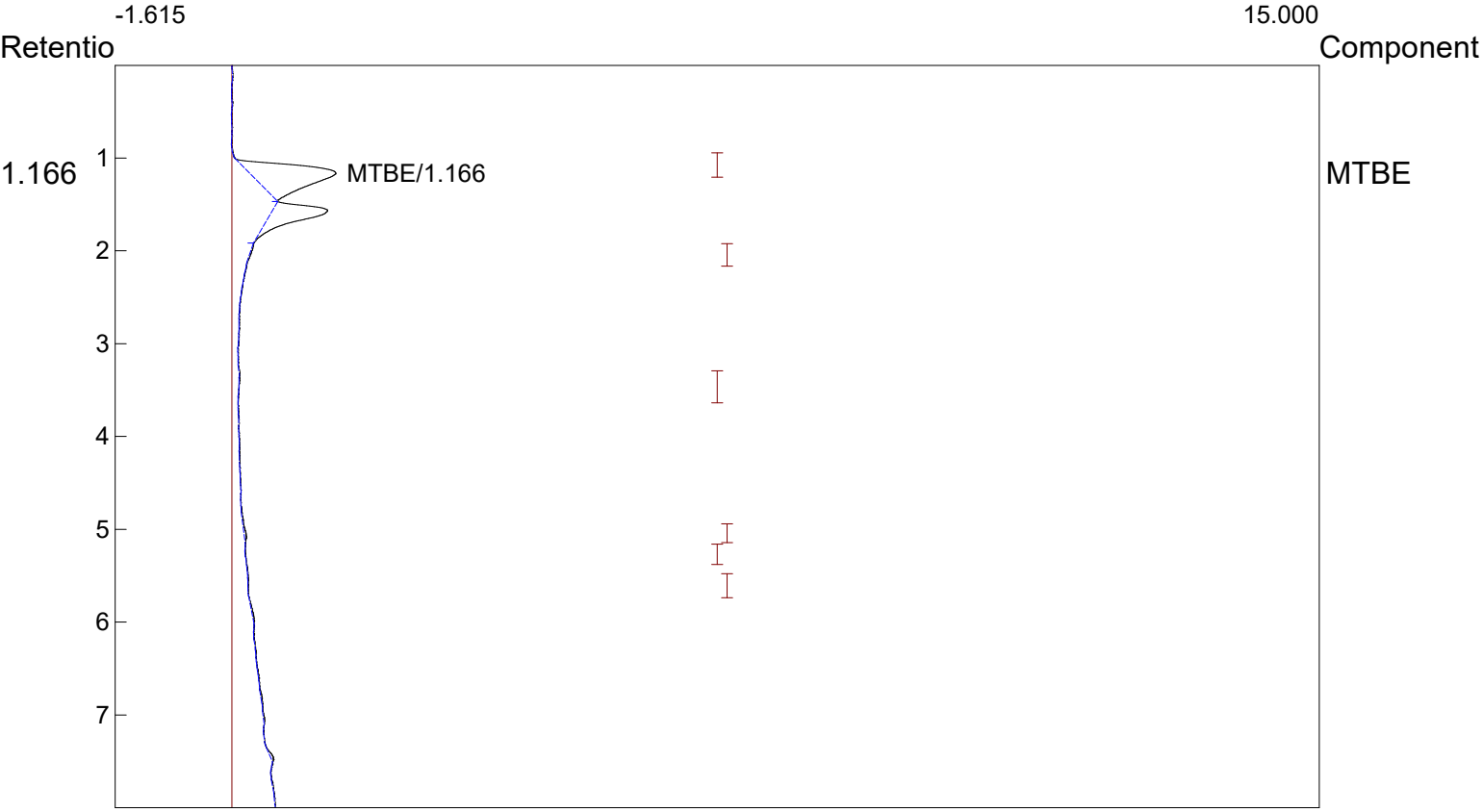


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 12:58:05
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-94 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

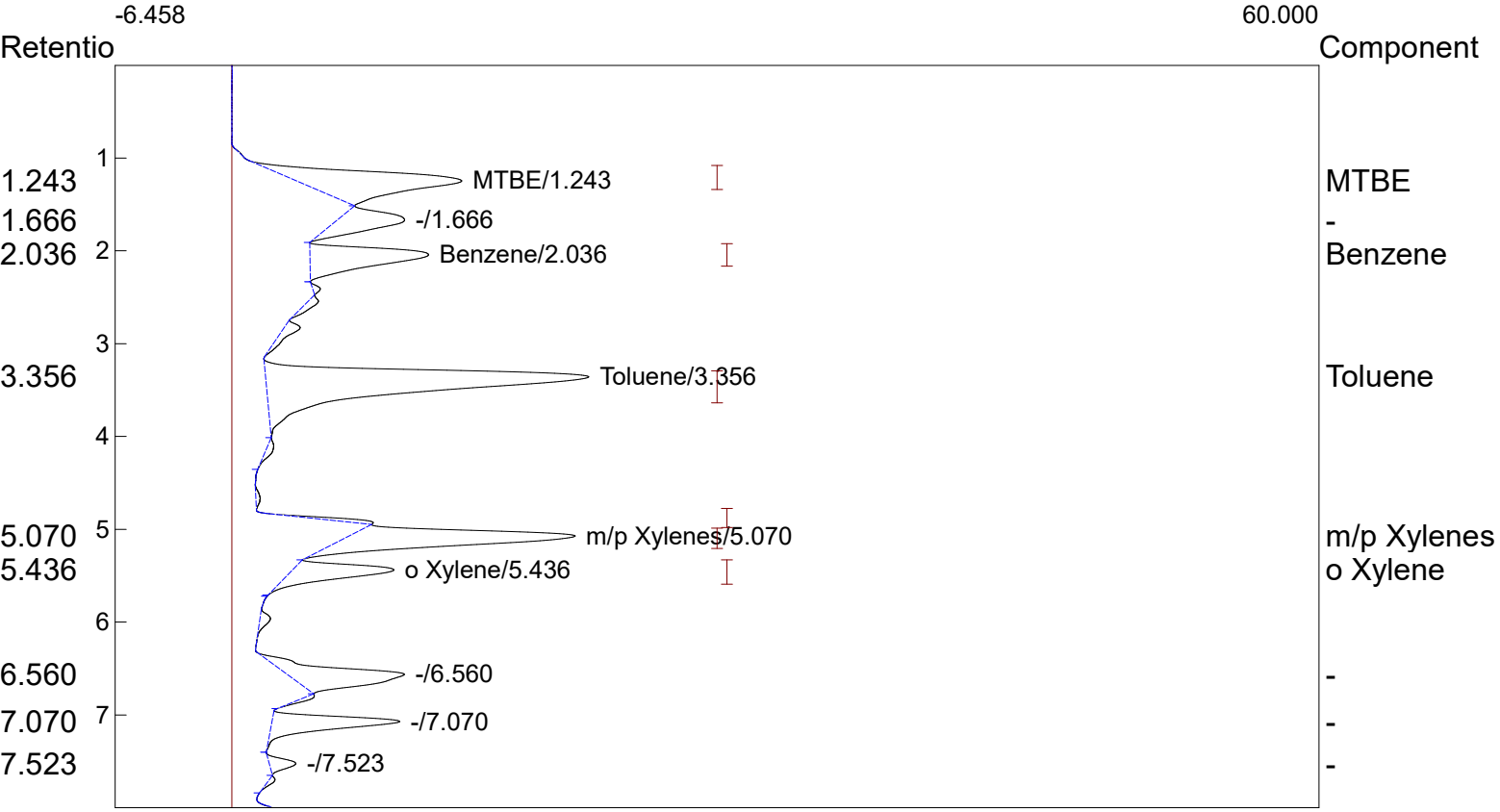


Component	Retention	Area	External	Units
MTBE	1.166	17.3076	129.9994	ppb
		17.3076	129.9994	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 13:27:31
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-95 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

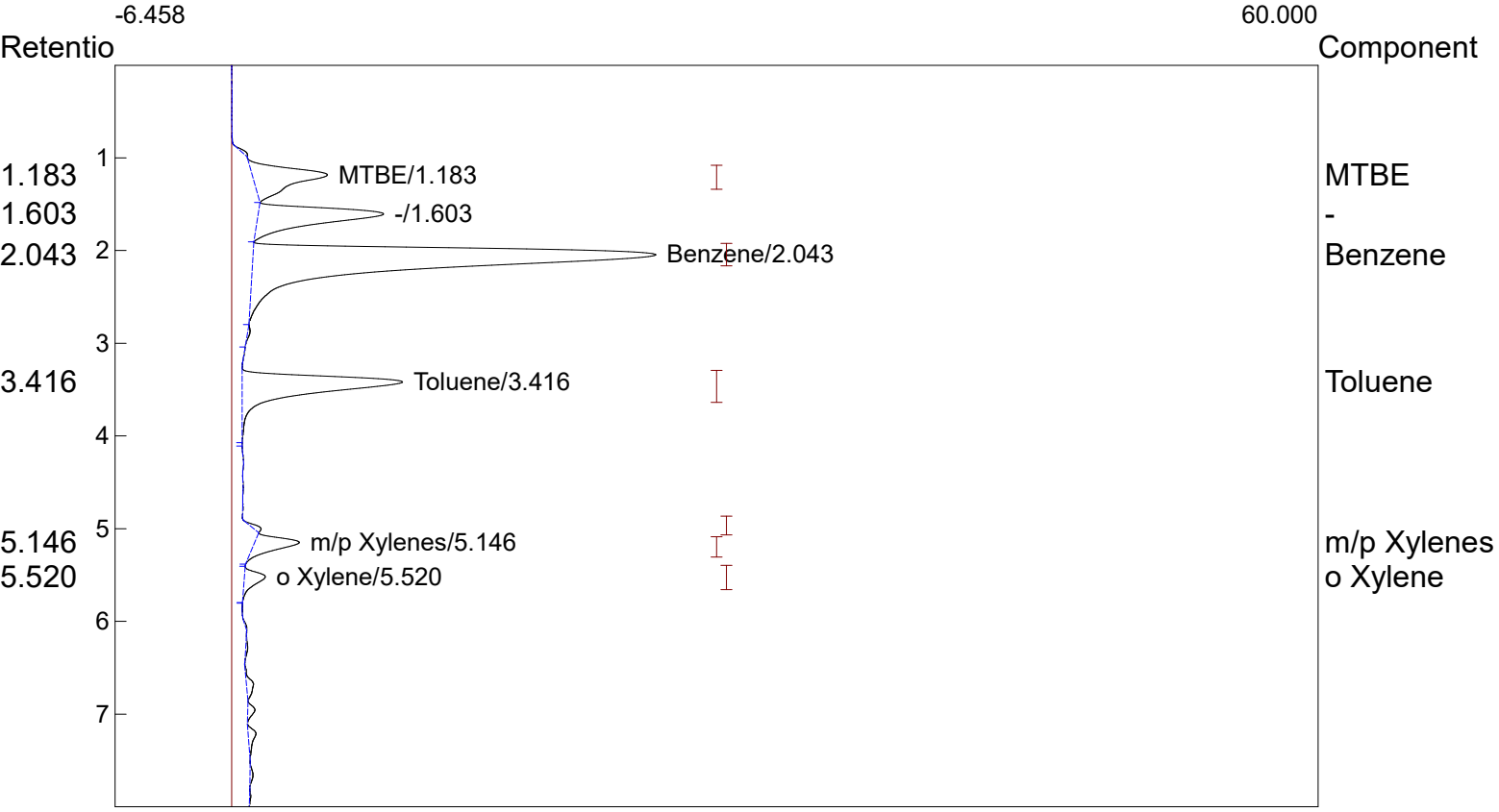


Component	Retention	Area	External	Units
MTBE	1.243	127.0860	954.5577	ppb
Benzene	2.036	81.9720	140.8079	ppb
Toluene	3.356	275.9564	565.5783	ppb
m/p Xylenes	5.070	132.7562	148.4434	ppb
o Xylene	5.436	55.0016	280.1145	ppb
		672.7722	2089.5018	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 13:57:41
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-96 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

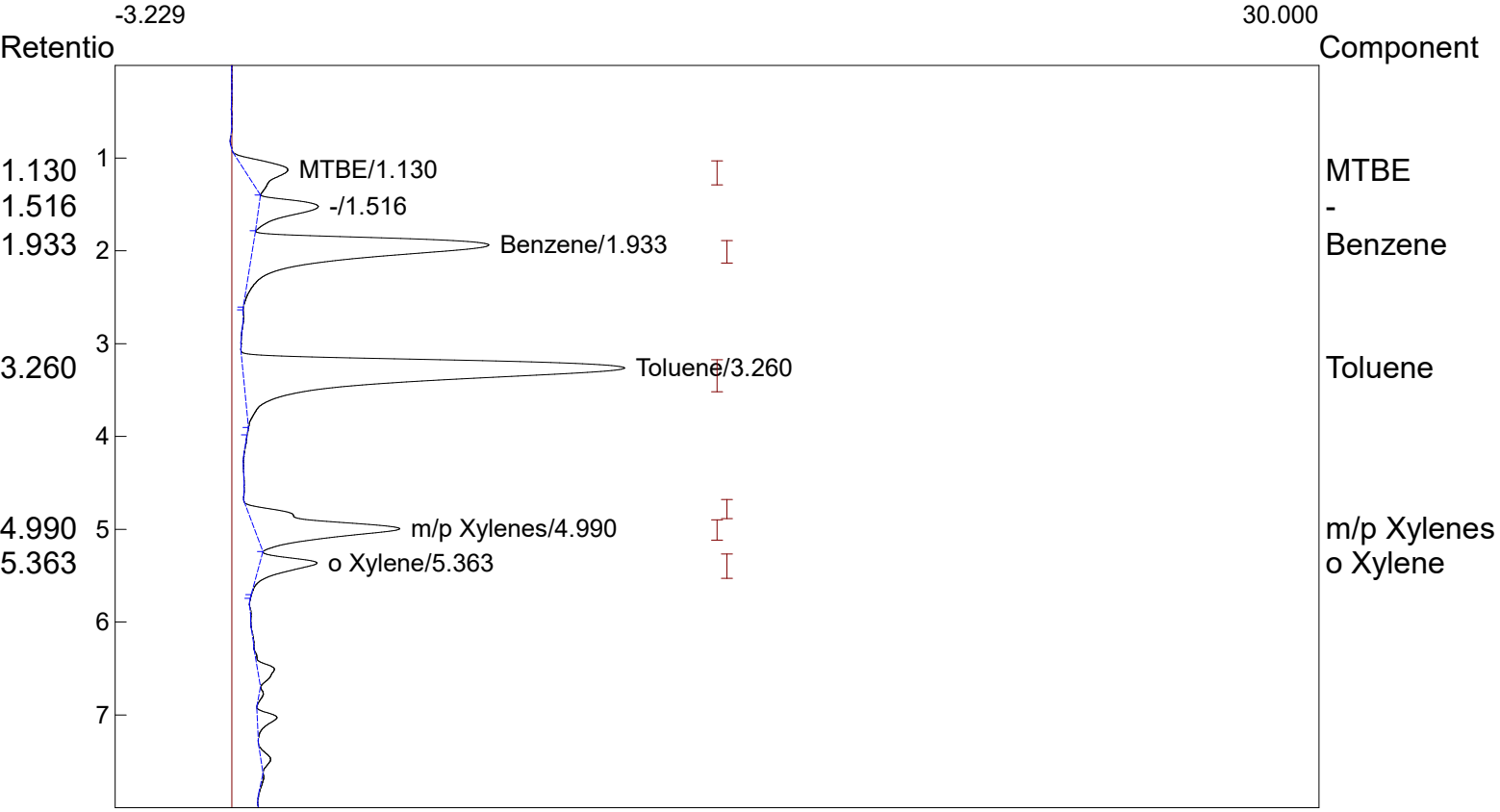


Component	Retention	Area	External	Units
MTBE	1.183	50.4920	379.2513	ppb
Benzene	2.043	313.2616	538.1069	ppb
Toluene	3.416	103.2450	211.6027	ppb
m/p Xylenes	5.146	20.9484	23.4238	ppb
o Xylene	5.520	10.4572	53.2569	ppb
		498.4042	1205.6415	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 14:17:55
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-97 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

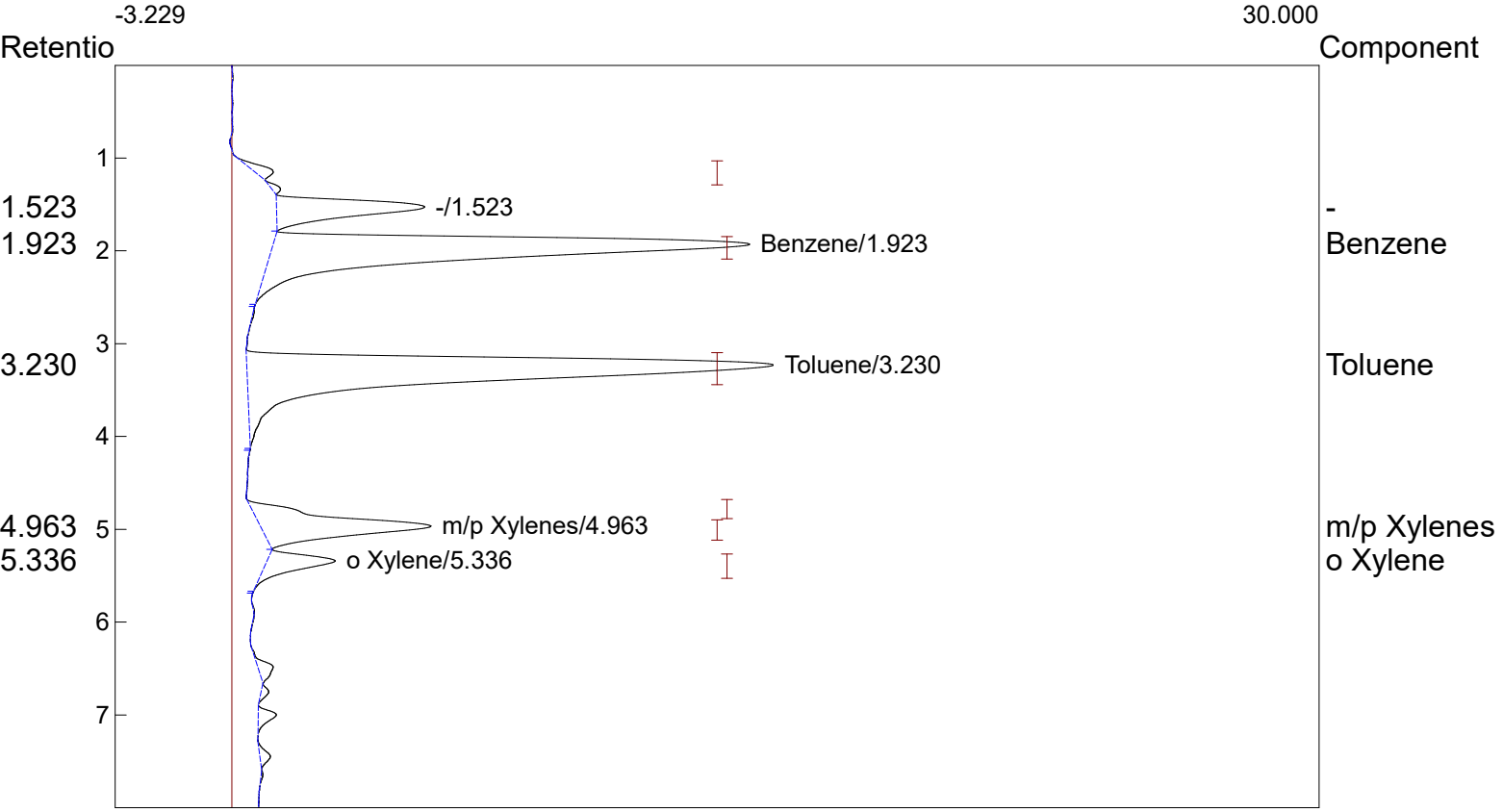


Component	Retention	Area	External	Units
MTBE	1.130	15.9704	119.9555	ppb
Benzene	1.933	91.5334	157.2320	ppb
Toluene	3.260	155.7780	319.2702	ppb
m/p Xylenes	4.990	51.4944	57.5793	ppb
o Xylene	5.363	15.1168	76.9875	ppb
		329.8930	731.0245	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 14:32:54
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-98 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

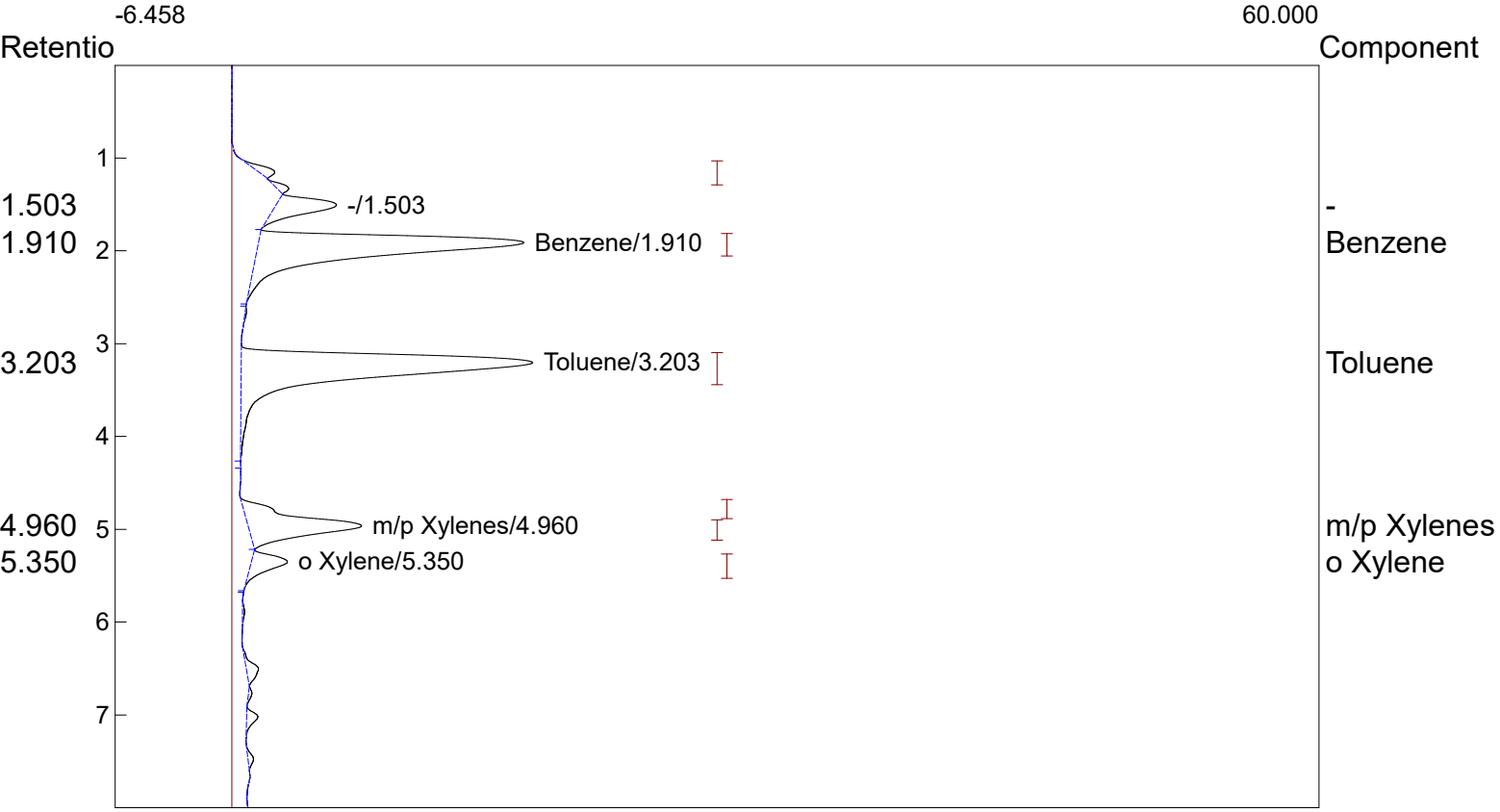


Component	Retention	Area	External	Units
Benzene	1.923	193.1950	331.8618	ppb
Toluene	3.230	235.5712	482.8080	ppb
m/p Xylenes	4.963	62.7988	70.2195	ppb
o Xylene	5.336	19.3638	98.6168	ppb
		510.9288	983.5060	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 15:35:33
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-99 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

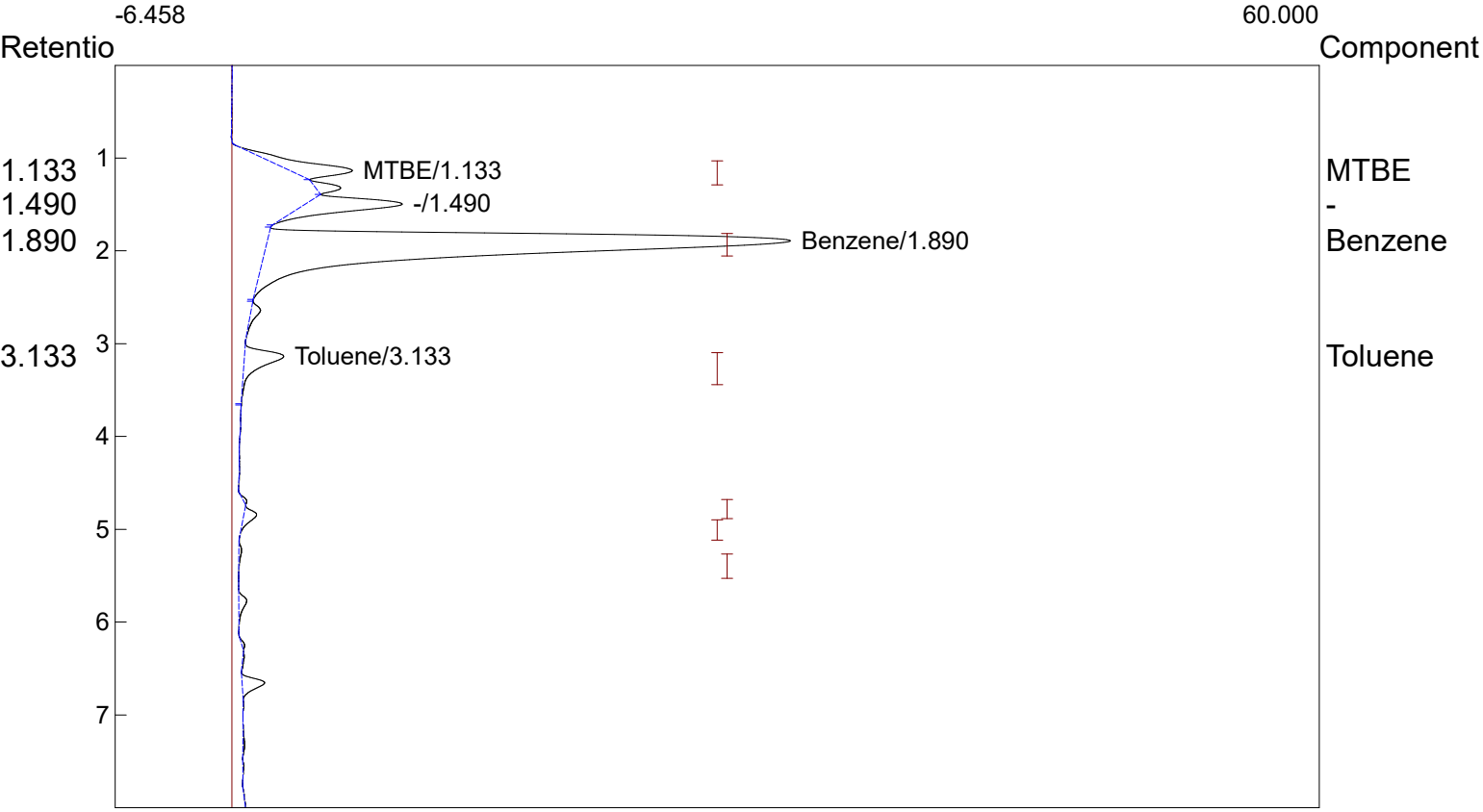


Component	Retention	Area	External	Units
Benzene	1.910	208.5672	358.2675	ppb
Toluene	3.203	259.0880	531.0062	ppb
m/p Xylenes	4.960	86.1252	96.3022	ppb
o Xylene	5.350	21.0248	107.0760	ppb
		574.8052	1092.6519	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 15:46:26
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-100 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

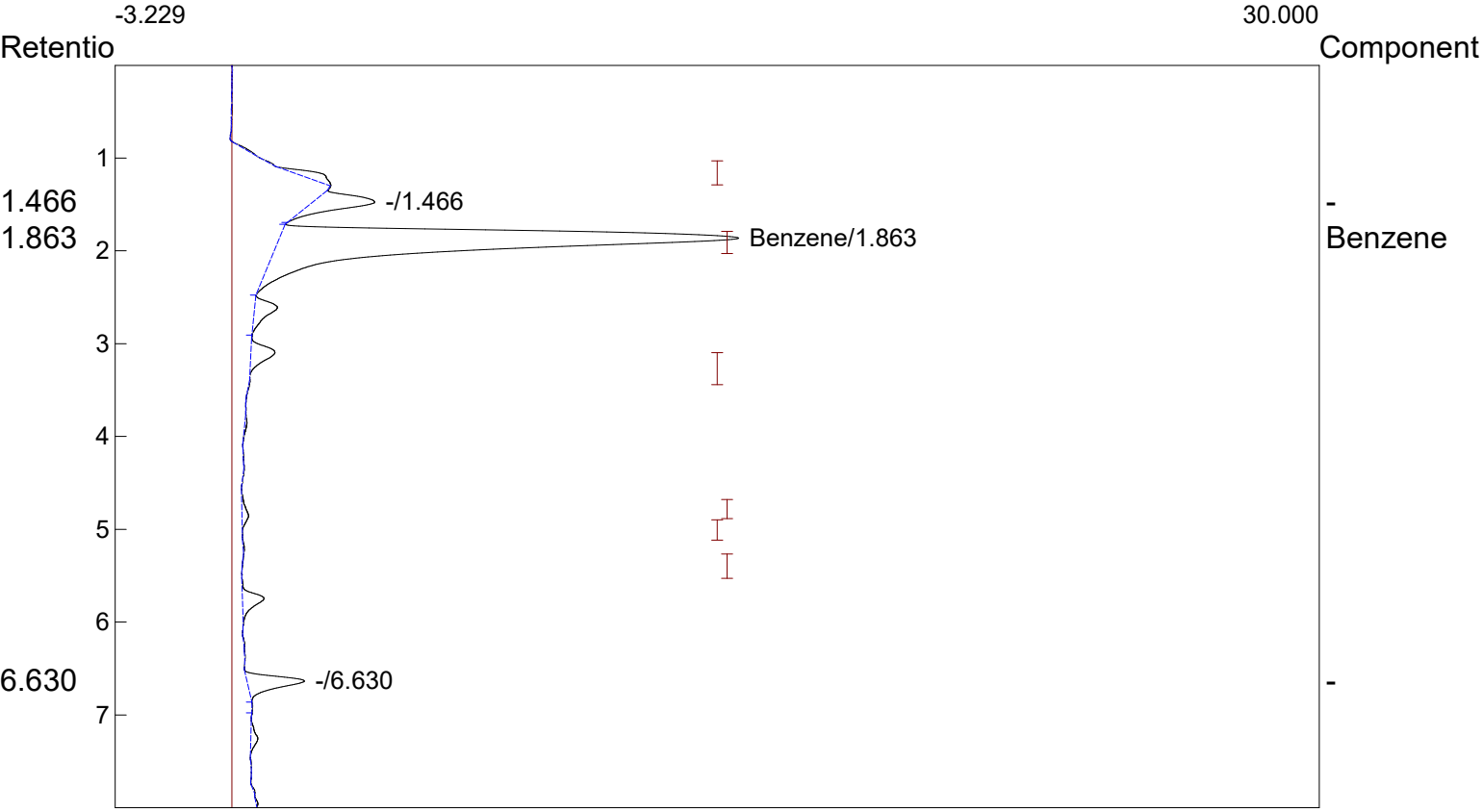


Component	Retention	Area	External	Units
MTBE	1.133	33.9604	255.0805	ppb
Benzene	1.890	418.0448	718.0988	ppb
Toluene	3.133	24.1484	49.4926	ppb
		476.1536	1022.6719	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 15:56:53
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-101 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

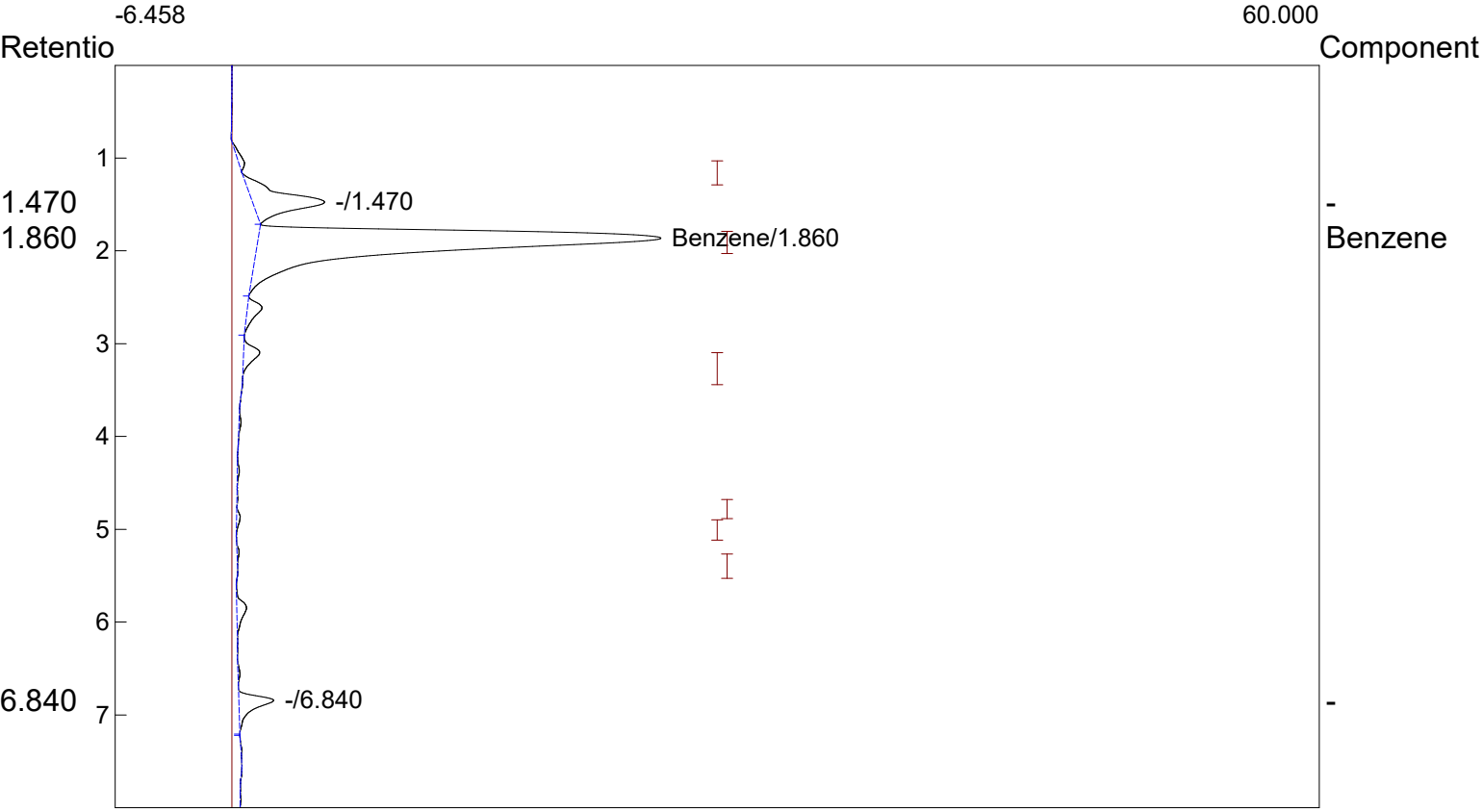


Component	Retention	Area	External	Units
Benzene	1.863	171.2230	294.1193	ppb
		171.2230	294.1193	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 16:07:17
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-102 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

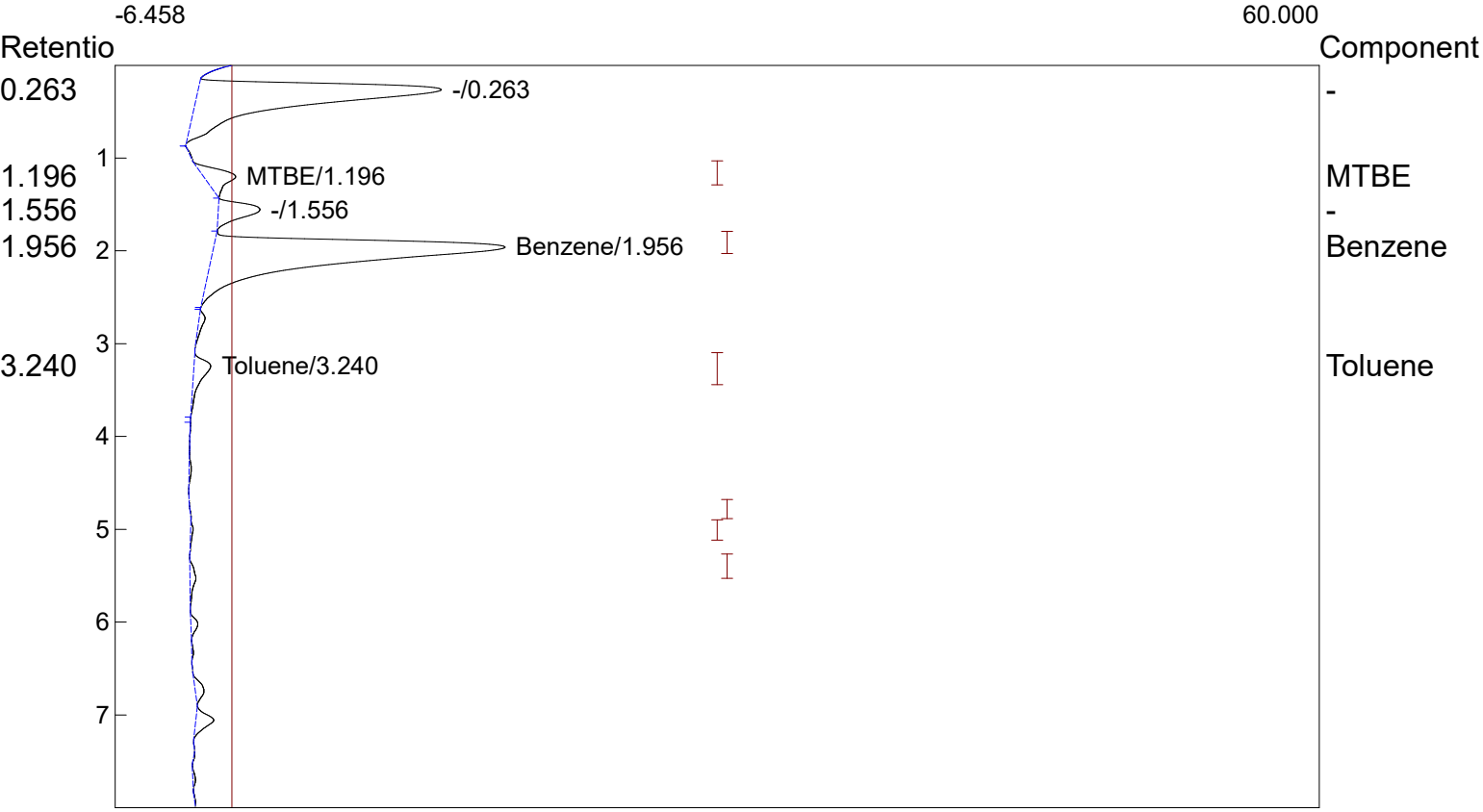


Component	Retention	Area	External	Units
Benzene	1.860	318.8692	547.7393	ppb
		318.8692	547.7393	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 16:24:42
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-103 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

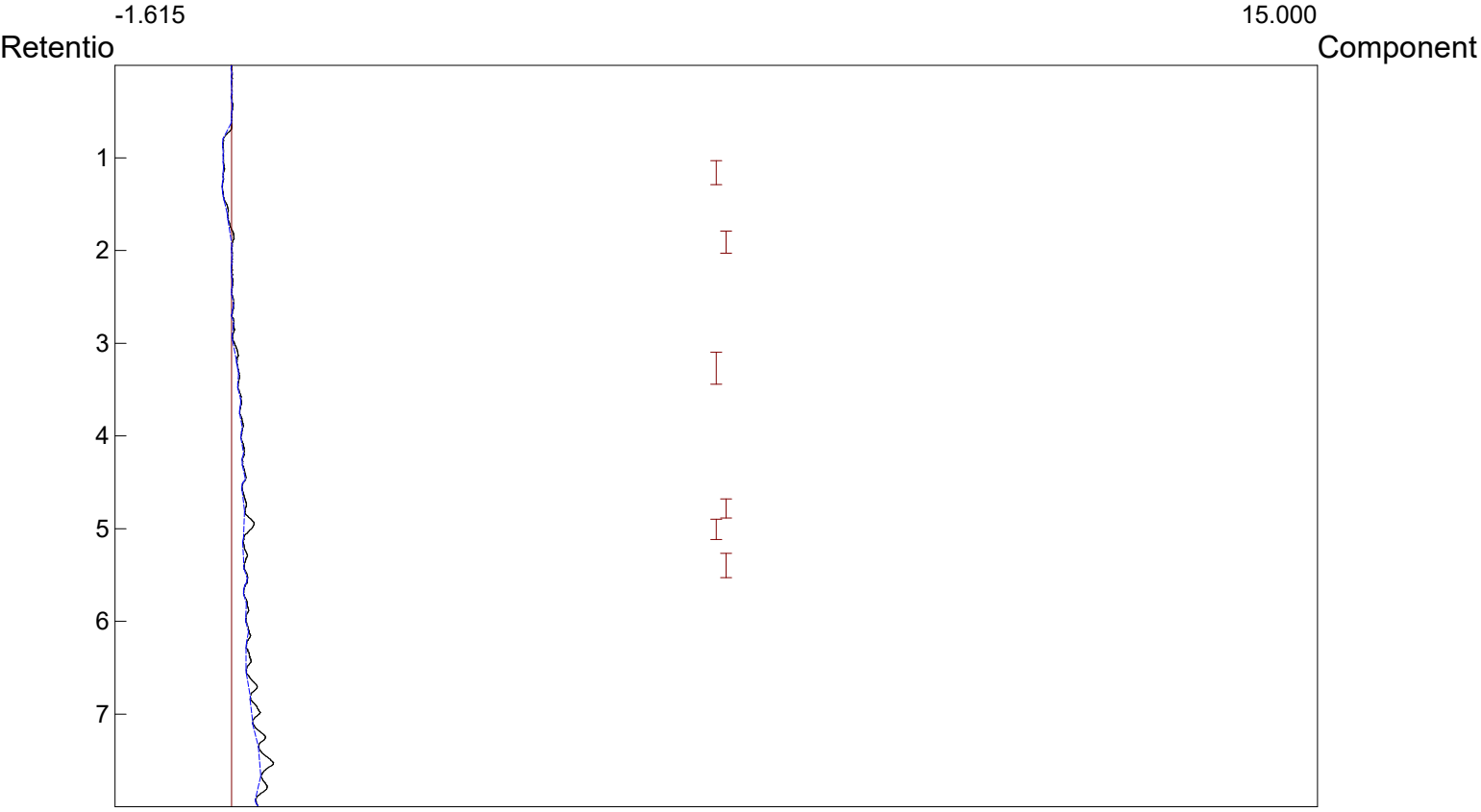


Component	Retention	Area	External	Units
MTBE	1.196	19.7476	148.3265	ppb
Benzene	1.956	254.9538	437.9483	ppb
Toluene	3.240	14.1778	29.0577	ppb
		288.8792	615.3325	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 16:53:51
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-105 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

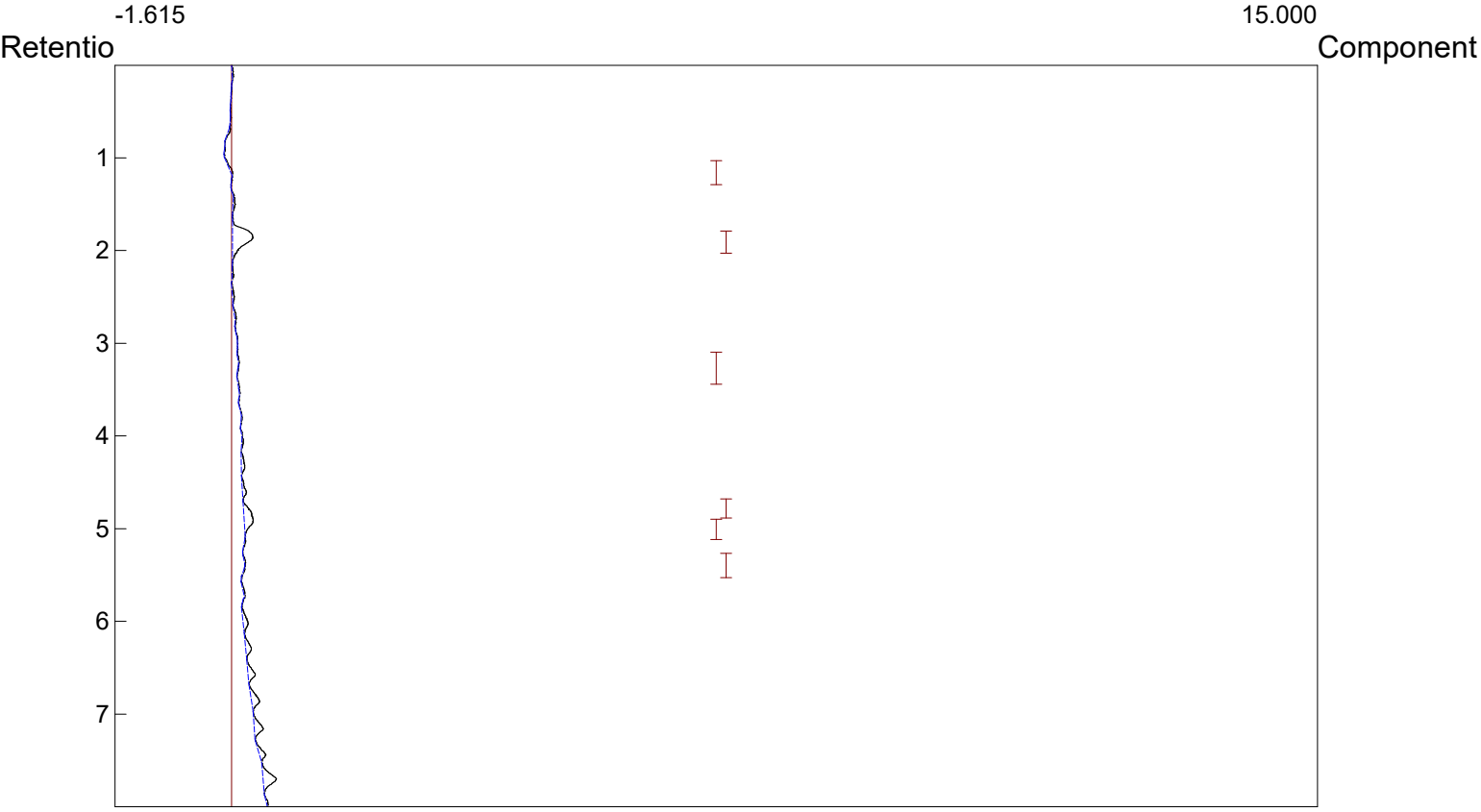


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/20/21
Analysis date: 05/20/2021 16:43:28
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-105 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

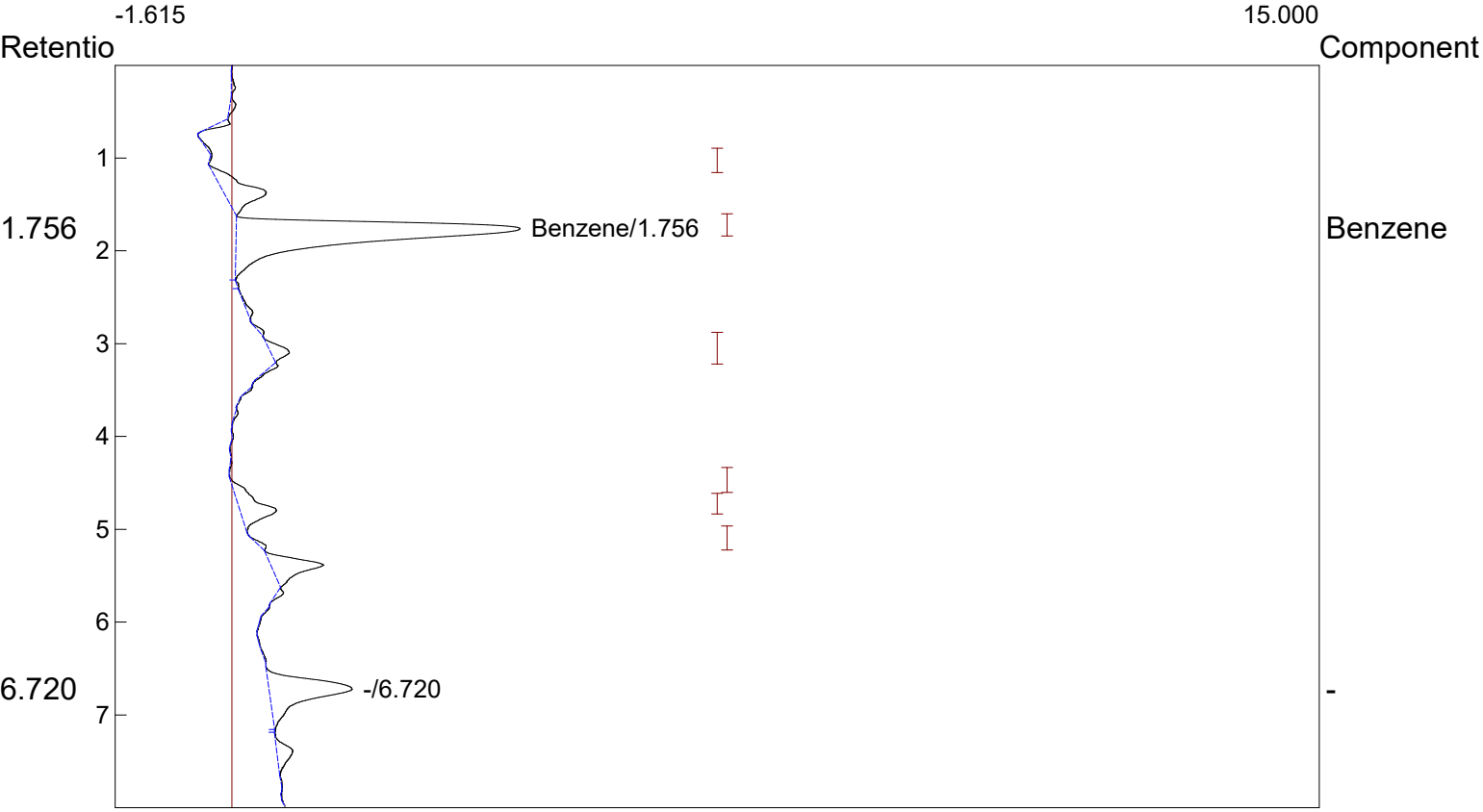


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 13:51:52
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-106 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

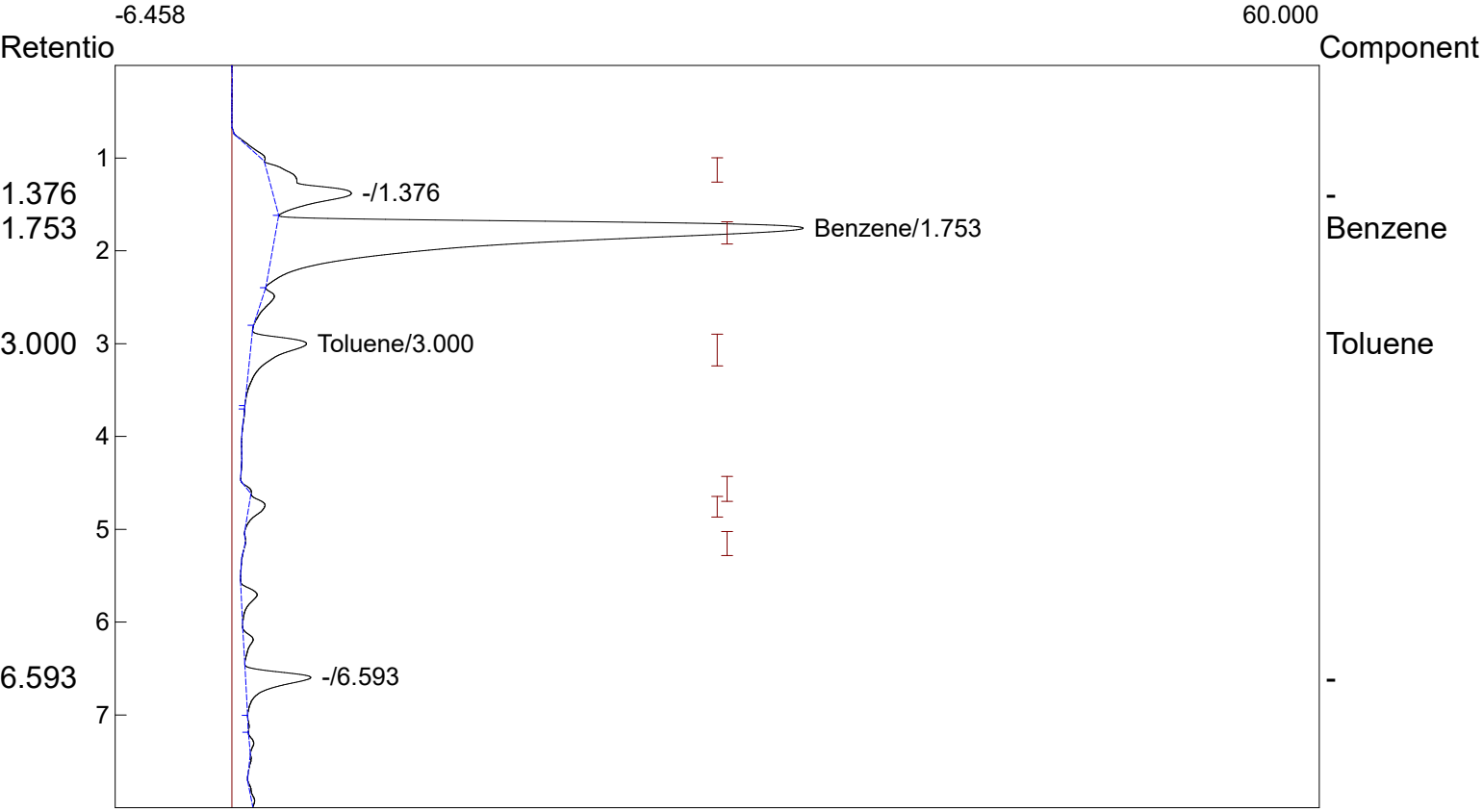


Component	Retention	Area	External	Units
Benzene	1.756	54.6910	93.9458	ppb
		54.6910	93.9458	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 13:29:39
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-107 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

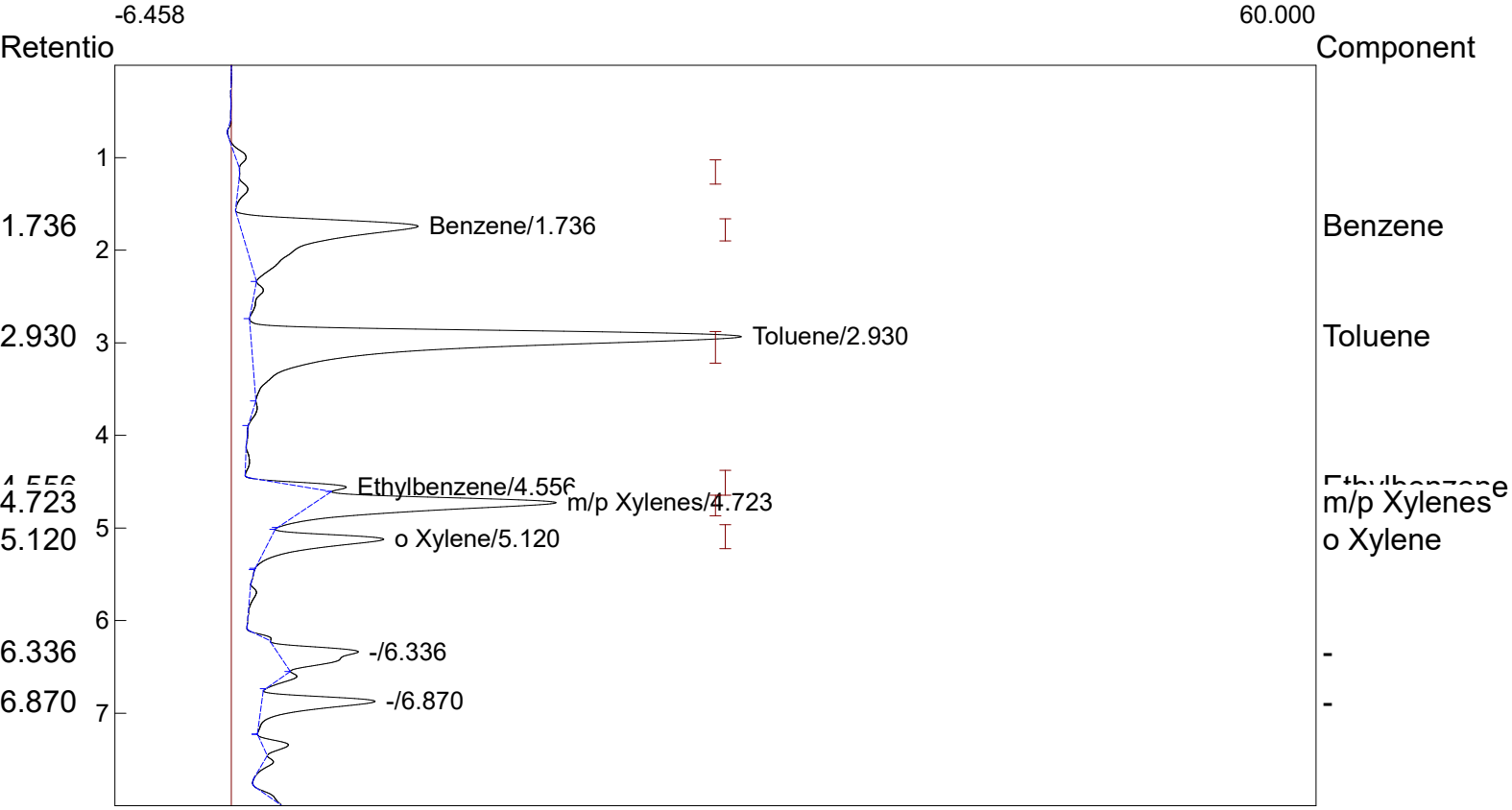


Component	Retention	Area	External	Units
Benzene	1.753	460.3284	790.7317	ppb
Toluene	3.000	43.8146	89.7989	ppb
		504.1430	880.5306	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 14:23:23
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-108 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

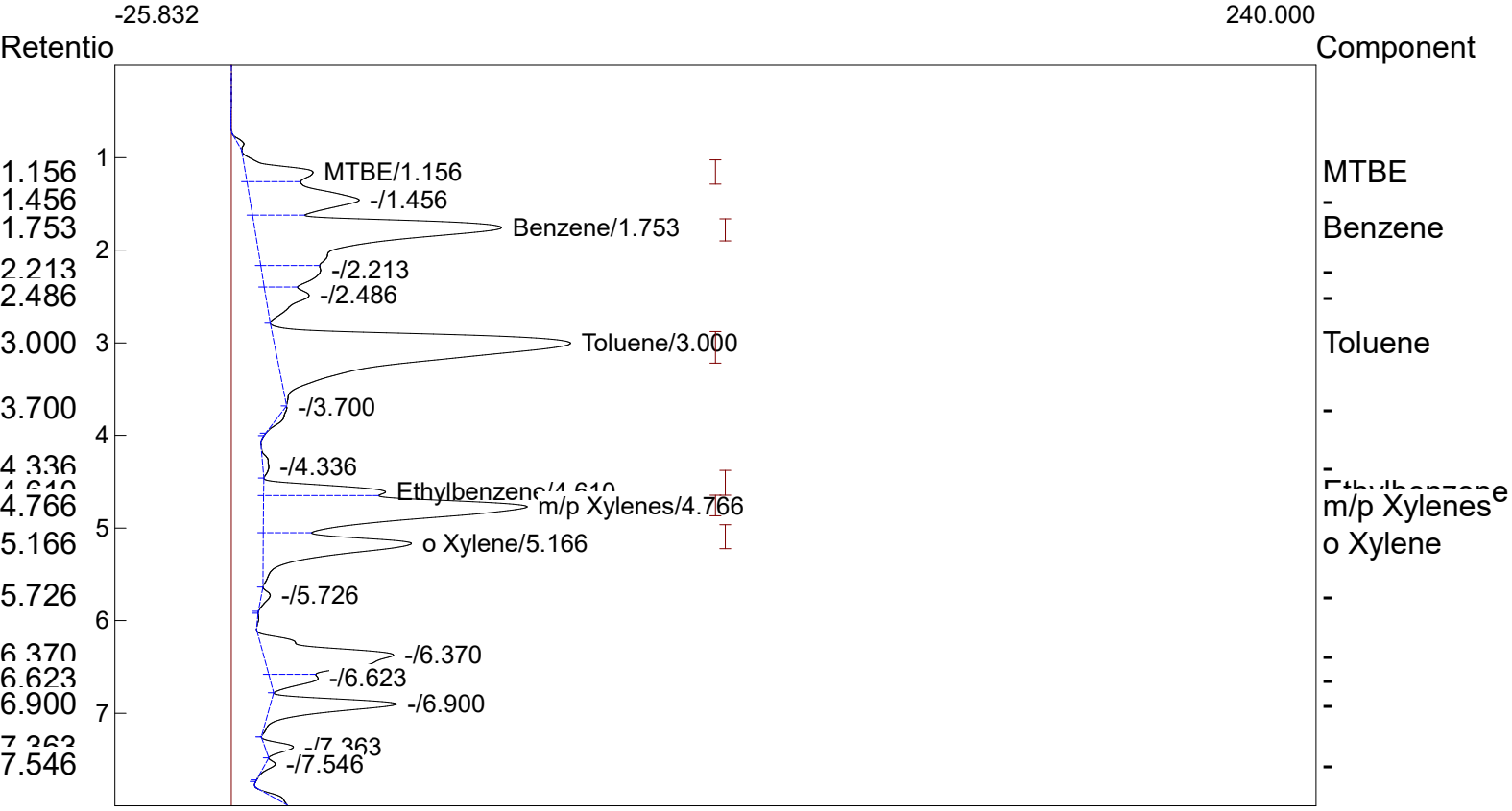


Component	Retention	Area	External	Units
Benzene	1.736	156.9596	269.6182	ppb
Toluene	2.930	350.3840	718.1192	ppb
Ethylbenzene	4.556	11.4154	160.9072	ppb
m/p Xylenes	4.723	124.0984	138.7625	ppb
o Xylene	5.120	56.8762	289.6615	ppb
		699.7336	1577.0687	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 14:33:47
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-109 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

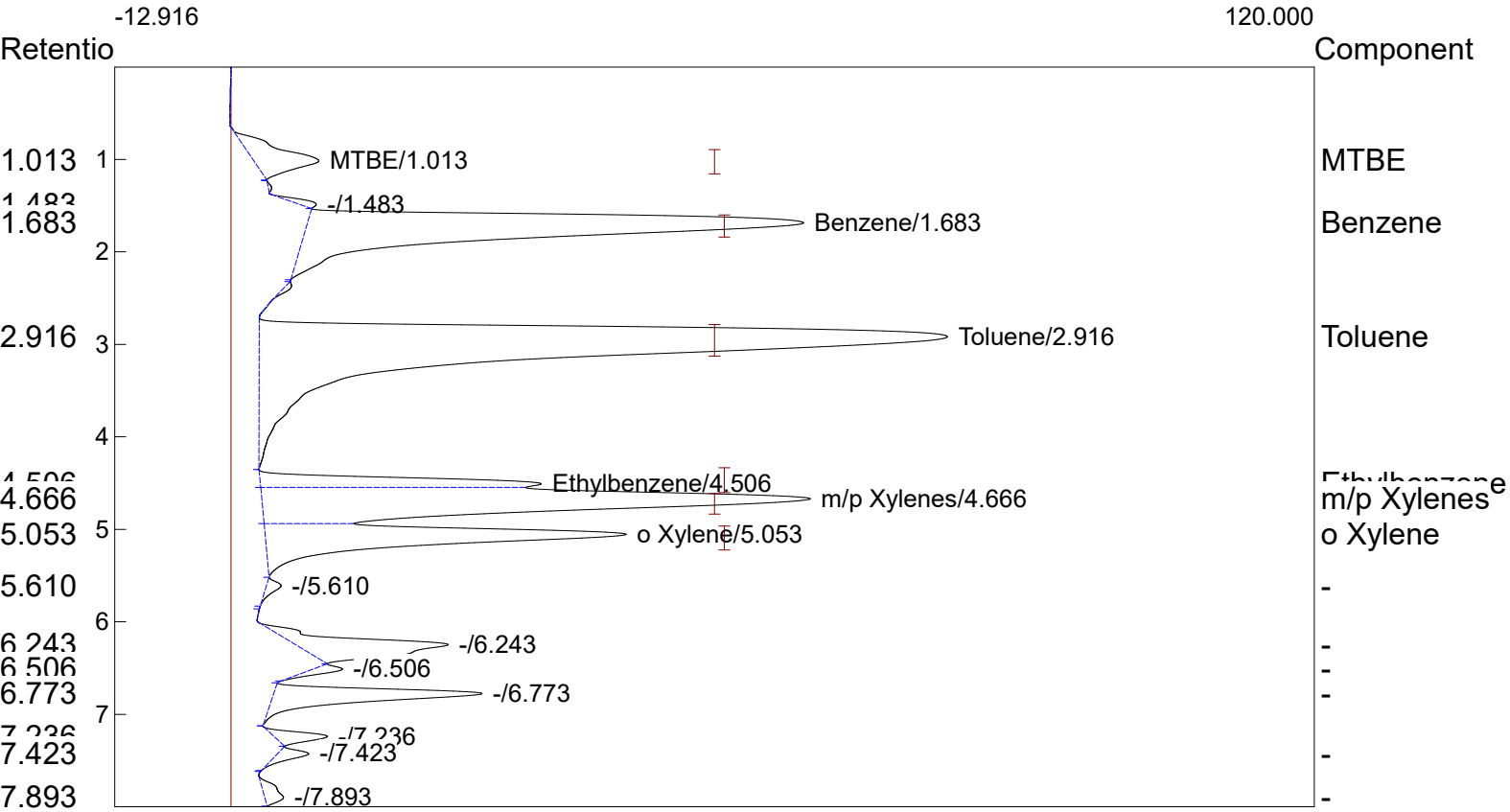


Component	Retention	Area	External	Units
MTBE	1.156	155.7596	1169.9285	ppb
Benzene	1.753	940.0301	1614.7420	ppb
Toluene	3.000	1254.3784	2570.8743	ppb
Ethylbenzene	4.610	179.8600	2535.2391	ppb
m/p Xylenes	4.766	864.3604	966.4980	ppb
o Xylene	5.166	420.1492	2139.7537	ppb
		3814.5377	10997.0355	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 13:39:40
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-110 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

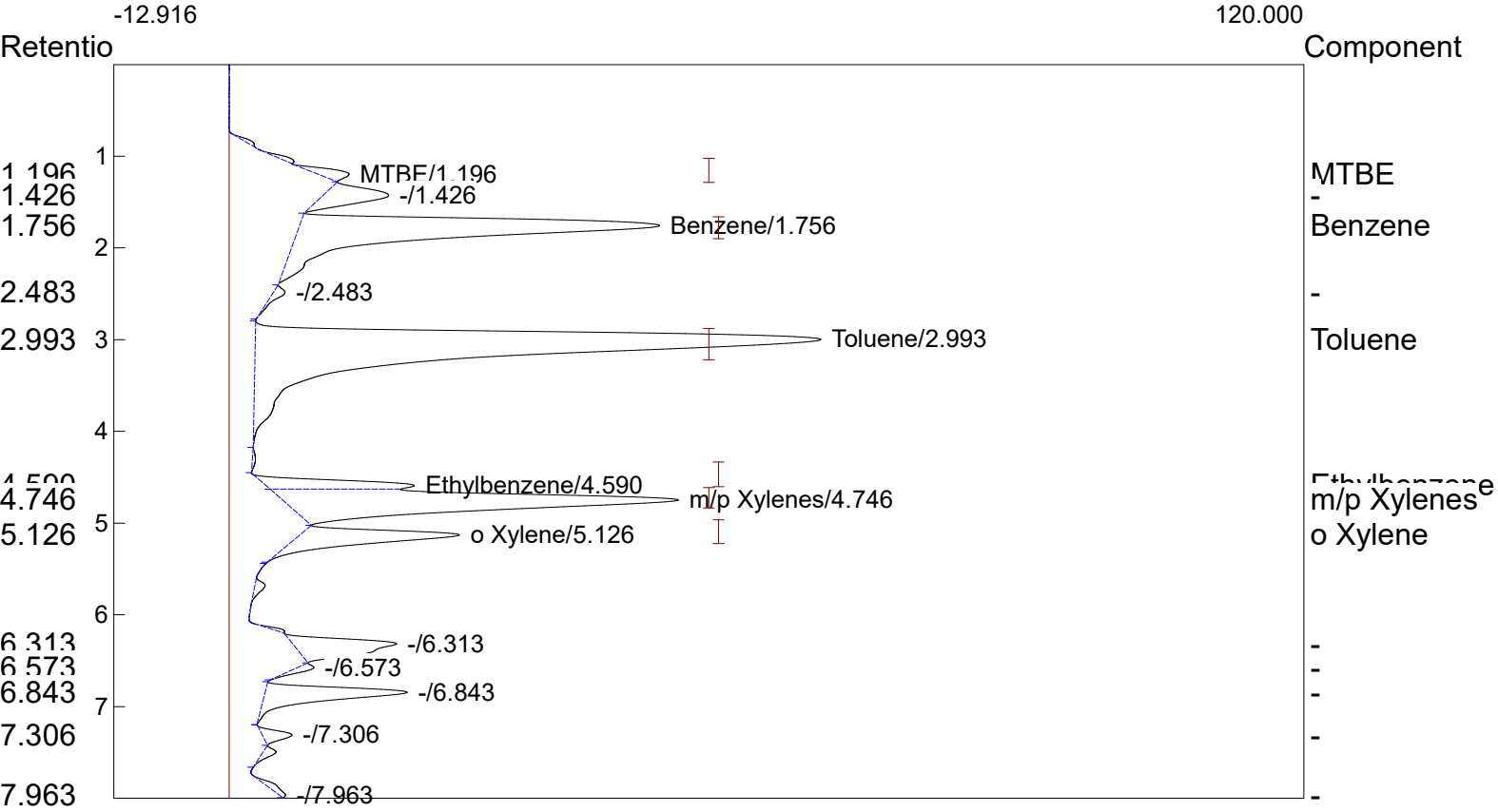


Component	Retention	Area	External	Units
MTBE	1.013	112.0548	841.6567	ppb
Benzene	1.683	884.5580	1519.4544	ppb
Toluene	2.916	1711.4014	3507.5523	ppb
Ethylbenzene	4.506	198.9174	2803.8650	ppb
m/p Xylenes	4.666	877.6691	981.3793	ppb
o Xylene	5.053	480.9772	2449.5411	ppb
		4265.5779	12103.4488	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 14:02:31
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-111 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

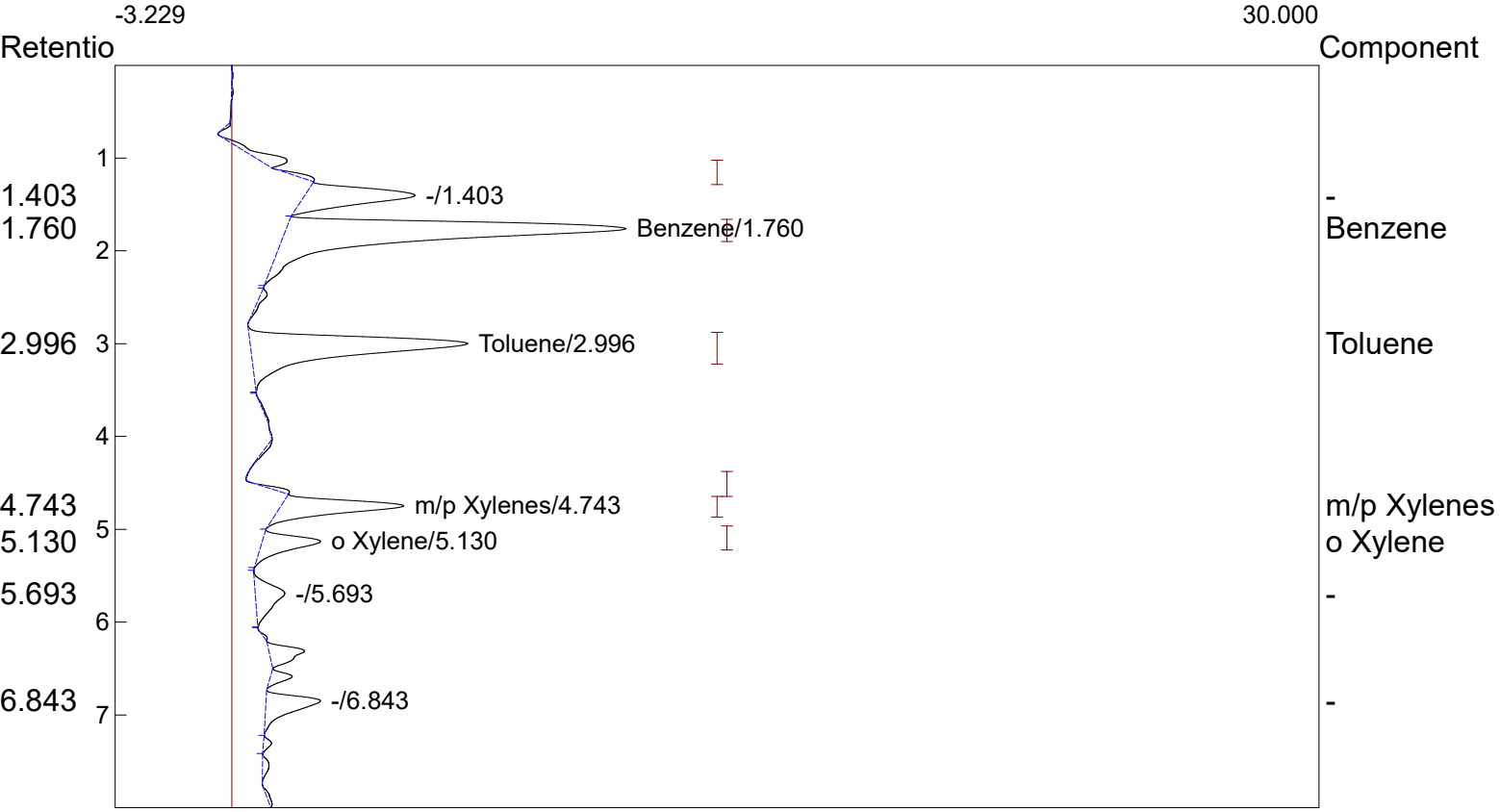


Component	Retention	Area	External	Units
MTBE	1.196	24.8948	186.9877	ppb
Benzene	1.756	552.5128	949.0819	ppb
Toluene	2.993	1135.2784	2326.7764	ppb
Ethylbenzene	4.590	97.9356	1380.4635	ppb
m/p Xylenes	4.746	517.0104	578.1032	ppb
o Xylene	5.126	166.0732	845.7847	ppb
		2493.7052	6267.1974	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 14:13:11
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-112 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

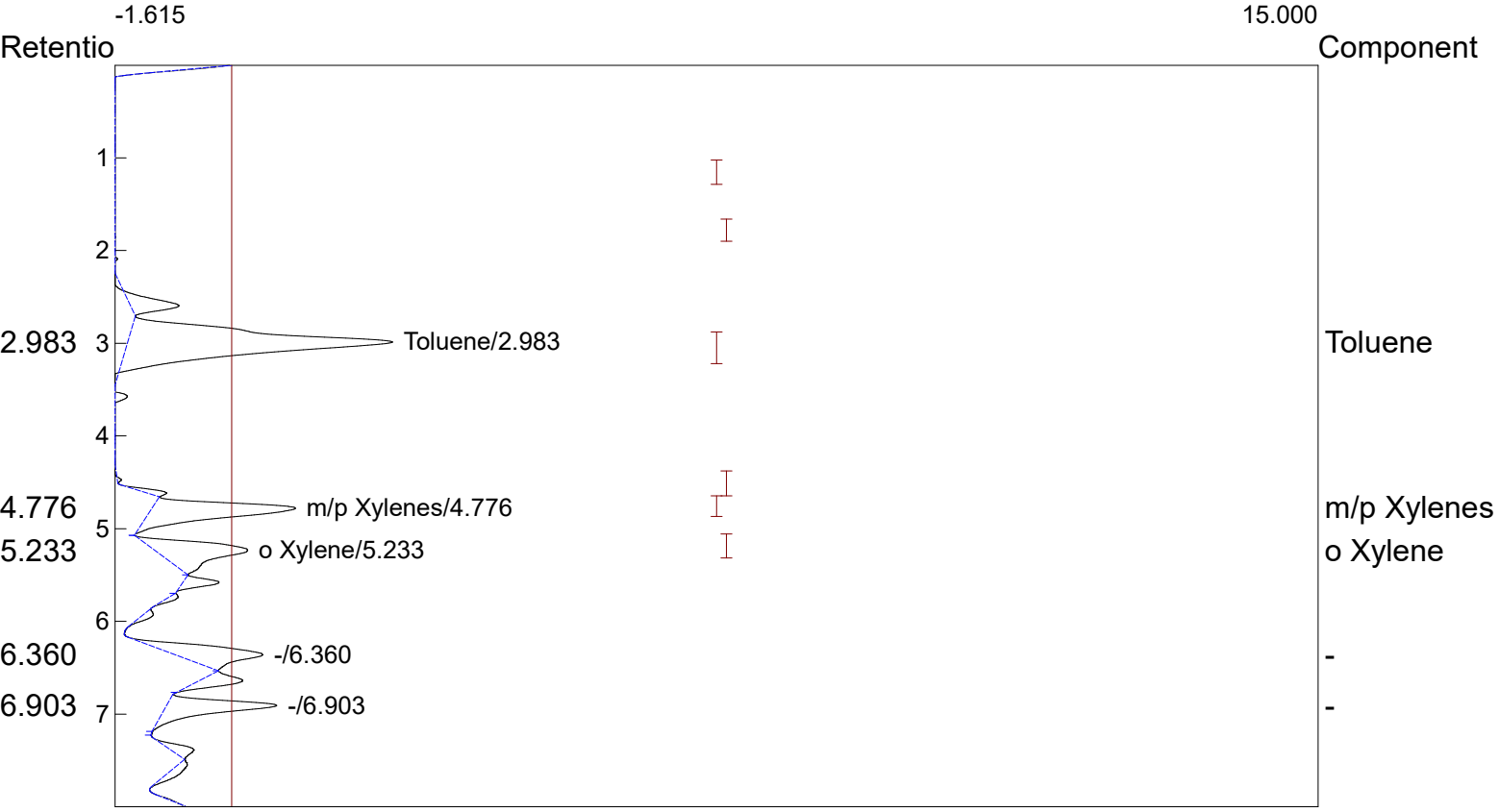


Component	Retention	Area	External	Units
Benzene	1.760	120.0800	206.2681	ppb
Toluene	2.996	79.2248	162.3729	ppb
m/p Xylenes	4.743	30.8632	34.5102	ppb
o Xylene	5.130	16.0946	81.9673	ppb
		246.2626	485.1184	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 14:47:29
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-113 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

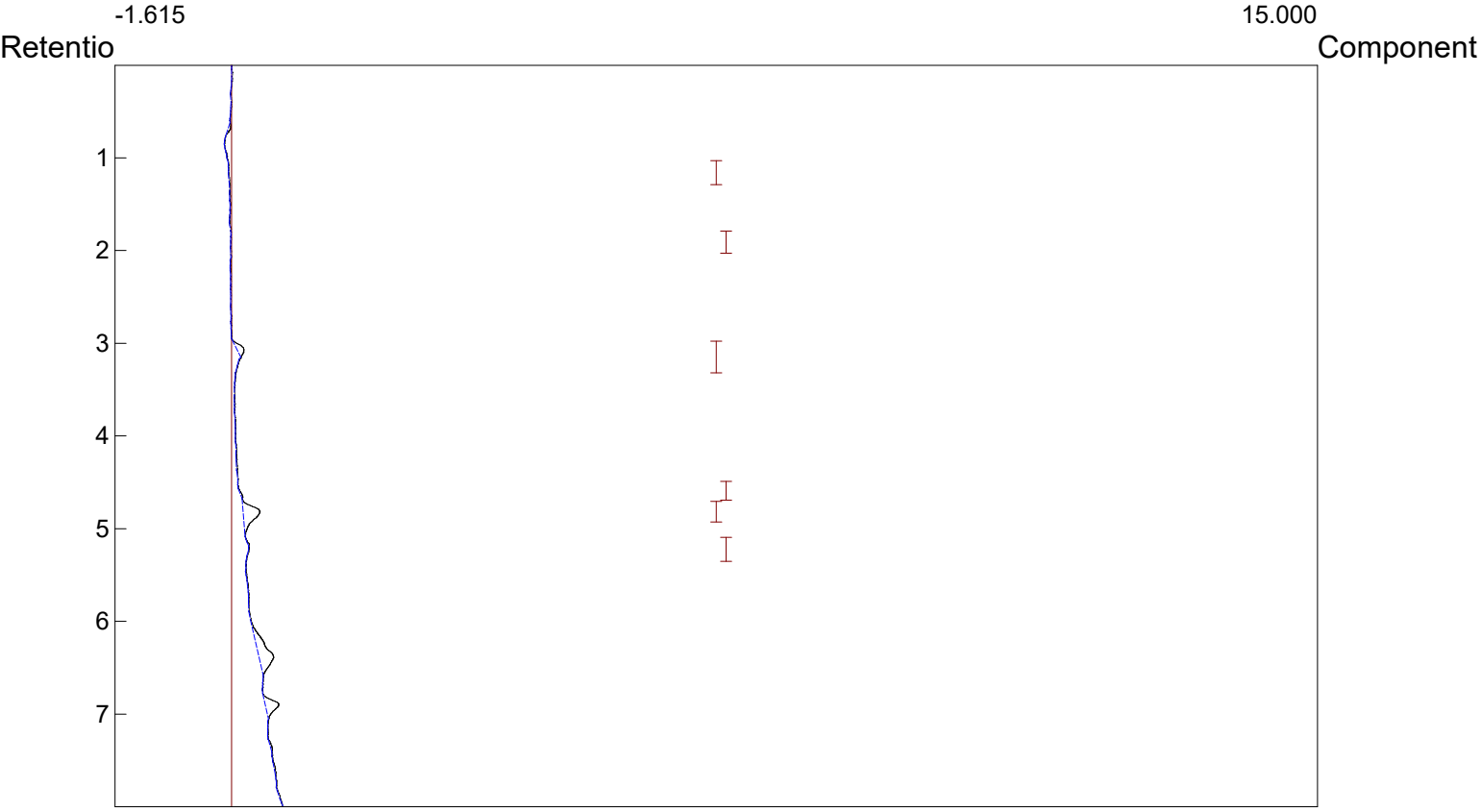


Component	Retention	Area	External	Units
Toluene	2.983	60.9184	124.8535	ppb
m/p Xylenes	4.776	21.1304	23.6273	ppb
o Xylene	5.233	16.1084	82.0375	ppb
		98.1572	230.5183	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 16:03:44
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-114 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

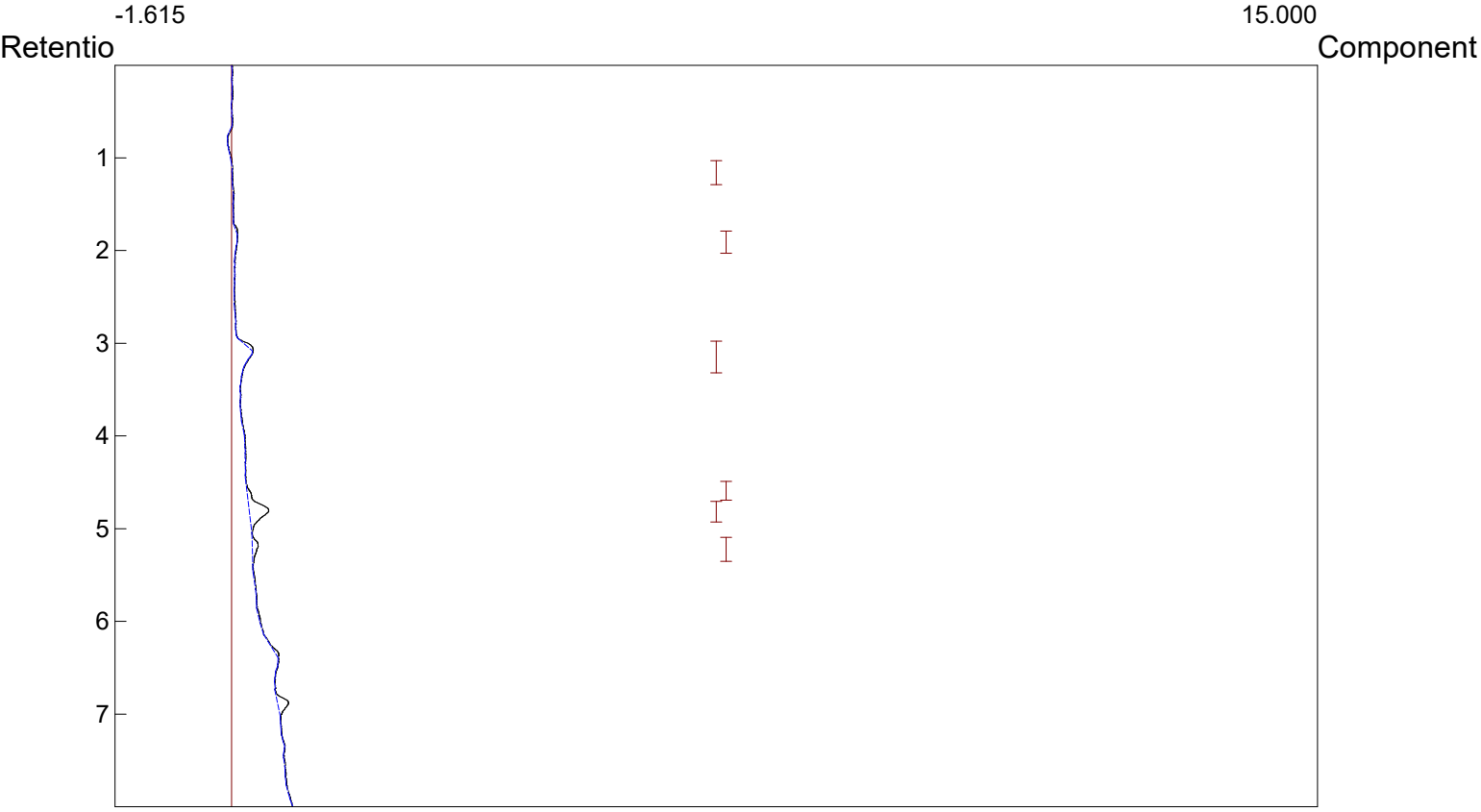


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 15:46:30
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-115 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

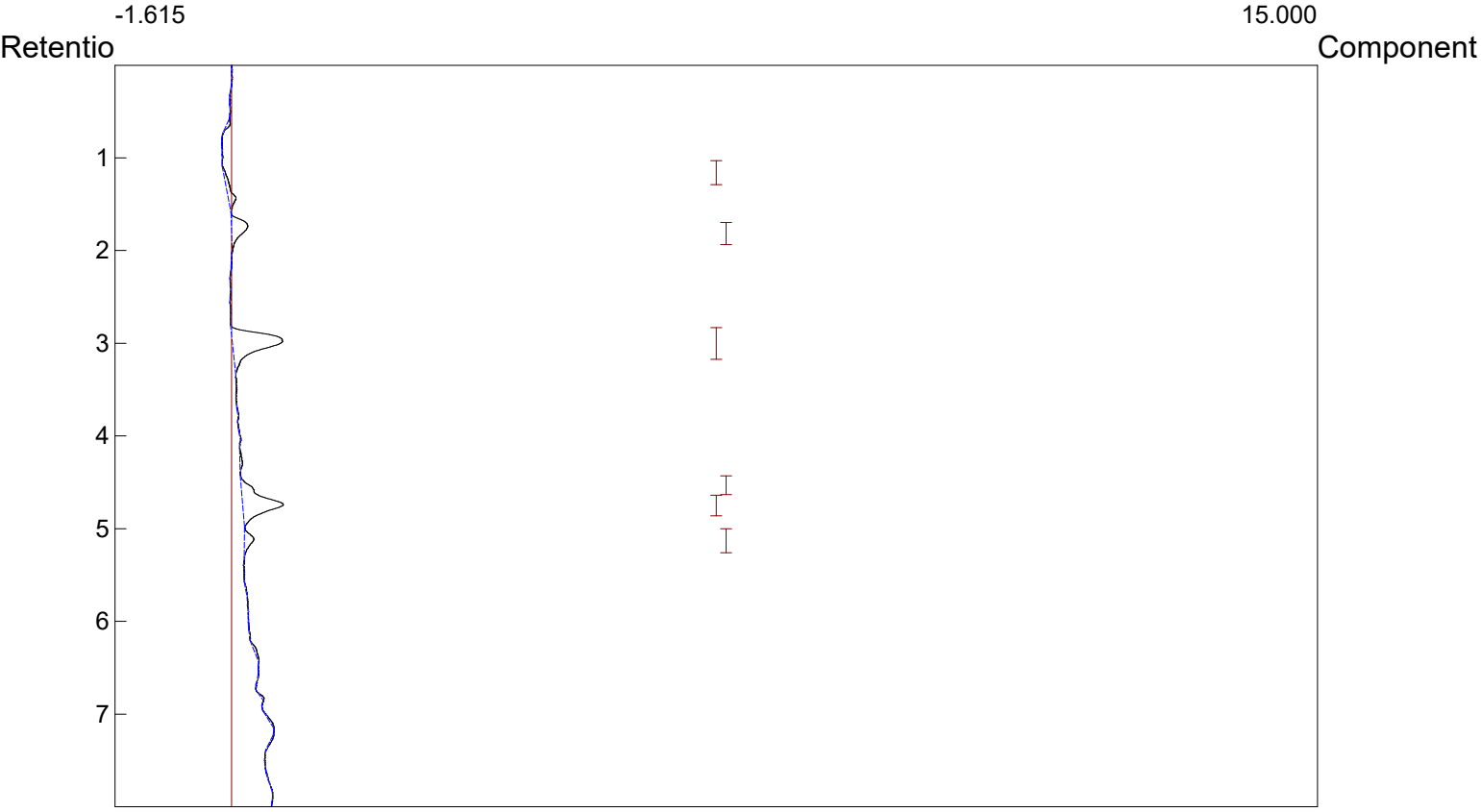


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 16:13:50
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-116 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

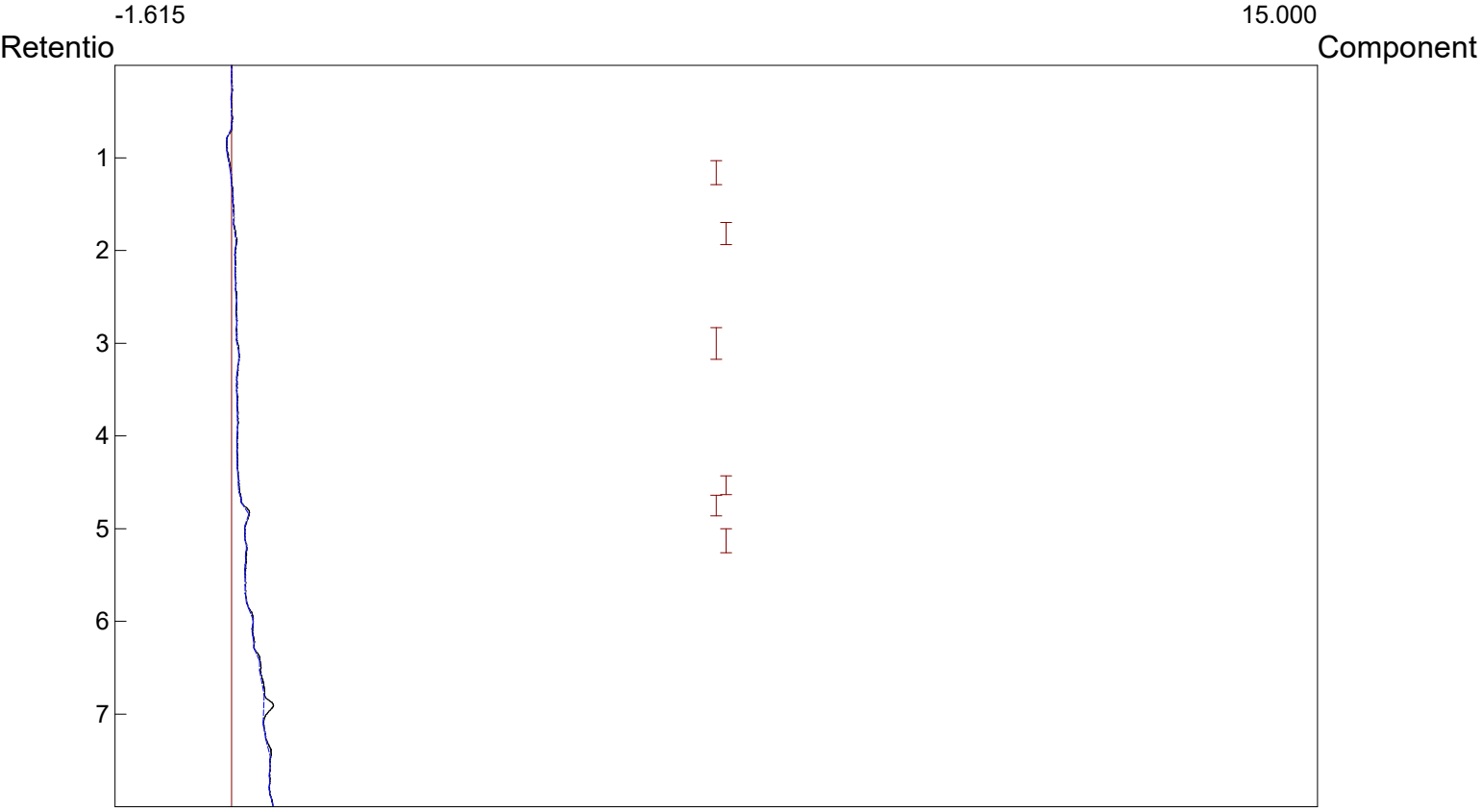


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 16:27:06
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-117 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

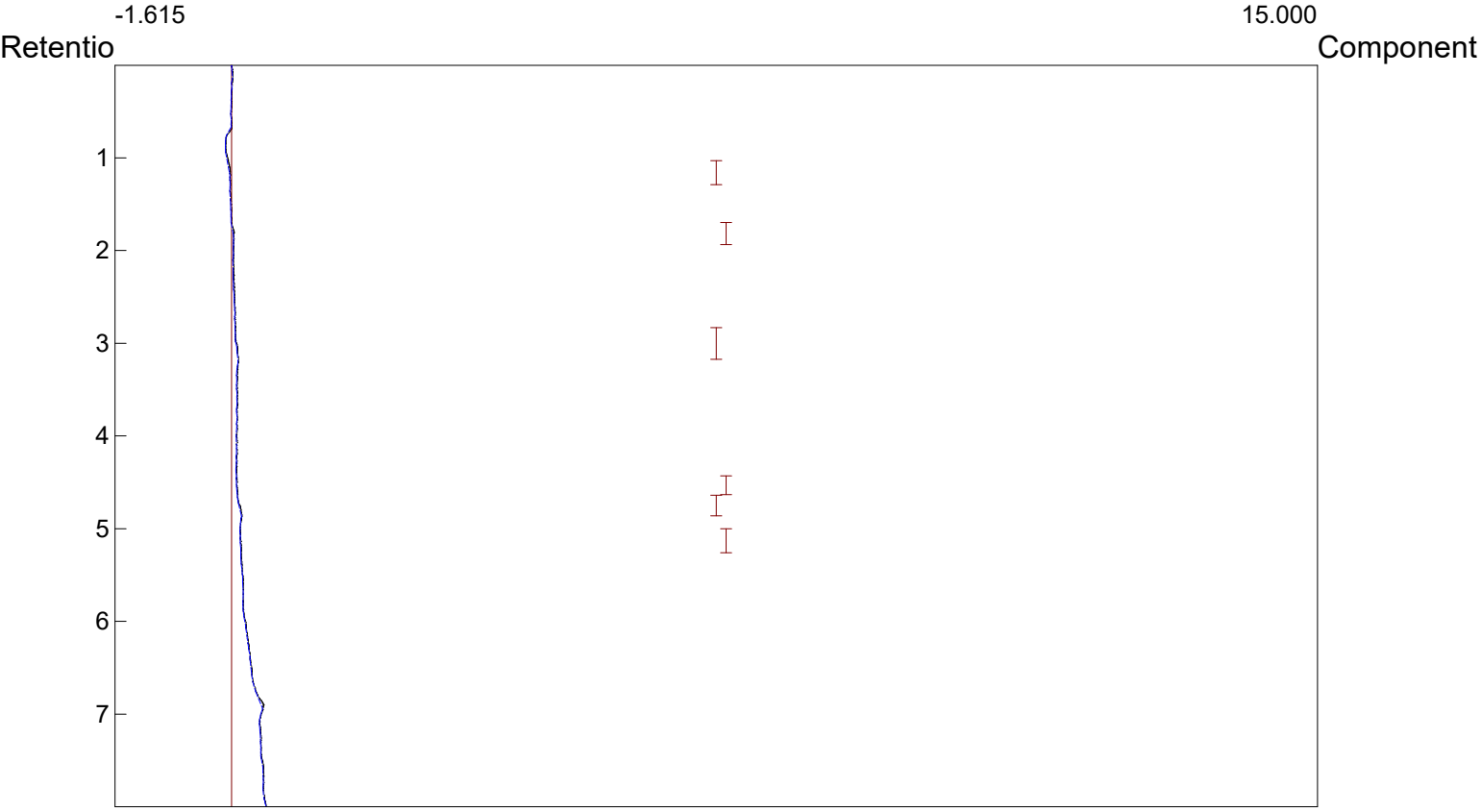


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 16:39:17
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-118 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp



Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 16:51:25
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-119 - Quick Pantry #19

Temperature program:

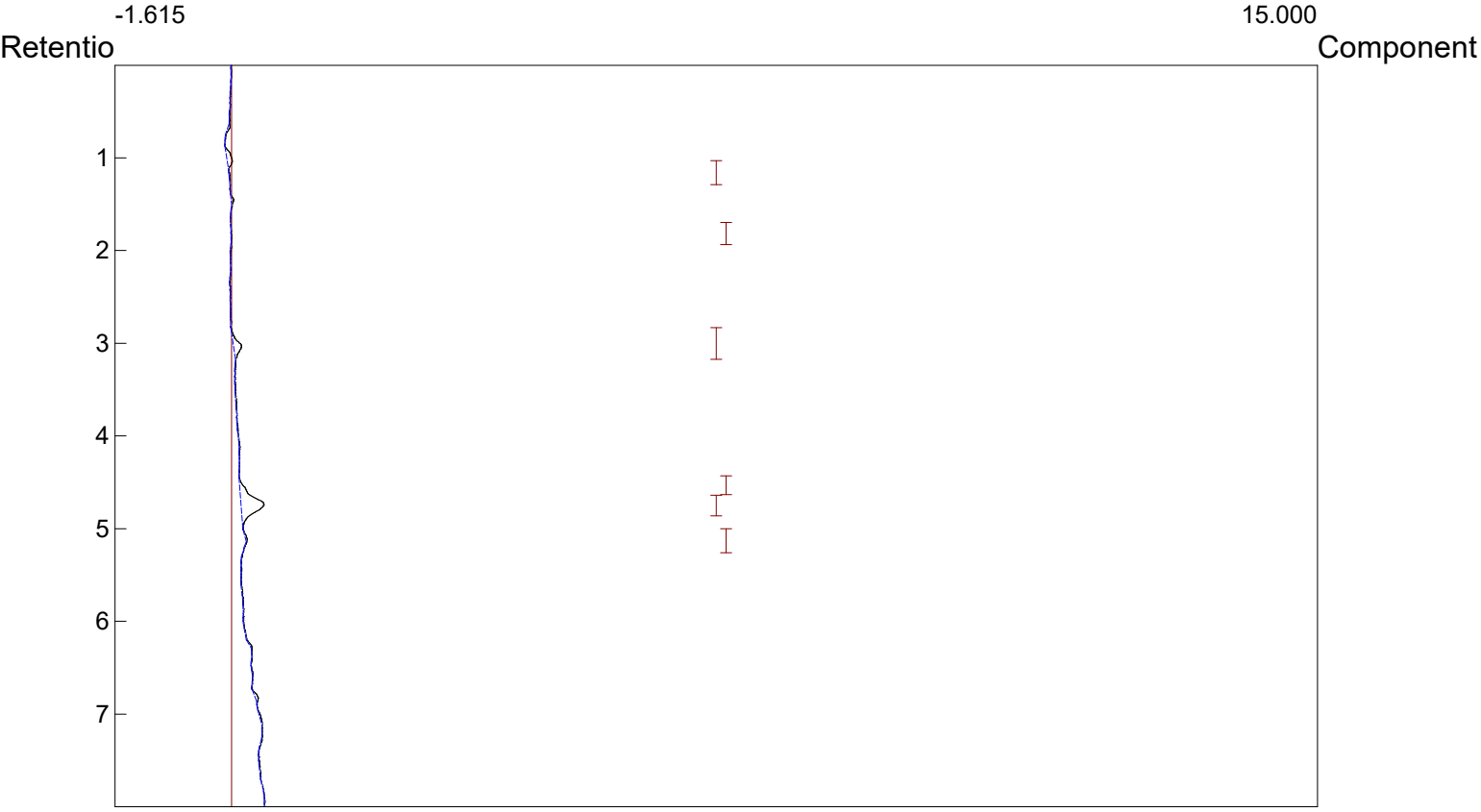
Init temp	Hold	Ramp	Final temp

Component	Retention	Area	External	Units
Toluene	3.056	11.1328	22.8169	ppb
		11.1328	22.8169	

Lab name: KLM Environmental, LLC
Collected: 5/24/21
Analysis date: 05/24/2021 17:01:35
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-120 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

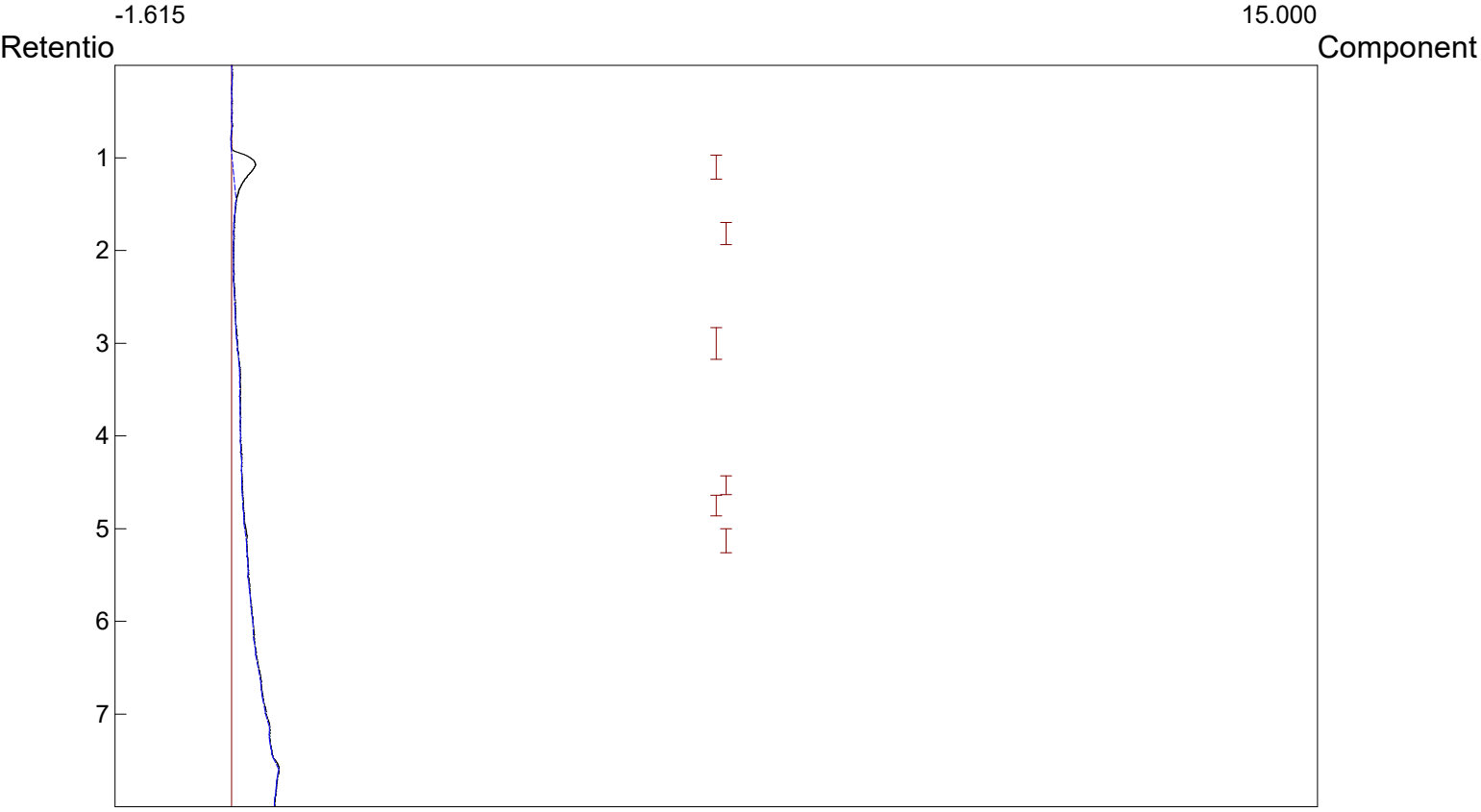


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 09:49:33
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-121 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

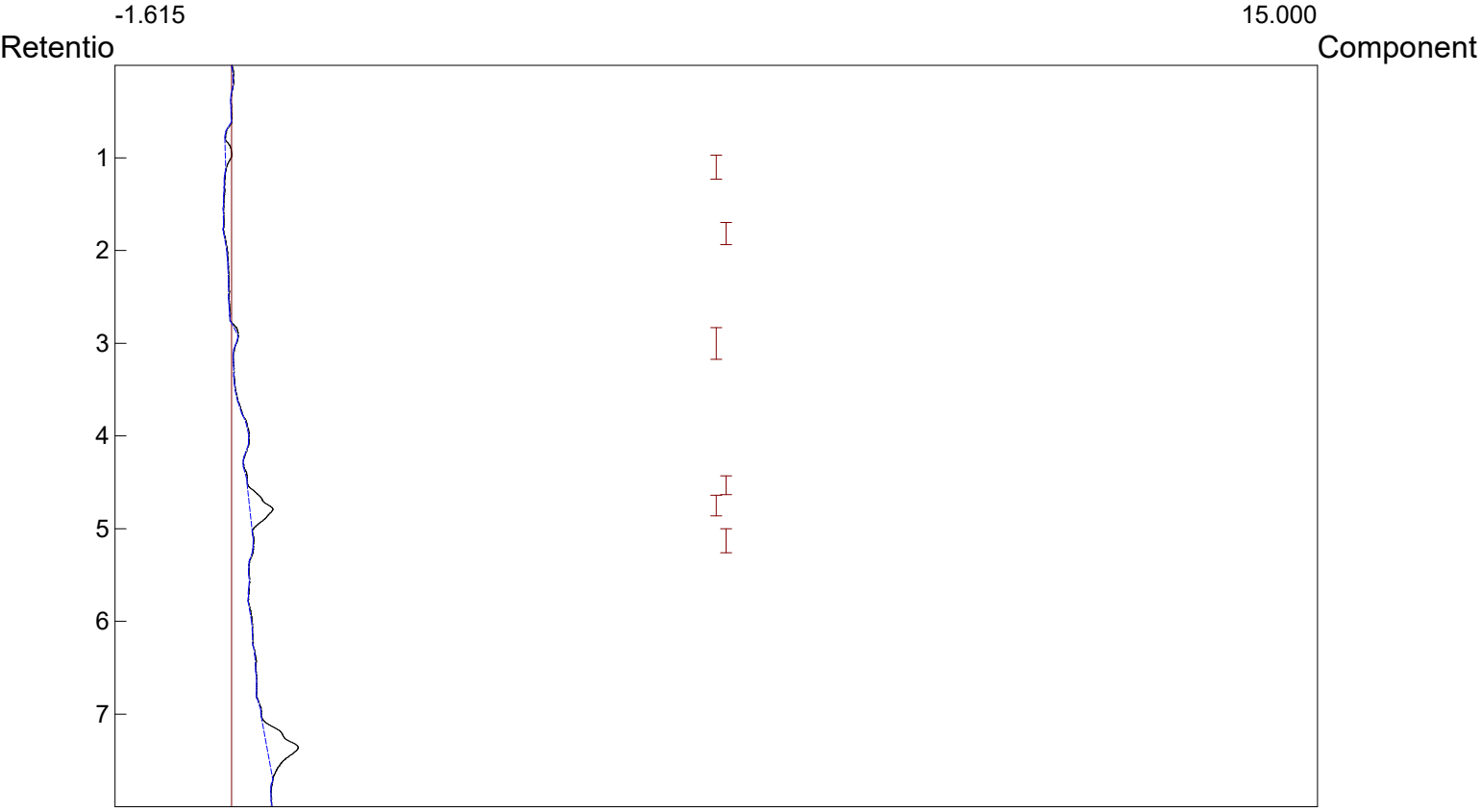


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 09:59:43
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-122 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

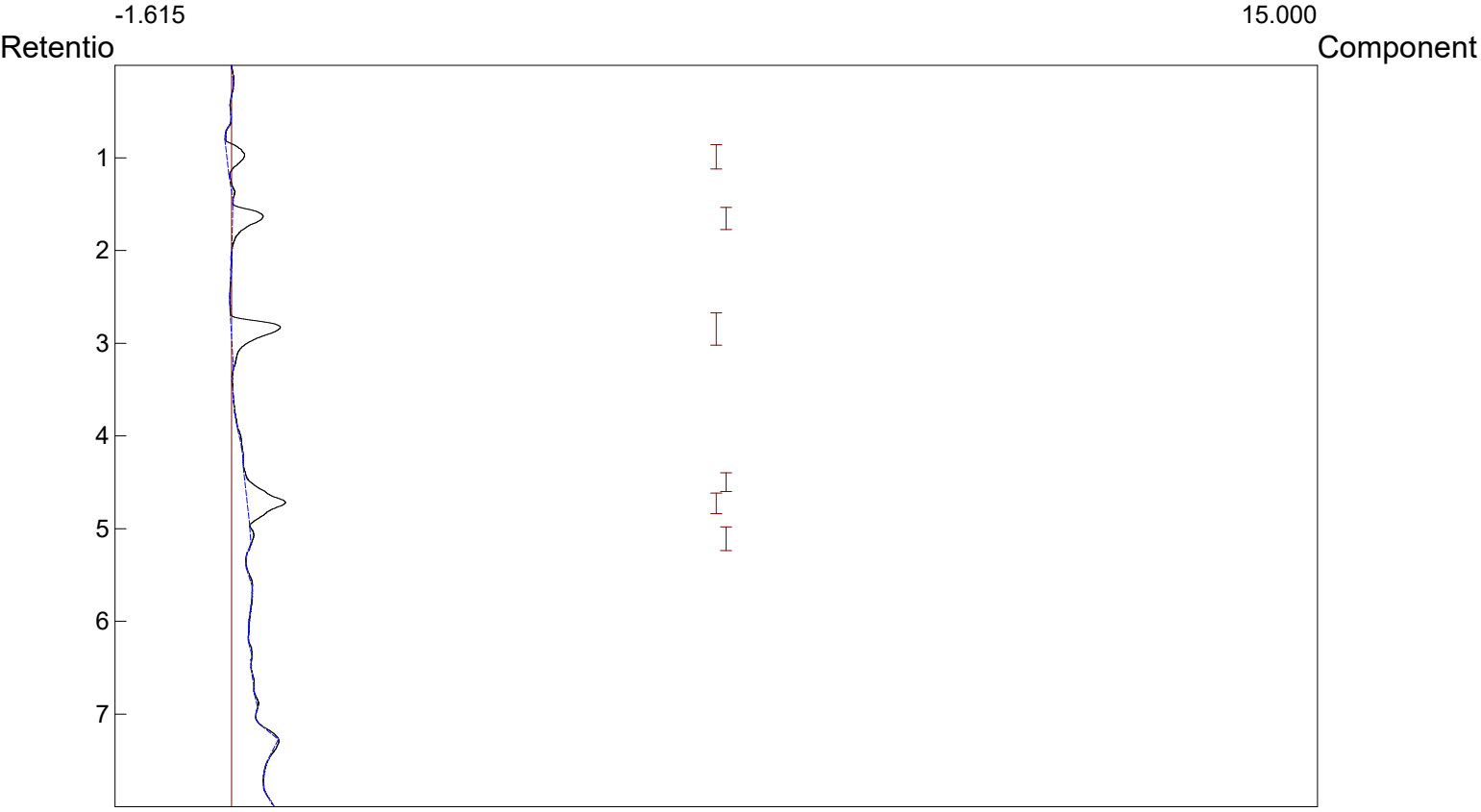


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 10:09:20
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-123 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp



Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 10:19:09
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-124 - Quick Pantry #19

Temperature program:

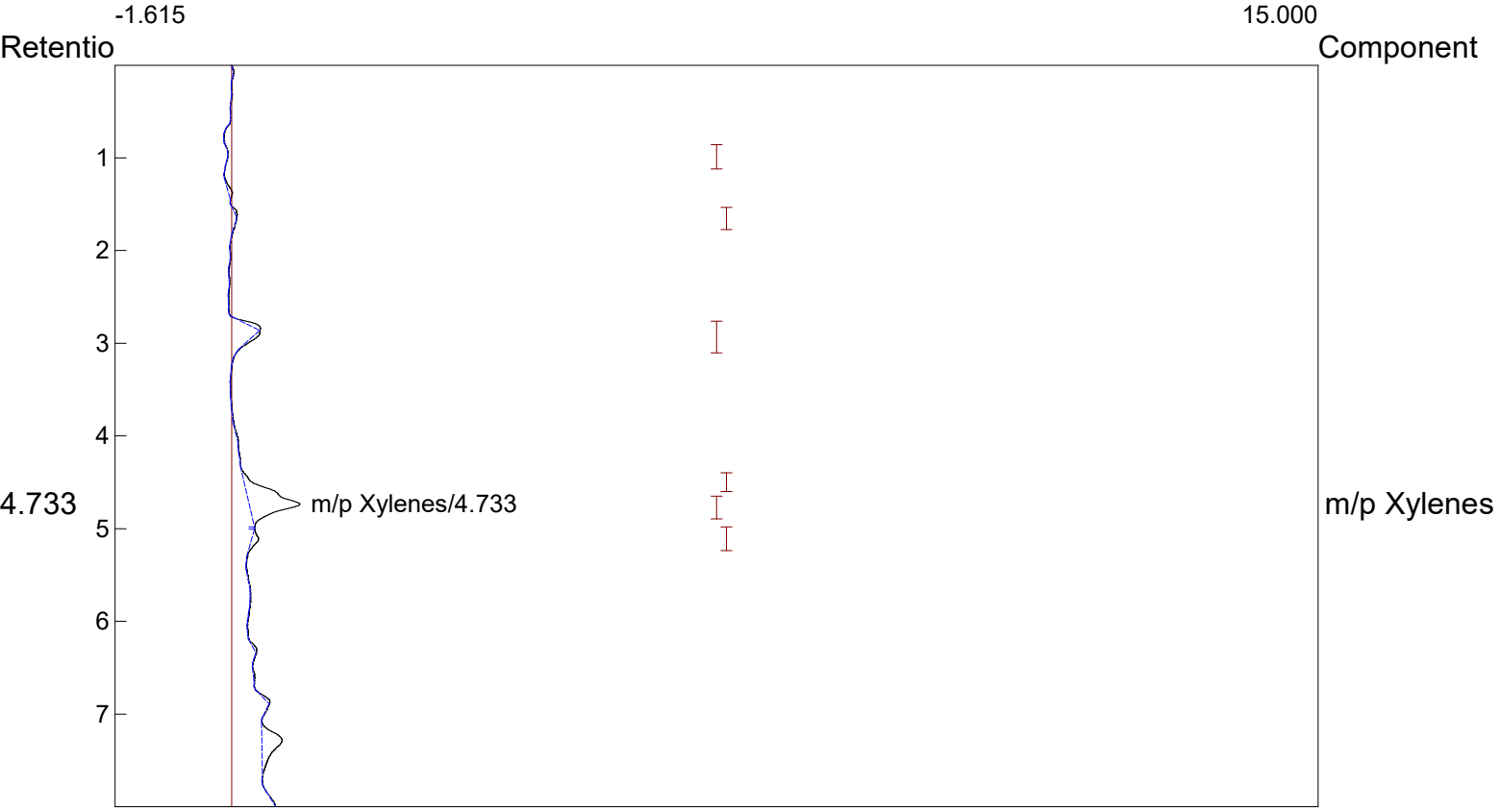
Init temp	Hold	Ramp	Final temp

Component	Retention	Area	External	Units
Toluene	2.896	10.5980	21.7208	ppb
		10.5980	21.7208	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 10:28:23
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-125 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

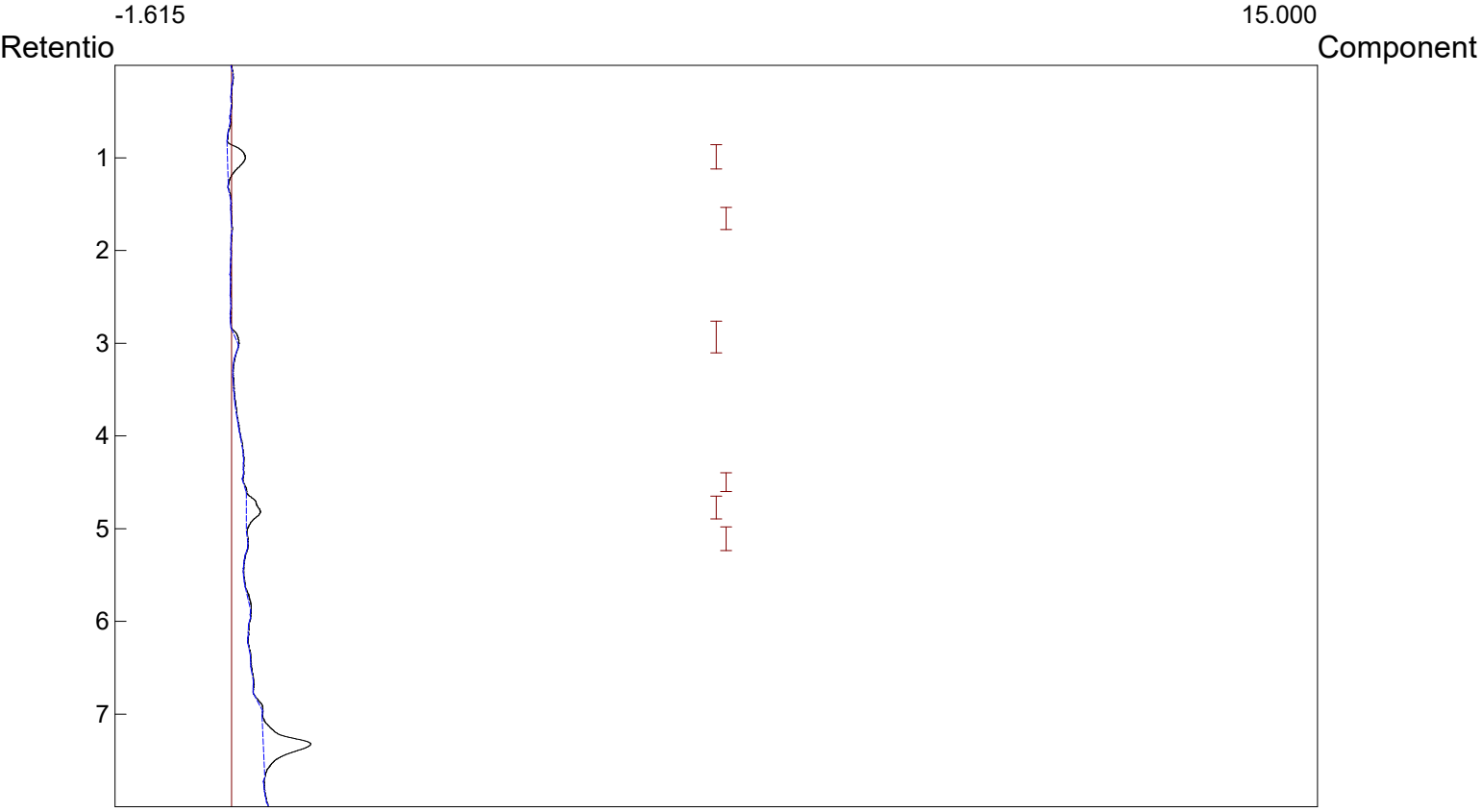


Component	Retention	Area	External	Units
m/p Xylenes	4.733	10.1860	11.3896	ppb
		10.1860	11.3896	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 10:38:17
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-126 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

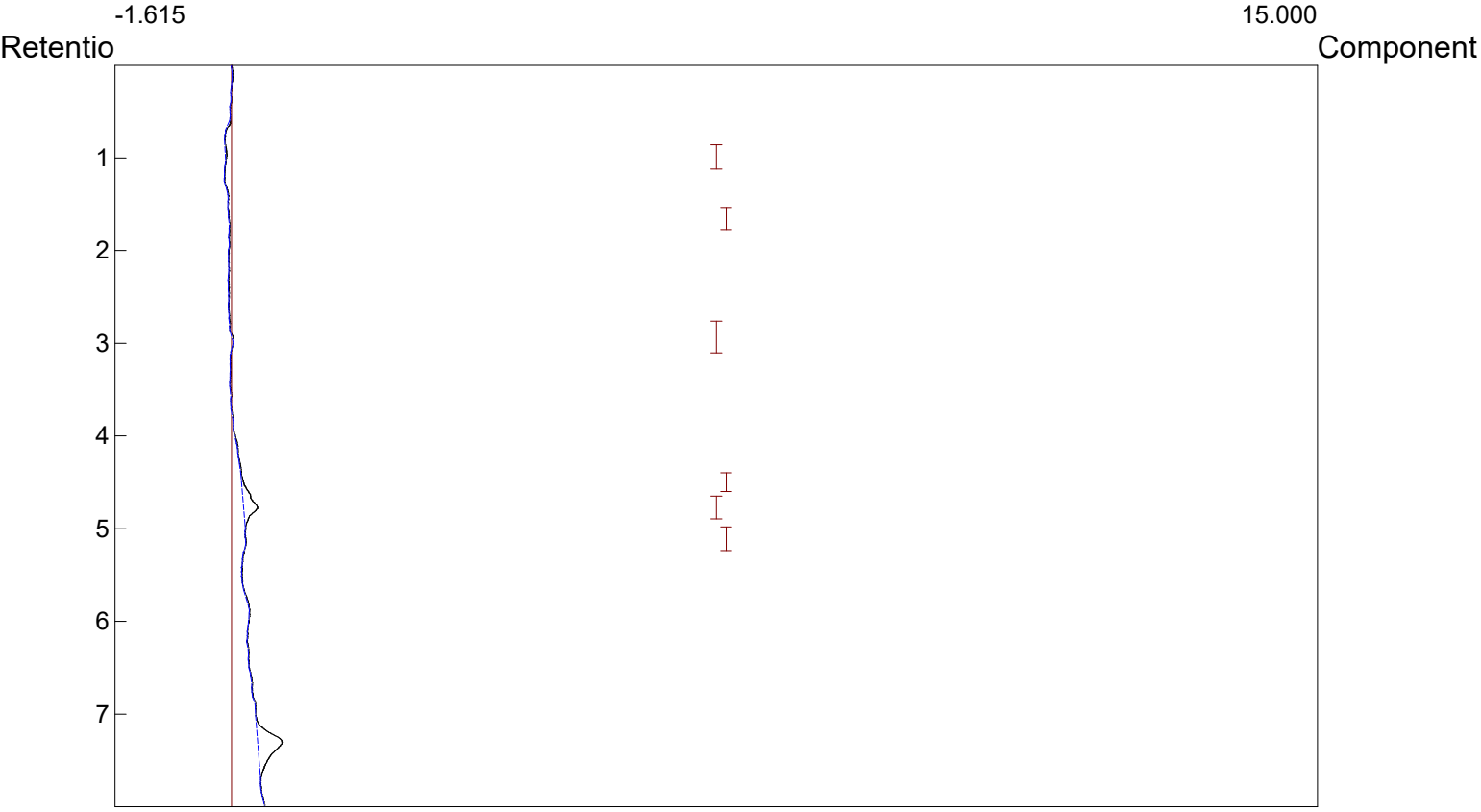


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 10:47:35
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-127 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

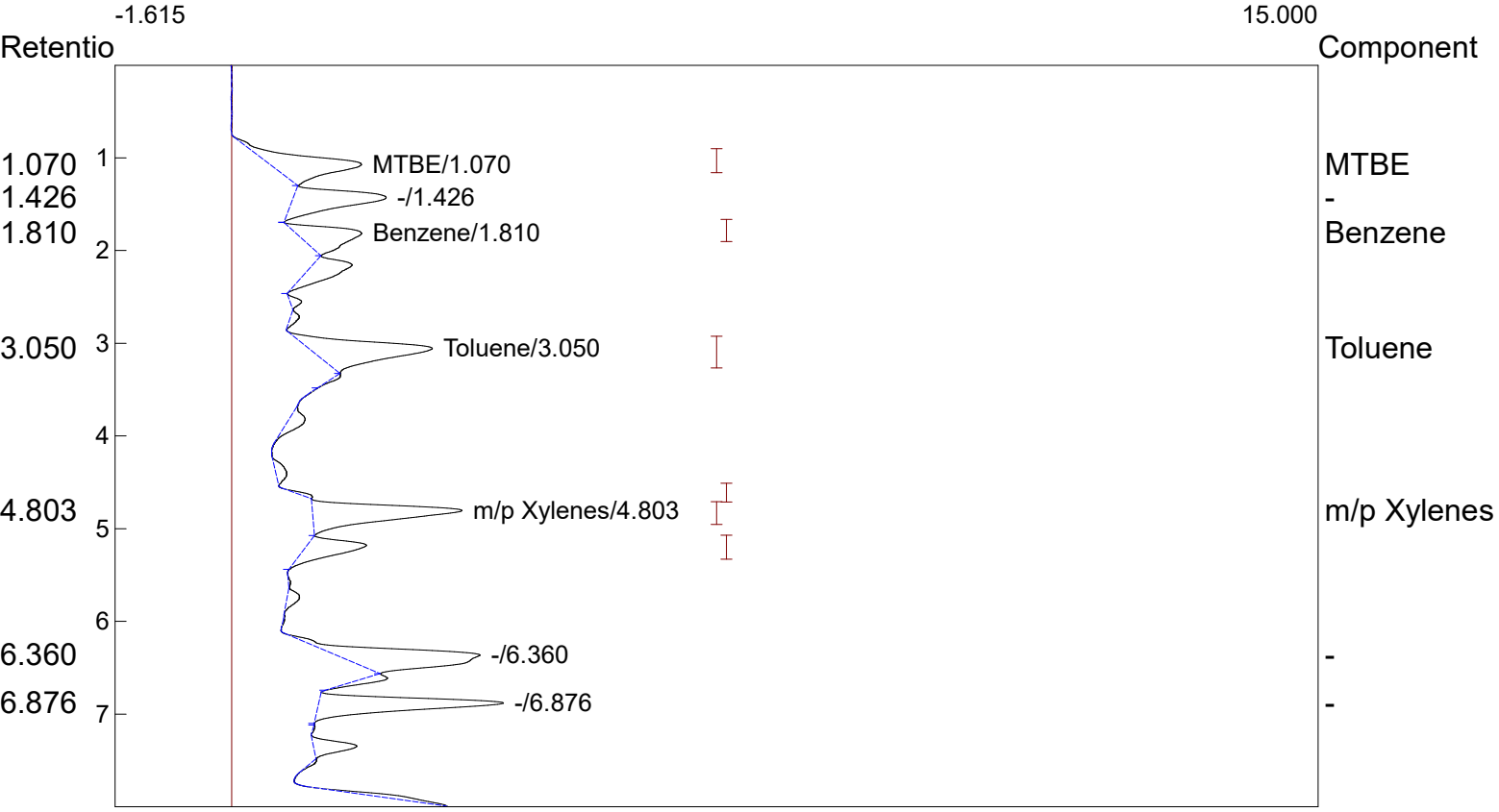


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 12:04:00
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-128 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

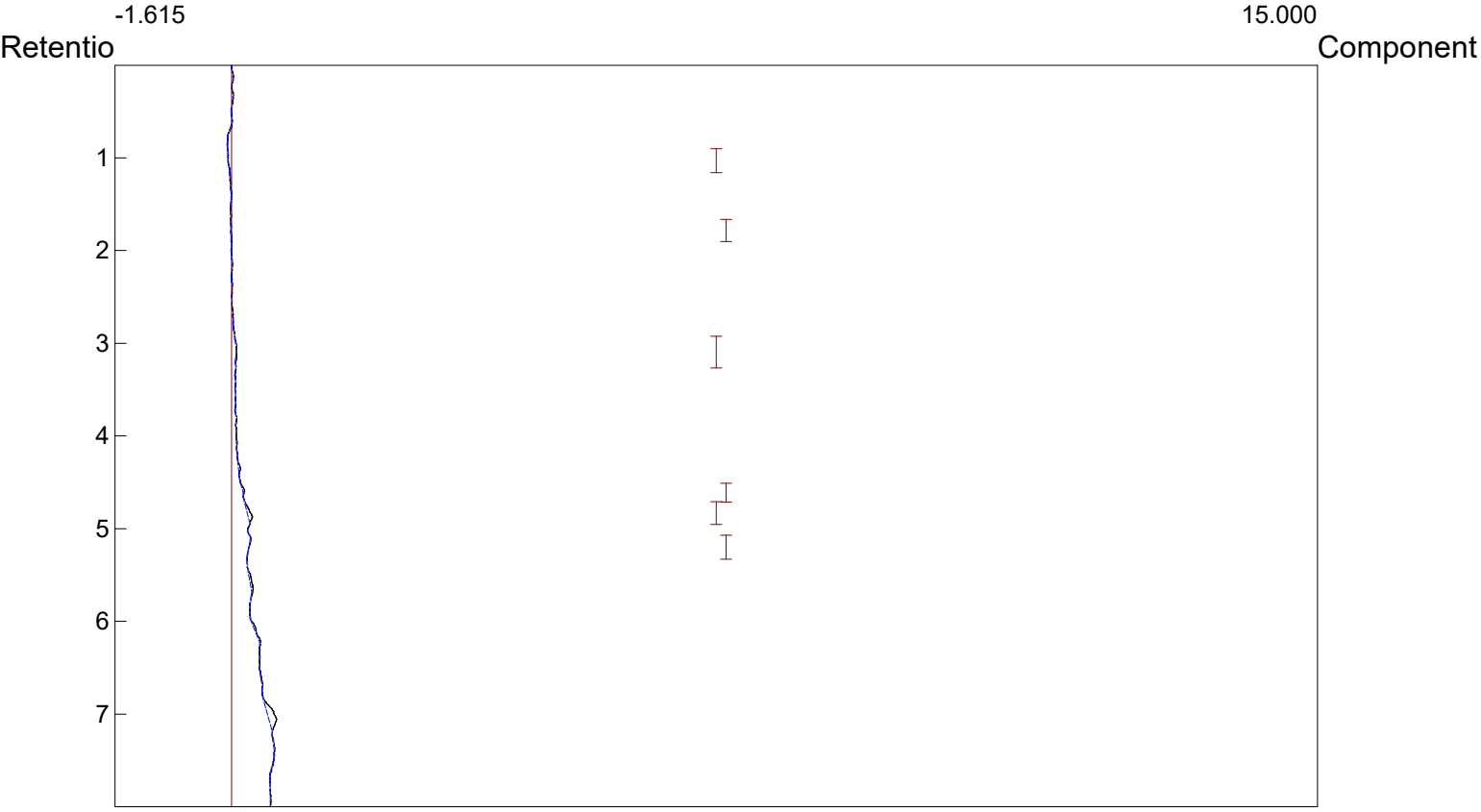


Component	Retention	Area	External	Units
MTBE	1.070	15.7932	118.6246	ppb
Benzene	1.810	10.7418	18.4518	ppb
Toluene	3.050	20.7576	42.5431	ppb
m/p Xylenes	4.803	20.9990	23.4804	ppb
		68.2916	203.0998	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 12:30:45
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-129 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

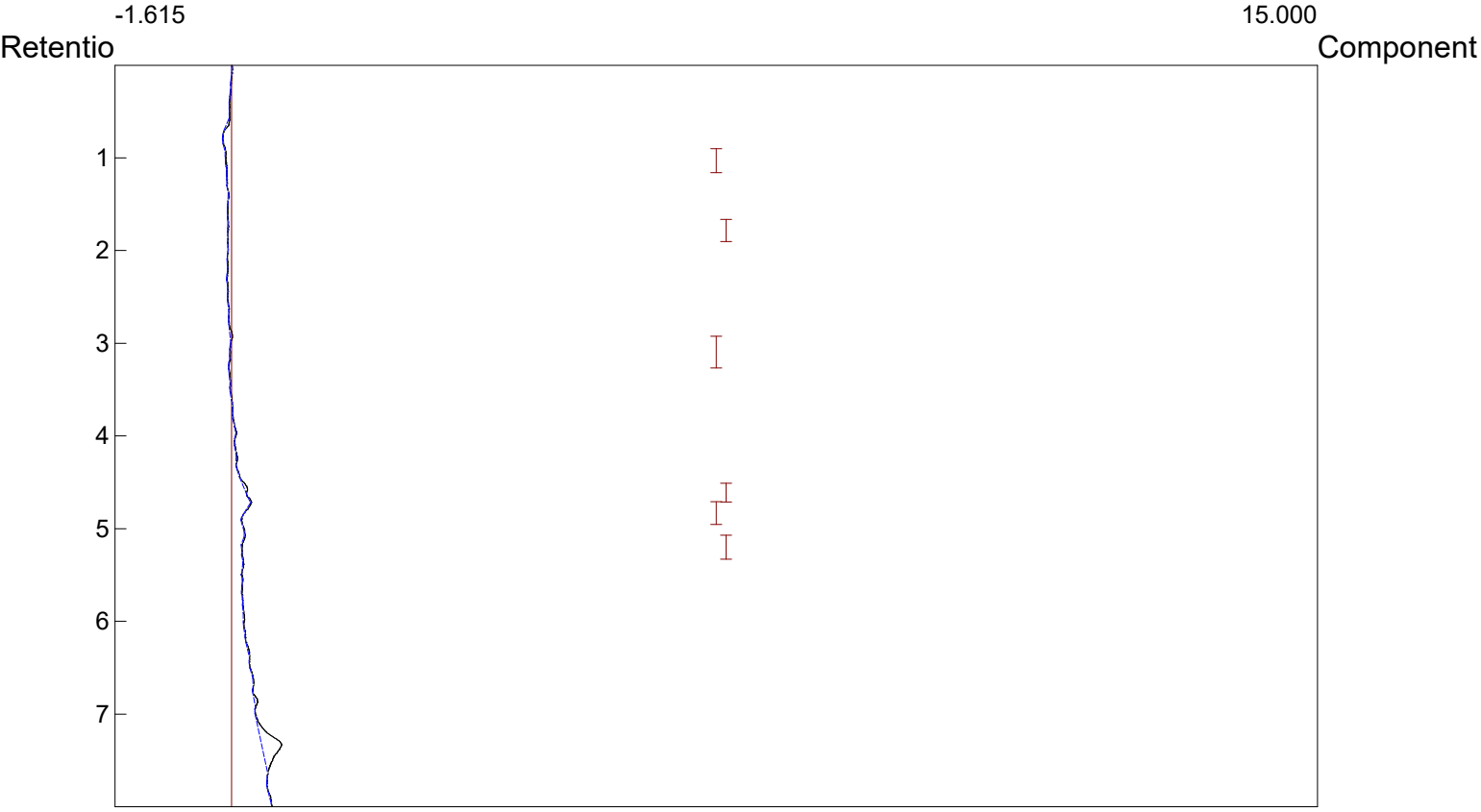


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 12:39:54
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-130 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

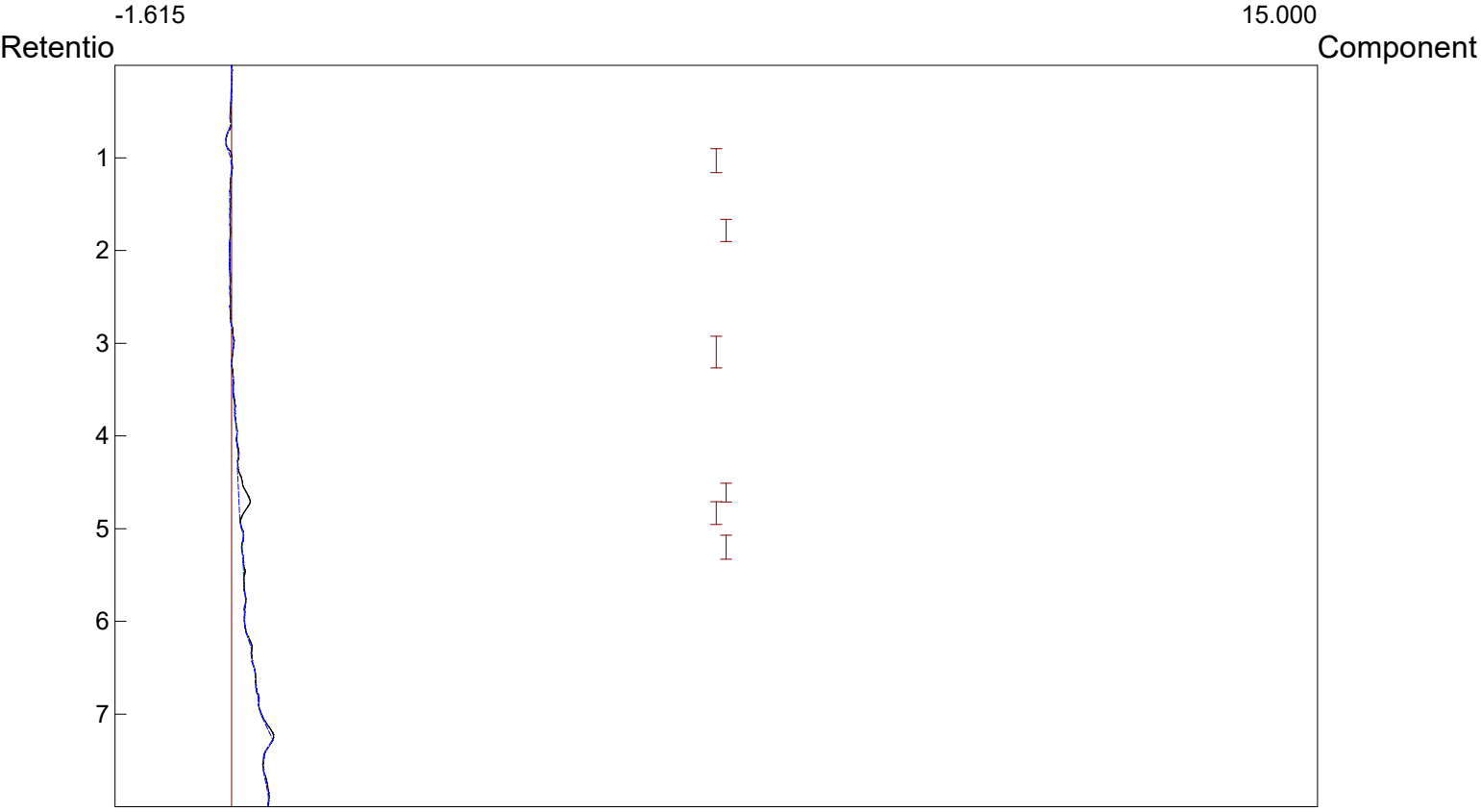


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 13:02:47
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-131 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

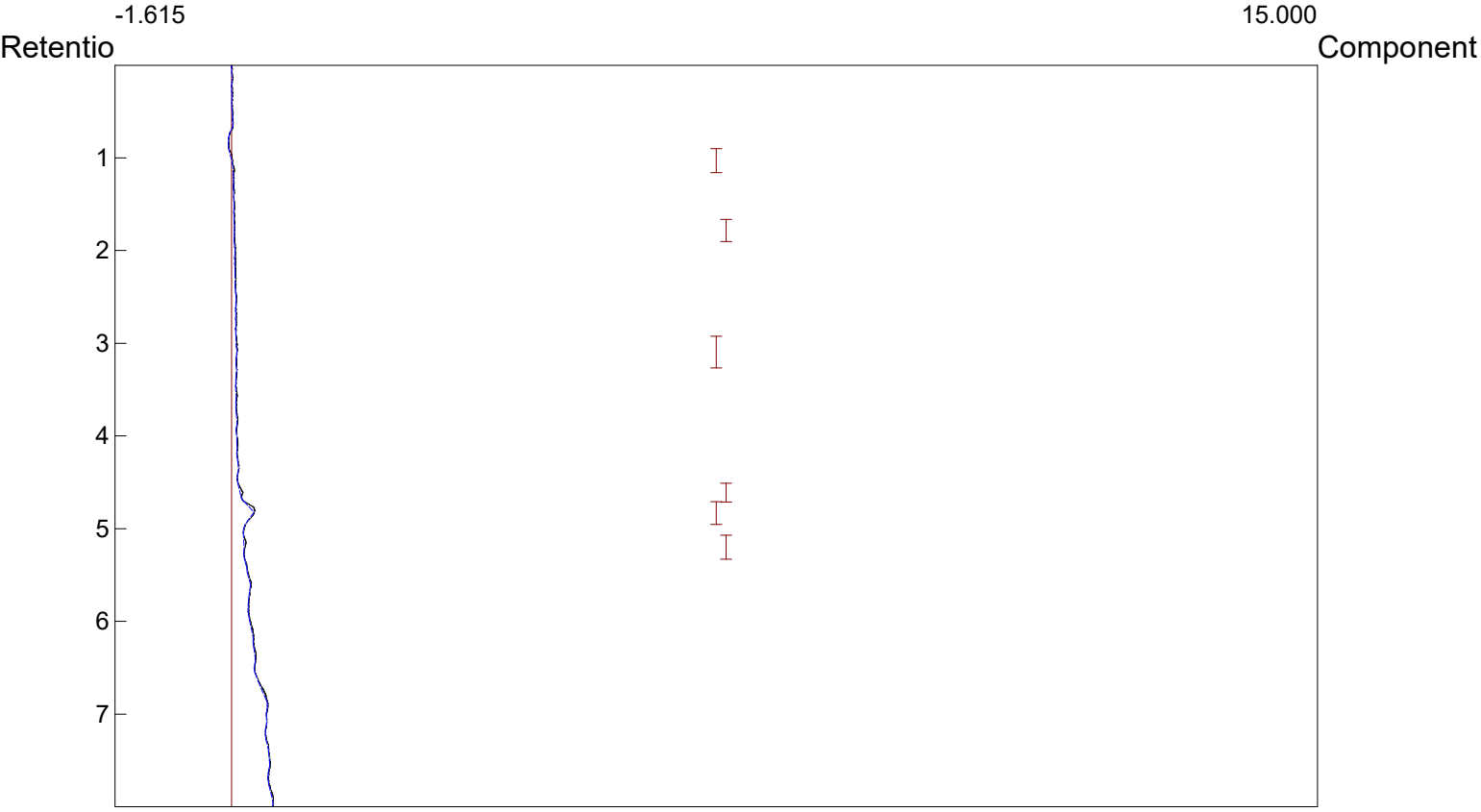


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 12:53:11
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-132 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

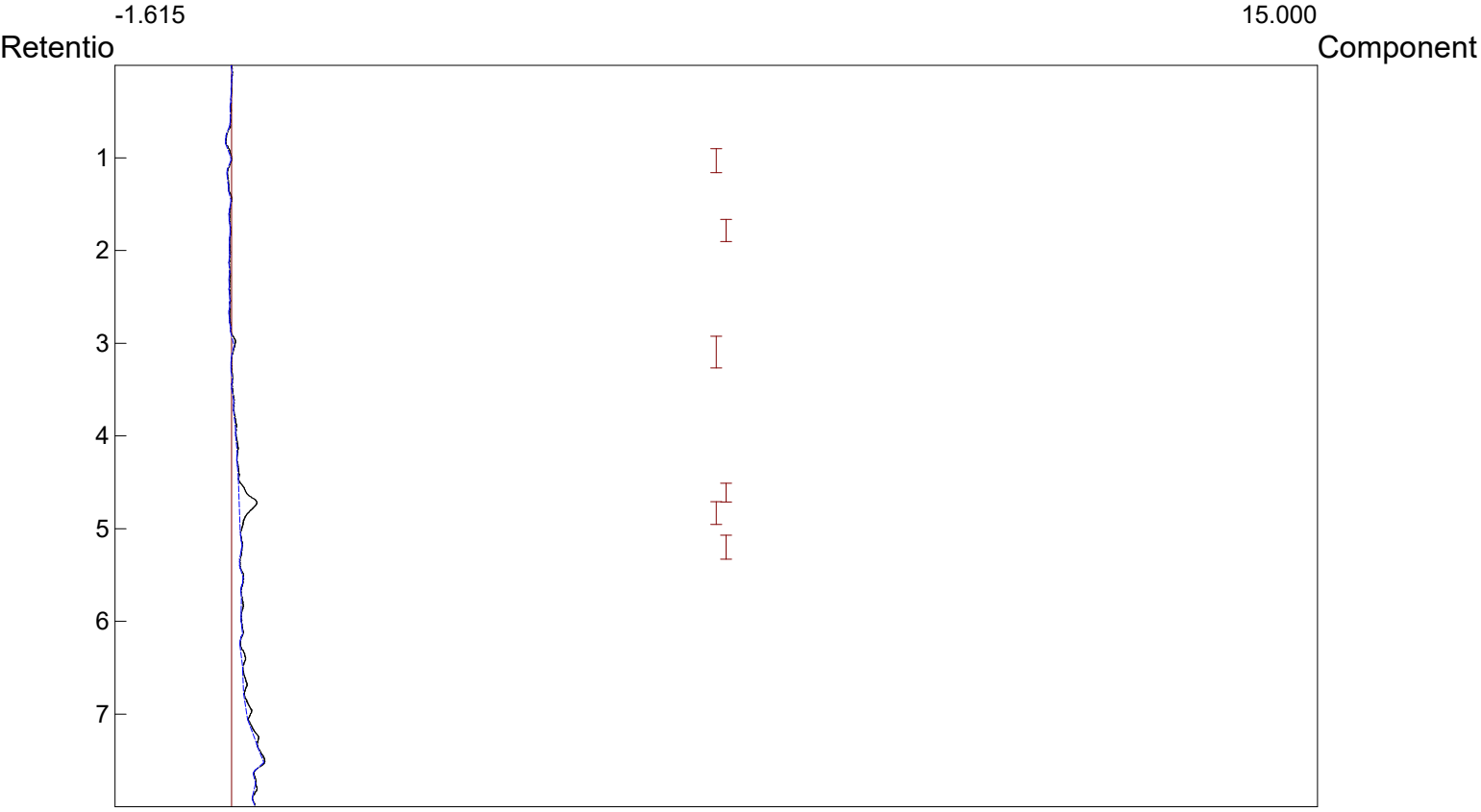


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 13:12:24
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-133 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

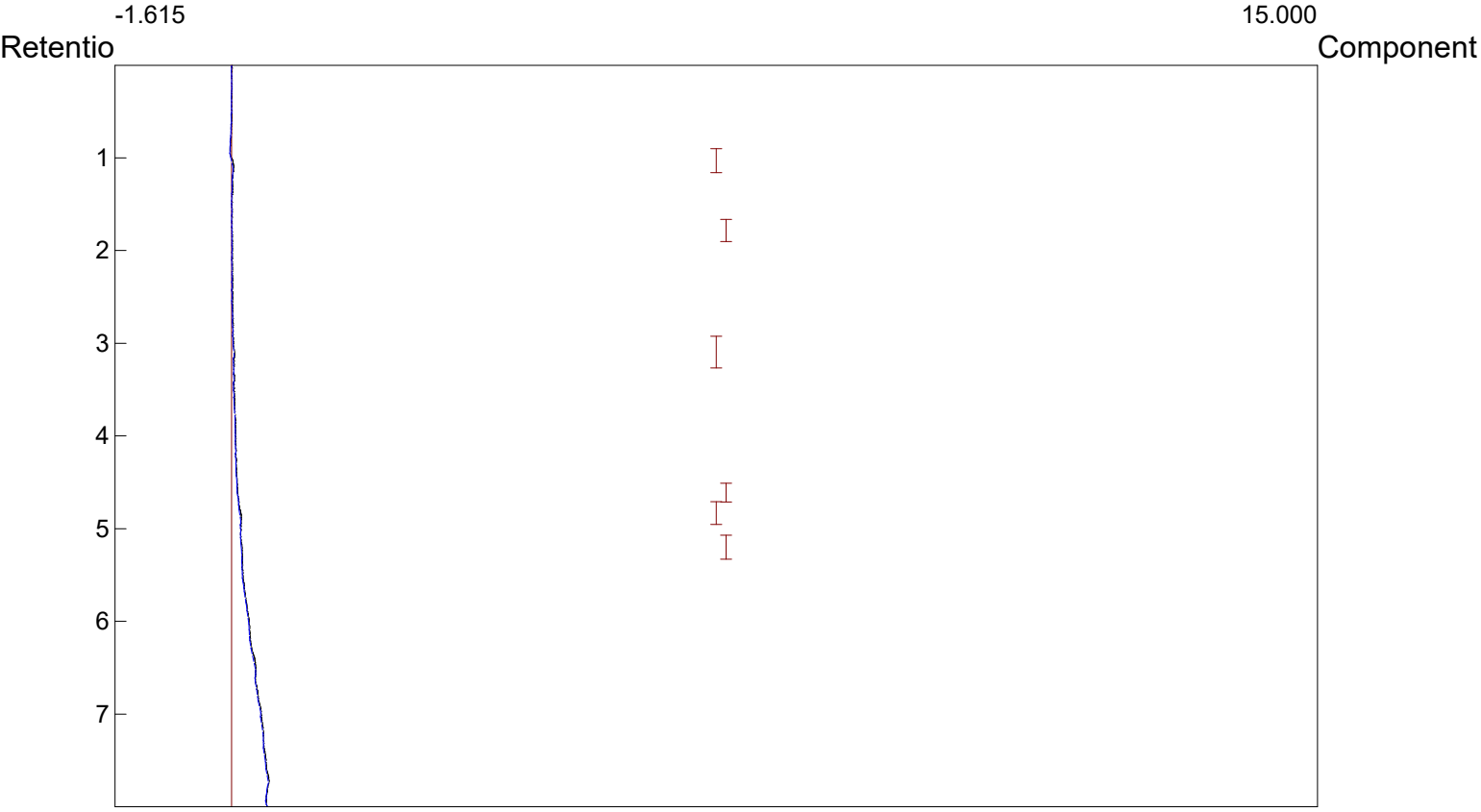


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 13:49:51
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-134 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

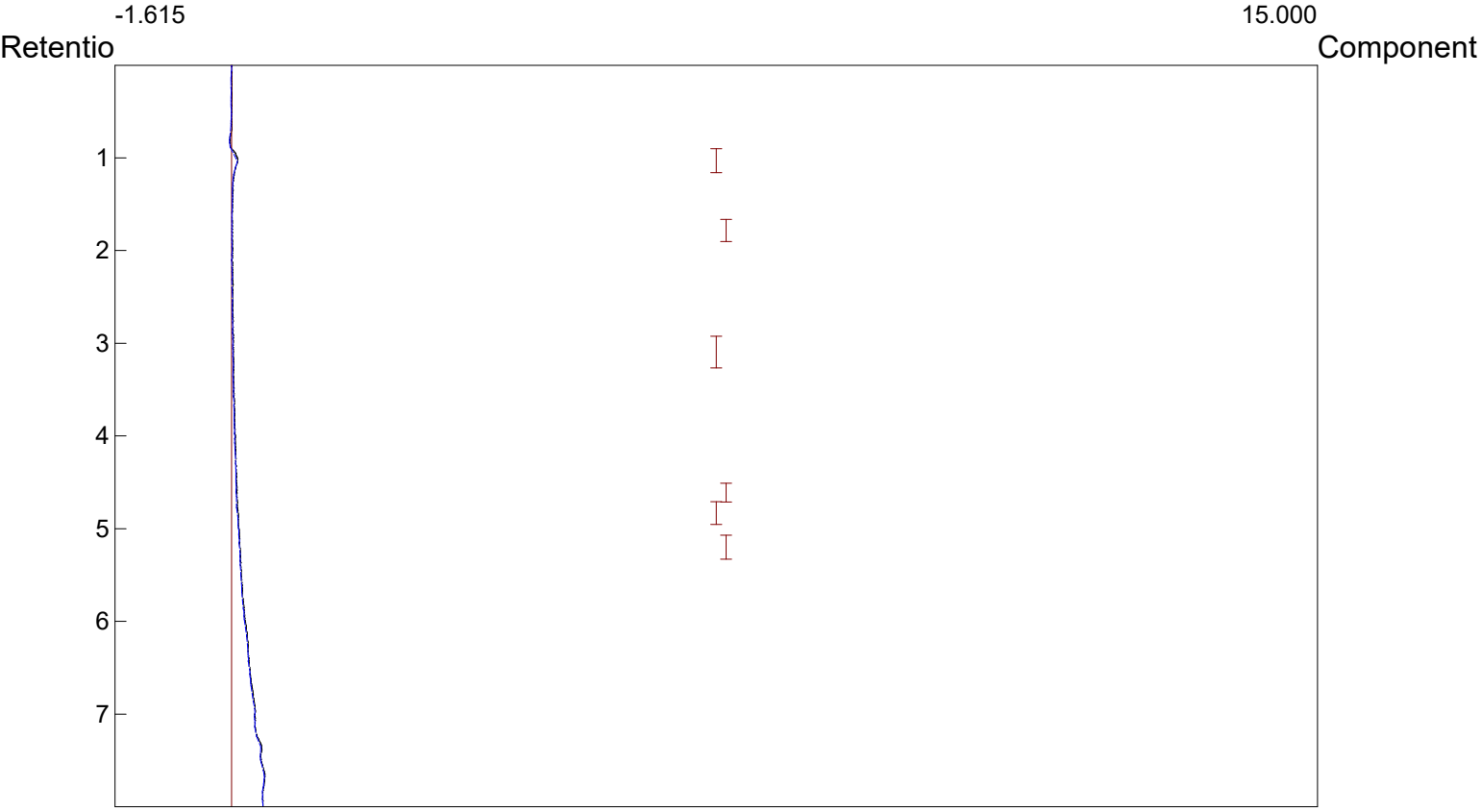


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 14:37:09
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-135 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

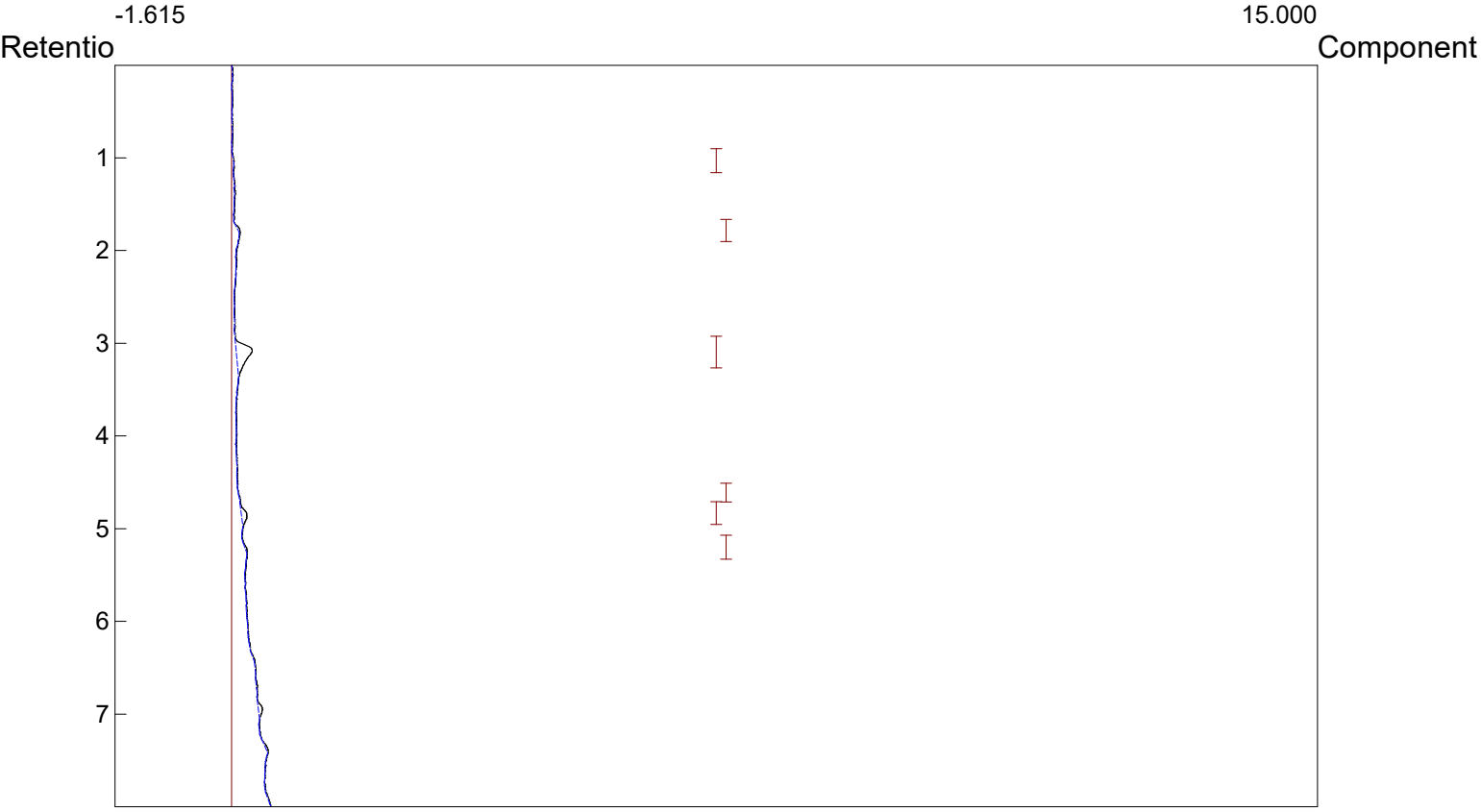


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 16:00:06
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-136 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

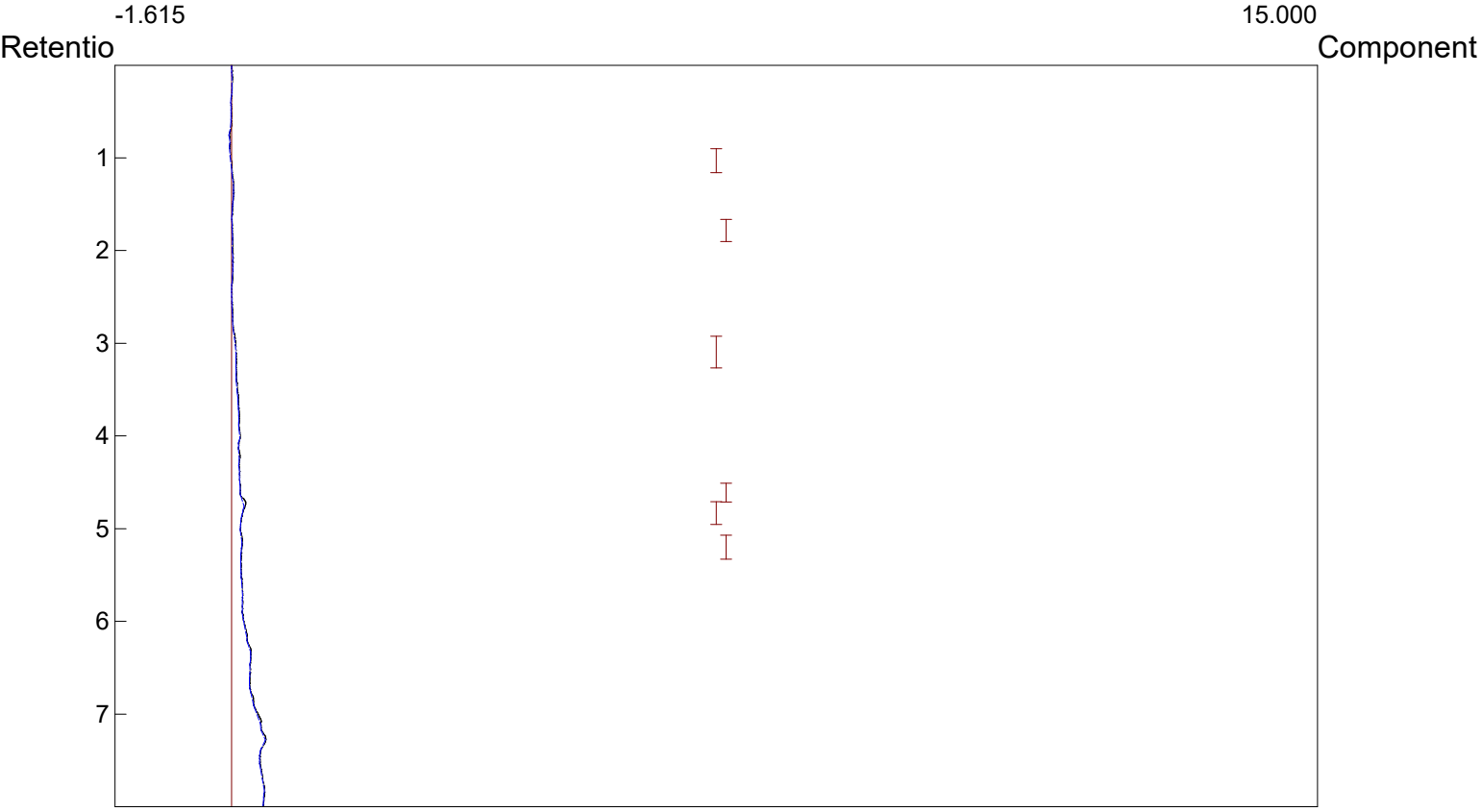


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/25/21
Analysis date: 05/25/2021 16:10:54
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-137 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

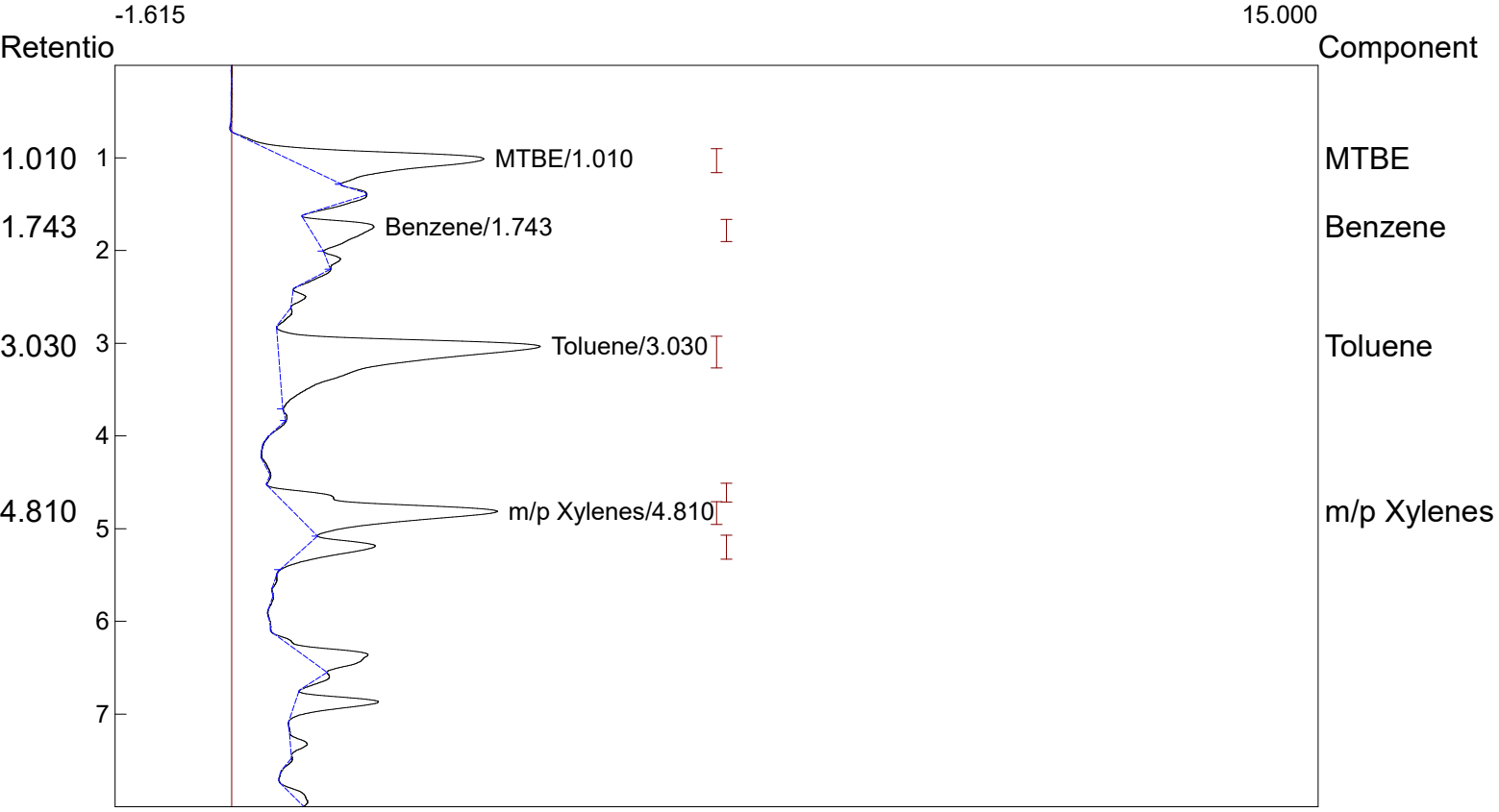


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 11:17:59
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-138 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

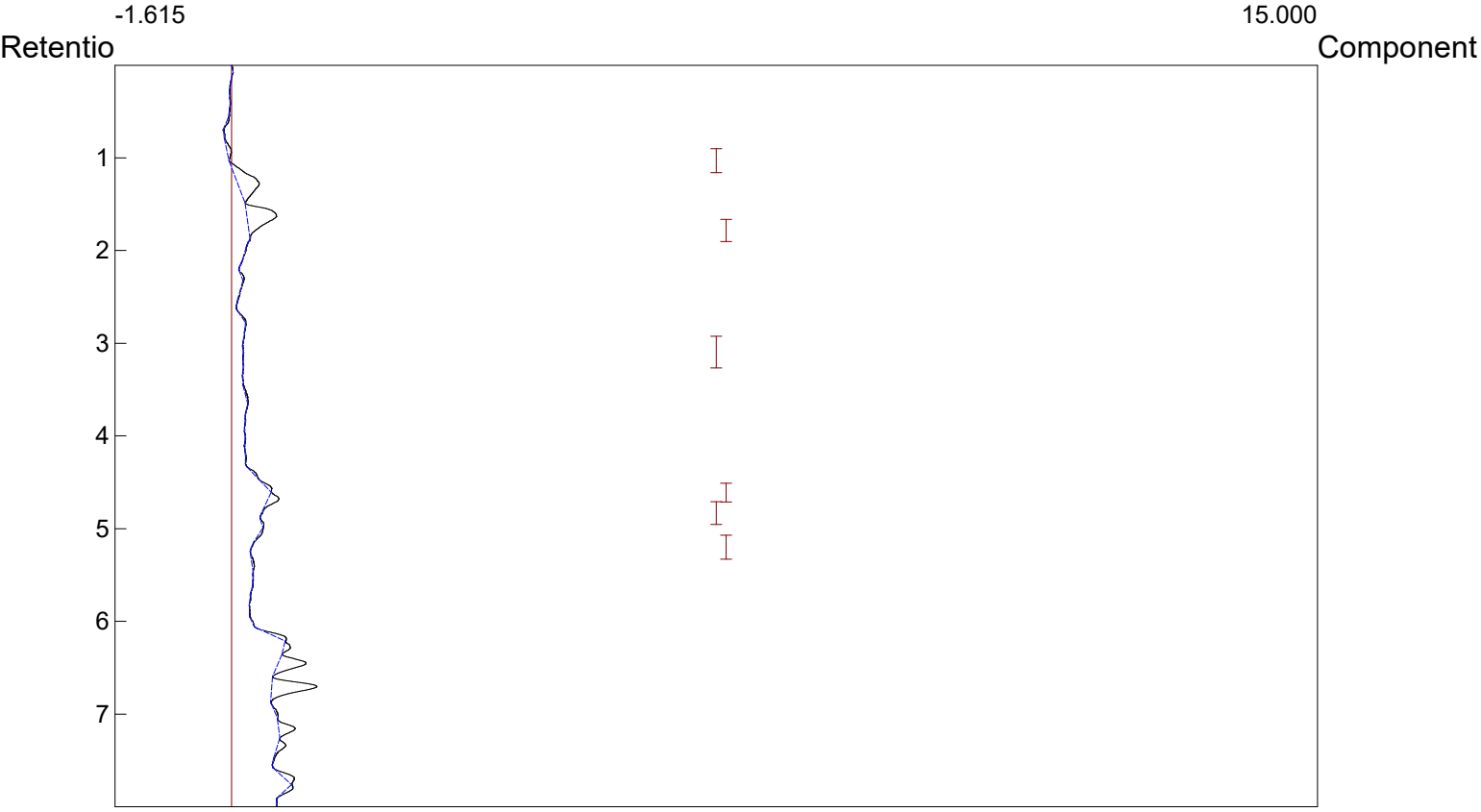


Component	Retention	Area	External	Units
MTBE	1.010	33.4472	251.2258	ppb
Benzene	1.743	11.1252	19.1104	ppb
Toluene	3.030	62.0804	127.2351	ppb
m/p Xylenes	4.810	37.1438	41.5329	ppb
		143.7966	439.1042	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 11:28:14
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-139 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

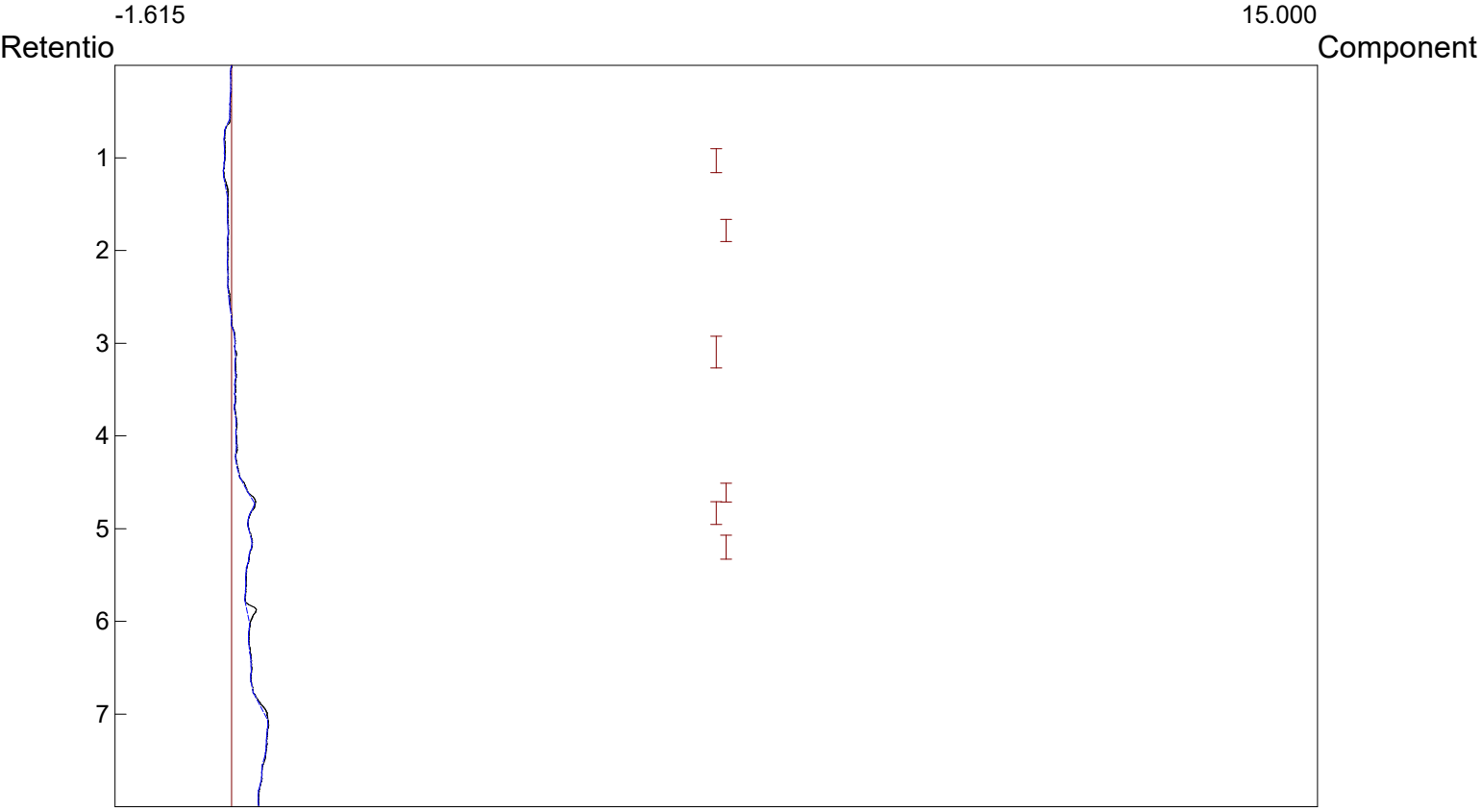


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 11:38:41
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-140 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

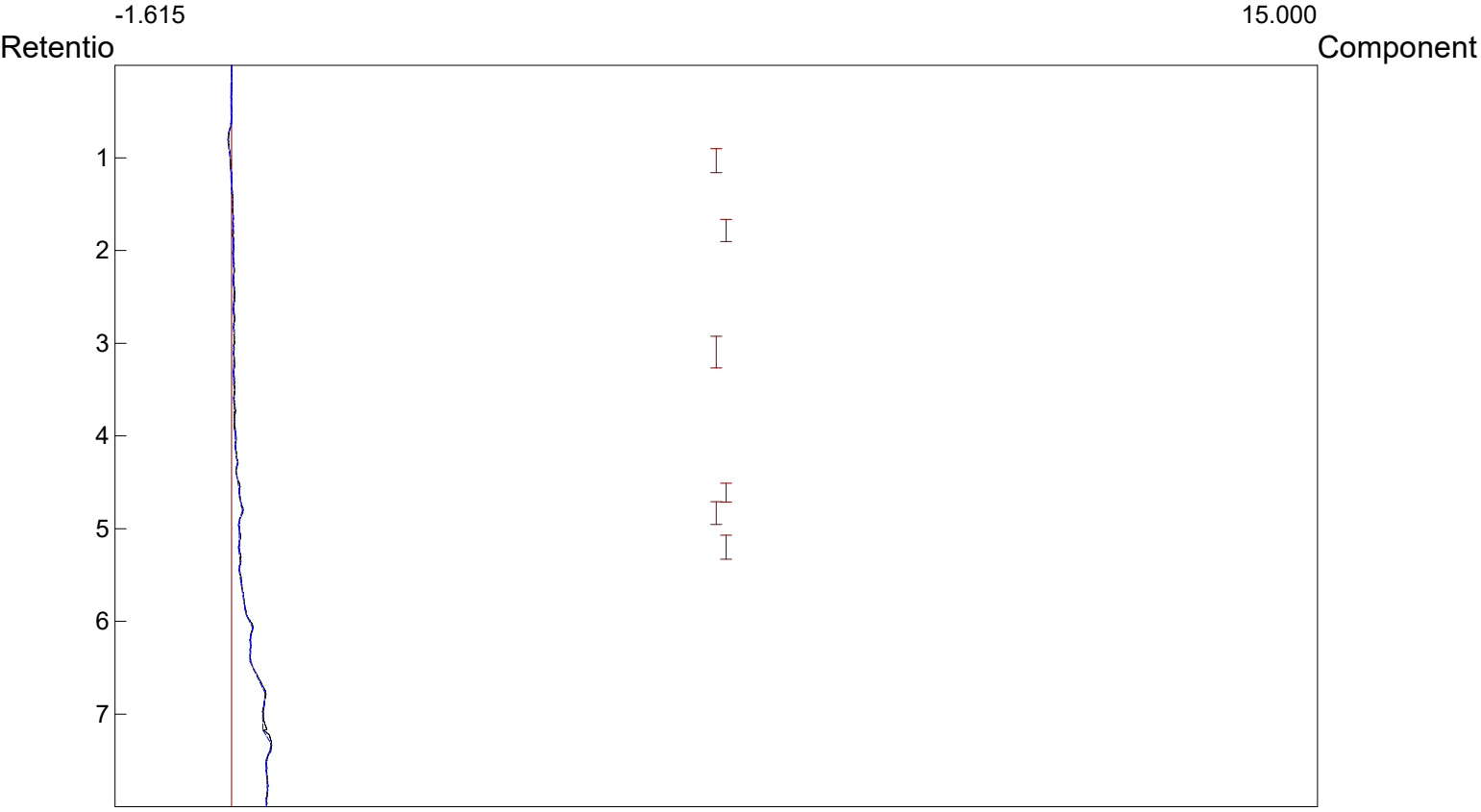


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 11:51:43
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-141 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

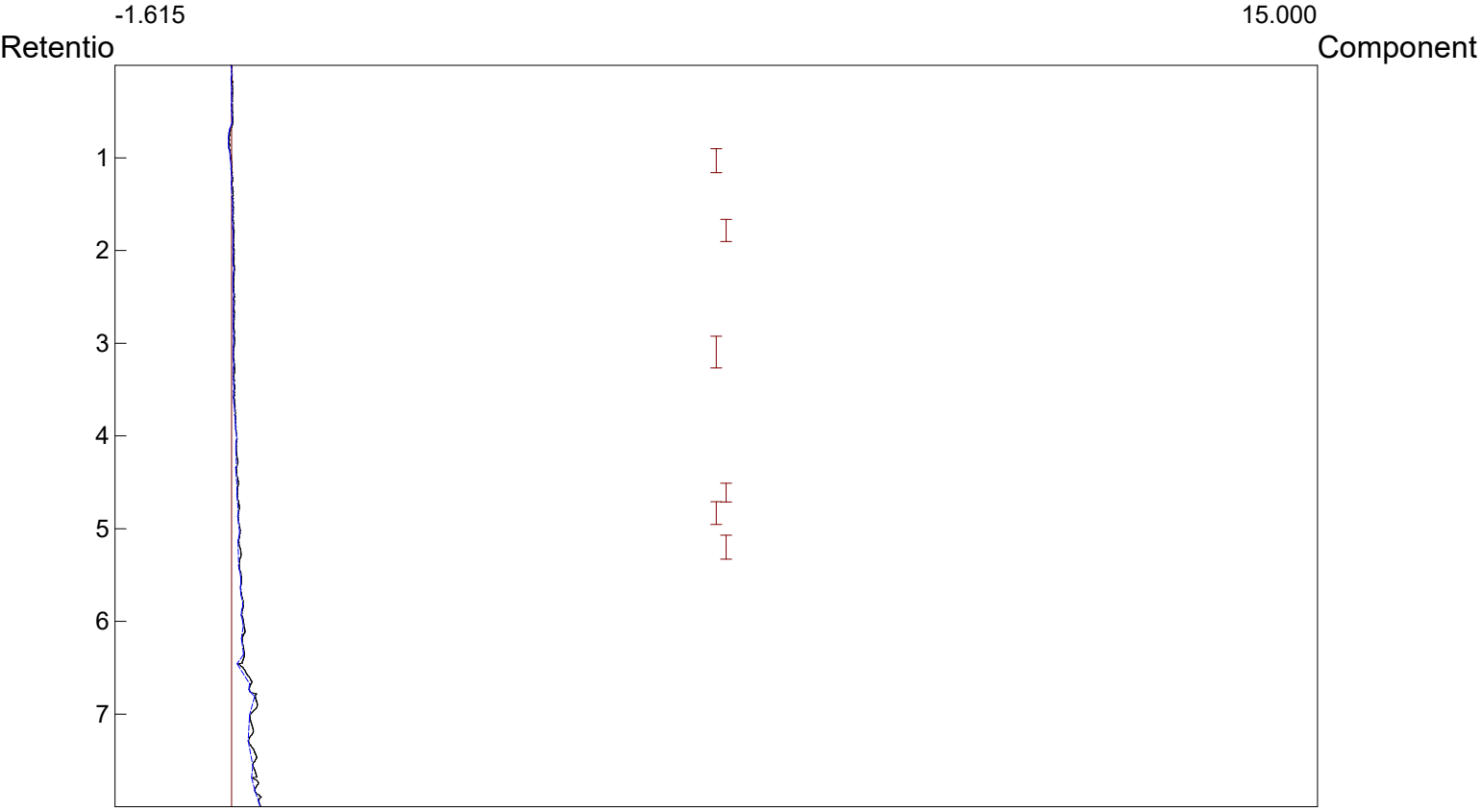


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 12:05:12
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-142 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

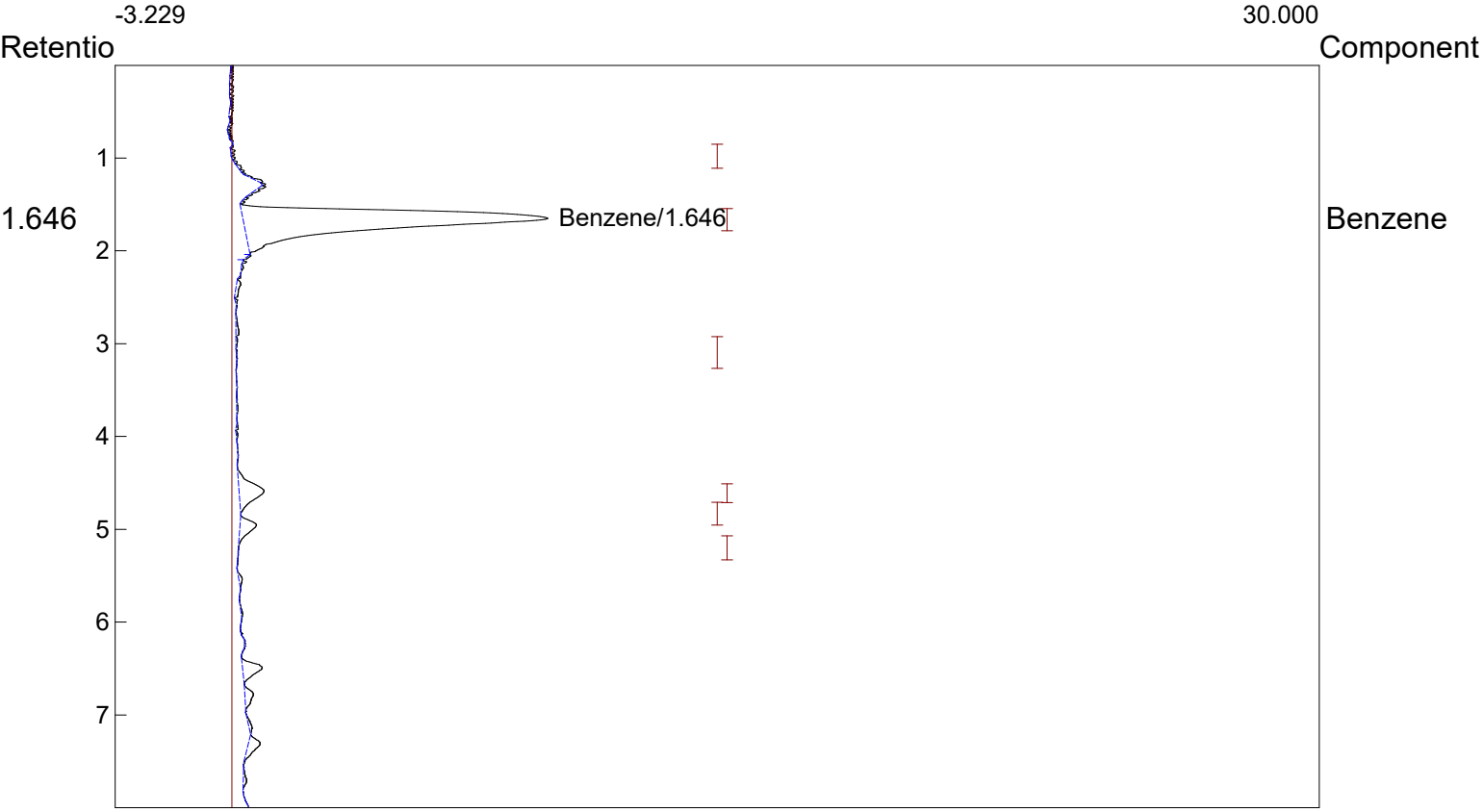


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 12:15:09
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-143 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

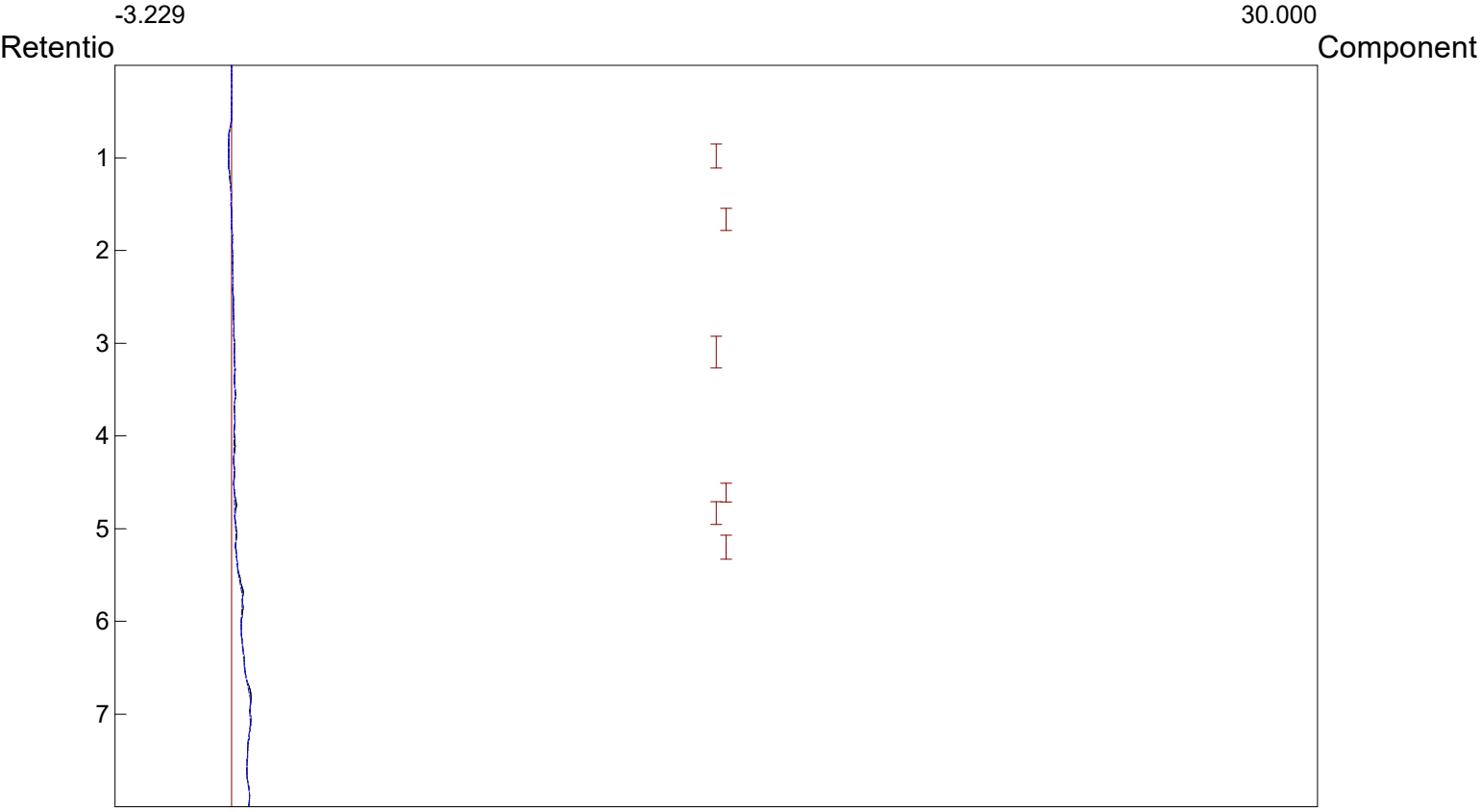


Component	Retention	Area	External	Units
Benzene	1.646	105.8282	181.7870	ppb
		105.8282	181.7870	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 12:27:06
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-144 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

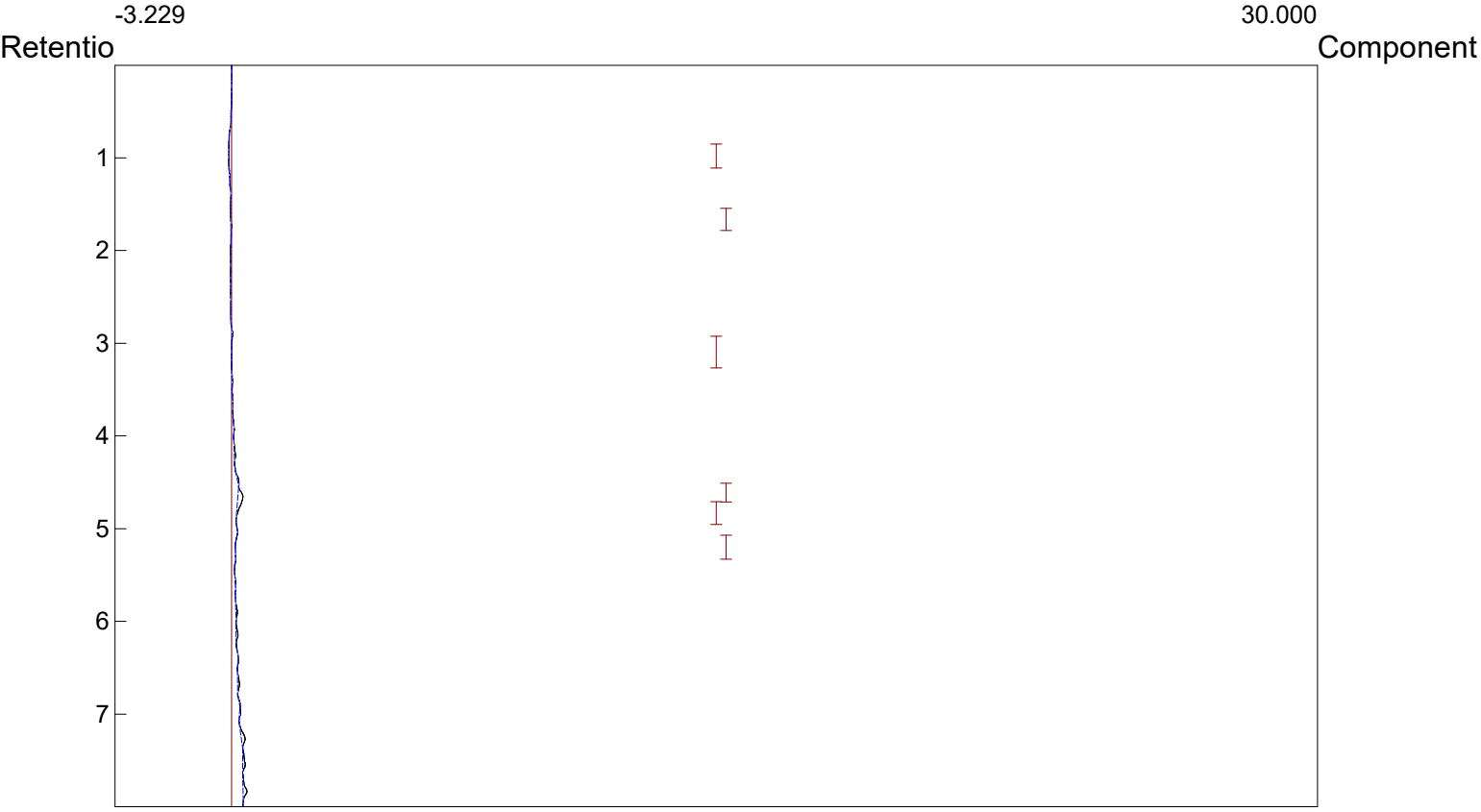


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 12:36:50
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-145 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

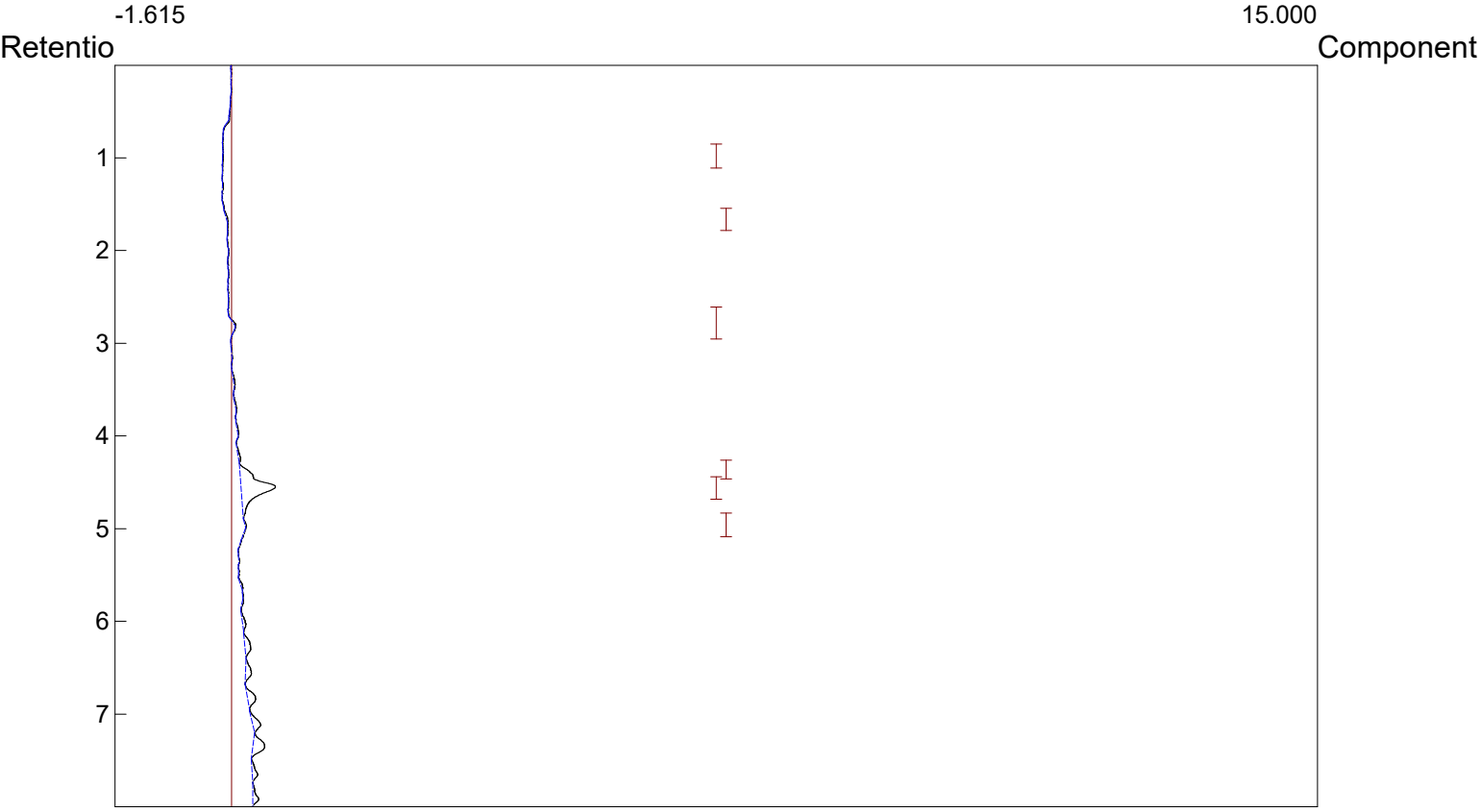


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 12:46:15
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-146 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

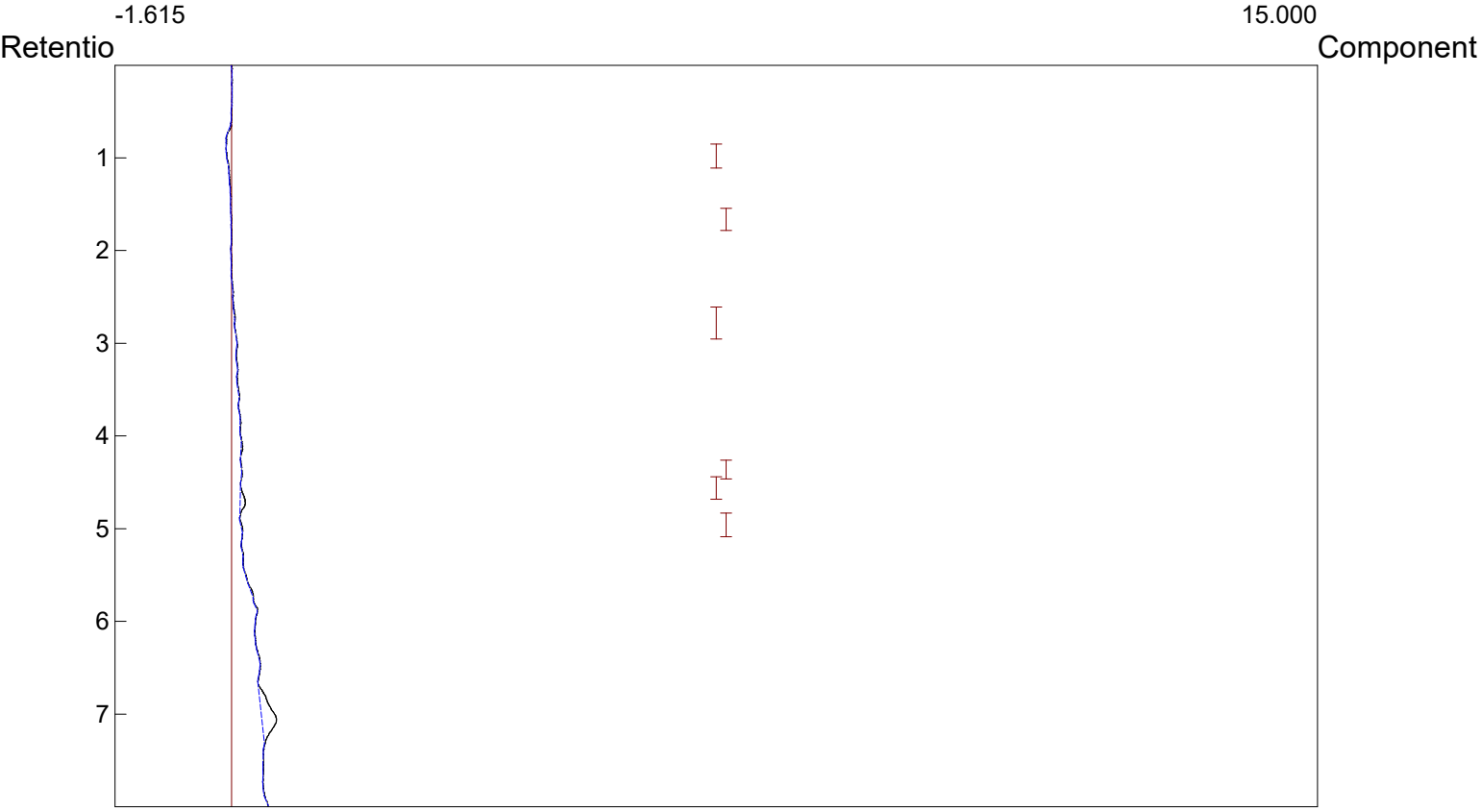


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 12:56:46
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-147 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

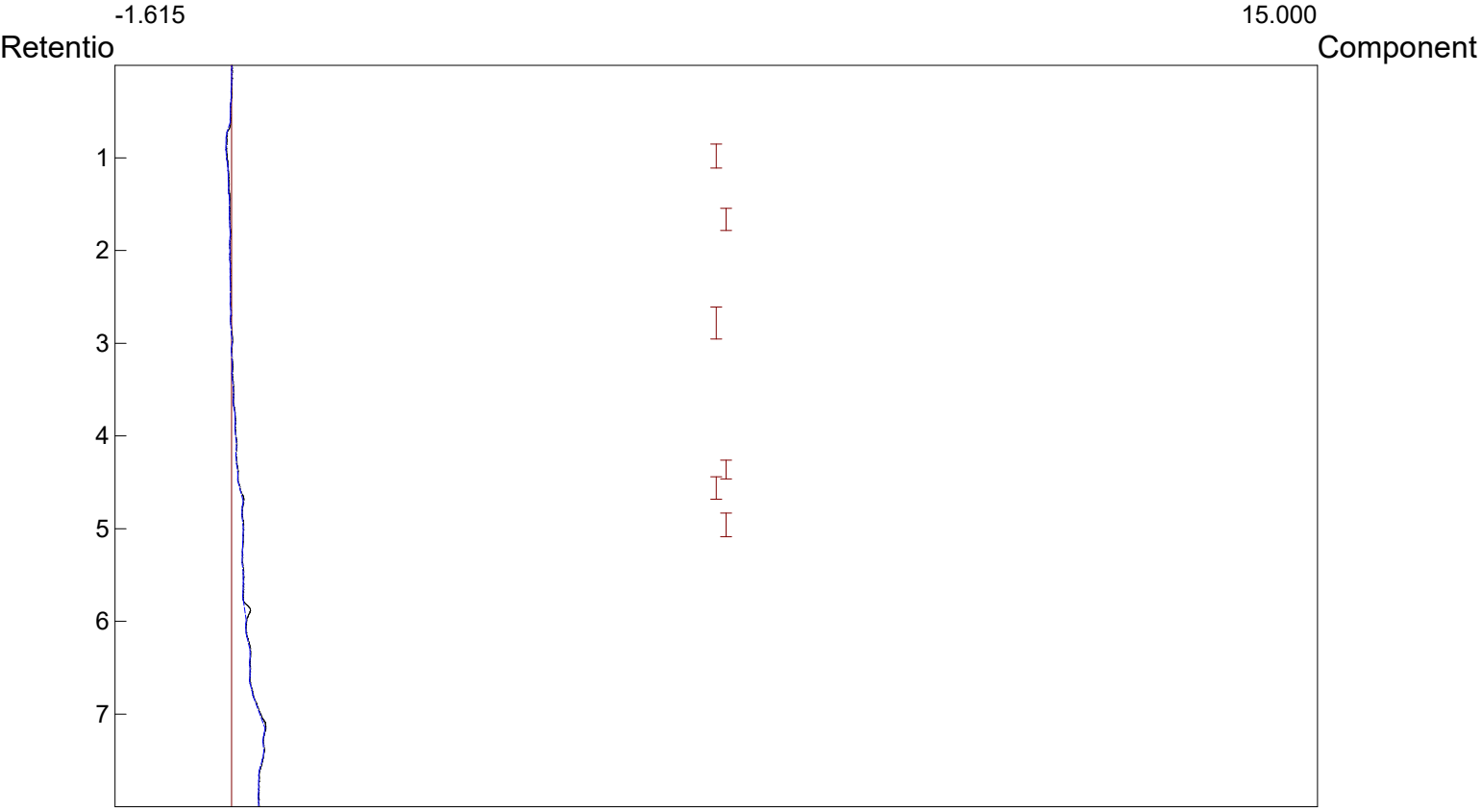


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 13:06:24
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-148 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

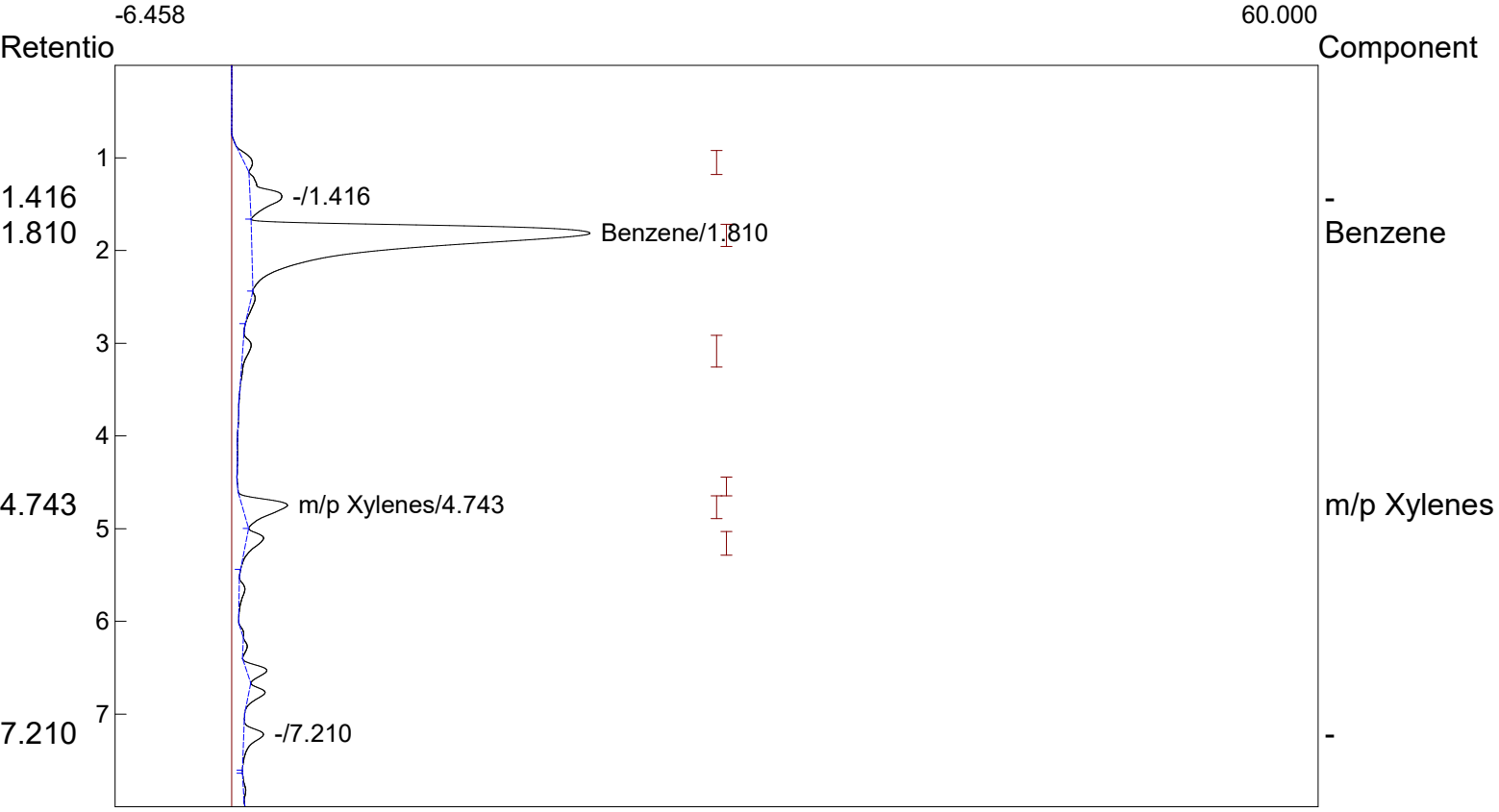


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 16:30:08
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-149 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

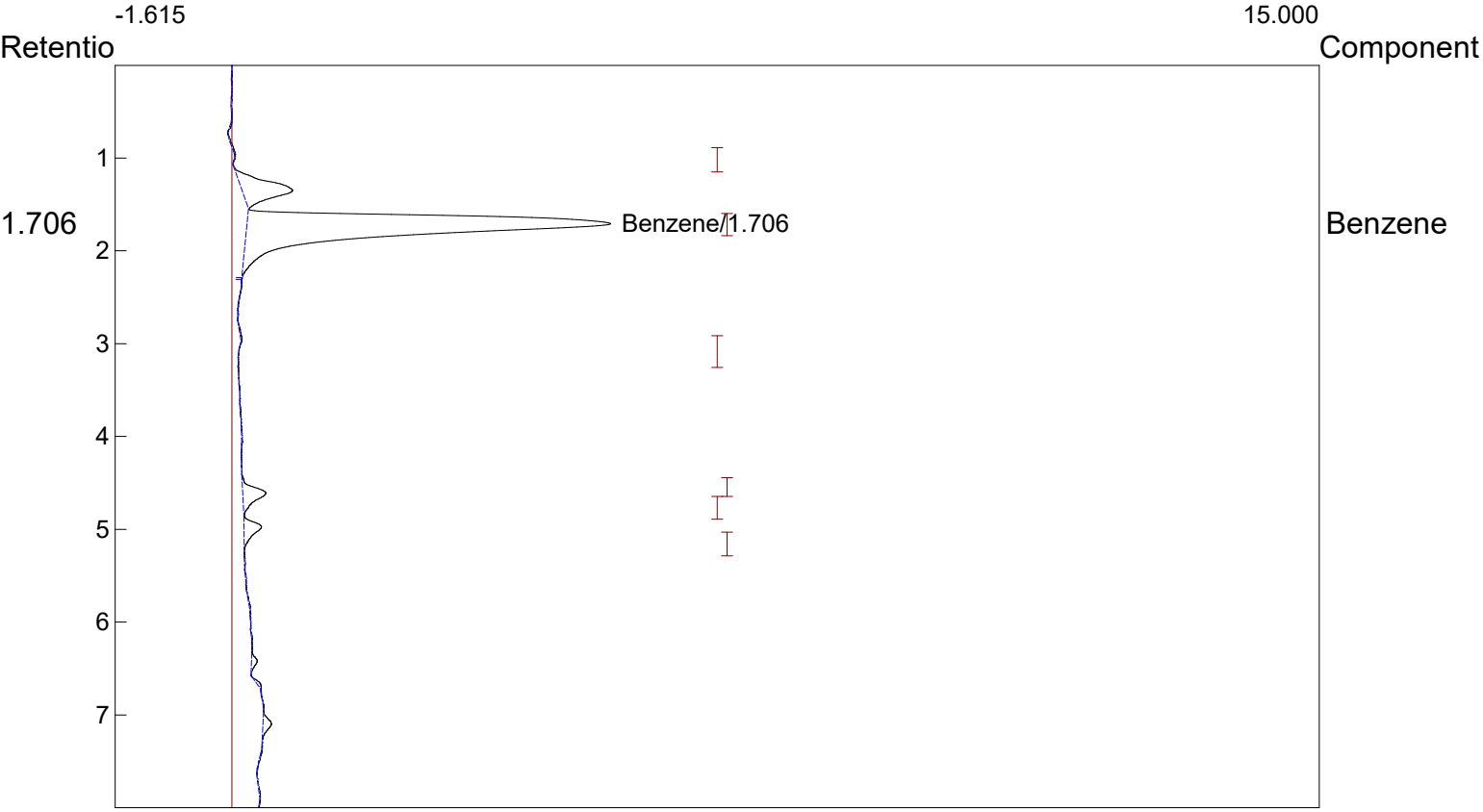


Component	Retention	Area	External	Units
Benzene	1.810	298.9350	513.4973	ppb
m/p Xylenes	4.743	27.4058	30.6442	ppb
		326.3408	544.1415	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 17:23:27
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-150 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

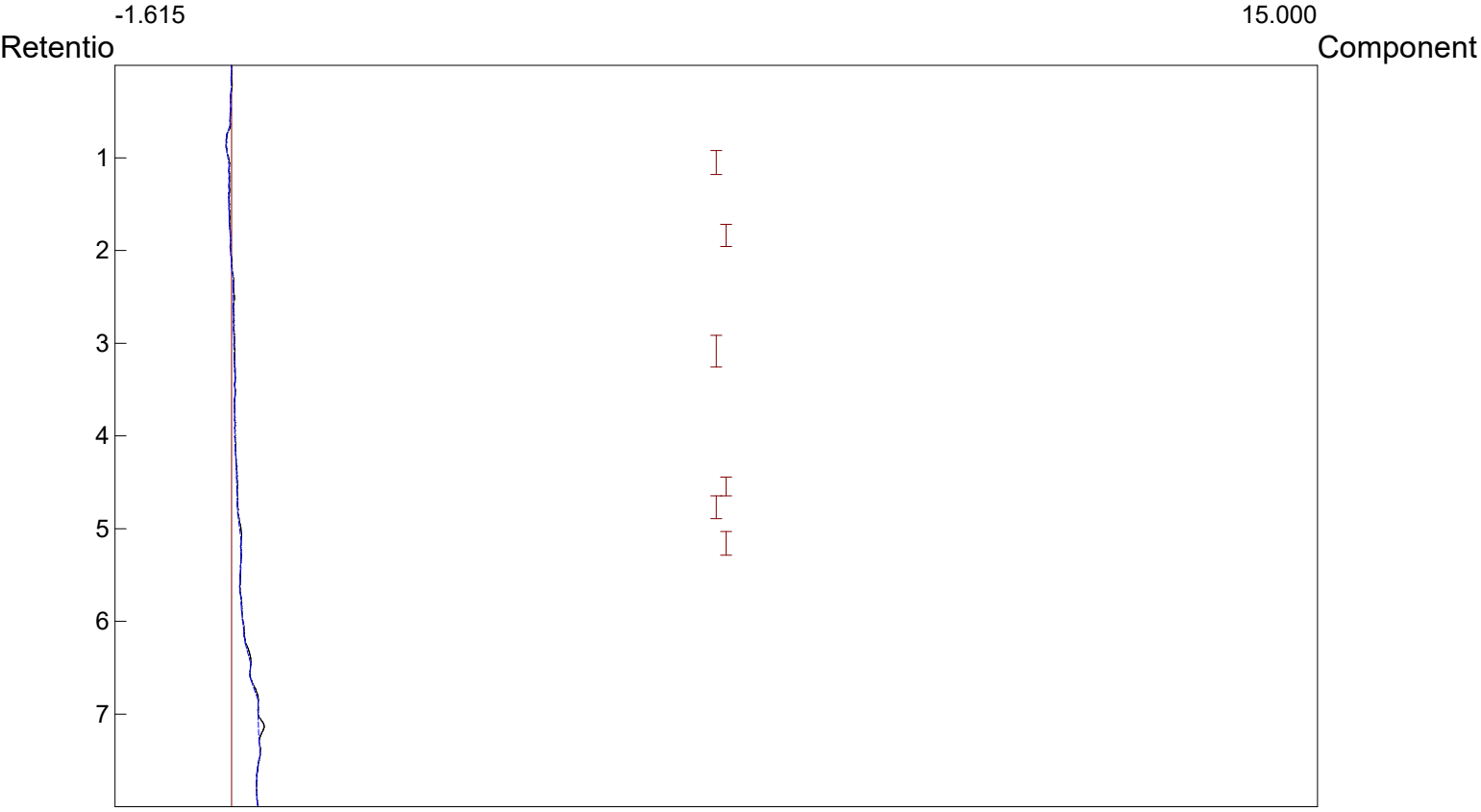


Component	Retention	Area	External	Units
Benzene	1.706	67.4038	115.7833	ppb
		67.4038	115.7833	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 16:41:52
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-151 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

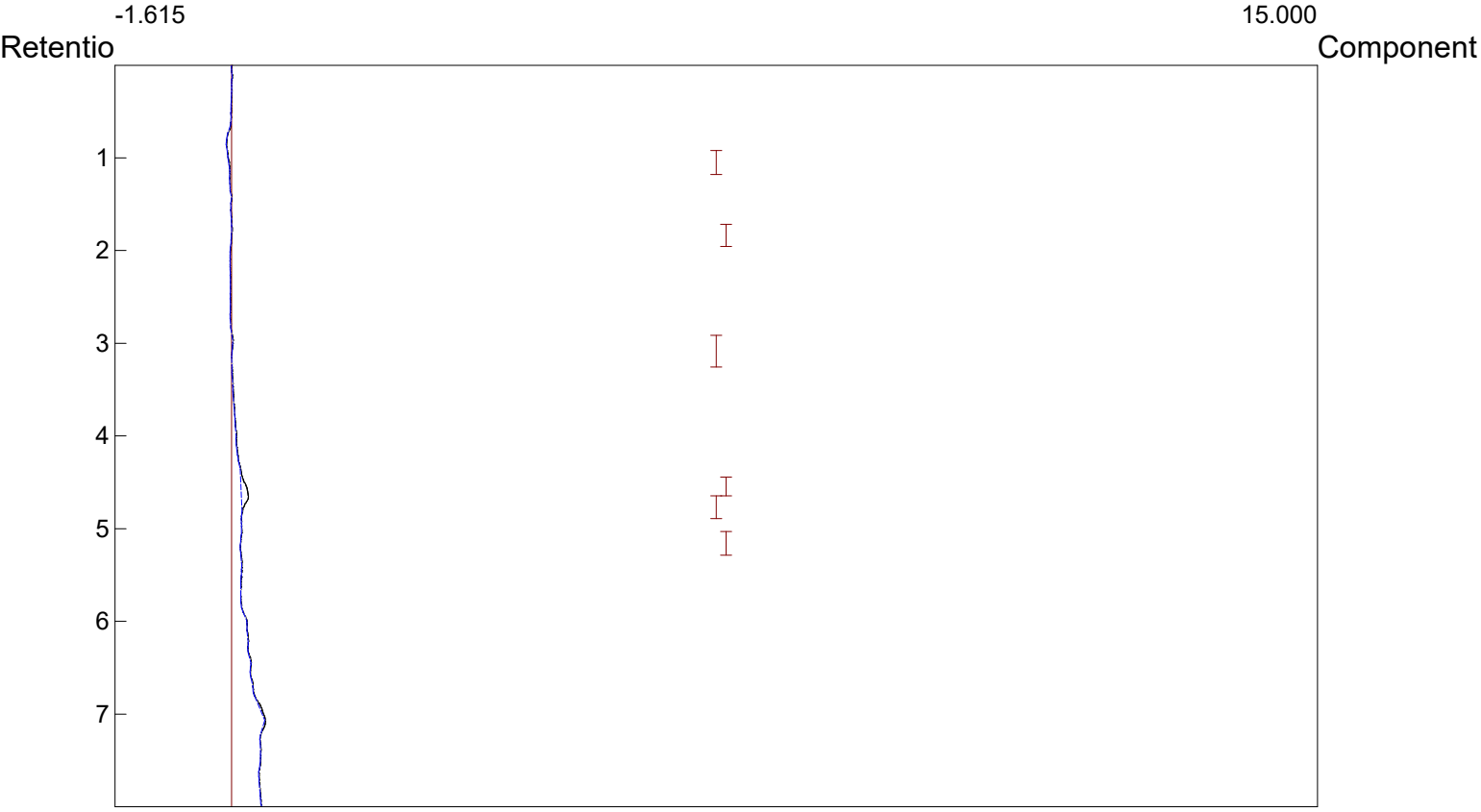


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 16:51:26
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-152 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

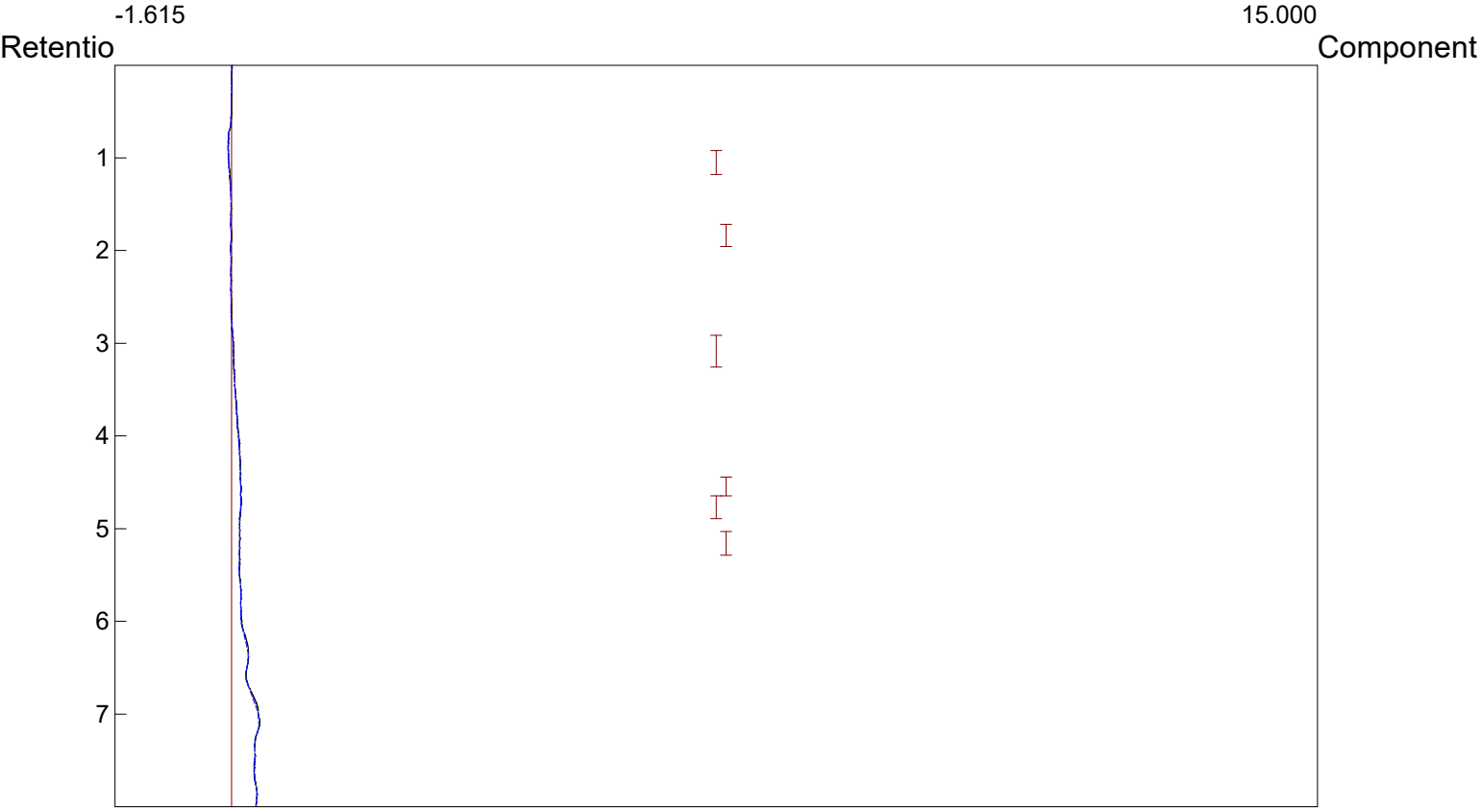


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 17:01:52
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-153 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

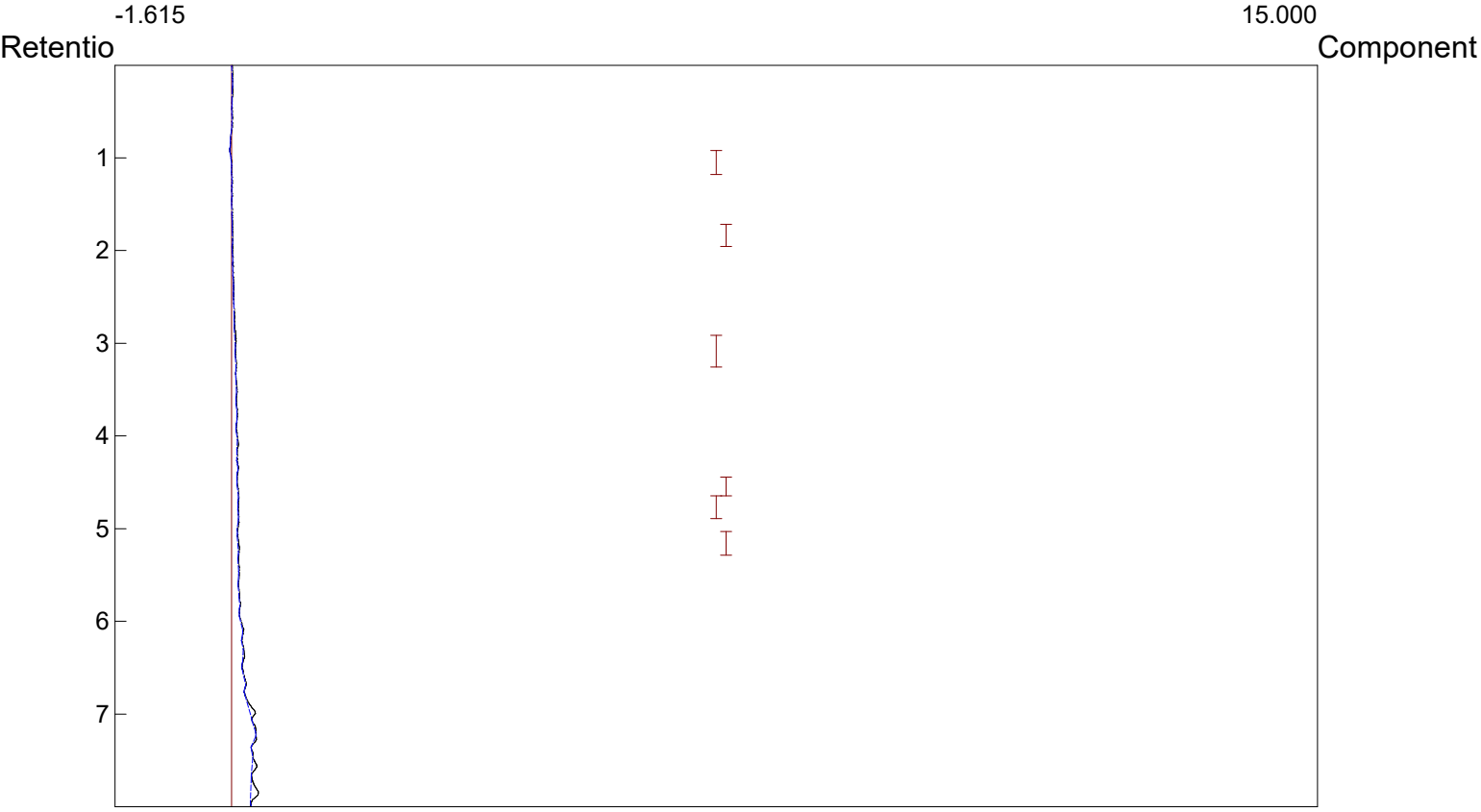


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 17:13:21
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-154 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

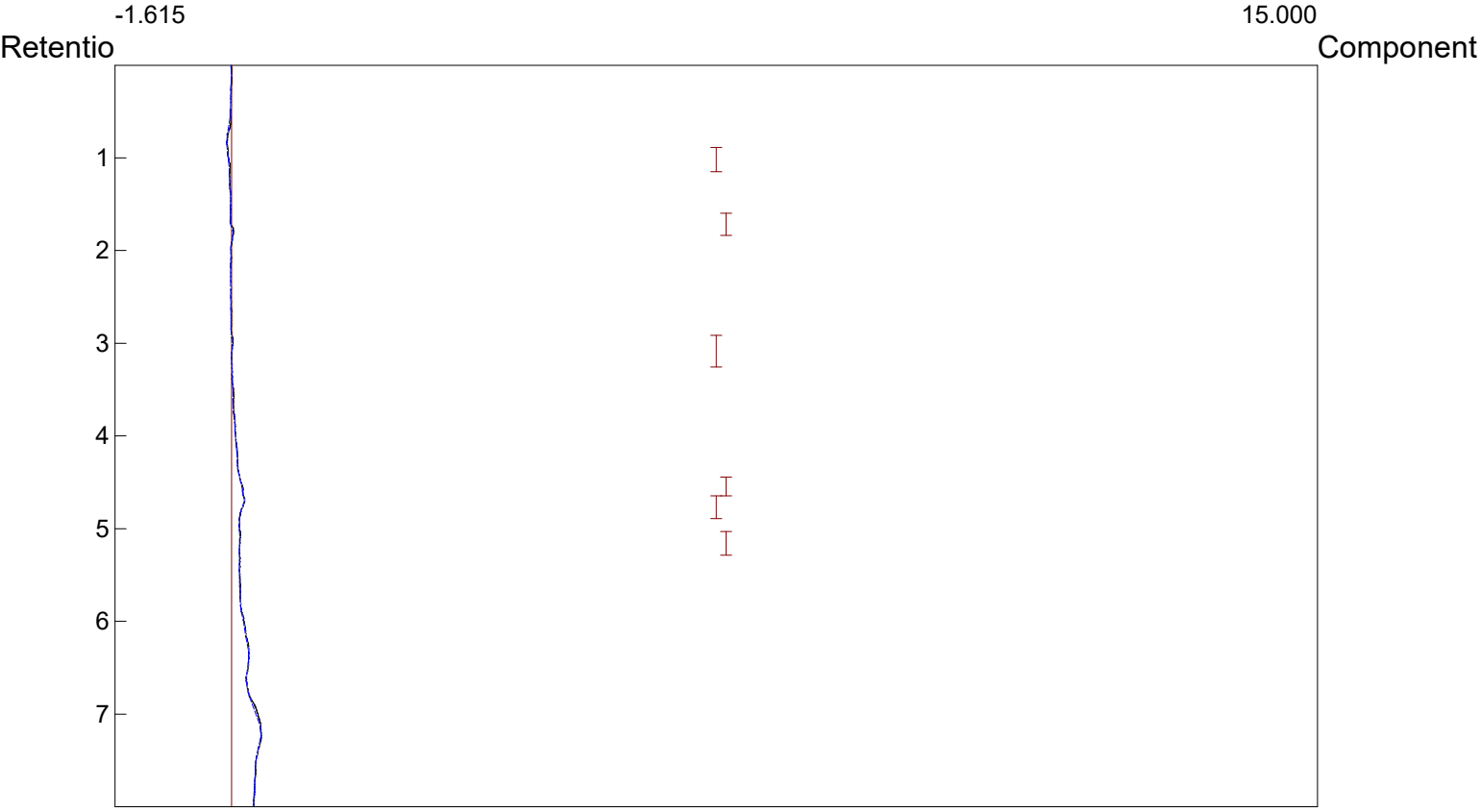


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 17:33:11
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-155 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

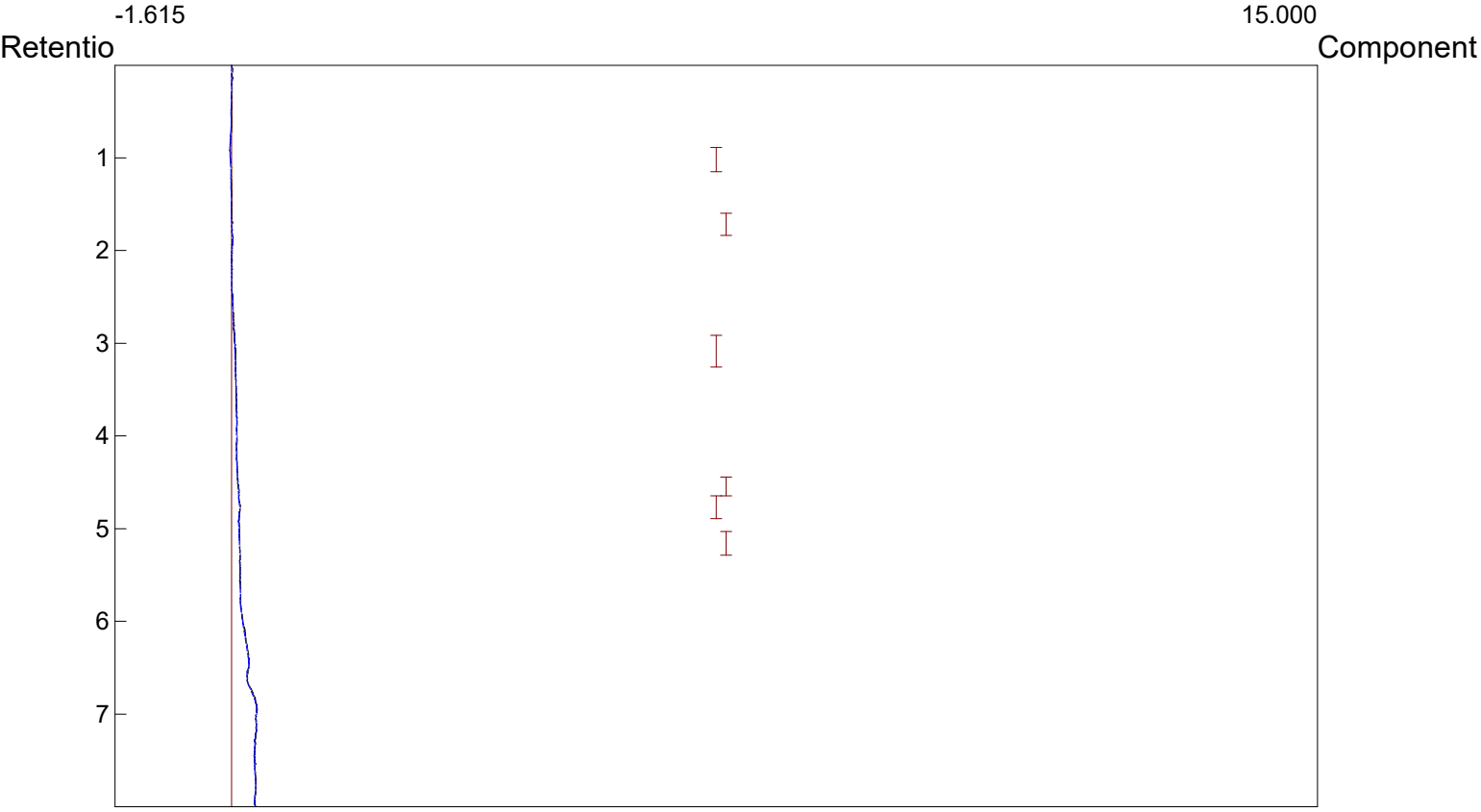


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/26/21
Analysis date: 05/26/2021 17:44:06
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-156 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

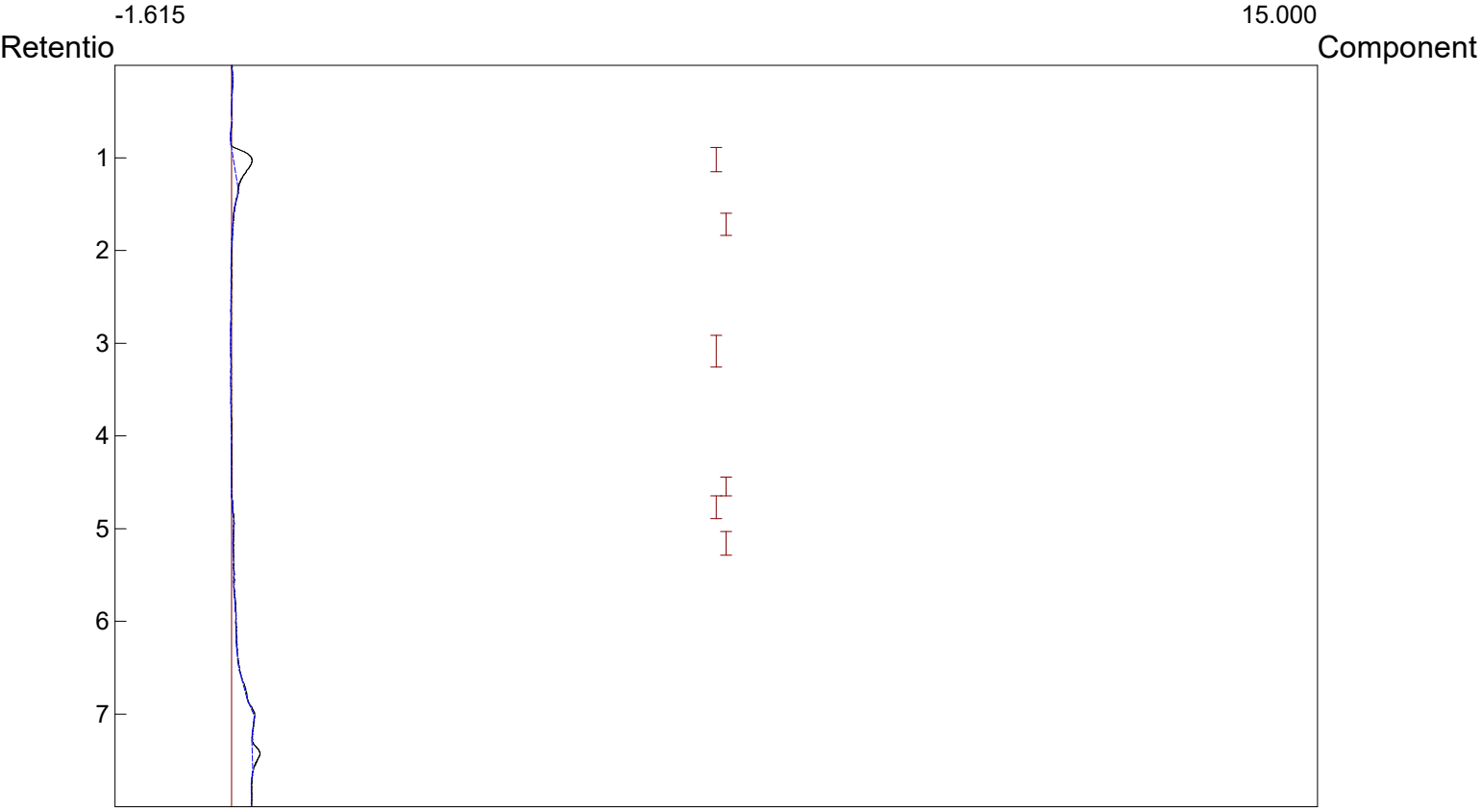


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/27/21
Analysis date: 05/27/2021 09:35:23
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-157 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

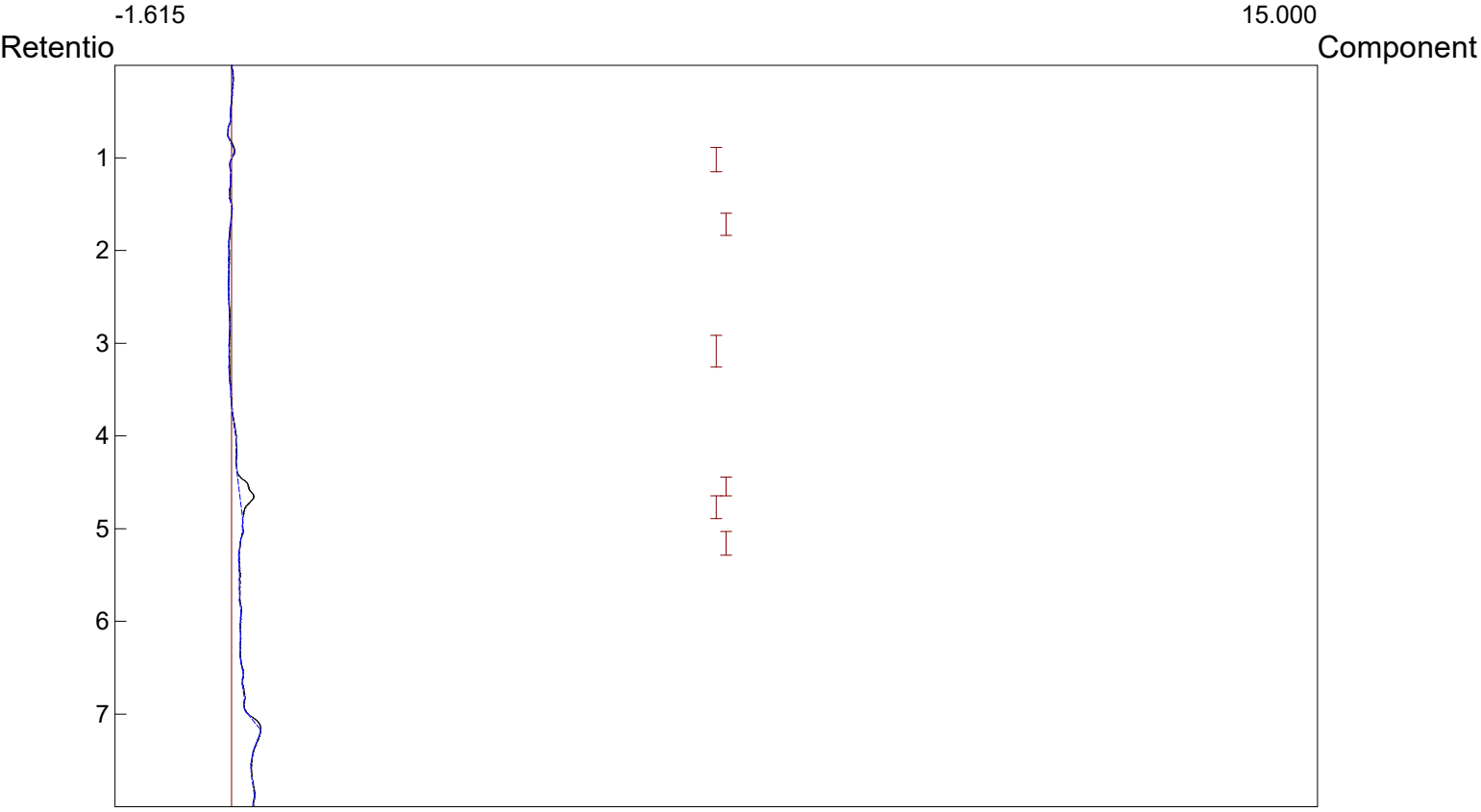


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/27/21
Analysis date: 05/27/2021 09:45:04
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-158 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

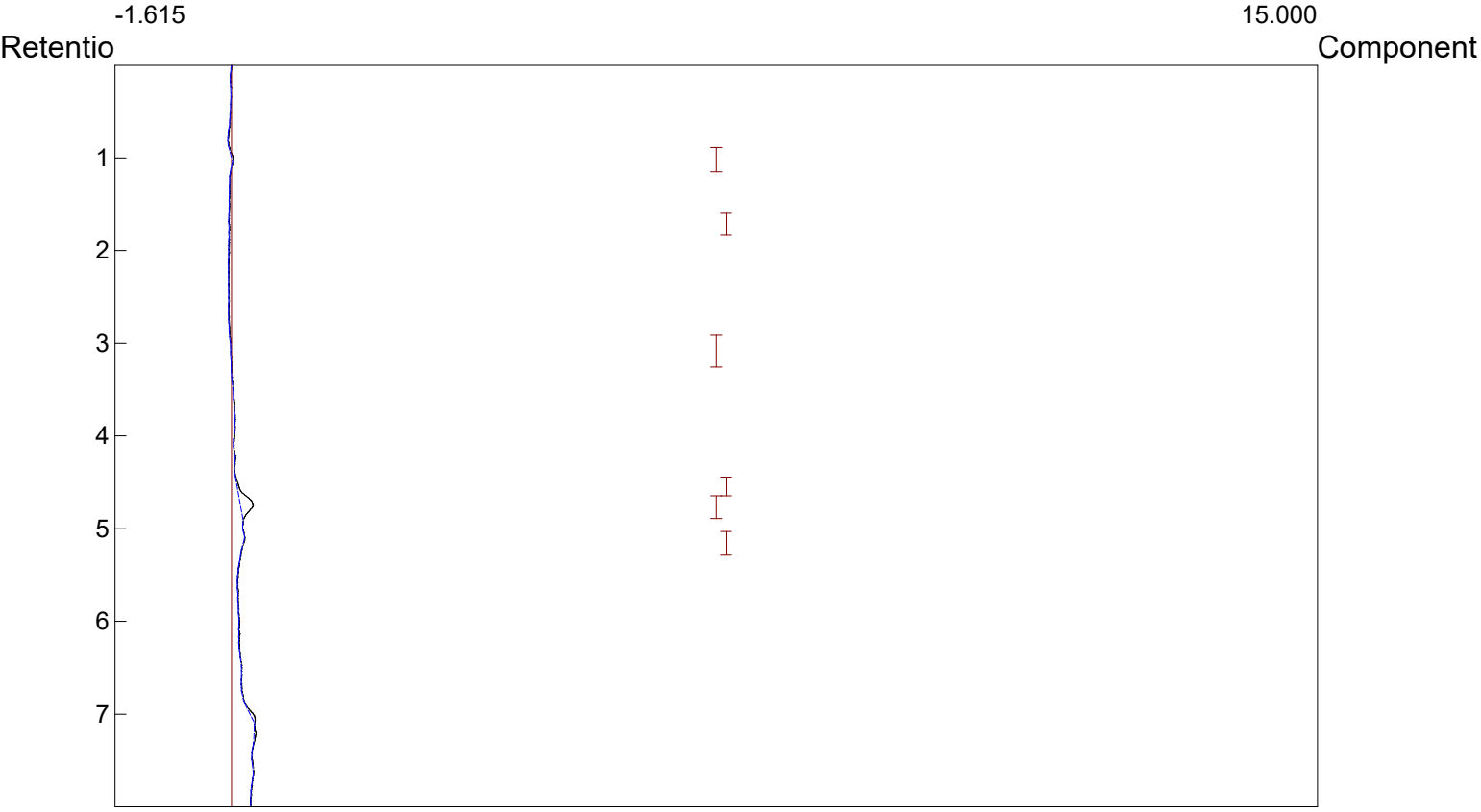


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/27/21
Analysis date: 05/27/2021 09:55:34
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-159 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

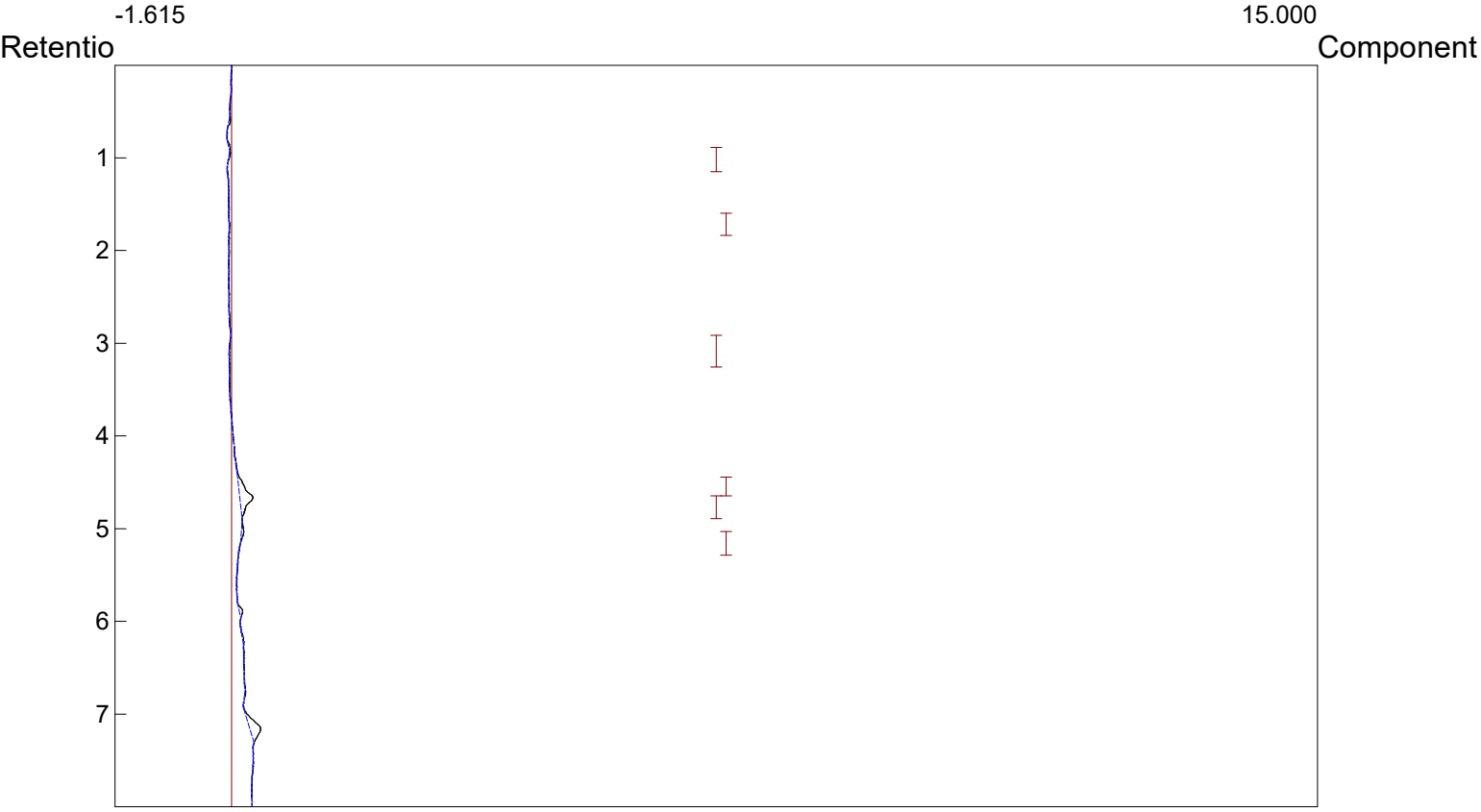


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/27/21
Analysis date: 05/27/2021 10:05:05
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-160 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

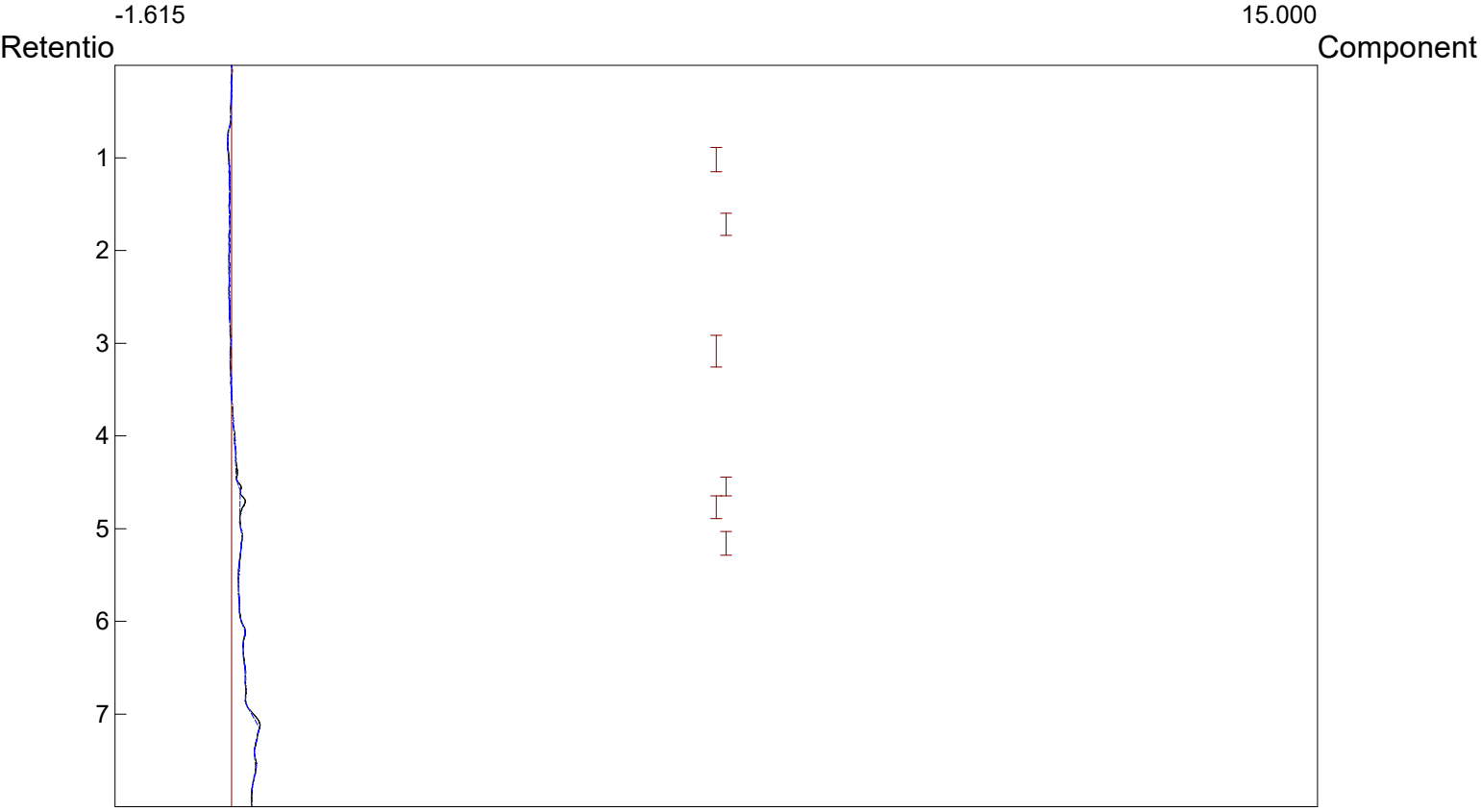


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/27/21
Analysis date: 05/27/2021 10:14:42
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-161 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp



Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 5/27/21
Analysis date: 05/27/2021 10:26:08
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-162 - Quick Pantry #19

Temperature program:

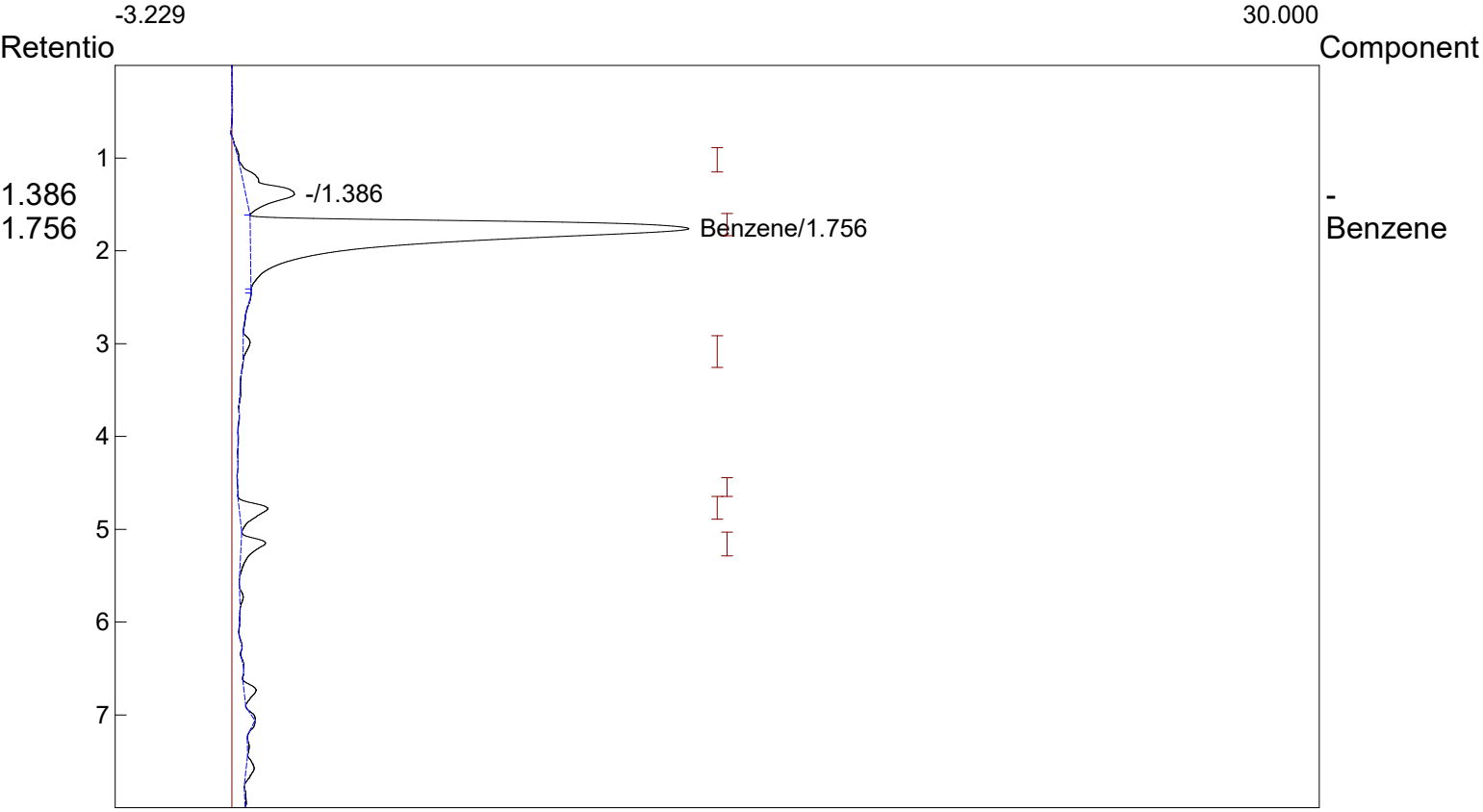
Init temp	Hold	Ramp	Final temp

Component	Retention	Area	External	Units
Benzene	1.763	16.2088	27.8428	ppb
		16.2088	27.8428	

Lab name: KLM Environmental, LLC
Collected: 5/27/21
Analysis date: 05/27/2021 10:37:44
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-163 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

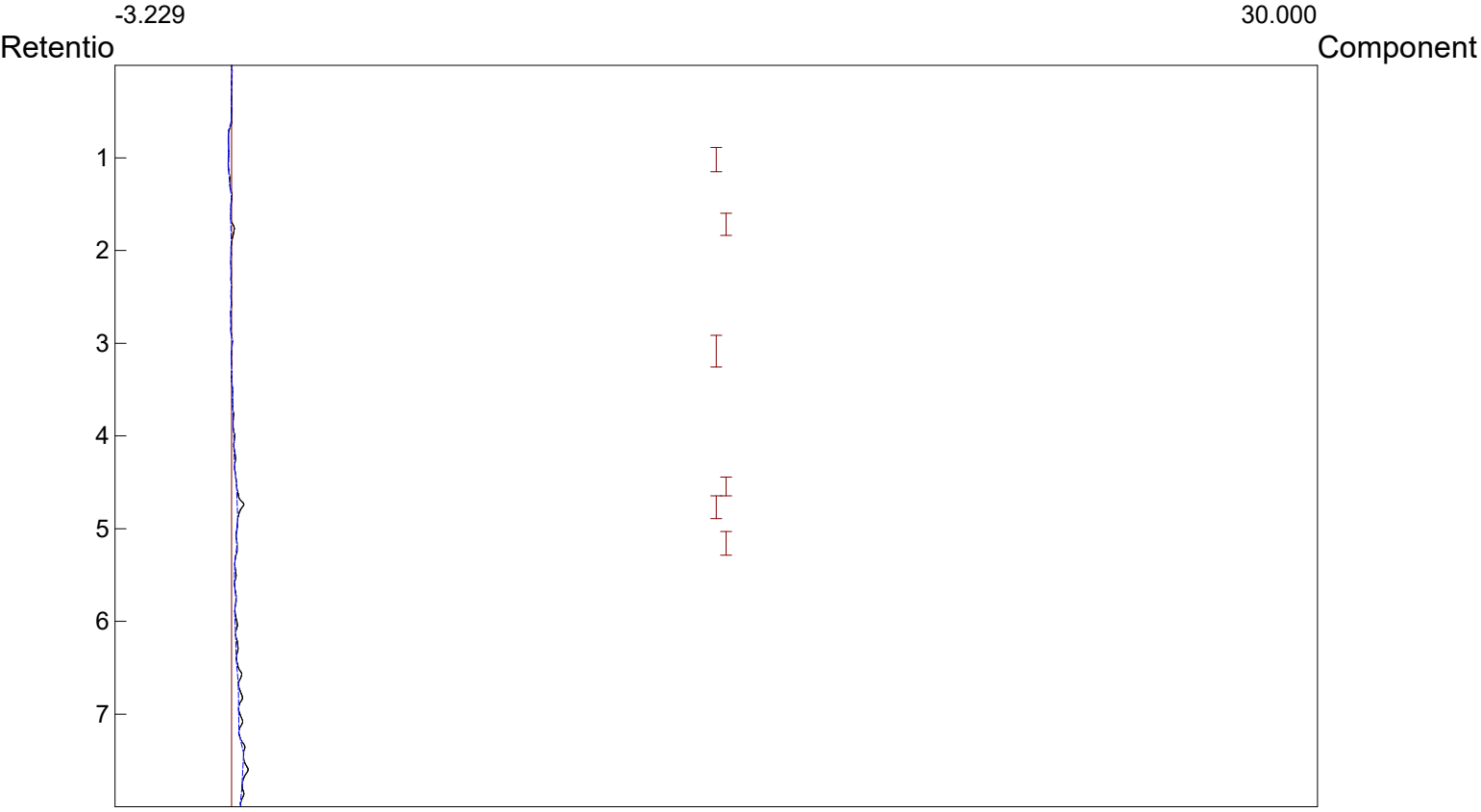


Component	Retention	Area	External	Units
Benzene	1.756	178.6546	306.8849	ppb
		178.6546	306.8849	

Lab name: KLM Environmental, LLC
Collected: 5/27/21
Analysis date: 05/27/2021 10:47:27
Method: Headspace Injection
Description: PID - Channel 2
Column: RESTEK 15METER MXT-1
Carrier: HELIUM AT 5 PSI
Sample: GP-164 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp

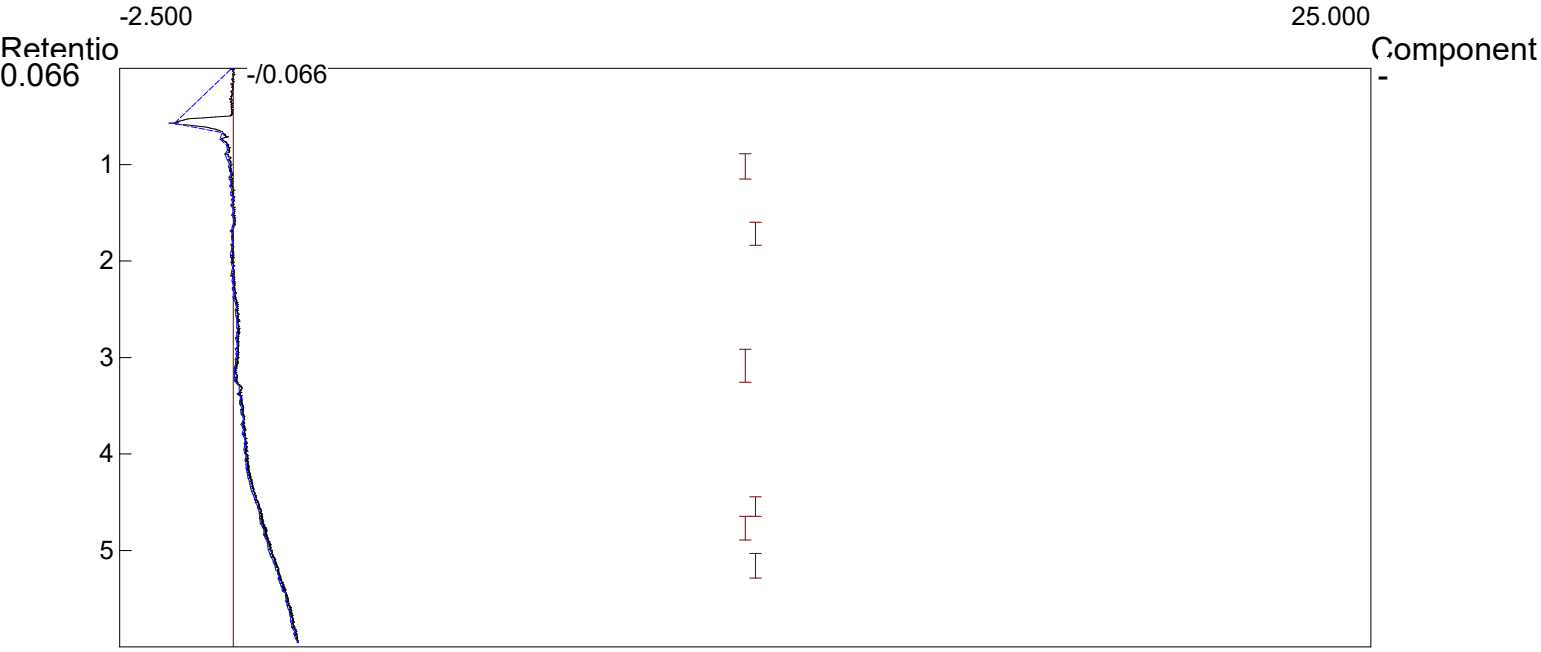


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 12:48:50
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-165 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

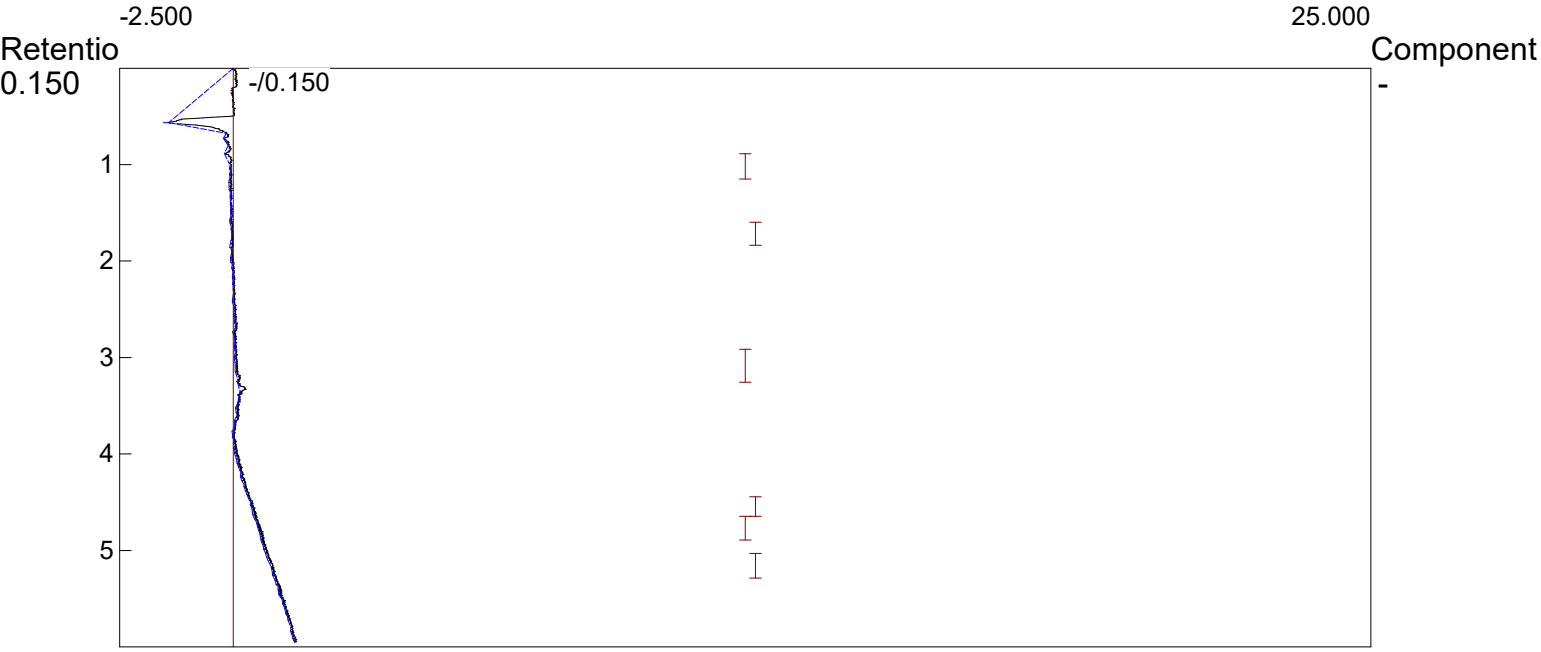


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 12:37:56
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-166 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

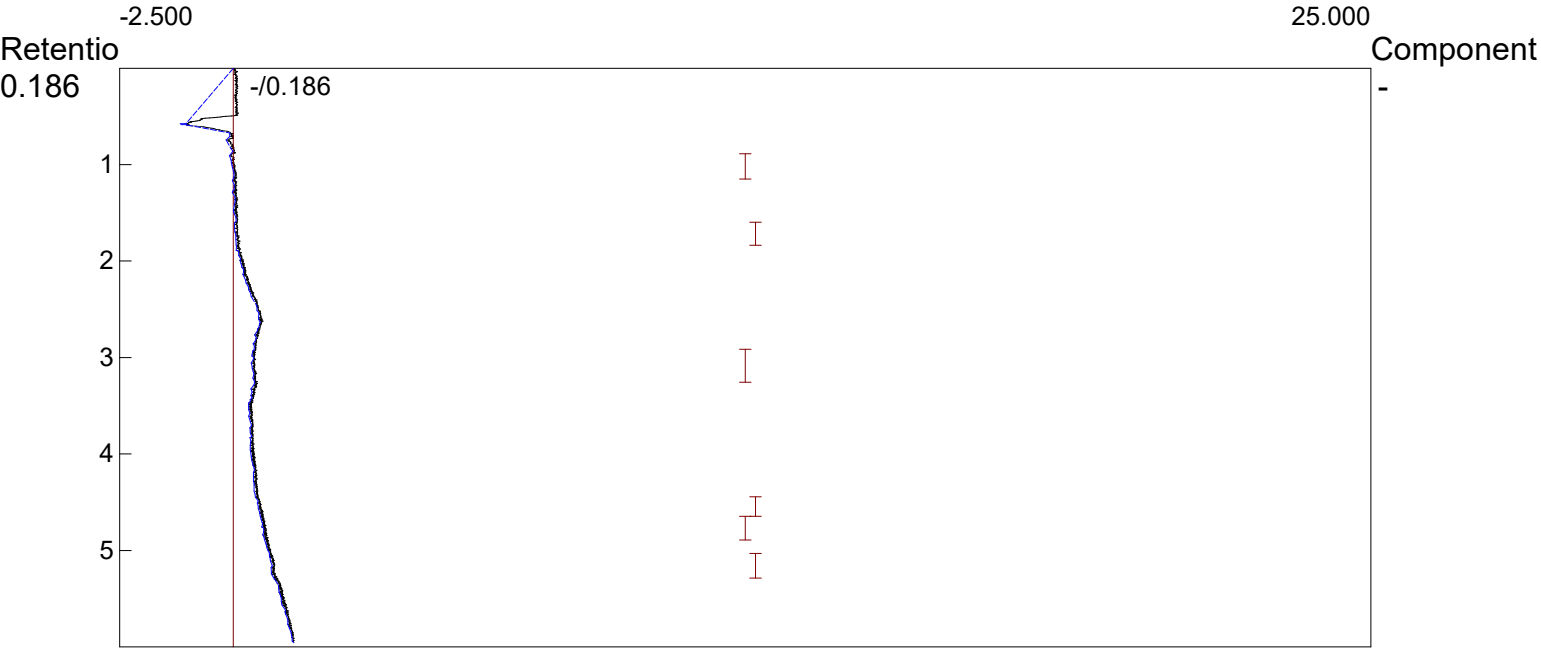


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 12:58:28
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-167 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

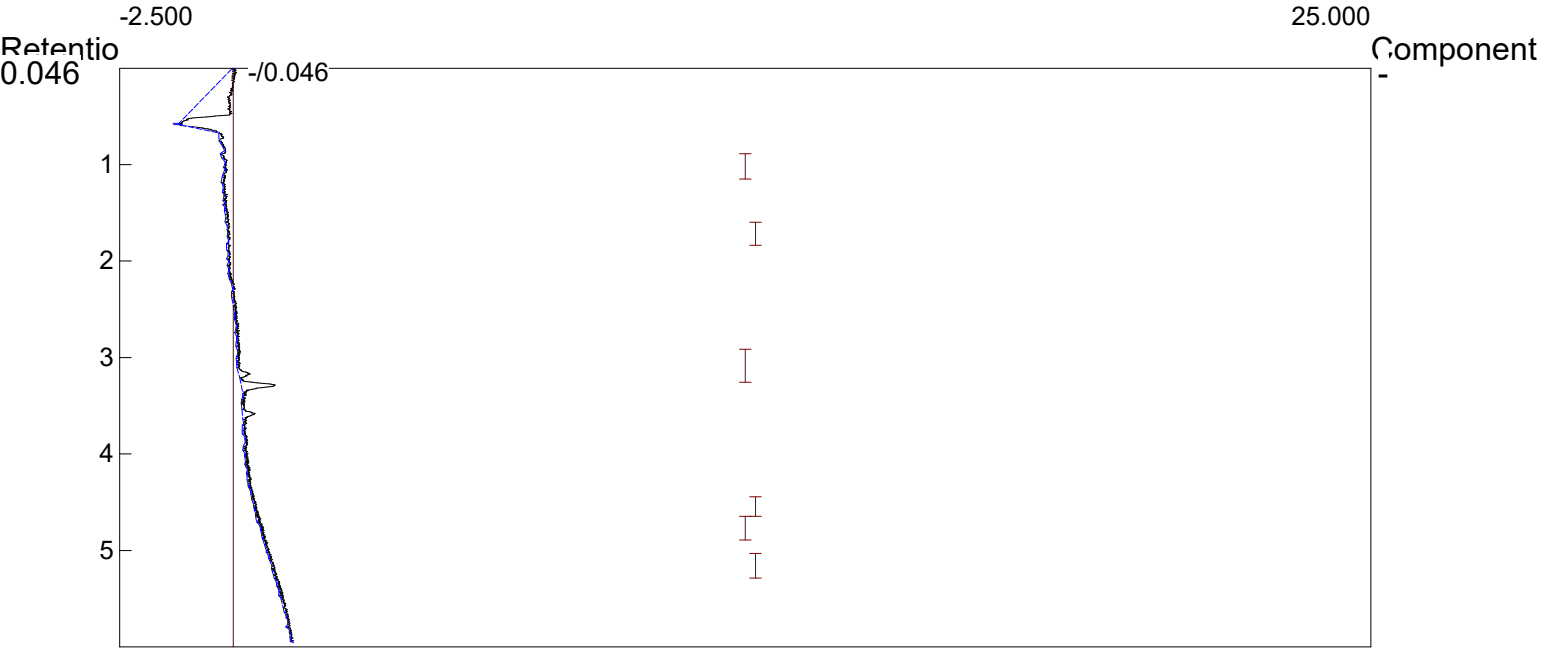


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 13:08:43
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-168 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

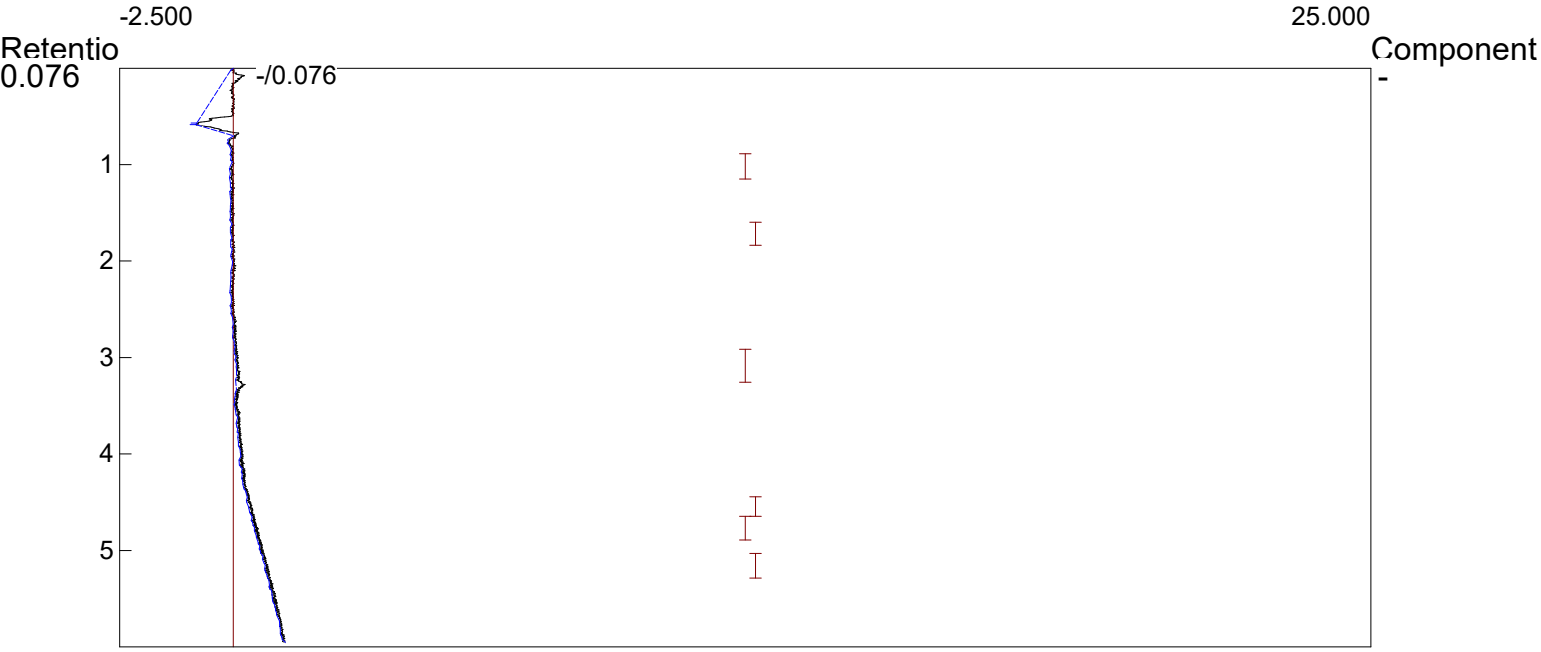


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 13:18:01
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-169 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

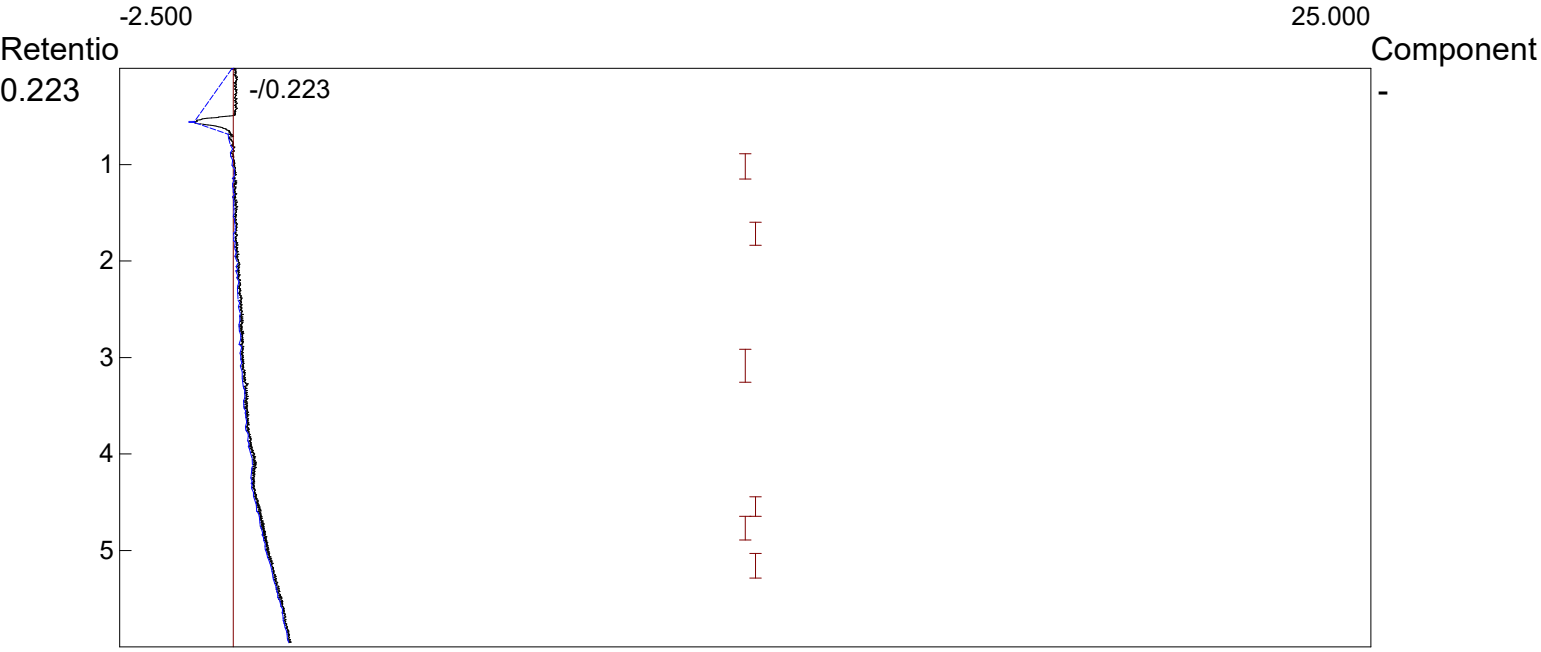


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 13:28:55
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-170 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

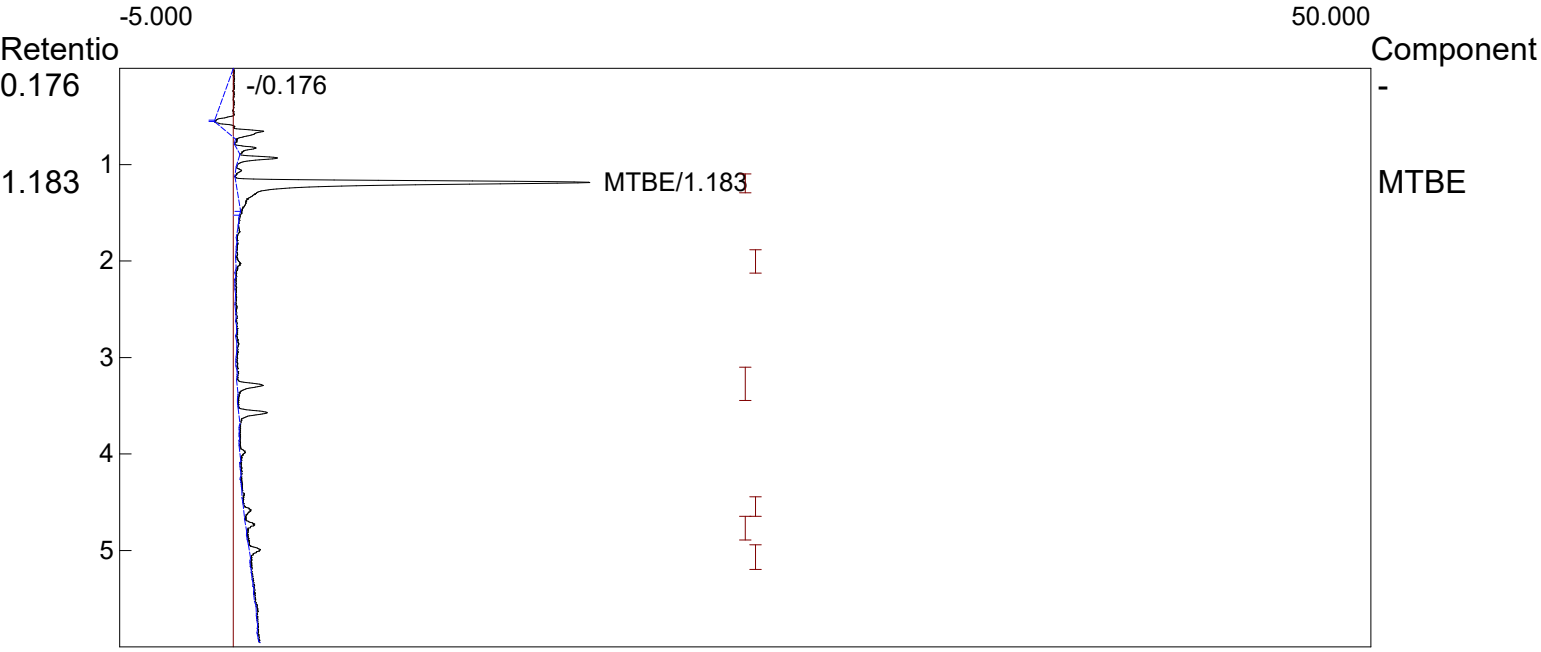


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 13:50:25
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-171D - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

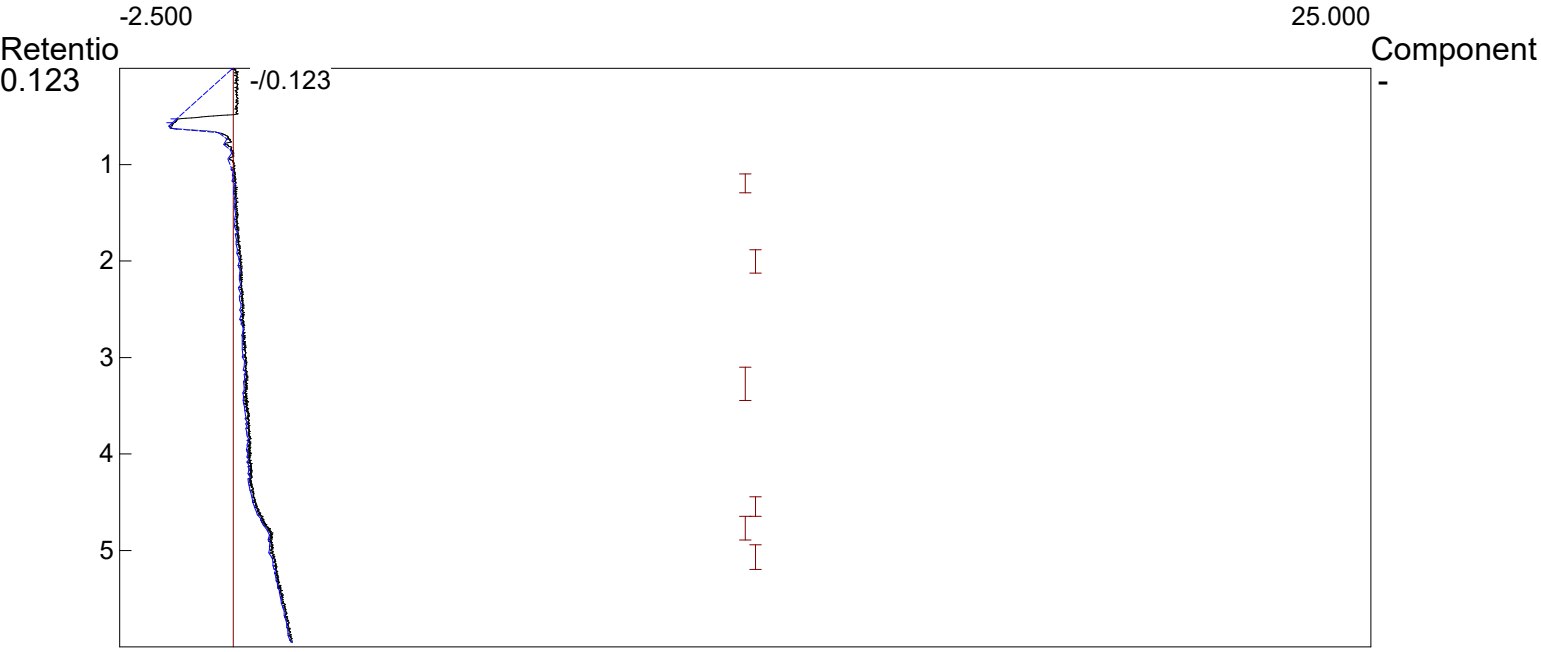


Component	Retention	Area	External	Units
MTBE	1.183	53.4658	401.5879	ppb
		53.4658	401.5879	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 16:51:15
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-172 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

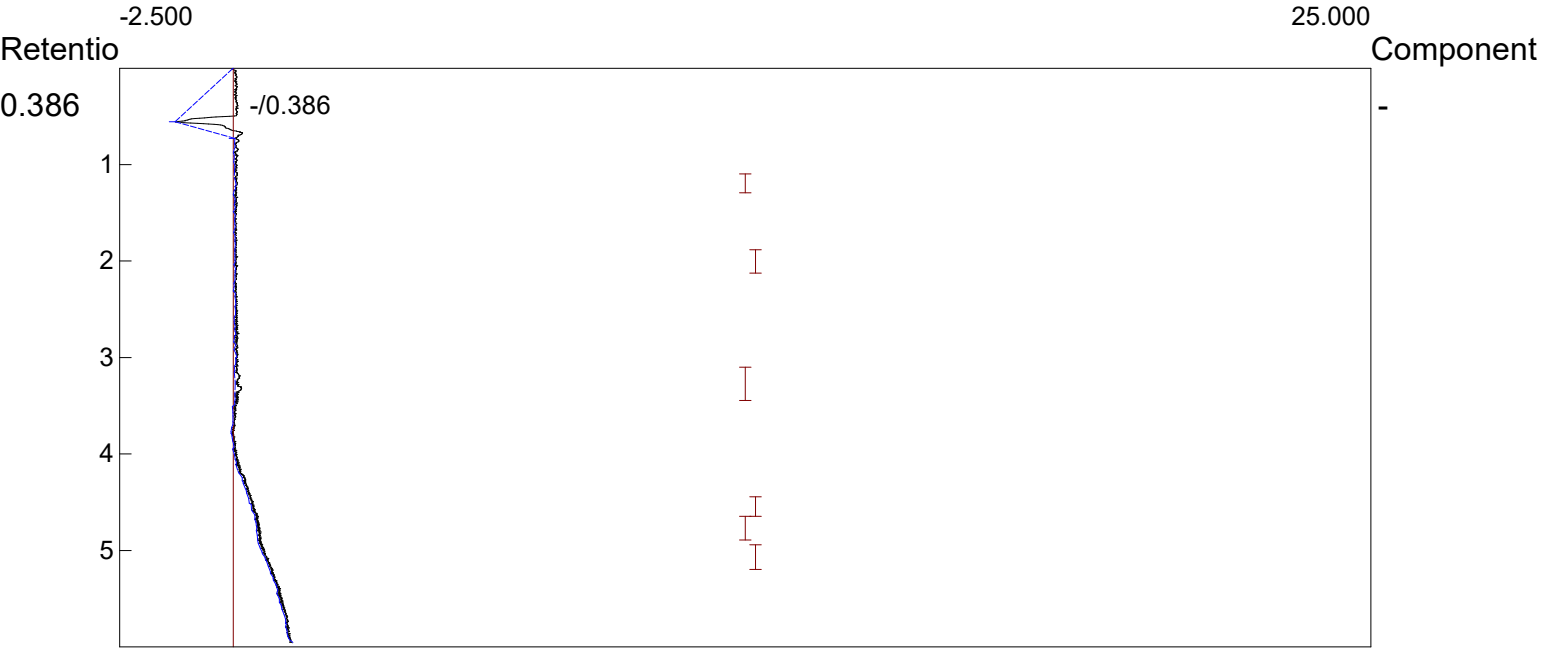


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 16:28:20
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-173 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00

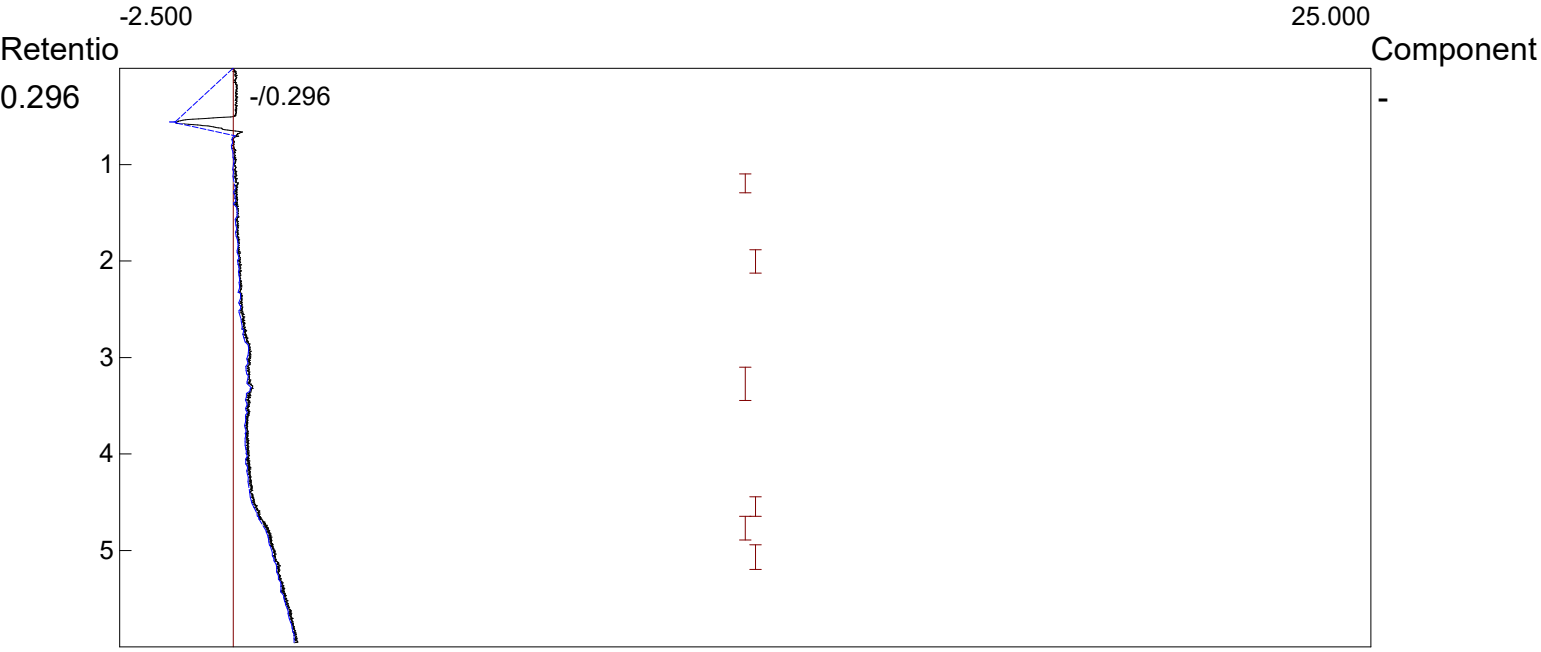


Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC
Collected: 6/21/21
Analysis date: 06/21/2021 16:40:35
Method: Headspace Injection
Description: PID - Channel 1
Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um
Carrier: He@ 5 PSI
Sample: GP-174 - Quick Pantry #19
Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	