



May 9, 2022

Mr. Barney Quinn
Town Engineer
Town of Mount Airy
110 South Main Street
Mount Airy, Maryland 21771

ECS Project No. 47:5784-D

Reference: Additional Soil Sampling Assessment
Mount Airy Rails to Trails
Former B&O Railroad Right of Way (MD1985)
Between Hill Street and Tempest Lane
Mount Airy, Maryland 21771

Dear Mr. Quinn:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide the Town of Mount Airy with the third round of results for this Operational Unit Soil Sampling Assessment Report. This report was completed in an effort to evaluate the concentration of arsenic near the property lines of the site and to delineate the extent of soils with elevated concentrations of arsenic of concern along the planned Mount Airy Rails to Trails project in accordance with the MDE approved Work Plan

BACKGROUND

ECS previously performed subsurface evaluations of the site and identified areas of contaminants of concern (COC) in onsite soils which included arsenic and polycyclic aromatic hydrocarbons (PAHs) at concentrations exceeding the Maryland Department of the Environment (MDE) Non-Residential Cleanup Standards. The subject site was accepted into the MDE Voluntary Cleanup Program (VCP) on September 6, 2019; however, the VCP requested further delineation of the areal and lateral extent of the arsenic and PAHs impacts on the subject site. ECS performed additional testing and the extent of PAH impacts was delineated.

The extent of arsenic exceeding the site-specific standard of 20 mg/kg was delineated in some locations onsite; however, the extent of arsenic impacts through the entire site was not able to be delineated. It should also be noted that CSX contractors may have moved soil around the site during their removal of the rail system. Based upon the CSX work onsite and discussions with the MDE and representatives from the Town of Mount Airy, ECS proposes to collect additional delineation samples near the property lines in an effort to determine if arsenic impacts remain within the bounds of the subject site.

The following outlines the methodologies performed by ECS to further evaluate the extent of impacted soils at the subject site.

SCOPE OF SERVICES

ECS separated the site into six (6) Operational Units (OUs) as previously approved by the MDE. The size and location of these OUs are provided on the attached Figure 1.

Sampling Methodology

Based upon conversations with the MDE and project stakeholders, ECS collected a total of four, property line, composite samples within each OU. The composite samples were collected on the property lines at a depth of 0-6 inches below grade and 6-24 inches below grade on the northern as well as the southern sides of the former rail system. Additionally, ECS collected four additional composite samples. Two of the additional composite samples were collected in OU-2 at a distance of approximately 65 feet north of the tracks, and two composite samples were collected in OU-5 at a distance of approximately 50 feet north of the tracks. These samples were collected at depths of 0-6 inches and 6-24 inches below grade.

To summarize the sampling frequency, ECS collected the composite samples in accordance with Exhibit A below.

EXHIBIT A: ARSENIC OPERATIONAL UNIT SAMPLING SCHEDULE

Operational Unit ID	Composite Sample Location	Number of Aliquots per Composite	Composite Sample Intervals (depth in inches)	Total number of 5-point composite samples
OU-1 (North)	Property Line	5	0 – 6 and 6 – 24	2
OU-1 (South)	Property Line	5	0 – 6 and 6 – 24	2
OU-2 (North)	Property Line	5	0 – 6 and 6 – 24	2
OU-2 (South)	Property Line	5	0 – 6 and 6 – 24	2
OU-2 (North)	65' North of Tracks	5	0 – 6 and 6 – 24	2
OU-3 (North)	Property Line	5	0 – 6 and 6 – 24	2
OU-3 (South)	Property Line	5	0 – 6 and 6 – 24	2
OU-4 (North)	Property Line	5	0 – 6 and 6 – 24	2
OU-4 (South)	Property Line	5	0 – 6 and 6 – 24	2
OU-5 (North)	Property Line	5	0 – 6 and 6 – 24	2
OU-5 (South)	50' North of Tracks	5	0 – 6 and 6 – 24	2
OU-5 (North)	Property Line	5	0 – 6 and 6 – 24	2
OU-6 (North)	Property Line	5	0 – 6 and 6 – 24	2
OU-6 (South)	Property Line	5	0 – 6 and 6 – 24	2

Upon completion of this sampling effort a total of 28 composite samples were submitted to an accredited laboratory for arsenic analysis. A properly decontaminated stainless steel hand auger was used to collect soil samples. In order to collect the composite samples, five borings were advanced near the areas summarize in Exhibit A above and as depicted on Figure 1. As a result, a total of 70 borings were advanced onsite. Each boring was advanced to a depth of 24 inches and two grab samples will be collected from each boring. A shallow grab sample was collected from each boring at a depth of 0-6 inches below grade and deeper grab sample was collected from each boring at a depth of 6-24 inches below grade.

The five grab samples collected to the north of the tracks, within each OU, at a depth of 0-6 inches below grade were composited to create a single composite sample. Similarly, the five grab samples collected to the north of the tracks, in each OU, at a depth of 6-24 inches below grade were composited to create a single composite sample. This compositing frequency continued within the OUs noted in Exhibit A, so that each composite sample was representative of the soil at a specific depth, and cardinal direction from the centerline of the tracks.

Additionally, based upon conversations with the MDE, ECS submitted each of the aliquots collected in OU-3 to the south of the tracks, for individual arsenic analysis. Of these 10 aliquots, five samples were be collected at a depth of 0 to 6 inches below grade and five were collected at a depth of 6 to 24 inches below grade.

The 10 grab samples collected in OU-3 and the 28 composite samples created within each OU (OU-1 to OU-6) were submitted for arsenic analysis via EPA method 6010. The approximate sample locations are depicted on the attached Figure 1.

SOIL SAMPLING RESULTS

The following section summarizes the results of the laboratory analysis within the operational units. ECS compared the arsenic results to both the site-specific standard of 20 mg/kg as well as the MDE Residential Use Cleanup criteria of 10 mg/kg.

Arsenic Sample Results

Arsenic was detected in each of the 28 composite soil samples and 10 grab soil samples analyzed as art of this assessment. The following outlines the result of the arsenic analysis within each OU:

- **OU-1:**
Concentrations of arsenic did not exceed the site-specific standard of 20 mg/kg or the MDE Residential Use cleanup criteria of 10 mg/kg in the four property line samples collected in OU-1.
- **OU-2:**
Concentrations of arsenic did not exceed the site-specific standard of 20 mg/kg in the two composite samples collected approximately 65' to the north of the tracks or in the four property line samples collected along the northern and southern property lines. However, the sample collected at a depth of 6-24" along the northern property line, as

well as the sample collected approximately 65' north of the tracks exceeded the MDE Residential Use cleanup criteria of 10 mg/kg.

- OU-3:

Concentrations of arsenic exceeded the site-specific standard of 20 mg/kg in the composite samples collected at a depth of 0-6" along the northern and southern property lines. The samples collected along the property lines at a depth of 6-24" did not exceed the site-specific standard of 20 mg/kg. Additionally, the sample collected at a depth of 6-24" along the southern property line did not exceed the MDE Residential standard for arsenic.

As stated above, the 10 individual aliquots used to compromise the composite samples along the southern property line in OU-3 were also submitted for arsenic analysis. Concentrations of arsenic exceeded the site-specific standard of 20 mg/kg in samples collected at a depth of 0-6' at the location of samples OU-3-1, OU-3-2, OU-3-3 and in sample collected at a depth of 6-24 inches at OU-3-3. Concentrations of arsenic in the remaining grab samples analyzed in OU-3 did not exceed the site-specific standard of 20 mg/kg. However, concentrations of arsenic exceeded the MDE Residential standard in grab sample OU-3-1 collected at a depth of 6-24" and in sample OU-3-4 collected at a depth of 0-6".

- OU-4:

Concentrations of arsenic did not exceed the site-specific standard of 20 mg/kg or the MDE Residential Use cleanup criteria of 10 mg/kg in the four property line samples collected in OU-4.

- OU-5:

Concentrations of arsenic exceeded the site-specific standard of 20 mg/kg in the composite sample collected along the northern property line at a depth of 0-6" and in the two composite samples collected approximately 50' to the north of the tracks. Concentrations of arsenic did not exceed the site-specific standard of 20 mg/kg in the sample collected along the northern property line at a depth of 6-24" or in the two composite samples collected along the southern property line. Concentrations of arsenic in each of the samples collected in OU-5 exceeded the MDE Residential Use cleanup criteria with the exception of the sample collected at a depth of 0-6" along the southern property line.

- OU-6:

Concentrations of arsenic exceeded the site-specific standard of 20 mg/kg in the two composite samples collected along the northern property line. However, arsenic concentrations did not exceed the MDE Residential Use cleanup criteria in the two composite samples collected along the southern property line.

The sample results are included as Attachment A and are summarized in the attached Table 1

SUMMARY AND CONCLUSIONS

ECS collected soil samples at the site near the property lines and several feet from the tracks within six (6) operational units. Based upon the sample results, the concentrations of arsenic were delineated in several locations. Exhibit B summarizes the data discussed above:

EXHIBIT B: SUMMARY OF ARSENIC CONCENTRATION BY OU AND DEPTH (COMPOSITE SAMPLES)

OU Samples with arsenic concentrations <20 mg/kg	OU Samples with arsenic concentrations >20 mg/kg	OU Samples with arsenic concentrations <10 mg/kg (0-24")
OU-1 North (0-24") Property Line	OU-3 North (0-6") Property Line	OU-1 North (0-24") Property Line
OU-1 South (0-24") Property Line	OU-3 South (0-6") Property Line	OU-1 South (0-24") Property Line
OU-2 North (0-24") Property Line	OU-5 North (0-6") Property Line	OU-2 South (0-24") Property Line
OU-2 South (0-24") Property Line	OU-5 (0-24") 50' North of Tracks	OU-4 North (0-24") Property Line
OU-2 (0-24") 65' North of Tracks	OU-6 North (0-24") Property Line	OU-4 South (0-24") Property Line
OU-4 North (0-24") Property Line		OU-6 South (0-24") Property Line
OU-4 South (0-24") Property Line		
OU-5 South (0-24") Property Line		
OU-6 South (0-24") Property Line		

Based upon the sample results, concentrations of arsenic were delineated for the purpose of recreational use in each of the OUs with the exception of OU-3 North, OU-3 South, OU-5 North, and OU-6 North. Due to sampling being performed up to the property line, further delineation cannot be performed without offsite sampling. According to the MDE, the Town of Mount Airy has been established as an inculpa person which establishes liability limits for offsite remediation and sampling. ECS recommends submitting this report to the MDE for their review.

QUALIFICATIONS

The conclusions presented within this report are based upon a reasonable level of investigation within normal bounds and standards of professional practice for a site in this particular geographic and geologic setting, and the areas of the site accessible for drilling.

The findings of this study are not intended to serve as an audit of health and safety or compliance issues pertaining to improvements or occupant activities on-site. All observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are limited to conditions observed and/or materials reviewed at the time this study was undertaken. No other warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report.

Respectfully,
ECS Mid-Atlantic, LLC



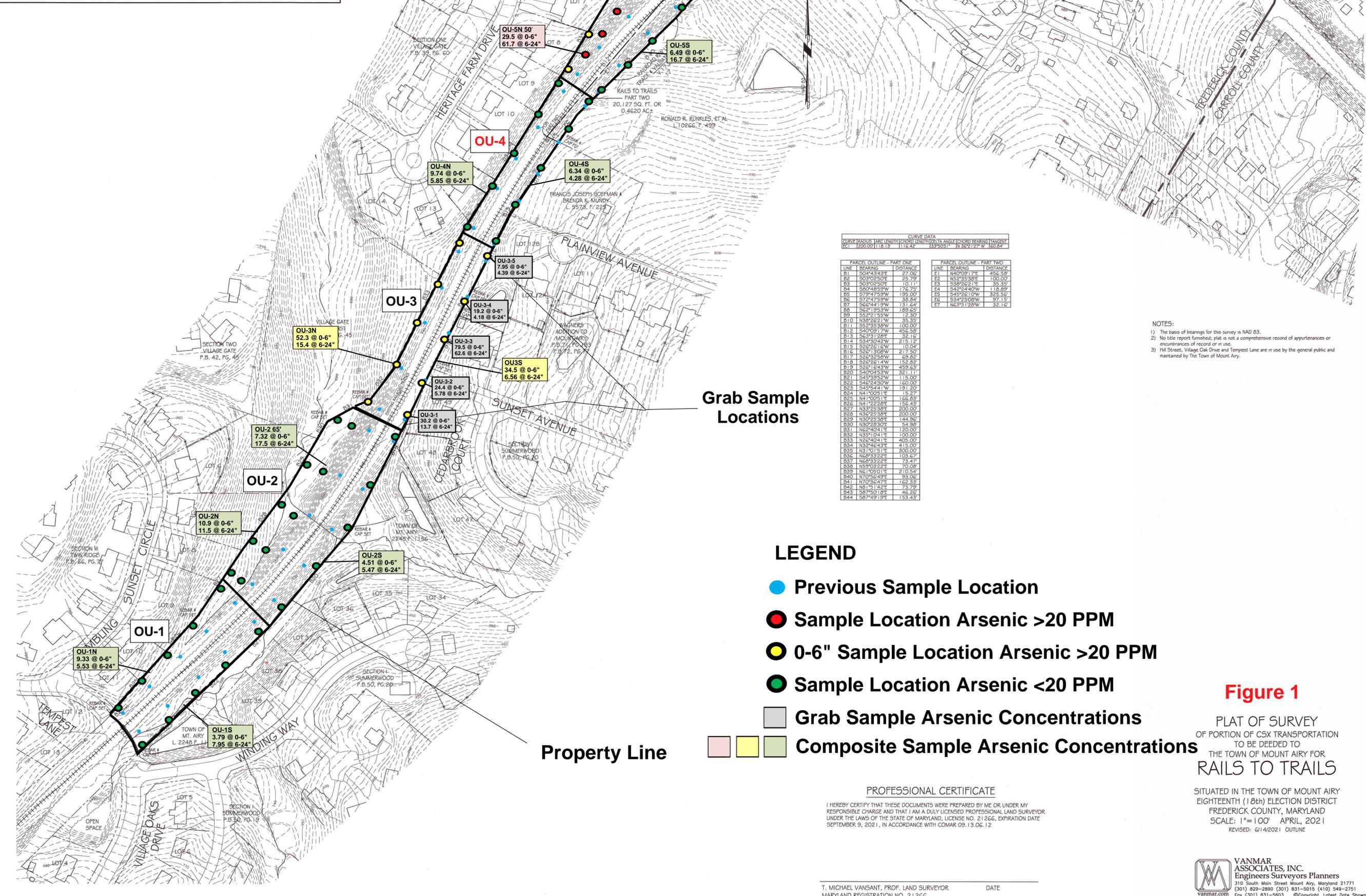
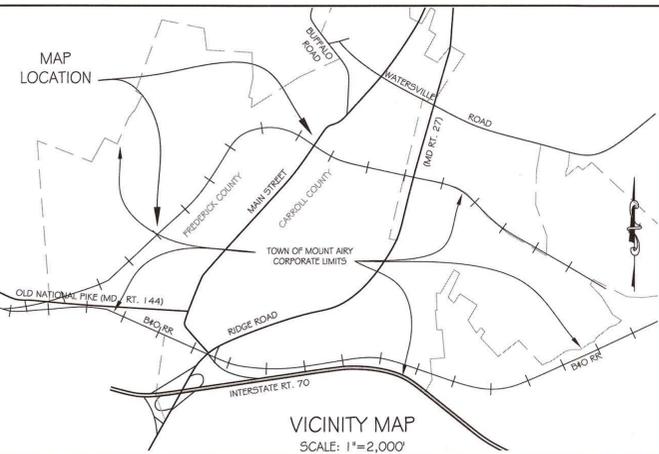
Nathan Edwards, CIH
Project Manager



Michael Bell, CHMM
Environmental Principal



Figures



CURVE DATA

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	DELTA ANGLE	CHORD BEARING	TANGENT
101	1000.00	116.18	116.42	13.50231°	N 50°12'34.71" W	169.84

PARCEL OUTLINE - PART ONE

LINE	BEARING	DISTANCE
B1	S04°43'43"E	27.06
B2	S03°02'50"E	29.79
B3	S03°02'50"E	10.11
B4	S00°48'59"W	176.75
B5	S73°47'59"W	139.00
B6	S72°47'59"W	38.84
B7	S66°44'19"W	131.64
B8	S62°19'53"W	189.65
B9	S52°15'55"W	12.30
B10	N38°26'21"W	35.35
B11	S52°35'58"W	100.00
B12	S40°09'17"W	456.58
B13	S63°31'02"E	32.16
B14	S34°30'42"W	215.12
B15	S26°26'16"W	10.04
B16	S56°13'09"W	217.50
B17	S26°32'59"W	69.82
B18	S25°26'14"W	152.82
B19	S26°16'43"W	459.63
B20	S40°04'53"W	321.11
B21	S45°39'52"W	115.00
B22	S46°24'30"W	160.00
B23	S45°54'11"W	191.20
B24	N41°00'11"E	15.27
B25	N41°00'51"E	166.83
B26	N41°22'28"E	156.43
B27	N33°25'59"E	200.00
B28	N36°25'59"E	200.00
B29	N30°23'59"E	144.96
B30	N30°23'59"E	64.98
B31	N62°40'41"E	120.00
B32	N33°10'41"E	100.00
B33	N26°40'41"E	405.00
B34	N26°46'43"E	415.00
B35	N31°01'11"E	300.00
B36	N6°33'22"E	103.67
B37	N6°33'22"E	73.47
B38	N89°03'22"E	70.00
B39	N61°05'01"E	210.54
B40	N70°56'49"E	33.06
B41	N70°56'49"E	162.33
B42	N61°15'42"E	73.79
B43	S07°50'19"E	46.26
B44	S07°49'19"E	133.43

PARCEL OUTLINE - PART TWO

LINE	BEARING	DISTANCE
E1	N40°09'17"E	456.58
E2	N25°39'59"E	1100.00
E3	S38°26'21"E	35.35
E4	S42°24'40"W	118.89
E5	S45°26'10"W	329.96
E6	S34°25'06"W	97.15
E7	N63°31'28"W	32.16

- NOTES:
- The basis of bearings for this survey is NAD 83.
 - No title report furnished; plot is not a comprehensive record of appurtenances or encumbrances of record or in use.
 - Hill Street, Village Oak Drive and Tempest Lane are in use by the general public and maintained by The Town of Mount Airy.

LEGEND

- Previous Sample Location
- Sample Location Arsenic >20 PPM
- 0-6" Sample Location Arsenic >20 PPM
- Sample Location Arsenic <20 PPM
- ▭ Grab Sample Arsenic Concentrations
- ▭ Composite Sample Arsenic Concentrations

Figure 1

PLAT OF SURVEY
OF PORTION OF CSX TRANSPORTATION
TO BE DEEDED TO
THE TOWN OF MOUNT AIRY FOR
RAILS TO TRAILS

SITUATED IN THE TOWN OF MOUNT AIRY
EIGHTEENTH (18th) ELECTION DISTRICT
FREDERICK COUNTY, MARYLAND
SCALE: 1"=100' APRIL, 2021
REVISED: 6/14/2021 OUTLINE

PROFESSIONAL CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21266, EXPIRATION DATE SEPTEMBER 9, 2021, IN ACCORDANCE WITH COMAR 09.13.06.12

T. MICHAEL VANSANT, PROF. LAND SURVEYOR DATE
MARYLAND REGISTRATION NO. 21266

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
Fax (301) 831-5663 ©Copyright, Latest Date Shown



Tables

Table 1
Soil Sample Analytical Summary

Sample ID	OU-1 0-6N	OU-1 6-24N	OU-1 0-6S	OU-1 6-24S	MDE Site Specific
Date Collected	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	Soil Cleanup
Depth (Feet)	0-6"	6-24"	0-6"	6-24"	Standard (mg/kg)
Total Metals Analysis by EPA 6020B (mg/kg)					
Arsenic	9.33	5.53	3.79	7.95	20
mg/kg = parts per million (milligrams per kilogram)					
ND (#) = Not Detected (Laboratory Detection Limit)					

Table 1
Soil Sample Analytical Summary

Sample ID	OU-2 0-6N	OU-2 6-24N	OU-2 0-6S	OU-2 6-24S	OU-2 0-6N 65"	OU-2 6-24 65"	MDE Site Specific Soil Cleanup Standard (mg/kg)
Date Collected	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	
Depth (Feet)	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	
Total Metals Analysis by EPA 6020B (mg/kg)							
Arsenic	10.9	11.5	4.51	5.47	7.32	17.5	20
mg/kg = parts per million (milligrams per kilogram)							
ND (#) = Not Detected (Laboratory Detection Limit)							

Table 1
Soil Sample Analytical Summary

Sample ID	OU-3 0-6N	OU-3 6-24N	OU-3 0-6S	OU-3 6-24S	MDE Site Specific
Date Collected	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	Soil Cleanup
Depth (Feet)	0-6"	6-24"	0-6"	6-24"	Standard (mg/kg)
Total Metals Analysis by EPA 6020B (mg/kg)					
Arsenic	52.3	15.4	34.5	6.56	20
mg/kg = parts per million (milligrams per kilogram)					
ND (#) = Not Detected (Laboratory Detection Limit)					

Table 1
Soil Sample Analytical Summary
Grab Samples

Sample ID	OU-3-1 0-6S	OU-3-1 6-24S	OU-3-2 0-6S	OU-3-2 6-24S	OU-3-3 0-6S	MDE Site Specific Soil Cleanup Standard (mg/kg)
Date Collected	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	
Depth (Feet)	0-6"	6-24"	0-6"	6-24"	0-6"	
Total Metals Analysis by EPA 6020B (mg/kg)						
Arsenic	30.2	13.7	24.4	5.78	79.5	20
mg/kg = parts per million (milligrams per kilogram)						
ND (#) = Not Detected (Laboratory Detection Limit)						

Table 1
Soil Sample Analytical Summary
Grab Samples

Sample ID	OU-3-3 6-24S	OU-3-4 0-6S	OU-3-4 6-24S	OU-3-5 0-6S	OU-3-5 6-24S	MDE Site Specific Soil Cleanup Standard (mg/kg)
Date Collected	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	
Depth (Feet)	6-24"	0-6"	6-24"	0-6"	6-24"	
Total Metals Analysis by EPA 6020B (mg/kg)						
Arsenic	62.6	19.2	4.18	7.95	4.39	20
mg/kg = parts per million (milligrams per kilogram)						
ND (#) = Not Detected (Laboratory Detection Limit)						

Table 1
Soil Sample Analytical Summary

Sample ID	OU-4 0-6N	OU-4 6-24N	OU-4 0-6S	OU-4 6-24S	MDE Site Specific
Date Collected	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	Soil Cleanup
Depth (Feet)	0-6"	6-24"	0-6"	6-24"	Standard (mg/kg)
Total Metals Analysis by EPA 6020B (mg/kg)					
Arsenic	9.74	5.85	6.34	4.28	20
mg/kg = parts per million (milligrams per kilogram)					
ND (#) = Not Detected (Laboratory Detection Limit)					

Table 1
Soil Sample Analytical Summary

Sample ID	OU-5 0-6N	OU-5 6-24N	OU-5 0-6S	OU-5 6-24S	OU-5 0-6N 50"	OU-5 6-24N 50"	MDE Site Specific Soil Cleanup Standard (mg/kg)
Date Collected	19-Apr-22	19-Apr-22	20-Apr-22	20-Apr-22	19-Apr-22	19-Apr-22	
Depth (Feet)	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	
Total Metals Analysis by EPA 6020B (mg/kg)							
Arsenic	29.1	14.1	6.49	16.7	29.5	61.7	20
mg/kg = parts per million (milligrams per kilogram)							
ND (#) = Not Detected (Laboratory Detection Limit)							

Table 1
Soil Sample Analytical Summary

Sample ID	OU-6 0-6N	OU-6 6-24N	OU-6 0-6S	OU-6 6-24S	MDE Site Specific
Date Collected	19-Apr-22	19-Apr-22	19-Apr-22	19-Apr-22	Soil Cleanup
Depth (Feet)	0-6"	6-24"	0-6"	6-24"	Standard (mg/kg)
Total Metals Analysis by EPA 6020B (mg/kg)					
Arsenic	450	146	4.1	4.86	20
mg/kg = parts per million (milligrams per kilogram)					
ND (#) = Not Detected (Laboratory Detection Limit)					



Attachment A

03 May 2022

Mike Bell

ECS-Frederick

5112 Pegasus Ct., Suite S

Frederick, MD 21704

RE: MT AIRY RAILS TO TRAILS

Enclosed are the results of analyses for samples received by the laboratory on 04/22/22 13:55.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

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

Sincerely,



Rabecka Koons

Quality Assurance Officer

Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OU-1 0-6N		2042227-01	Soil	04/20/22 00:00	04/22/22 13:55
OU-1 6-24N		2042227-02	Soil	04/20/22 00:00	04/22/22 13:55
OU-1 0-6S		2042227-03	Soil	04/20/22 00:00	04/22/22 13:55
OU-1 6-24S		2042227-04	Soil	04/20/22 00:00	04/22/22 13:55
OU-2 0-6N		2042227-05	Soil	04/20/22 00:00	04/22/22 13:55
OU-2 6-24N		2042227-06	Soil	04/20/22 00:00	04/22/22 13:55
OU-2 0-6S		2042227-07	Soil	04/20/22 00:00	04/22/22 13:55
OU-2 6-24S		2042227-08	Soil	04/20/22 00:00	04/22/22 13:55
OU-2 0-6N 65"		2042227-09	Soil	04/20/22 00:00	04/22/22 13:55
OU-2 6-24 65"		2042227-10	Soil	04/20/22 00:00	04/22/22 13:55
OU-3 0-6N		2042227-11	Soil	04/20/22 00:00	04/22/22 13:55
OU-3 6-24N		2042227-12	Soil	04/20/22 00:00	04/22/22 13:55
OU-3 0-6S		2042227-13	Soil	04/20/22 00:00	04/22/22 13:55
OU-3 6-24S		2042227-14	Soil	04/20/22 00:00	04/22/22 13:55
OU-4 0-6N		2042227-15	Soil	04/20/22 00:00	04/22/22 13:55
OU-4 6-24N		2042227-16	Soil	04/20/22 00:00	04/22/22 13:55
OU-4 0-6S		2042227-17	Soil	04/20/22 00:00	04/22/22 13:55
OU-4 6-24S		2042227-18	Soil	04/20/22 00:00	04/22/22 13:55
OU-5 0-6N		2042227-19	Soil	04/19/22 00:00	04/22/22 13:55
OU-5 6-24N		2042227-20	Soil	04/19/22 00:00	04/22/22 13:55
OU-3-1 0-6S		2042227-21	Soil	04/20/22 00:00	04/22/22 13:55
OU-3-1 6-24S		2042227-22	Soil	04/20/22 00:00	04/22/22 13:55



Rabecka Koons, Quality Assurance Officer

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OU-3-2 0-6S		2042227-23	Soil	04/20/22 00:00	04/22/22 13:55
OU-3-2 6-24S		2042227-24	Soil	04/20/22 00:00	04/22/22 13:55
OU-3-3 0-6S		2042227-25	Soil	04/20/22 00:00	04/22/22 13:55
OU-3-3 6-24S		2042227-26	Soil	04/20/22 00:00	04/22/22 13:55
OU-3-4 0-6S		2042227-27	Soil	04/20/22 00:00	04/22/22 13:55
OU-3-4 6-24S		2042227-28	Soil	04/20/22 00:00	04/22/22 13:55
OU-3-5 0-6S		2042227-29	Soil	04/20/22 00:00	04/22/22 13:55
OU-3-5 6-24S		2042227-30	Soil	04/20/22 00:00	04/22/22 13:55
OU-5 0-6S		2042227-31	Soil	04/20/22 00:00	04/22/22 13:55
OU-5 6-24S		2042227-32	Soil	04/20/22 00:00	04/22/22 13:55
OU-5 0-6N 50"		2042227-33	Soil	04/19/22 00:00	04/22/22 13:55
OU-5 6-24N 50"		2042227-34	Soil	04/19/22 00:00	04/22/22 13:55
OU-6 0-6N		2042227-35	Soil	04/19/22 00:00	04/22/22 13:55
OU-6 6-24N		2042227-36	Soil	04/19/22 00:00	04/22/22 13:55
OU-6 0-6S		2042227-37	Soil	04/19/22 00:00	04/22/22 13:55
OU-6 6-24S		2042227-38	Soil	04/19/22 00:00	04/22/22 13:55



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-1 0-6N

2042227-01 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	74		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	9.33		mg/kg dry	0.338	0.338	1	04/28/22	04/29/22 18:13	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C

Project Manager: Mike Bell

Reported:

05/03/22 11:33

OU-1 6-24N

2042227-02 (Soil)

Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	79		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	5.53		mg/kg dry	0.316	0.316	1	04/28/22	04/29/22 18:15	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-1 0-6S

2042227-03 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	83		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	3.79		mg/kg dry	0.301	0.301	1	04/28/22	04/29/22 18:23	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-1 6-24S

2042227-04 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	78		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	7.95		mg/kg dry	0.321	0.321	1	04/28/22	04/29/22 18:25	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-2 0-6N

2042227-05 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	70		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	10.9		mg/kg dry	0.357	0.357	1	04/28/22	04/29/22 18:27	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-2 6-24N

2042227-06 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	71		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	11.5		mg/kg dry	0.352	0.352	1	04/28/22	04/29/22 18:30	VVD

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-2 0-6S

2042227-07 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	66		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	4.51		mg/kg dry	0.379	0.379	1	04/28/22	04/29/22 18:32	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-2 6-24S

2042227-08 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	72		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	5.47		mg/kg dry	0.347	0.347	1	04/28/22	04/29/22 18:35	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-2 0-6N 65"

2042227-09 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	67		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	7.32		mg/kg dry	0.373	0.373	1	04/28/22	04/29/22 18:37	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-2 6-24 65"

2042227-10 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	65		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	17.5		mg/kg dry	0.385	0.385	1	04/28/22	04/29/22 18:39	VVD

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3 0-6N

2042227-11 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	70		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	52.3		mg/kg dry	0.357	0.357	1	04/28/22	04/29/22 18:42	VVD

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3 6-24N

2042227-12 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	86		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	15.4		mg/kg dry	0.291	0.291	1	04/28/22	04/29/22 18:44	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3 0-6S

2042227-13 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	68		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	34.5		mg/kg dry	0.368	0.368	1	04/28/22	04/29/22 19:01	VVD

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3 6-24S

2042227-14 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	82		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	6.56		mg/kg dry	0.305	0.305	1	04/28/22	04/29/22 19:03	VVD

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-4 0-6N

2042227-15 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	60		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	9.74		mg/kg dry	0.417	0.417	1	04/28/22	04/29/22 19:06	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-4 6-24N

2042227-16 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	82		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	5.85		mg/kg dry	0.305	0.305	1	04/28/22	04/29/22 19:08	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-4 0-6S

2042227-17 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	71		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	6.34		mg/kg dry	0.352	0.352	1	04/28/22	04/29/22 19:10	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-4 6-24S

2042227-18 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	80		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	4.28		mg/kg dry	0.313	0.313	1	04/28/22	04/29/22 19:13	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-5 0-6N

2042227-19 (Soil)
Sample Date: 04/19/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	57		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	29.1		mg/kg dry	0.439	0.439	1	04/28/22	04/29/22 19:20	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-5 6-24N

2042227-20 (Soil)
Sample Date: 04/19/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	65		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	14.1		mg/kg dry	0.385	0.385	1	04/28/22	04/29/22 19:22	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3-1 0-6S

2042227-21 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	70		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	30.2		mg/kg dry	0.357	0.357	1	04/28/22	04/29/22 19:25	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3-1 6-24S

2042227-22 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	56		%			1	04/27/22	04/28/22 12:04	KAN
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	13.7		mg/kg dry	0.446	0.446	1	04/28/22	04/29/22 19:27	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C

Project Manager: Mike Bell

Reported:

05/03/22 11:33

OU-3-2 0-6S

2042227-23 (Soil)

Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	79		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	24.4		mg/kg dry	0.316	0.316	1	04/28/22	04/29/22 19:29	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3-2 6-24S

2042227-24 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	73		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	5.78		mg/kg dry	0.342	0.342	1	04/28/22	04/29/22 19:32	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3-3 0-6S

2042227-25 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	36		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	79.5		mg/kg dry	0.694	0.694	1	04/28/22	04/29/22 19:34	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3-3 6-24S

2042227-26 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	61		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	62.6		mg/kg dry	0.410	0.410	1	04/28/22	04/29/22 19:37	VVD



Rabecka Koons, Quality Assurance Officer

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3-4 0-6S

2042227-27 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	63		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	19.2		mg/kg dry	0.397	0.397	1	04/28/22	04/29/22 19:39	VVD

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3-4 6-24S

2042227-28 (Soil)

Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	68		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	4.18		mg/kg dry	0.368	0.368	1	04/28/22	04/29/22 19:41	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C

Project Manager: Mike Bell

Reported:

05/03/22 11:33

OU-3-5 0-6S

2042227-29 (Soil)

Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	58		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	7.95		mg/kg dry	0.431	0.431	1	04/28/22	04/29/22 19:58	VVD



Rabecka Koons, Quality Assurance Officer

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All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-3-5 6-24S

2042227-30 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	82		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	4.39		mg/kg dry	0.305	0.305	1	04/28/22	04/29/22 20:01	VVD



Rabecka Koons, Quality Assurance Officer

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All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-5 0-6S

2042227-31 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	76		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	6.49		mg/kg dry	0.329	0.329	1	04/28/22	04/29/22 20:03	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-5 6-24S

2042227-32 (Soil)
Sample Date: 04/20/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	75		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	16.7		mg/kg dry	0.333	0.333	1	04/28/22	04/29/22 20:05	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-5 0-6N 50"

2042227-33 (Soil)
Sample Date: 04/19/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	70		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	29.5		mg/kg dry	0.357	0.357	1	04/28/22	04/29/22 20:08	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-5 6-24N 50"

2042227-34 (Soil)
Sample Date: 04/19/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	69		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	61.7		mg/kg dry	0.362	0.362	1	04/28/22	04/29/22 20:10	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-6 0-6N

2042227-35 (Soil)
Sample Date: 04/19/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	65		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	450		mg/kg dry	3.85	3.85	10	04/28/22	05/02/22 14:08	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-6 6-24N

2042227-36 (Soil)
Sample Date: 04/19/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	69		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	146		mg/kg dry	0.362	0.362	1	04/28/22	04/29/22 20:19	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-6 0-6S

2042227-37 (Soil)
Sample Date: 04/19/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	77		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	4.10		mg/kg dry	0.325	0.325	1	04/28/22	04/29/22 20:22	VVD



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

OU-6 6-24S

2042227-38 (Soil)
Sample Date: 04/19/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	78		%			1	04/25/22	04/26/22 10:11	TA
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Arsenic	4.86		mg/kg dry	0.321	0.321	1	04/28/22	04/29/22 20:24	VVD



Rabecka Koons, Quality Assurance Officer

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C

Project Manager: Mike Bell

Reported:

05/03/22 11:33

Maryland Spectral Services does not maintain certification for the following analytical parameters:

Maryland Spectral Services

Matrix , Method , Analyte _____



Rabecka Koons, Quality Assurance Officer

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Analytical Results

Project: MT AIRY RAILS TO TRAILS

Project Number: 47:5784-C
Project Manager: Mike Bell

Reported:
05/03/22 11:33

Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- RE Sample reanalyses are done at the laboratory's discretion as a mechanism to improve data quality. Any client requested reanalysis will be identified with a sample qualifier.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- %-Solids Percent Solids is a supportive test and as such does not require accreditation

If this report contains any samples analyzed for gasoline range organics (GRO) by EPA Method 8015C and no trip blank was shipped, stored, and received with the sample(s) as required by Section 3.1 of the EPA Method, the sample analysis contained in this report cannot exclude the possibility that any reportable GRO measurement was due to environmental contamination of the sample during shipping or storage.

Rabecka Koons, Quality Assurance Officer

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Company Name: **ECS Mid-Atlantic, LLC** Project Manager: **Mike Bell**

Project Name: **MT. AIRY - PAWS TO TRAILS** Project ID: **5784-C**

Sampler(s): **SI and SB** P.O. Number:

Analysis Requested

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
 1500 Caton Center Drive, Suite G
 Baltimore, MD 21227
 410-247-7600 • Fax 410-247-7602
 labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
 PW (potable water)

Preservative: 1+ 1 HCL, H₂SO₄, Methanol, Na₂S₂O₃, NaHCO₃ Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank MSS Lab ID

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Analysis Requested														
04-1 0-6N	/			X		1	Arsenic														
04-1 6-24N	/			X		1															
04-1 0-6S	/			X		1															
04-1 6-24S	/			X		1															
04-2 0-6N	/			X		1															
04-2 6-24N	/			X		1															
04-2 0-6S	/			X		1															
04-2 6-24S	/			X		1															
04-2 0-6N 65"	/			X		1															
04-2 6-24 65"	/			X		1															

204222
 - 02
 - 03
 - 04
 - 05
 - 06
 - 07
 - 08
 - 09
 - 10

7-01

Relinquished by: (Signature) *[Signature]* Date/Time: 04/22/22 Received by: (Signature) (Printed) 1302 Relinquished by: (Signature) (Printed) Date/Time: Received by: (Signature) (Printed)

Relinquished by: (Signature) (Printed) 4-22-22 Date/Time: 13:55 Received by Lab: (Signature) (Printed) *[Signature]* Turn Around Time: Normal (7 day) 5 day 4 day 3 day Rush (2 day) Next Day Other: Specific Due Date: Lab Use: Temp: 6.0 °C Received on Ice Received same day Preservation Appropriate

Delivery Method: Courier Client UPS FedEx USPS Other: Special Instructions/QC Requirements & Comments: Sample Disposal: Return to Client Disposal by lab Archive for 1 days

Company Name: ECS Mid-Atlantic, LLC Project Manager: Mike Bell

Project Name: MT. AIRY - Rails to Trails Project ID: 5784-C

Sampler(s): SI and SB P.O. Number:

Analysis Requested

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Preservative: 1+ 1 HCL, H ₂ SO ₄ , Methanol, Na ₂ S ₂ O ₃ , NaHCO ₃	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
		204222
		-12
		-13
		-14
		-15
		-16
		-17
		-18
		-19
		-20

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Analysis Requested														
							AS	SC	GC	PC	DC	EC	IC	OC	PC	DC	EC	IC			
OU-3 0-6N				X		1															
OU-3 6-24N				X		1															
OU-3 0-6S				X		1															
OU-3 6-24S				X		1															
OU-4 0-6N /				X		1															
OU-4 6-24N /				X		1															
OU-4 0-6S /				X		1															
OU-4 6-24S /				X		1															
OU-5 0-6N /				X		1															
OU-5 6-24N /				X		1															

7-11

Relinquished by: (Signature) [Signature] Date/Time 04/22/22 Received by: (Signature) [Signature] Relinquished by: (Signature) [Signature] Date/Time 1302 Received by: (Signature) [Signature]

Relinquished by: (Signature) [Signature] Date/Time 4-22-22 Received by Lab: (Signature) [Signature] Turn Around Time: Normal (7 day) 5 day 4 day 3 day Rush (2 day) Next Day Other: [Blank] Specific Due Date: [Blank] Lab Use: Temp: 6.0 °C Received on Ice Received same day Preservation Appropriate

Delivery Method: Courier Client UPS FedEx USPS Other: [Blank] Special Instructions/QC Requirements & Comments: [Blank] Sample Disposal: Return to Client Disposal by lab Archive for 2 days

Company Name: ECS-Mid-Atlantic, LLC		Project Manager: Mike Bell		Analysis Requested										CHAIN-OF-CUSTODY RECORD					
Project Name: TNT-AIC - RAIBS, Totals		Project ID: 5784-C												Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com					
Sampler(s): SI and SB		P.O. Number:												Matrix Codes: NW (nonpotable water) PW (potable water)					
Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	ASPC/C										Preservative: 1+ 1 HCL, H ₂ SO ₄ , Methanol, Na ₂ S ₂ O ₃ , NaHCO ₃	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
OU-3-1 0-65			X			1												2042227-21	
OU-3-1 6-245			X			1												- 22	
OU-3-2 0-65			/			1												- 23	
OU-3-2 6-245			X			1												- 24	
OU-3-3 0-65			X			1												- 25	
OU-3-3 6-245			X			1												- 26	
OU-3-4 0-65			X			1												- 27	
OU-3-4 6-245			X			1												- 28	
OU-3-5 0-65			X			1												- 29	
OU-3-5 6-245			X			1												- 30	
Relinquished by: (Signature) 		Date/Time 04/22/22		Received by: (Signature) 		Date/Time 1302		Relinquished by: (Signature)		Date/Time		Received by: (Signature)							
(Printed) Seth Brown				(Printed)				(Printed)				(Printed)							
Relinquished by: (Signature)		Date/Time		Received by Lab: (Signature) 		Date/Time		Turn Around Time:		Lab Use:									
(Printed)		4-22-22 13:55		(Printed) Lori Foster				<input checked="" type="checkbox"/> Normal (7 day) <input type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day <input type="checkbox"/> Other: _____ <input type="checkbox"/> Specific Due Date: _____		Temp: _____ °C 6.0 <input checked="" type="checkbox"/> Received on Ice <input type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate									
Delivery Method: <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____		Special Instructions/QC Requirements & Comments:										Sample Disposal: <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive for _____ days							

Company Name: ECS Mid-Atlantic, LLC. Project Manager: Mike Bell

Project Name: MT. Airy - Rails to Trails Project ID: 5784-C

Sampler(s): SI and SB P.O. Number:

Analysis Requested

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Preservative: 1+ 1 HCL, H₂SO₄, Methanol, Na₂S₂O₃, NaHCO₃ Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank MSS Lab ID

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers
0u-5 0-65 D				X		1
0u-5 6-245 P				X		1
0u-5 0-6N 50'4				X		1
0u-5 6-24N 50'4				X		1
0u-6 0-6N				X		1
0u-6 6-24N				X		1
0u-6 0-65 0-65				X		1
0u-6 6-245				X		1

204222 7-31
- 32
- 33
- 34
- 35
- 36
- 37
- 38

Relinquished by: (Signature) [Signature] Date/Time: 04/22/22 Received by: (Signature) [Signature] Date/Time: 1302

Relinquished by: (Signature) [Signature] Date/Time: 4-22-22 Received by Lab: (Signature) [Signature] Date/Time: 13:55

Turn Around Time:
 Normal (7 day)
 5 day
 4 day
 3 day
 Rush (2 day)
 Next Day
 Other: _____
 Specific Due Date: _____

Lab Use:
Temp: 6.0 °C
 Received on Ice
 Received same day
 Preservation Appropriate

Delivery Method:
 Courier
 Client
 UPS
 FedEx
 USPS
 Other: _____

Special Instructions/QC Requirements & Comments:
Cor: Foster

Sample Disposal:
 Return to Client
 Disposal by lab
 Archive for 4 days