

# **REPORT**

For Atlanta BeltLine, Inc.

Arsenic Delineation Sampling
Atlanta BeltLine – Southside Trail
Segment 2; Approximate 0.870-Mile
Section

625 Holcomb Bridge Road, Norcross, GA 30071 • 770-209-0029 • unitedconsulting.com





October 23, 2020

Atlanta BeltLine, Inc.

c/o

Mr. Sean Johnston, P.E. Vice President Kimley-Horn 817 West Peachtree Street NW The Biltmore Suite 601 Atlanta, Georgia 30308

Via Email: Sean.Johnston@kimley-horn.com; KBurke@atlbeltline.org

RE: Arsenic Delineation Sampling

Atlanta BeltLine - Southside Trail

Segment 2; Approximate 0.870-Mile Section (STA: 144+10.00 to 190+06.00)

Atlanta, Georgia

Project No.: 20-GA-01192-11

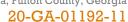
Dear Mr. Johnston:

United Consulting is pleased to submit this summary report of our arsenic delineation sampling for the Atlanta BeltLine – Southside Trail (SST); Segment 2; approximate 0.870-Mile Section (STA: 144+10.00 to 190+06.00) (hereinafter referred to as the Project Site). The purpose of the sampling as reported herein was to delineate impacts requiring possible remedial actions under the Brownfield Prospective Purchaser Corrective Action Plan (PPCAP), as amended, and consistent with the corrective action approach developed for the SST as detailed within Appendix F to PPCAP Amendment #2. This report summarizes the soil delineation sampling and the results for arsenic in twelve (12) areas along the Project Site.

#### BACKGROUND

United Consulting previously completed a Phase II Environmental Assessment/Initial Brownfield Site Characterization Sampling (Phase II/BSCS) on the Project Site and various other portions of the Southside Trail, in a report dated from September 19, 2018. A total of 105 borings were advanced across the Southside Trail, with one shallow soil sample (generally in the top 2 feet of the soil column) collected from each boring. The soil samples were analyzed for volatile organic compounds (VOCs), semi-volatile compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) 8 Metals, and/or polychlorinated biphenyls (PCBs), depending on boring location. That analysis identified various metals, VOC, and SVOC impacts, depending on location.

Arsenic was detected in various soil samples collected from the Project Site. The following boring locations and their associated arsenic detections exceeded the non-residential Risk Reduction



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Standards (RRSs), which were the focus of this delineation assessment: arsenic at EB-33 through EB-41, and EB-44 through EB-46. Of note, two areas (EB-44 and EB-46) were previously remediated for non-arsenic constituents above their respective RRSs. This non-arsenic remediation was generally documented within Appendix F to CAP Amendment #2, dated June 7, 2019.

The RRSs and Atlanta BeltLine analyte list, inclusive of constituents detected on various other portions of the Atlanta BeltLine Properties, were established and approved by the Georgia Environmental Protection Division (EPD) as part of Amendment #2 to the approved master PPCAP for the BeltLine properties. These RRSs, as available, were used for comparison within the Phase II report. This report summarizes soil delineation sampling for arsenic exceeding the approved Type 3 non-residential RRS (38 milligrams per kilogram (mg/Kg)), as detected during our previous Phase II and conducted in accordance with the corrective action approach as defined within Appendix F to CAP Amendment #2. Generally, delineation efforts were conducted within areas anticipated to receive less than one foot of fill to meet final grades; furthermore, for identified areas which required remediation, in accordance with Appendix F to CAP Amendment #2, the maximum extent of arsenic remediation extends laterally ten feet further than the outermost boring with an exceedance of the approved non-residential Type 3 RRS and/or to maintain utility buffers.

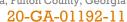
#### ARSENIC DELINEATION SAMPLING

The sampling frequency of the arsenic delineation sampling was consistent with the existing master BeltLine CAP, and in accordance with Appendix F to CAP Amendment #2. The results from these assessments are briefly summarized below. The locations of the borings and approximate remediation areas are illustrated on the attached Figures and Exhibits. Table 1 summarizes the soil analytical testing results.

United Consulting mobilized to the Project Site on July 15<sup>th</sup> through 17<sup>th</sup> and 20<sup>th</sup>, 2020 to implement the proposed arsenic delineation sampling scope of our February 17, 2020 fee proposal, which generally included advancing delineation borings around the borings where arsenic was detected at concentrations requiring initial remediation (prior to the final Type 5 RRS approach). A total of 75 hand auger borings were advanced to obtain soil samples for potential laboratory analysis. This included six borings (two step-outs of three borings) around each of the original borings with impact concentrations above applicable RRS, plus one boring at the original boring location with the exceedance for vertical delineation. The borings were advanced to depths of approximately 2 to 4 feet.

One sample from the 63 horizontal step-out borings as well as two samples from the 12 vertical delineation borings were collected for potential laboratory analysis of arsenic. The samples from each of the horizontal step-out borings were collected from within apparent fill materials, from a depth interval of approximately 0 to 2 feet. The samples from each of the vertical delineation borings were typically collected at depth intervals of approximately 2.5-3 feet below ground surface (ft. bgs) and/or 3.5 to 4 ft. bgs.

Soil samples collected from the set of three inner step-out borings were advanced in equidistant directions from the original boring, as possible, and analyzed for arsenic. Soil samples collected from the second set of three outer step-out borings, were submitted to the laboratory on hold, and analyzed only if the inner step-out boring from that direction still exceeded applicable non-residential RRS for





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arsenic. A minimum safe buffer distance of 5 feet from utilities is required per the existing master BeltLine CAP. Step-out boring directions were modified accordingly to avoid breaching the approximate 5-foot safe distance buffer, per approximate utility locations presented to United Consulting in CAD files, original GDOT fiber plans, and/or field utility locating, as available. This sampling was conducted in the event that utility removal would be conducted at a later point. Remediation area shapes were generated based on the analytical results from the step out borings. The shapes of the remediation areas were generally oval-shaped, based on the three-direction step-out boring approach, and consistent with remediation performed on other portions of the BeltLine. The shapes and sizes of the remediation area will be determined during the remediation activities in the field, based on field conditions (i.e. utility locations determined by the remediation contractor).

Soil samples from the borings were classified according to the visual-manual procedure by United Consulting's environmental specialist. The typical soil profile included fill soils and naturally-occurring (residual) soils of the Piedmont physiographic providence. Fill soils were observed predominantly from the surface up to depths of approximately four feet. The fill materials generally consisted of black to dark brown silty sands and railroad ballast. A more detailed description of the subsurface conditions for this assessment is provided on the boring logs in Attachment D.

Eight samples were also collected, and subsequently composited, from the remedial areas for analysis of RCRA metals via the toxicity characteristic leaching procedure (TCLP) to assess potential landfill disposal options. These were from borings EB-34, EB-35, EB-37, EB-39, EB-40, and EB-46.

Decontamination was performed and the Chains of Custody were maintained. Multiple quality control samples were collected and analyzed including duplicate and trip blank samples. Sampling at the site was conducted in general accordance with the EPA's, current Field Branches Quality System and Technical Procedures. These procedures are on the internet at EPA's website: <a href="http://www.epa.gov/region4/sesd/fbgstp/index.html">http://www.epa.gov/region4/sesd/fbgstp/index.html</a>.

#### REMEDIATION AREAS

A total of 12 areas requiring remediation for arsenic have been identified. At each of the remediation areas, the vertical delineation samples were identified as in compliance with the applicable RRS and varied in depths from approximately 2 ft bgs to 3 ft bgs. At four of the twelve locations, vertical delineation was attempted, but could not be achieved; as such, vertical remediation for arsenic is controlled by the proposed trail elevation and the Type 5 RRS approach under the BeltLine CAP. Figures 1 and 2 show the overall locations of the remedial areas for this segment of the Southside Trail. Exhibits 2, 3, and 29 through 38 show the individual remediation areas, their locations, associated sample points, and estimated remediation limits. Exhibits shown represent a limited portion of the overall remediation approach required for the Southside Trail, therefore only Remediation Areas within Segment 2 are discussed below (Segments 1, 3, and 4/5 are presented under separate cover):

Remediation Area 2 (EB-44)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-44. Additionally, benzo(a)pyrene and benzo(b)fluoranthene were detected at the original boring location at a concentration exceeding non-residential RRS (that remedial area was an approximate 10-foot square, which was delineated and remediated in May 2019). Arsenic was additionally detected at





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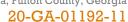
concentrations exceeding applicable RRS in the inner and outer step-out borings to the northwest and east of the original boring location. Delineation was achieved to the south at the second step-out location. Based on these conditions, in accordance with the Appendix F to CAP Amendment #2, the excavation boundaries extend ten feet past the outer step-out boring to the east, delineated by the second step out to the south, and then from the second step-out boring (to the northwest) five feet from the limiting utilities at the northwest. The required vertical excavation depth is 3 feet.

Based on the aforementioned boundary definition and maintaining a safe buffer distance to utilities as shown on the CAD drawings, a total of approximately 42.4 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

#### Remediation Area 3 (EB-46)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-46. Additionally, benzo(a)pyrene was detected at the original boring location at a concentration exceeding non-residential RRS (that remedial area was an approximate 10-foot square, which delineated and remediated in May 2019). Arsenic was additionally detected at concentrations exceeding applicable RRS in the inner and outer step-out borings to the southeast, west, and north of the original boring location. Due to multiple utility conflicts across the central portion of the location, at this time, the arsenic excavation is bifurcated by a ten-foot band buffer. Based on these conditions, in accordance with the Appendix F to CAP Amendment #2, the excavation boundaries extend from the north inner step-out boring northward to ten feet past the outer step-out boring and then from the second step-out borings (to the west and southeast) to within five feet from the limiting utilities at the center and/or to the property boundary. The required vertical excavation depth is 2.5 feet.

Based on the aforementioned boundary definition and maintaining a safe buffer distance to utilities as shown on the CAD drawings, a total of approximately 34.4 cubic yards (CY) of soil is estimated for excavation and offsite disposal.



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# Remediation Area 29 (EB-33)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-33. Arsenic was additionally detected at concentrations exceeding the applicable RRS in the inner step-out boring to the north; however, the second outer step-out boring was below applicable RRS defining the extent of excavation to the north. Arsenic detections at the inner step-outs to the southwest and southeast were identified below non-residential RRS.

Based on the aforementioned boundary definition and the review of provided trail plans for cut/fill analysis which supports a 3-foot vertical removal at this area, a total of approximately 14.1 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

#### Remediation Area 30 (EB-34)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-34. Arsenic was additionally detected at concentrations exceeding the applicable RRS in both the inner and outer step-out borings to the north and southwest of the original boring location. Arsenic detections at the inner step-out to the southeast was identified below non-residential RRS. Based on these conditions, in accordance with the Appendix F to CAP Amendment #2, the excavation boundaries extend from the north and southwest inner step-out boring ten feet past the outer step-out boring.

Based on the aforementioned boundary definition and the review of provided trail plans for cut/fill analysis which supports a 2-foot vertical removal at this area, a total of approximately 36.3 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

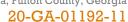
#### Remediation Area 31 (EB-35)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-35. Arsenic was additionally detected at concentrations exceeding the applicable RRS in both the inner and outer step-out borings to the north and southwest of the original boring location. Arsenic detections at the outer step-out to the southeast was identified below non-residential RRS. Based on these conditions, in accordance with the Appendix F to CAP Amendment #2, the excavation boundaries extend from the north and southwest inner step-out boring ten feet past the outer step-out boring.

Based on the aforementioned boundary definition and the review of provided trail plans for cut/fill analysis which supports a 2-foot vertical removal at this area, a total of approximately 45.9 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

#### Remediation Area 32 (EB-36)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-36. Arsenic was additionally detected at concentrations exceeding applicable RRS in both the inner and outer step-out borings to the north, southeast, and southwest of the original boring location. In accordance with the Appendix F to CAP Amendment #2, the excavation at this location will extend ten feet laterally beyond the second step-out iteration, further bound by utilities to the south.



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Based on the excavation boundary defined by a ten-foot lateral expansion from the furthest step-out borings in this area, the review of provided trail plans for cut/fill analysis which supports a 2-foot vertical removal at this area, and maintaining a safe buffer distance to utilities as shown on the CAD drawings, a total of approximately 63.3 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

#### Remediation Area 33 (EB-37)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-37. Arsenic was additionally detected at concentrations exceeding applicable RRS in both the inner and outer step-out borings to the northwest and south of the original boring location. Arsenic detections at the outer step-out to the northeast was identified below non-residential RRS. In accordance with the Appendix F to CAP Amendment #2, the excavation at this location will extend ten feet laterally beyond the second step-out iteration, further bound by utilities to the south.

Based on the excavation boundary defined by a ten-foot lateral expansion from the furthest step-out borings in this area, the review of provided trail plans for cut/fill analysis which supports a 3-foot vertical removal at this area, and maintaining a safe buffer distance to utilities as shown on the CAD drawings, a total of approximately 75.1 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

#### Remediation Area 34 (EB-38)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-38. Arsenic was additionally detected at concentrations exceeding the applicable RRS in the inner step-out borings; however, the second outer step-out borings were all below applicable RRS defining the extent of excavation in each direction.

Based on the aforementioned boundary definition and the review of provided trail plans for cut/fill analysis which supports a 2-foot vertical removal at this area, a total of approximately 22.5 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

### Remediation Area 35 (EB-39)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-39. Arsenic was additionally detected at concentrations exceeding applicable RRS in the inner and outer step-out borings to the southeast of the original boring location. Arsenic concentrations were identified below RRS at the first step-out boring to the north and the second step-out boring to the southwest. Due to multiple utility conflicts across the central portion of the location, at this time, the arsenic excavation is bifurcated by a ten-foot band buffer. Based on these conditions, in accordance with the Appendix F to CAP Amendment #2, the excavation boundaries extend from the north and south of the utility buffer (five feet) to ten feet past the outer step-out boring southeast (further limited by additional utilities to the south) and then to the defined extents at the southwest and north with samples below RRS. The required vertical excavation depth is 3.5 feet.

Based on the aforementioned boundary definition and maintaining a safe buffer distance to utilities as shown on the CAD drawings, a total of approximately 30.1 cubic yards (CY) of soil is estimated for excavation and offsite disposal.



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#### Remediation Area 36 (EB-40)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-40. Arsenic was additionally detected at concentrations exceeding applicable RRS in both the inner and outer step-out borings to the southwest and east of the original boring location. Arsenic detections at the initial step-out to the northwest was identified below non-residential RRS. In accordance with the Appendix F to CAP Amendment #2, the excavation at this location will extend ten feet laterally beyond the second step-out iteration, further bound by utilities to the south.

Based on the excavation boundary defined by a ten-foot lateral expansion from the furthest step-out borings in this area, the review of provided trail plans for cut/fill analysis which supports a 1-foot vertical removal at this area, and maintaining a safe buffer distance to utilities as shown on the CAD drawings, a total of approximately 16.3 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

#### Remediation Area 37 (EB-41)

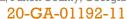
Arsenic was detected at a concentration exceeding non-residential RRS at EB-41. Arsenic was additionally detected at concentrations exceeding applicable RRS in both the inner and outer step-out borings to the northeast of the original boring location. The outer step-out boring was located in the vicinity of the GDOT utility which was field-located approximately five feet north of the boring. In accordance with Appendix F to CAP Amendment #2, the excavation will extent to within the five-foot buffer of the utility to the north. Arsenic was detected at concentrations below applicable RRS in both the inner step-out borings to the southwest and east, defining the extents of excavation in these directions.

Based on the aforementioned boundary definition and the review of provided trail plans for cut/fill analysis which supports a 1-foot vertical removal at this area, a total of approximately 3.7 cubic yards (CY) of soil is estimated for excavation and offsite disposal.

#### Remediation Area 38 (EB-45)

Arsenic was detected at a concentration exceeding non-residential RRS at EB-45. Arsenic was additionally detected in the inner step-out borings; however, at concentrations below the applicable RRS defining the extent of excavation in each direction.

Based on the aforementioned boundary definition and the review of provided trail plans for cut/fill analysis which supports a 2-foot vertical removal at this area, a total of approximately 5.7 cubic yards (CY) of soil is estimated for excavation and offsite disposal.



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#### **SUMMARY**

Based on the above, with a 20% contingency, there is an estimated 468 CY of impacted soils requiring excavation and disposal at an appropriately licensed landfill to meet the requirements of the EPD approved CAP for the arsenic impacted soils along this section of the Southside Trail. The estimated cubic yardage is an estimated in-situ volume, which equates to approximately 702 tons (with noted limitations based on known utility conflicts). Table 2 summarizes the total estimated excavation volume for the arsenic impacted areas. Based on the six samples composited as a single sample for analysis via the TCLP, the soils are likely acceptable for Subtitle D landfill disposal; however, the receiving landfill could have additional testing requirements. Laboratory analytical testing results are included in Attachment E.

It is United Consulting's understanding that additional utility removals for Segment 2 will not be conducted in the near term future. If utilities are planned for removal prior to or as part of the trail construction, additional arsenic remediation may be warranted. This applies to Segment 2 and the remaining portions of the SST. United Consulting requests that Kimley Horn review the attached Exhibits relative to the known utilities, determine if removals are anticipated, and illustrate utility removal areas within these areas. Then the needed additional action can be defined.

This report does not address the railroad ballasts as may be present across this segment. It is United Consulting's understanding such ballast as present will be managed onsite during construction under the final soil cover meeting the Type 5 RRS approach.

We appreciate the opportunity to assist you with this project and look forward to our continued participation. Please contact us if you have any questions or if we can be of further assistance.

Sincerely,

UNITED CONSULTING

Brandon W. Sharp Staff Engineer

Spencer Cox

Project Environmental Specialist

Russell C. Griebel, C.P.G., P.G.

**Executive Vice President** 

BS/SCC/RCG/rgw

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#### **ATTACHMENT A**

Figure 1 – Segment Location Overview – Street Map

Figure 2 – Remediation Areas Overview – Aerial

#### **ATTACHMENT B**

Exhibits 2, 3, and 29 through 38

#### ATTACHMENT C

Table 1 – Summary of Pre-Excavation Site Characterization Sampling Results

Table 2 - Summary of Estimated Soil Remediation Volumes Per Remediation Area

Table 3 – Remediation Cut/Fill Analysis and Approach

#### **ATTACHMENT D**

**Boring Logs** 

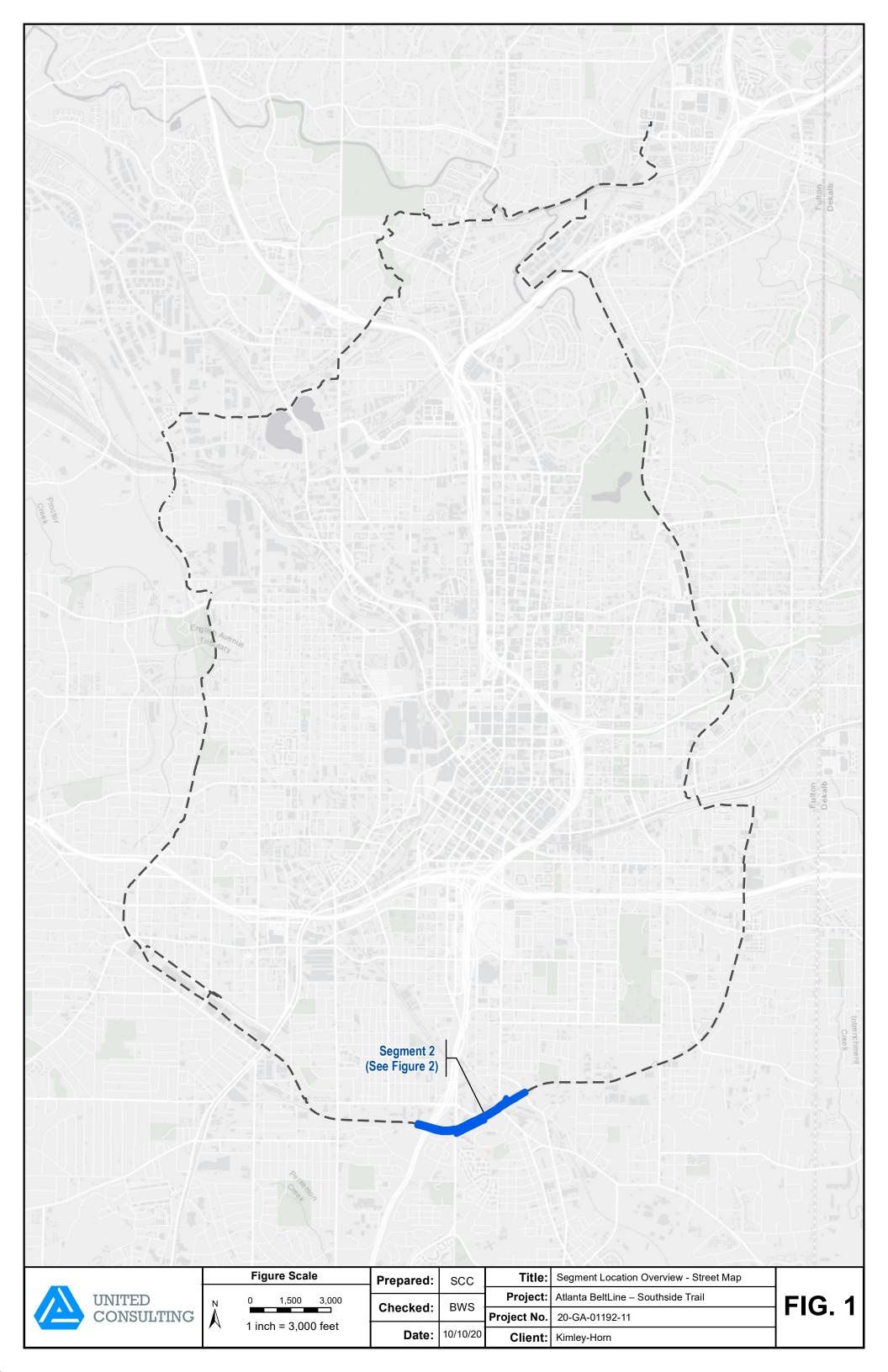
#### **ATTACHMENT E**

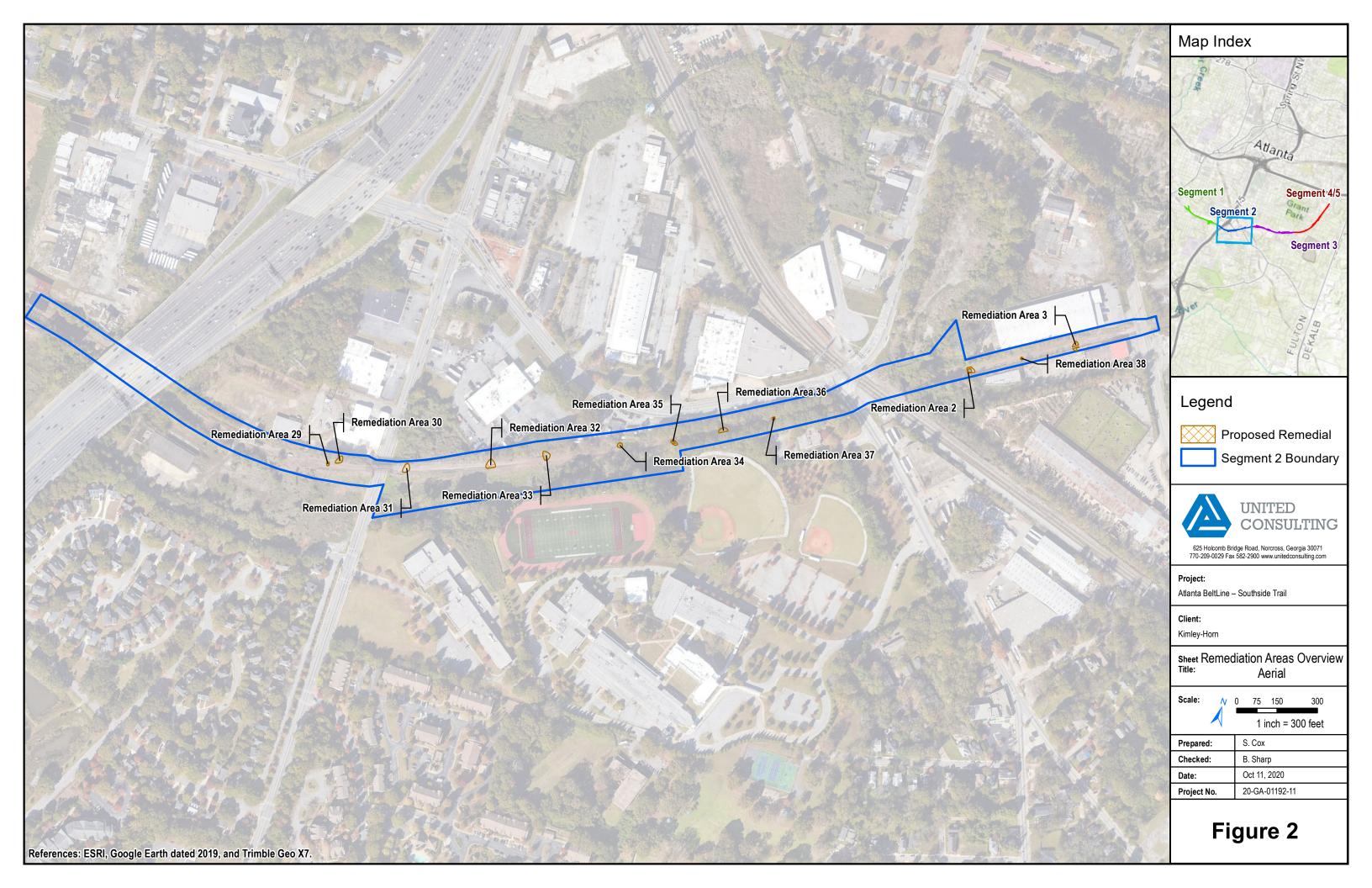
Laboratory Analytical Testing Reports

### **ATTACHMENT A**

Figure 1 – Segment Location Overview – Street Map Figure 2 – Remediation Areas Overview – Aerial







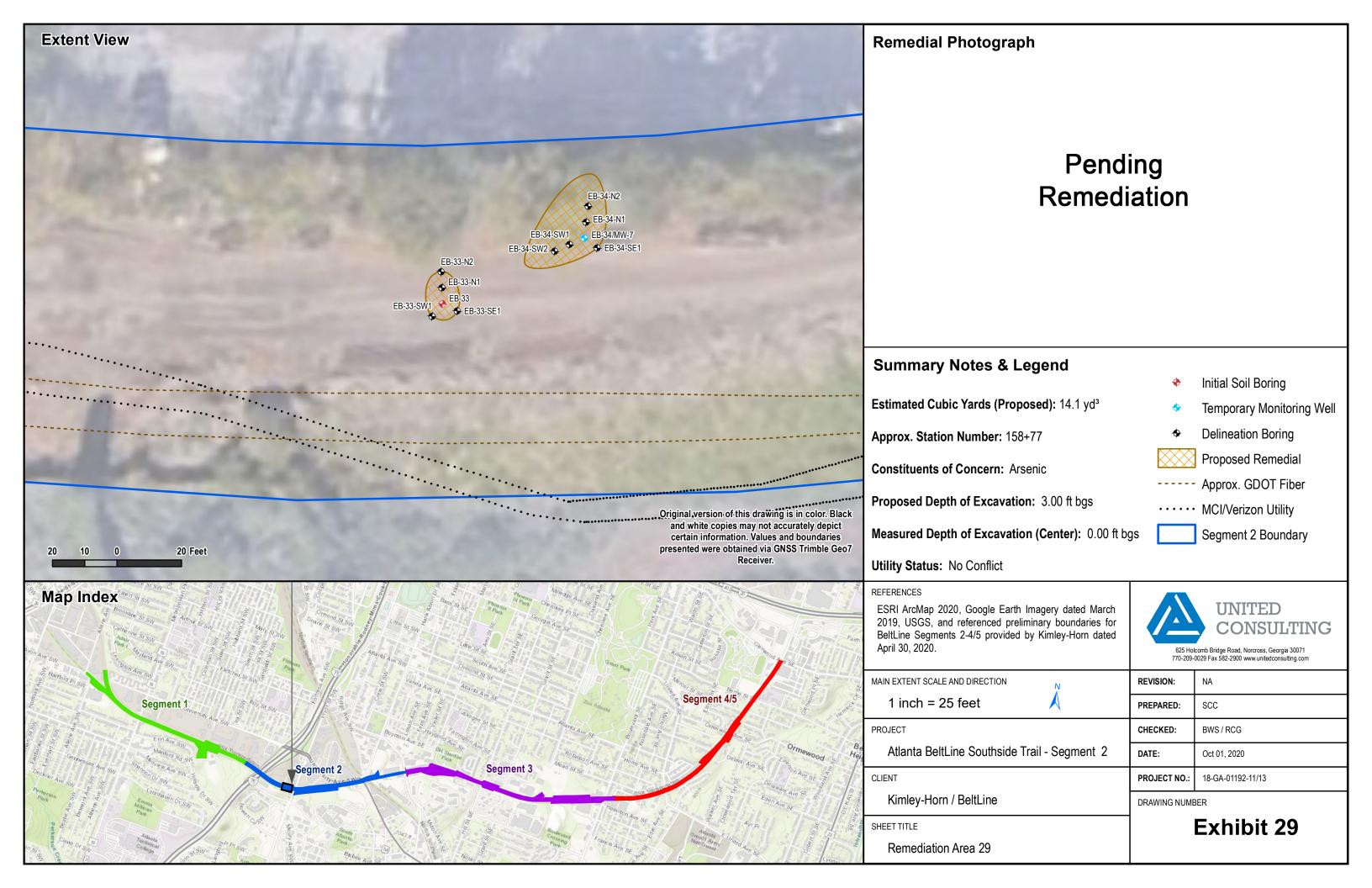
# **ATTACHMENT B**

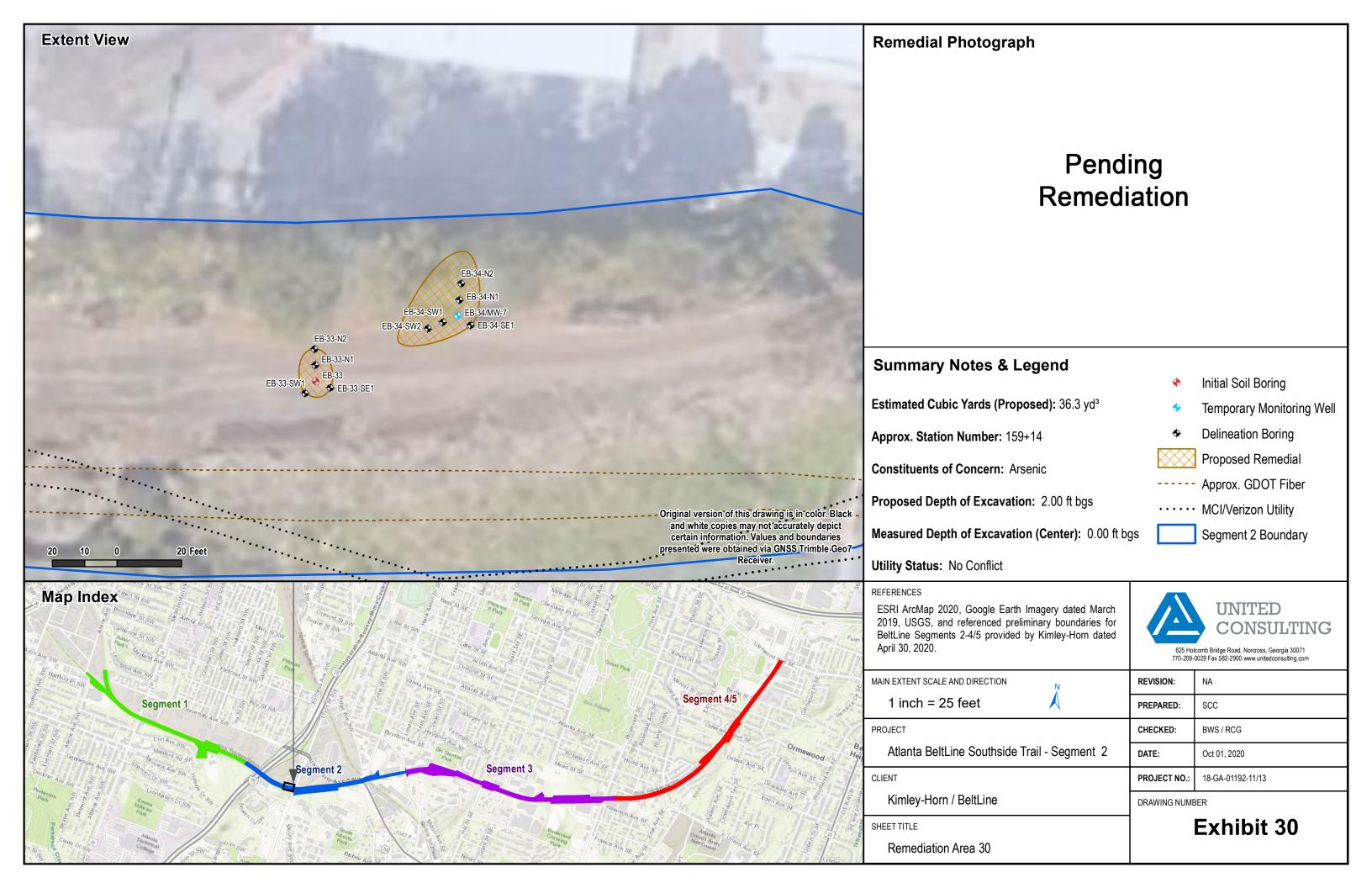
Exhibits 2, 3, and 29 through 38

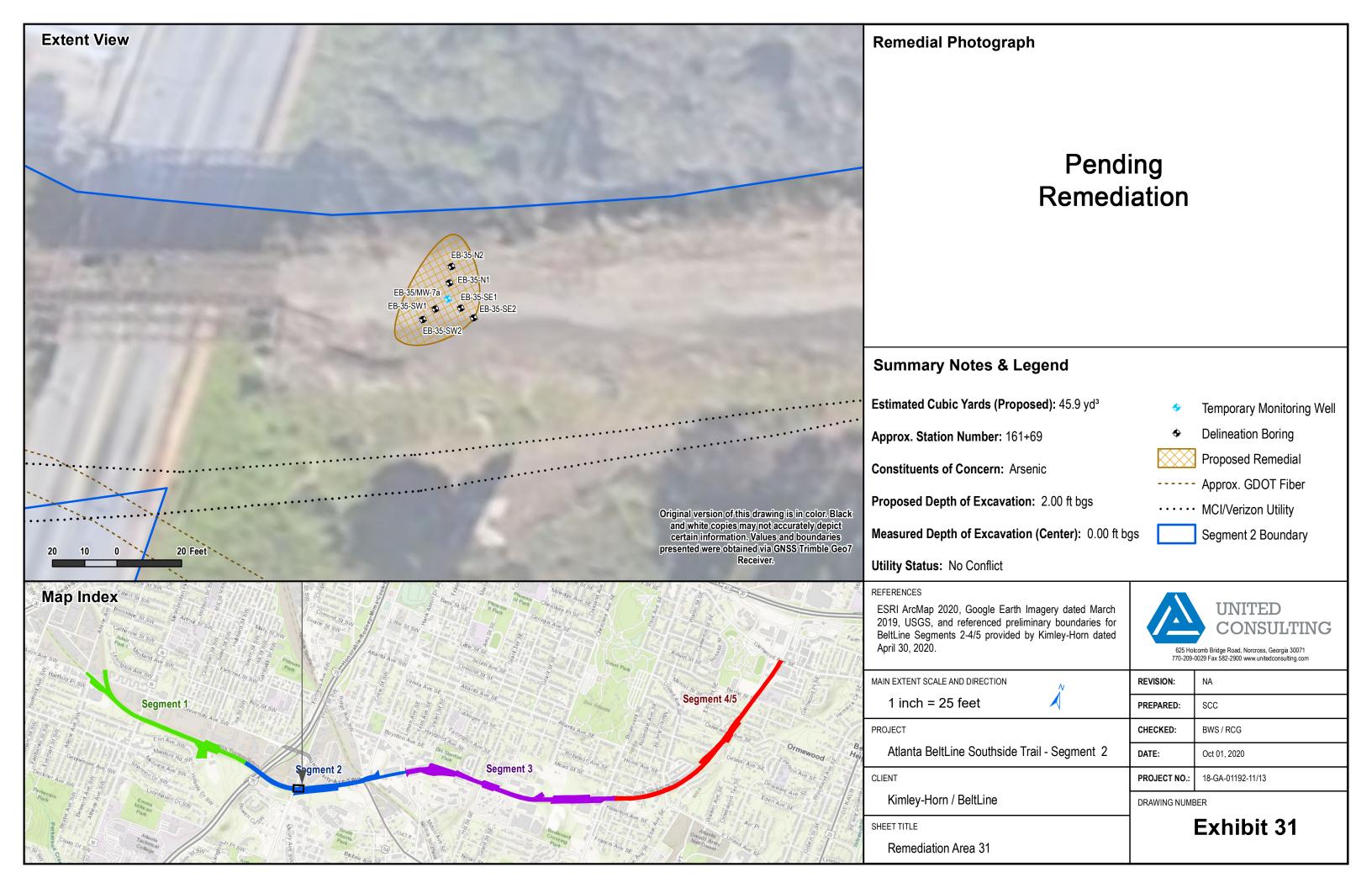


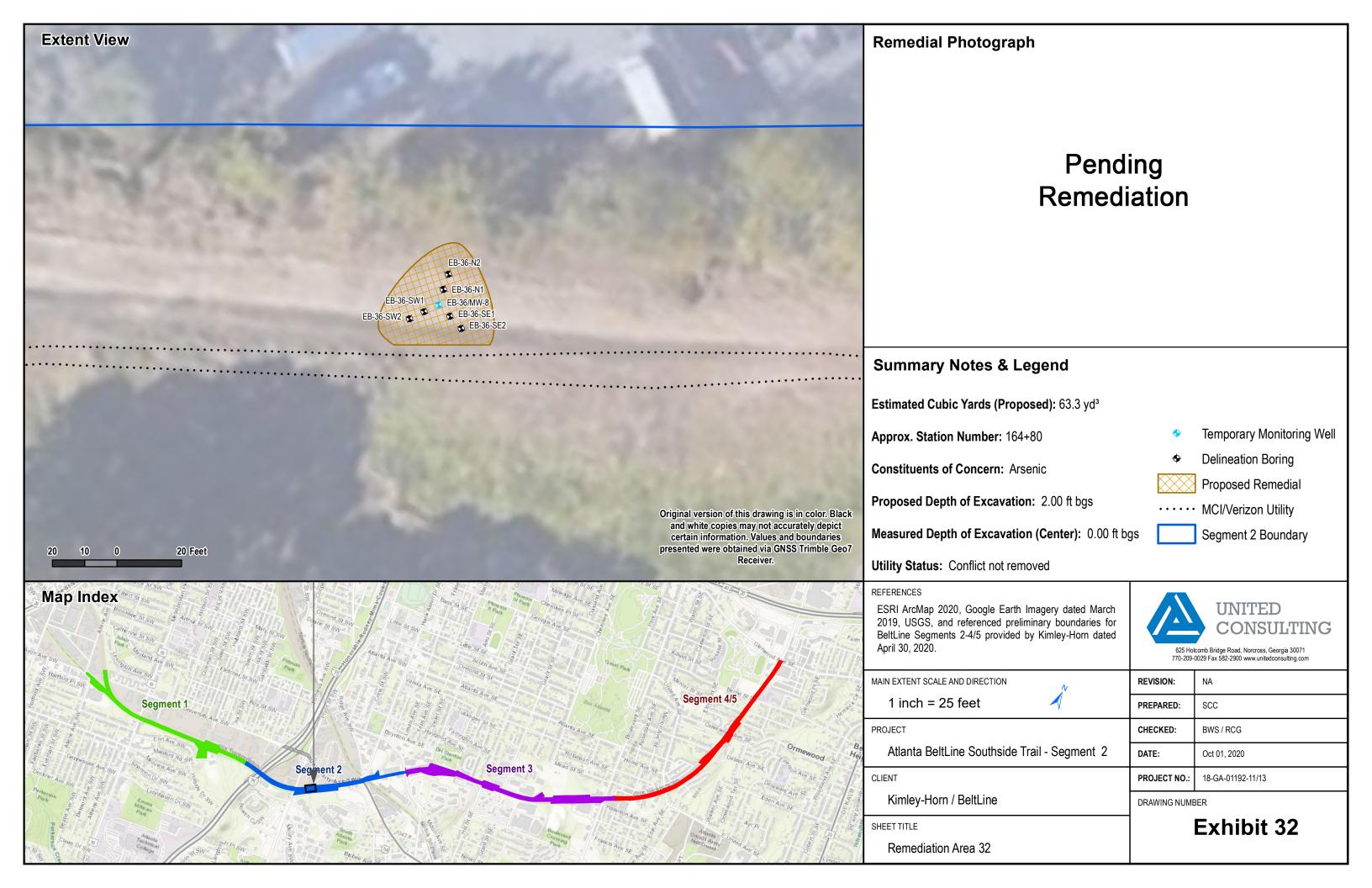


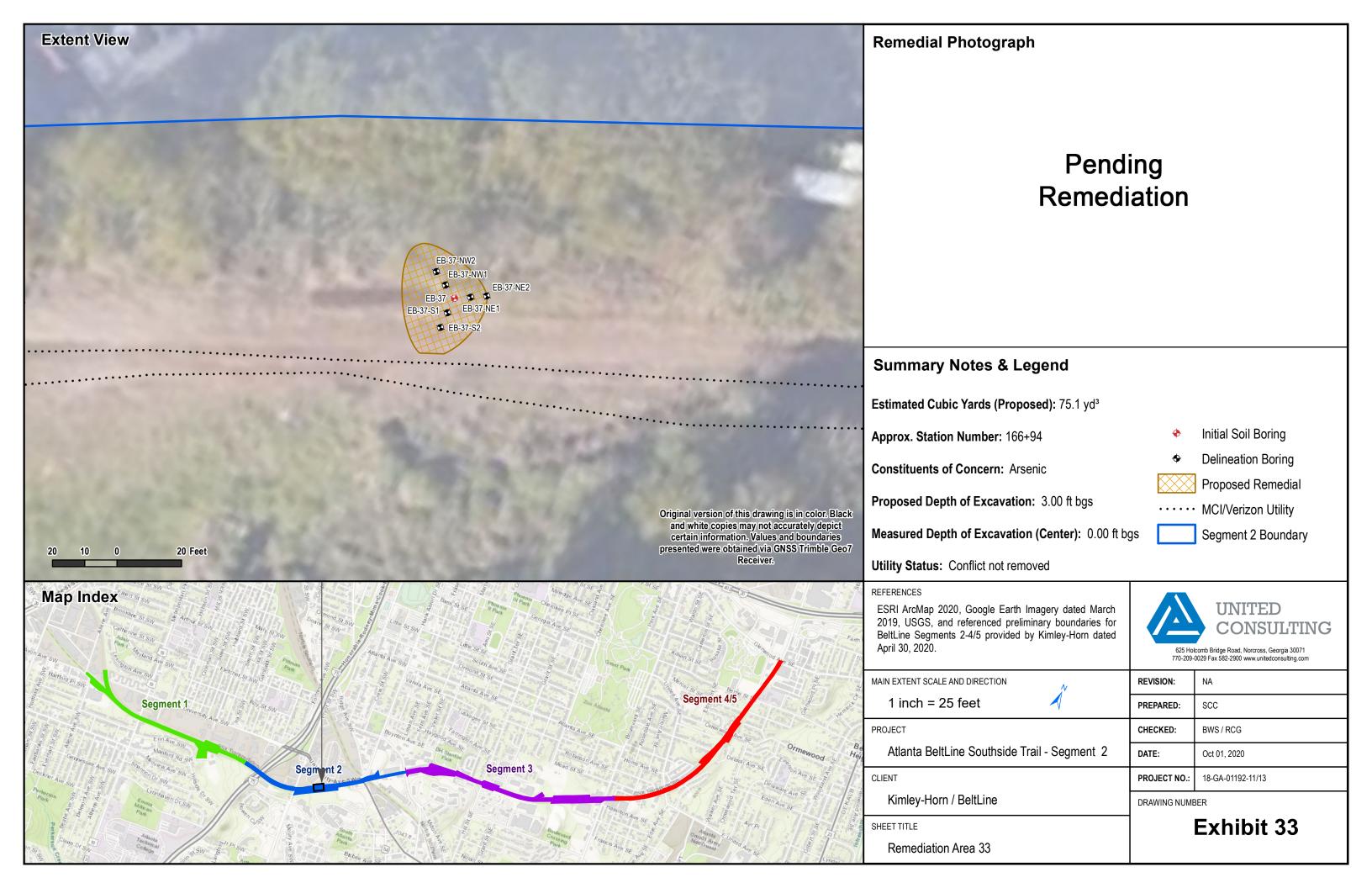


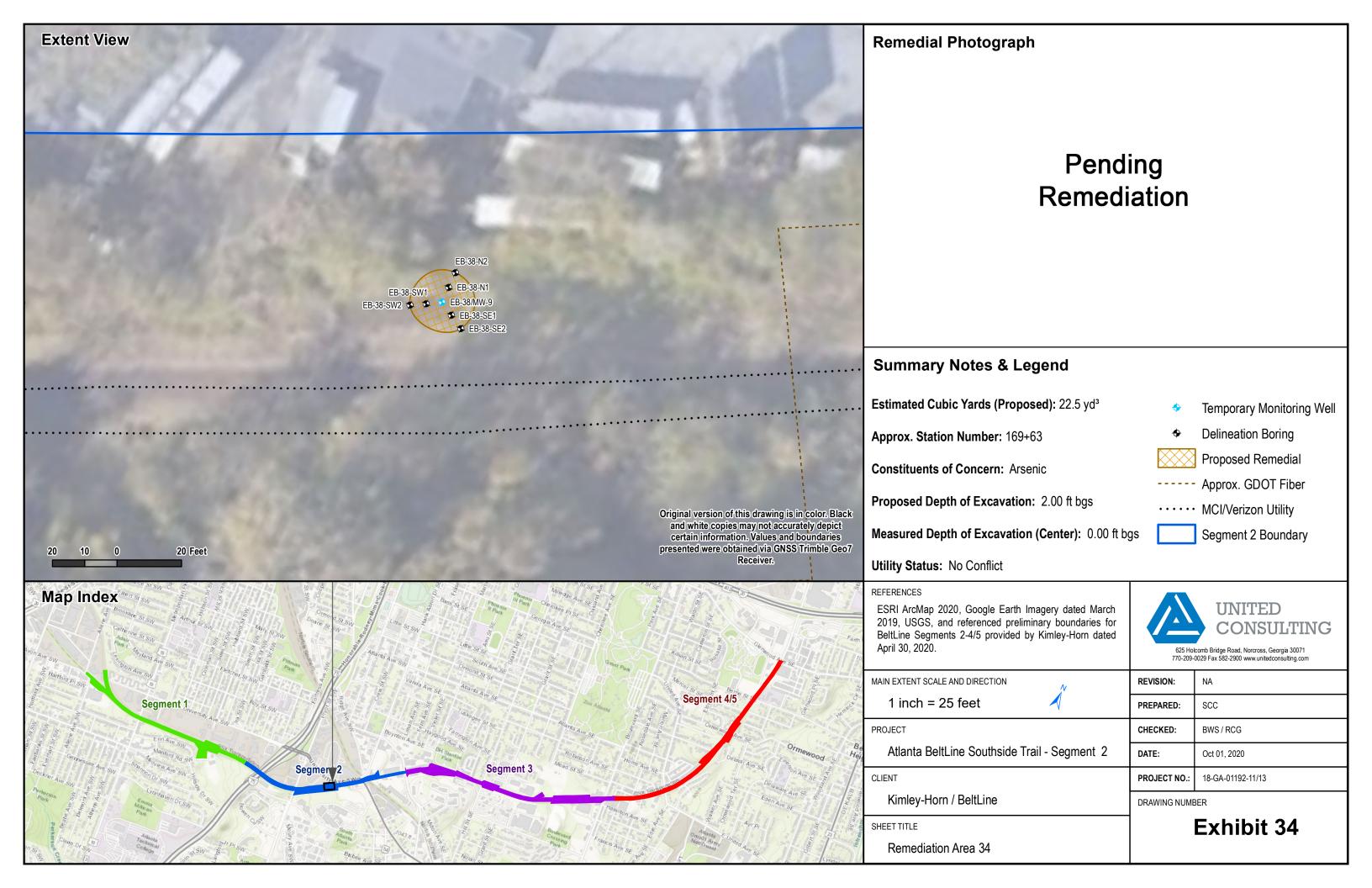


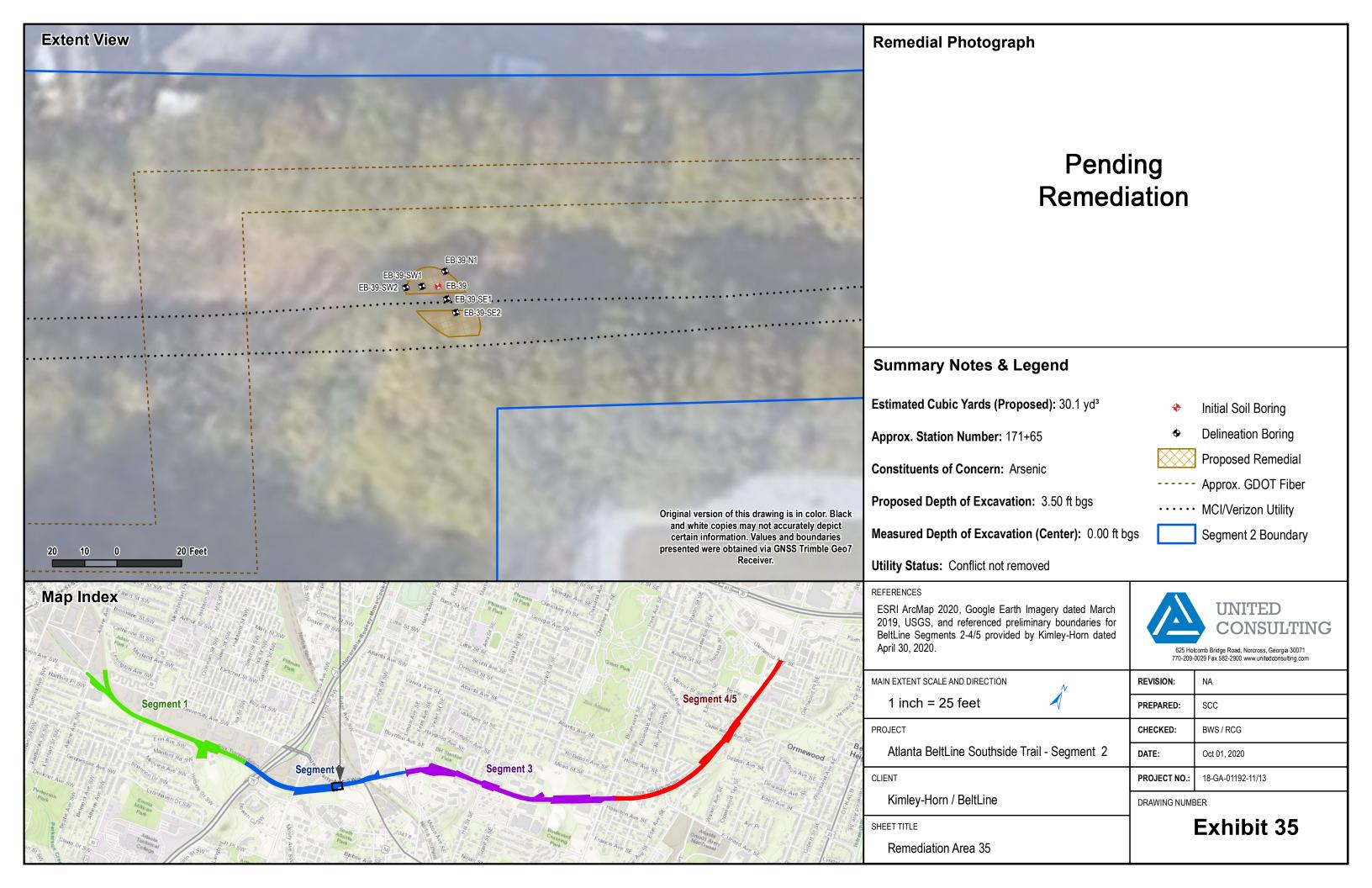


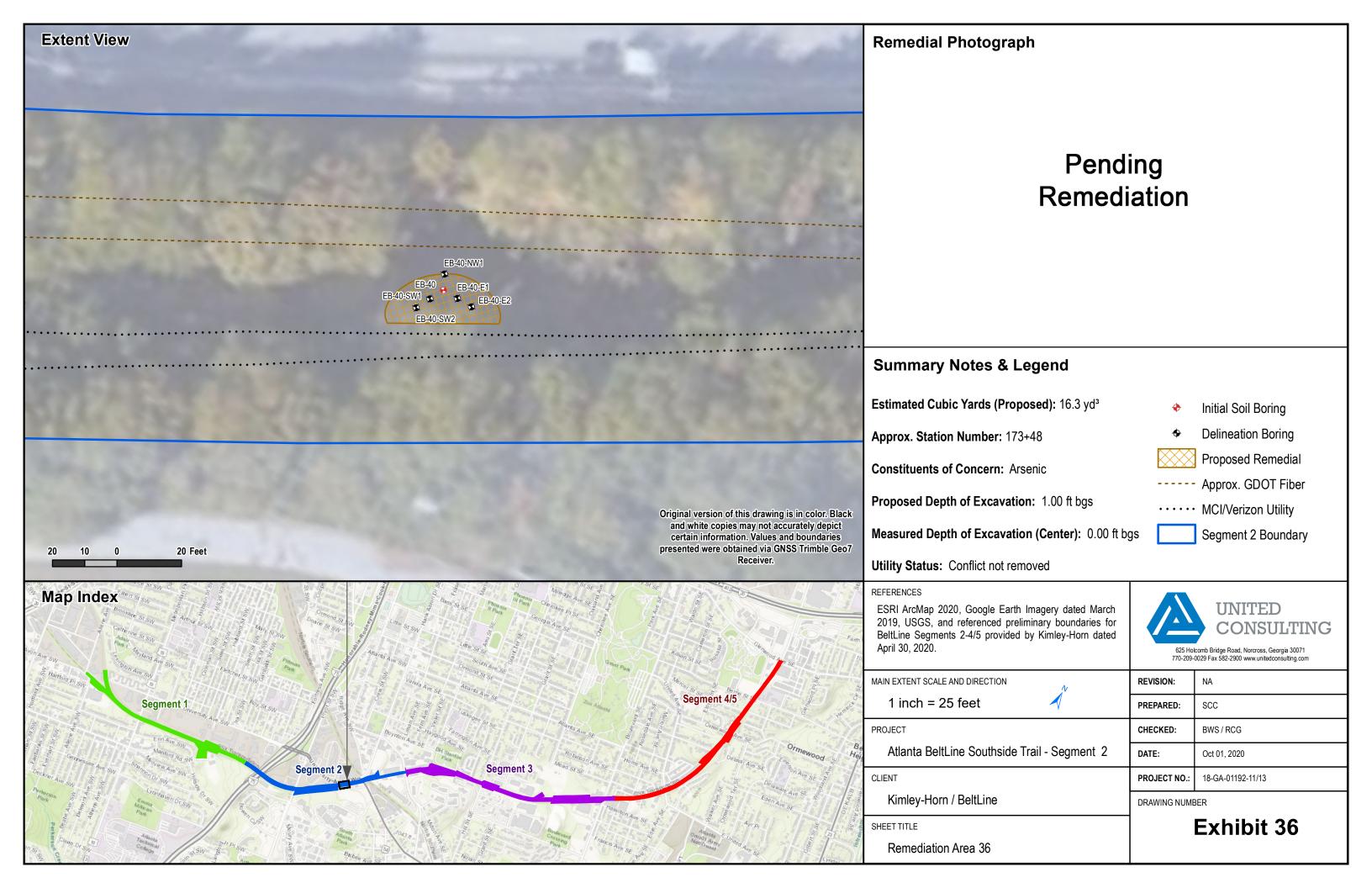


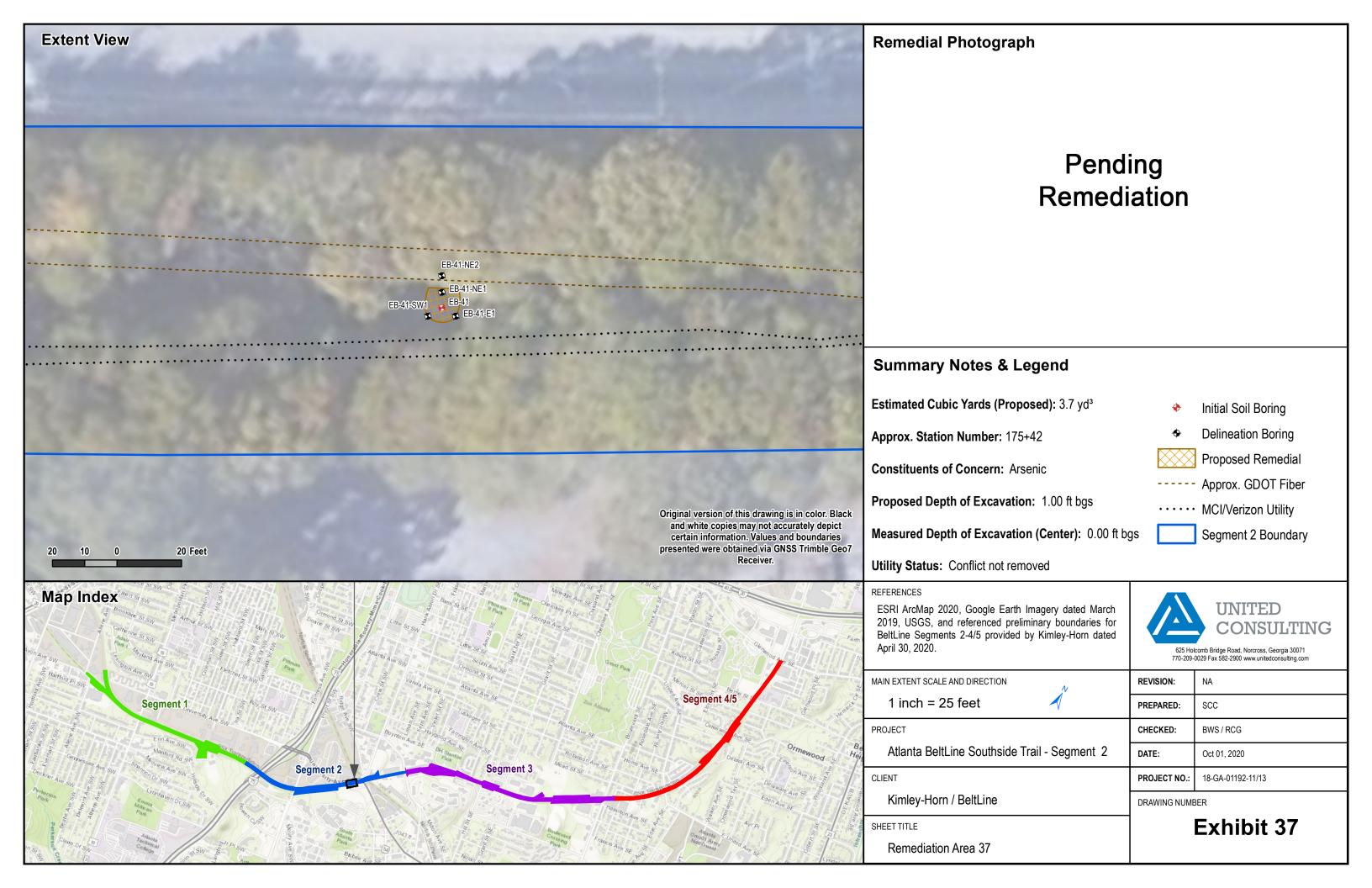


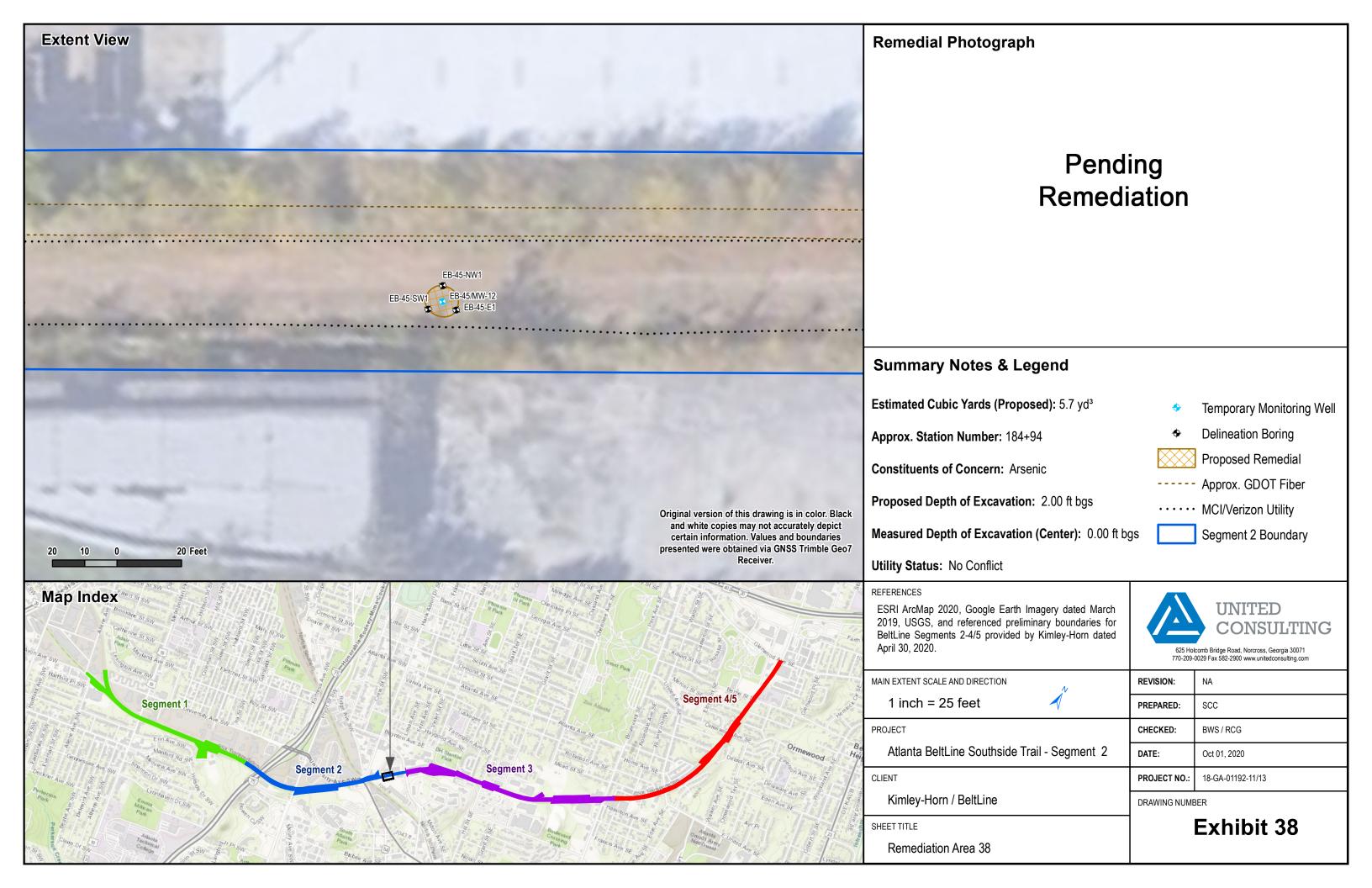












### **ATTACHMENT C**

Table 1 – Summary of Pre-Excavation Site Characterization Sampling Results

Table 2 – Summary of Estimated Soil Remediation Volumes Per Remediation Area

Table 3 – Remediation Cut/Fill Analysis and Approach



TABLE 1: SUMMARY OF PRE-EXCAVATION SITE CHARACTERIZATION SAMPLING RESULTS

Note	es:				RCRA-Meta	als (ma/Ka)	VOCs	SVOCs	(ua/Ka)
		— Initial Sample with E	Exceedance			(***3***3/	(ug/Kg)		(99/
		<ul><li>Water Table</li></ul>							sne
		<pre>&lt; ##.## — Reporting Limit for Office Control</pre>	Constituent					ЭС	ace
		NR — Not Required (Analy	sis or Remediation)		<u>.</u>	_	ЭС	yreı	nth
		CSNR — Confirmation Sampl	e Not Required due to	utility conflict	Arsenic	Lead	Benzene	(a)p	ora
		XX-#-NW# — Represents Sample	Id, direction, and itera	ation	Ars	T	Ber	Benzo(a)pyrene	<u>=</u>
		(VALUE) — Value in parathesis	is a duplicate sample					Ber	Z) (C
	Pr	roposed Elev. — Red - Cut / Yellow -	Balance / Green - Fill						Benzo(b)fluoranthracene
				Tuno 2/4	38	400	500	1,640	5,000
		Highlighted indicates value greater that	in RRS	Type 3/4 Type 5	63	<del>4</del> 00			<u> </u>
		Sample ID	Depth	Date Collected		Atlanta	BeltLine Seg	ment 2	
		EB-44	0-2	6/1/2018	144	108	<220	8400	18000
2	95	EB-44A	3-4	7/15/2020 &	8.93	_	_	< 450	< 450
ea	32+	DUP-26	3-4	9/4/2020	8.02	_	_	_	_
Ā	: 18	EB-44-NW1	0-1		107			<420	<420
ion	O u	EB-44-NW2	0-1		109			_	
liat	Station ID: 182+95	EB-44-S1	0-1		91	_	_	<370	510
nec	Sta	EB-44-S2	0-1	3/8/2019	24.3	_	_		
Remediation Area 2	Арр.	EB-44-E1	0-1		213			<390	<390
_	Α	EB-44-E2	0-1		71.3			_	-
		Soil Remediation Dates:	5/10/2019 & TBD	Evieti	ng Elevation:	982.00'	Propos	ed Elevation:	978.77'
		Sample ID	Depth	Date Collected	ng Lievation.		BeltLine Seg		310.11
		EB-46	0-2	6/1/2018	158	132	<250	2900	
		EB-46R	2-3	0/1/2010	<2.91	—		1900 <460	2900
3	Station ID: 187+00	EB-46-N1	0-2	7/15/2020	71.7			3800	
rea	187	EB-46-N2	0-2	7/13/2020	394	_		830	
n A	D: ,	EB-46-SE1	0-2		55.1			2500	
tio	l uc	EB-46-SE2						12000	
dia	tatic	SE3	0-1 —		40.7	Evenyete	- to Droporty F		
Remediation Area 3		EB-46-W1	0-1	3/11/2019	51.1	Excavate	xcavate to Property Boundary  -		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Арр.	EB-46-W2	0-1		54.8	_			
		EB-46-E1	0-1		19.5			<390	
		Soil Remediation Dates:	5/10/2019 & TBD	Evicti	ng Elevation:	976.50'	Propos	ed Elevation:	075 46'
				Date Collected	ng Elevation.		BeltLine Seg	975.46'	
29	177	Sample ID EB-33	Depth		262				1400
ea.	Station ID: 158+77	EB-33A	0-2 2-3	6/5/2018	262	64	<7.0	430	1400
Ā	D: 1	EB-33-N1			40.8			_	
ior	luc		0-2	7/00/0000	38.6	_		_	
Jiat	atic	EB-33-N2	0-2	7/20/2020	22.6	_	_	_	_
Remediation Area 29	S.	EB-33-SE1	0-2		11.5	_	_	_	_
Rei	Арр.	EB-33-SW1	0-2	Cvieti	7.7	000 501	Dranas	—	004 501
		Soil Remediation Dates:	TBD		ng Elevation:	983.50'		ed Elevation:	981.50'
		Sample ID EB-34	Depth	Date Collected	44.7		BeltLine Seg		-100
			0-2	6/6/2018	41.7	47	< 330	< 400	<400 < 400
30	-14	DUP-6	0-2	6/6/2018	31.8	46.9	< 340	< 400	
ea.	59-	EB-34	23-25	6/7/2018	< 4.25	9.01	< 5.2	< 350	< 350
Remediation Area 30	Station ID: 159+14	EB-34A EB-34-N1	2-3	1	6.43	_	_	_	
tior	l uc	EB-34-N2	0-2 0-2		91 46.4	_	_	_	
dia	tatic	EB-34-SE1	0-2	7/20/2020	10.5	_	_		
me	). Si			112012020		_	_	_	
Rei	Арр.	DUP-30	0-2	-	13.1			_	_
_	1	EB-34-SW1	0-2		306			_	
		EB-34-SW2	0-2		200		— Dana a sa		000 441
		Soil Remediation Dates:	TBD	Existi	ng Elevation:	982.36'	Propos	ed Elevation:	980.14'

TABLE 1: SUMMARY OF PRE-EXCAVATION SITE CHARACTERIZATION SAMPLING RESULTS

Note	es:	Initial Sample with E	vreedance		RCRA-Meta	ıls (mg/Kg)	VOCs (ug/Kg)	SVOCs	(ug/Kg)
	Pr	— Water Table  <##.## — Reporting Limit for C  NR — Not Required (Analy  CSNR — Confirmation Sample	Constituent sis or Remediation) e Not Required due to Id, direction, and itera is a duplicate sample	ation	Arsenic	Lead	Benzene	Benzo(a)pyrene	Benzo(b)fluoranthracene
			- DDC	Type 3/4	38	400	500	1,640	5,000
		Highlighted indicates value greater tha	II KKS	Type 5	63	_	_	_	_
		Sample ID	Depth	Date Collected		Atlanta	a BeltLine Seg	ment 2	
_	6	EB-35	0-2	6/5/2020	70.8	67.4	<7.0	<380	520
Remediation Area 31	Station ID: 161+69	EB-35A	2-3		10.8	_	_	_	
Are	: 16	EB-35-N1	0-2		146	_	_	_	
u C	٩١	EB-35-N2	0-2		558	_	_	_	
atic	tior	EB-35-SE1	0-2	7/17/2020	169	_	_	_	
edi	Sta	EB-35-SE2	0-2		15.2	_		_	
em	Арр.	EB-35-SW1	0-2		430	_	_	_	
œ	A	EB-35-SW2	0-2		89.5	_	_	_	
		Soil Remediation Dates:	TBD	Existi	ng Elevation:	982.10'	Propos	ed Elevation:	981.25'
		Sample ID	Depth	Date Collected		Atlanta	BeltLine Seg	ment 2	
		EB-36	0-2	6/5/2018	120	127	<8.3	720	1800
32	180	EB-36A	2-3		13.9	_	_	_	_
ea	164	EB-36-N1	0-2		176	_	_	_	_
Ā	D: 1	DUP-29	0-2		186	_	_	_	_
Remediation Area 32	n l	EB-36-N2	0-2	7/17/2020	153	_	_	_	
dia	Station ID: 164+80	EB-36-SE1	0-2	7/17/2020	232	_	_	_	
me		EB-36-SE2	0-2		128	_		_	
Re	Арр.	EB-36-SW1	0-2		123	_		_	
		EB-36-SW2	0-2		130	_		_	
		Soil Remediation Dates:	TBD	Existi	ng Elevation:	982.30'	Propos	ed Elevation:	980.55'
		Sample ID	Depth	Date Collected		Atlanta	a BeltLine Seg		
က	4	EB-37	0-2	6/5/2018	418	112	<6.1	520	1500
3	5+9	EB-37A	3-4		106	_	_	_	_
Are	: 16	EB-37-NE1	0-2		154	_	_	_	_
diation Area 33	ation ID: 166+94	EB-37-NE2	0-2		37.5	_	_	_	_
iati	tioi	EB-37-S1	0-2	7/17/2020	306	_	_	_	_
peu	St	EB-37-S2	0-2		304	_	_	_	_
Remed	Арр.	EB-37-NW1	0-2		257	_	_	—	_
ш.	A	EB-37-NW2	0-2		70.6	_	_	_	_
		Soil Remediation Dates:	TBD		ng Elevation:	982.04'		ed Elevation:	980.27'
		Sample ID	Depth	Date Collected			BeltLine Seg	ment 2	
	~	EB-38	0-2	6/14/2018	183	65.9	<5.2	<410	700
34	+63	EB-38A	2-3		183	_	_	_	_
rea	169	EB-38-N1	0-2		233			_	
пA	:□	EB-38-N2	0-2		22.8			_	
Remediation Area 34	Station ID: 169+63	EB-38-SE1	0-2	7/16/2020	61.2		_	_	
dia	itati	EB-38-SE2	0-2		20.6		_	_	
me	p. S	EB-38-SW1	0-2	1	114		_	_	
Re	Арр.	DUP-28	0-2		98.2	_	_	_	_
		EB-38-SW2	0-2		18.4			_	
		Soil Remediation Dates:	TBD	Existi	ng Elevation:	983.99'	Propos	ed Elevation:	983.00'

TABLE 1: SUMMARY OF PRE-EXCAVATION SITE CHARACTERIZATION SAMPLING RESULTS

Note	es:	Initial Sample with E	xceedance		RCRA-Meta	ıls (mg/Kg)	VOCs (ug/Kg)	SVOCs	(ug/Kg)
	P	Water Table <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	sis or Remediation) e Not Required due to ld, direction, and itera s a duplicate sample	ation	Arsenic	Lead	Benzene	Benzo(a)pyrene	Benzo(b)fluoranthracene
	Highlighted indicates value greater than RRS		Type 3/4	38	400	500	1,640	5,000	
				Type 5	63		— a BeltLine Seg	— — — — — — — — — — — — — — — — — — —	_
		Sample ID EB-39	Depth	Date Collected	04				440
35	+65	DUP-2	0-2 0-2	6/5/2018	81 118	73.7	<300 <300	<410	<b>410</b> <400
ea	17	EB-39A	2-3		379	58.6		<400	<b>\400</b>
Remediation Area 35	Station ID: 171+65	EB-39-N1	0-2		32.3		_	_	
tio	on l	EB-39-N1 EB-39-SE1	0-2		167			_	
dia	tati	EB-39-SE2	0-2	7/16/2020	144			_	
me		EB-39-SW1	0-2		451		_	_	
Re	Арр.	EB-39-SW2	0-2		<2.05				
		Soil Remediation Dates:	TBD	Evieti	ng Elevation:	984.00'		ed Elevation:	981.94'
		Sample ID	Depth	Date Collected	ng Lievation.		BeltLine Seg		301.34
		EB-40	0-2	6/5/2018	226	115	<300	660	1500
36	173+48	EB-40A	2-3	0/0/2010	<2.12				_
rea	173	EB-40-NW1	0-2		2.94	_	_	_	_
n A	: :	DUP-27	0-2		<2.07	_			_
Remediation Area 36	Station ID:	EB-40-E1	0-2	7/16/2020	134	_	_		_
l iğ	Stat	EB-40-E2	0-2		225	_	_	_	_
ΙË	App. §	EB-40-SW1	0-2		162	_	_	_	_
ĕ	Ap	EB-40-SW2	0-2	•	330	_	_	_	_
		Soil Remediation Dates:	TBD	Existi	ng Elevation:	984.00'	Propos	ed Elevation:	984.00'
_	2	Sample ID	Depth	Date Collected		Atlanta	BeltLine Seg	ment 2	
3	175+42	EB-41	0-2	6/5/2018	72.3	54.4	<5.2	<410	1000
Are	17	EB-41A	2-3		<2.26	_	_	_	_
l a	Station ID:	EB-41-NE1	0-2		59.6		_	_	_
atic	tior	EB-41-NE2	0-2	7/15/2020	35.2	_	_	_	_
edi		EB-41-E1	0-2		<2.37	_		_	_
Remediation Area 37	Арр.	EB-41-SW1	0-2		<2.11	_	_	_	_
œ	A	Soil Remediation Dates:	TBD		ng Elevation:	984.00'	Propos	ed Elevation:	984.90'
æ	14	Sample ID	Depth	Date Collected		Atlanta	a BeltLine Seg	ment 2	
a 3	34+6	EB-45	0-2	6/1/2018	46.4	24.1	<5.5	<400	<400
Are	1:18	EB-45A	2-3	•	22.2	_	_	_	_
ou		EB-45-NW1	0-2	•	<2.24	_	_	_	_
iati	Station ID: 184+94	EB-45-E1	0-2	7/15/2020	37.7		_	_	_
рəц	Sta	DUP-25	0-2 0-2		34.7	_	_	_	_
Remediation Area 38	Арр.	EB-45-SW1		13.9	_	_	_	_	
		Soil Remediation Dates:	TBD	Existi	ng Elevation:	978.50'	Propos	ed Elevation:	977.12'

#### General Notes:

Station Numbers, distances, and elevations are approximate

Elevations were determined using nearest schematic shown on plans relative to Station Numbers

Elevations of proposed fill, insufficient fill (for the required soil cap), and cut are respectively highlighted in green, yellow, and red

Table 2 - Summary of Estimated Soil Remediation Volumes Per Remediation Area

Remediation Area	Segment	Sample ID	Constituents <sup>1</sup>	Delineated Area (sq. ft.)	Added Area Following Removal of Conflicted Utilities (sqft.)*	Remediation Depth (ft)	Actual Remediated Depth (ft)	Cubic Feet (ft³)	Cubic Yards (yd³)	Tons ^	w/20% Contingency
2	2	EB-44	As, B[a]P, B[b]F	382	Conflict not being removed / Previously Remediated for non- Arsenic	3.0	3.12, TBD	1146	42.4	64	76
3	2	EB-46	As, B[a]P	371	Conflict not being removed / Previously Remediated for benzo(a)pyrene	2.5	2.64, TBD	928	34.4	52	62
29	2	EB-33	As	127	NA	3.0	TBD	381	14.1	21	25
30	2	EB-34	As	490	NA	2.0	TBD	980	36.3	54	65
31	2	EB-35	As	620	NA	2.0	TBD	1240	45.9	69	83
32	2	EB-36	As	854	Conflict not being removed	2.0	TBD	1708	63.3	95	114
33	2	EB-37	As	676	Conflict not being removed	3.0	TBD	2028	75.1	113	135
34	2	EB-38	As	304	NA	2.0	TBD	608	22.5	34	41
35	2	EB-39	As	232	Conflict not being removed	3.5	TBD	812	30.1	45	54
36	2	EB-40	As	441	Conflict not being removed	1.0	TBD	441	16.3	25	29
37	2	EB-41	As	100	Conflict not being removed	1.0	TBD	100	3.7	6	7
38	2	EB-45	As	77	NA	2.0	TBD	154	5.7	9	10
								Totals:	389.8	585	702

#### Notes:

^, Using a 1.50 tons/cu.yd. Multiplier

Assumes vertical excavation sidewalls with no setbacks or benching

TBD - To Be Determined; Remediation is pending

1 - Constituents Key:

As — Arsenic

B[a]P — Benzo(a)pyrene

B[b]F — Benzo(b)fluoranthene

Pb — Lead

<sup>&</sup>lt;sup>2</sup> Utility removal unknown at this time; Entire Remedial Area in conflict with Utility

<sup>\*</sup> Applies to non-arsenic constituents. NA means not applicable, as additional arsenic removal is not required due to the Type 5 RRS approach

**Table 3 - Remediation Cut/Fill Analysis and Approach** 

Location	Segment	Remediation Area	Station Number <sup>1</sup>	Centerline Distance <sup>1</sup> (ft)	Side of Cross Section <sup>1</sup>	Approx. Excavation Cross-sectional Width <sup>1</sup> (ft)	Existing Elevation <sup>1</sup> (ft amsl)	Proposed Elevation <sup>1</sup> (ft amsl)	Difference in Elevation (ft)	Difference in Elevation with Required Cap <sup>2</sup> (ft)	Depth to Clean Sample (ft)	Required Excavation Depth (ft)	Cut or Fill <sup>2</sup>
EB-44	2	2	182+95	3.9	Right	35	982.00	978.77	-3.23	-4.23	3.00	-3.00	Cut
EB-46	2	3	187+00	22	Right	30	976.50	975.46	-1.04	-2.04	2.00	2.50	Cut
EB-33	2	29	158+77	23	Right	15	983.50	981.50	-2.00	-3.00	NVD	-3.00	Cut
EB-34	2	30	159+14	5	Right	25	982.36	980.14	-2.22	-3.22	2.00	-2.00	Cut
EB-35	2	31	161+69	25	Right	35	982.10	981.25	-0.85	-1.85	2.00	-2.00	Cut
EB-36	2	32	164+80	5	Right	35	982.30	980.55	-1.75	-2.75	2.00	-2.00	Cut
EB-37	2	33	166+94	13	Left	40	982.04	980.27	-1.77	-2.77	NVD	-3.00	Cut
EB-38	2	34	169+63	4	Left	20	983.99	983.00	-0.99	-1.99	NVD	-2.00	Cut
EB-39	2	35	171+65	15	Right	25	984.00	981.94	-2.06	-3.06	NVD	-3.50	Cut
EB-40	2	36	173+48	2	Right	20	984.00	984.00	0.00	-1.00	2.00	-1.00	Cut
EB-41	2	37	175+42	2	Left	12	984.00	984.90	0.90	-0.10	2.00	-1.00	Cut
EB-45	2	38	184+94	12	Right	12	978.50	977.12	-1.38	-2.38	2.00	-2.00	Cut

NVD - Not Vertically Delineated (for arsenic)

<sup>&</sup>lt;sup>1</sup>Based on plans currently-available plans as provided by Kimley Horn

# **ATTACHMENT D**

**Boring Logs** 





# **ENVIRONMENTAL BORING LOG**

Boring ID : EB-44

CLIENT:	SITE LOCATION:					
Atlanta Beltline, Inc.	Atlanta Beltline Southsid	Atlanta Beltline Southside Trail				
PROJECT NAME: Atlanta Beltline - Southside Trail	WATER LEVEL - IMMEDIATE: <b>N/A</b>					
PROJECT NUMBER:	DRILLING METHOD/TYPE:	SAMPLING METHOD:				
17-GA-01192-02	Hand Auger	Hand Auger				
LOGGED BY:	DATE DRILLED:	BORING DEPTH:				
Jay Fagan & Brandon Sharp	6/1/2018	5 ft bgs				
DRILLING CONTRACTOR AND EQUIP:	X COORDINATE/LAT (ft):	Y COORDINATE/LONG (ft):				
United Consulting	-84.386904085314	33.722254360273				

DRILLING <b>U</b> r	CONT nited	RACTOR Cons	R AND EQUIP: ulting			X COORDINATE/LA -84.3869	Γ (ft): <b>040853</b> 1	14	Y COORDINATE/LONG (ft): 33.722254360273
			LITHOLOGY			SAMPLES			
DEPTH BELOW GROUND SURFACE (ft)	WATER LEVEL	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	DEPTH (Ft)	RECOVERY (%)	SAMPLE	OVM READING (PPM)	DEPTH (Ft)	NOTES
0			Black to dark grey sandy SILT; trace track ballast (Fill)	- 0				0	
-				-0.4 0.8 	100	EB-44 (0-2)	0		Possible slag @ 0 to 2.5 ft bgs
-			Light tan to reddish brown clayey SILT (Residual)	-2.4 2.8 2.8 3.2 3.6 4	100		0		
5 —			Hand auger terminated @ 5 ft bgs; dry	-4.4 4.8 5.2 5.6				5	
				-					OVM - Organic Vanor Meter

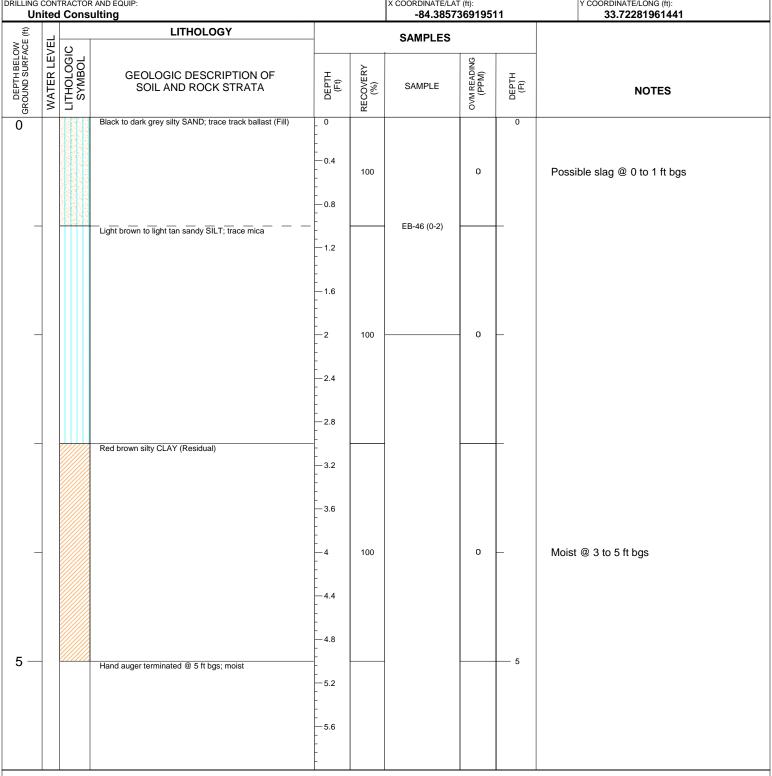
Notes: ft bgs is feet below ground surface OVM = Organic Vapor Meter
BGS = Below Ground Surface
TOD = Time of Drilling
H:/Strater Boring Logs/



# ENVIRONMENTAL BORING LOG

Boring ID : EB-46

CLIENT:	SITE LOCATION:					
Atlanta Beltline, Inc.	Atlanta Beltline Southsid	Atlanta Beltline Southside Trail				
PROJECT NAME:	WATER LEVEL - IMMEDIATE:					
Atlanta Beltline - Southside Trail	N/A					
PROJECT NUMBER:	DRILLING METHOD/TYPE:	SAMPLING METHOD:				
17-GA-01192-02	Hand Auger	Hand Auger				
LOGGED BY:	DATE DRILLED:	BORING DEPTH:				
Jay Fagan & Brandon Sharp	6/1/2018	5 ft bgs				
DRILLING CONTRACTOR AND EQUIP:	X COORDINATE/LAT (ft):	Y COORDINATE/LONG (ft):				
United Consulting	-84.385736919511	33.72281961441				



Notes: ft bgs is feet below ground surface

OVM = Organic Vapor Meter BGS = Below Ground Surface TOD = Time of Drilling

H:/Strater Boring Logs/



**Boring ID: EB-33** 

	_	7	CONSULTING	BORING LOG					Bolling ID . LD-00
				50		2 200			
CLIENT:	lants	a Relti	ine, Inc.			SITE LOCATION:	eltline (	Southside Tr	rail
ROJECT	NAME	:				WATER LEVEL - IMI		Journalue 11	uii ei
			ine - Southside Trail			N/A			
ROJECT		BER: -01192	0.03			DRILLING METHOD			SAMPLING METHOD:  Hand Auger
OGGED F		-01192	-02			Hand Aug	ger		BORING DEPTH:
Ja	y Fa		Brandon Sharp			6/5/2018			5 ft bgs
			R AND EQUIP:			X COORDINATE/LA			Y COORDINATE/LONG (ft):
	ited	Cons				-84.3940	3643054	1	33.719356350578
(¥) ⊑	ا یے ا		LITHOLOGY			SAMPLES			
DEPTH BELOW GROUND SURFACE (ft)	WATER LEVEL	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	DEPTH (Ft)	RECOVERY (%)	SAMPLE	OVM READING (PPM)	DEPTH (Ft)	NOTES
0			6" Track ballast	_ 0				0	
_			Black to dark grey silty SAND (Fill)	-0.4	100	EB-33 (0-2)	o		
_	_			-1.6					
			Reddish brown clayey SILT	-2.4					

-2.8

-3.2

**—** 3.6

-4

-4.8

-5.2

-5.6

100

0

- 5

Notes: ft bgs is feet below ground surface

Hand auger terminated @ 5 ft bgs; dry

5



PROPOSED ID:

WELL ID: FR-3//MW-7

CLIEN <b>Atlar</b>		eltlin	ne, Inc.		LOCATION: anta Beltline	South	side Trail	CONSTR. 6/6/201			
PROJE					ING METHOD:			CONSTR.			
			ne - Southside Trail		ect Push		6/6/201				
PROJE					LING CONTRAC	TOR AN	D EQUIP:		DEVELOPMENT DATE:		
17-0			2-02		as Geo		N/A		WATER REPTU		
LOGGI			Brandon Sharp		PLING METHOD  Oot Continue		mnlor	N/A	KOONDW	VATER DEPTH:	
	l ay	a 11 CX		4-1	oot Continu	ous Sa	impiei	IN/A	T		
Depth (feet)	nscs	Graphic Log	LITHOLOGY		SAMPLES		SKETCH			NOTES	
0			Reddish brown sandy SILT (Fill)	% REC	Sample ID	OVM					
Ü	ML		, ,						_		
			Black silty SAND; crushed slag	_	ED				Black	crushed slag (approx 1/2"	
-	SM			100	EB-34 (0-2)	0			fragme	crushed slag (approx. 1/2" ents) @ 1.5 to 3 ft bgs	
		3053	Reddish brown sandy clayey SIL	<sub>T</sub> -					-		
4 -	ML										
т											
			Reddish brown sandy SILT; trace	clay							
-				75		0			_		
8 -	ML										
	IVIL								-		
_				75		0			L		
				"							
									-		
12 -			Light brown to light grey sandy SI	I T					<u> </u>		
			(Residual)	-							
-	1			65		0			_		
									-		
16 -											
10											
									<u> </u>		
-	ML			65		0			_		
_											
20 -	1										
									-		
_				60		0					
									-		
24 -	-		Black to white SAND; PWR	25	EB-34 (23-25)	0			_		
	SM								No well	I installed, dry	
			Boring terminated @ 25 ft bgs; dr	У							
IOTES	 }				Surface Elev.:		Surface Completion:	Filter Pack Type:		Screen Length:	
Monit	oring	Well	(MW-7) not installed; dry	Time of Drilling Groundwater Lev	984 ft AMSL TOC Elev.:		N/A Riser Height (Surface):	N/A Well Diameter:		N/A Screen Slot Size:	
locatio	n				N/A		N/A	N/A		N/A	
			<u></u>	24-Hour Groundwater Lev	Northing/Lat.: -84.393900726	023	Annular Fill Type: N/A	Borehole Diameter	r:	Bottom of Screen: N/A	
				$\triangle$	34.000000720		1975			1973	



PROPOSED ID: WELL ID:

EB-35/MW-7a

- 28 -	-		Reddish brown to orangish brov sandy CLAY	wn silty		0		-	- Saturated @ 28 ft bgs		
- 24 -	-			60		0		- -	-		
- 20 -	ML			60		0		- - - -	-		
- 16 -				50		0		-	-		
- 12 -	-		Light brown to light grey sandy (Residual)	SILT 50		0		 	_		
8 -	ML			60		0			-		
4 -			Reddish brown to light brown so SILT; trace clay	andy 100	EB-35 (0-2)	0		-	-		
O Depth (feet)	SOS N	Graphic	LITHOLOGY  Black sandy SILT; trace track b and pulverized slag (Fill)	% REC	SAMPLES Sample ID	OVM	SKETCH		NOTES		
Jay	DGGED BY:  Jay Fagan & Brandon Sharp  (199) SS				oot Continu		•		STATIC GROUNDWATER DEPTH:  34.59 ft bgs		
ROJE	ita Be CT NI <b>6A-0</b> 1	JMBI		DRILL	ect Push LING CONTRAC as Geo	TOR AND	D EQUIP:	6/5/2018  DEVELOPMENT DATE: 6/12/2018			
ROJE	CT N	AME:		DRILI	anta Beltline LING METHOD:		side Trail	<b>6/5/2018</b> CONSTR. COMP:			



PROPOSED ID: WELL ID:

EB-36/MW-8

LIEN Atla		eltlin	e, Inc.		LOCATION: lanta Beltline	Souths	ide Trail	CONSTR. S 6/5/2018		
	ECT N		c, 1110.		LING METHOD:		ide Itali	CONSTR. C		
			e - Southside Trail	Di	ect Push			6/5/2018	8	
	ECT N				LING CONTRAC	TOR AND	DEVELOPN		TE:	
	<b>3A-0</b> ′ ED BY		-02		las Geo PLING METHOD	۸-		6/6/2018		ATER DEPTH:
			Brandon Sharp		Foot Continu		nnler	22.43 ft		ATER DEPTH.
_	T age	🛈	Drandon Gnarp	7	oot oontina	Jus Juli	ipici	22.73 10	bys	
Depth (feet)	nscs	Graphic Log	LITHOLOGY	% REC	SAMPLES Sample ID	OVM	SKETCH			NOTES
0	ML ML		6" Track ballast; black sandy SILT Black sandy SILT (Fill)		Sample 1D	OVM	300			
4	ML		Orangish brown to yellowish brow sandy SILT; trace clay; some mica (Residual)	n 100	EB-36 (0-2)	0			Relict ro bgs 	ock structures visible @ 2 to 5
+			; to light brown	75		0			_	
3	_								_	
	<u> </u> 			95		0			 _	
2	ML			90		0				
5	SM		Light brown silty SAND	— 90		0				oist @ 19 ft bgs
)	ML		Dark brown sandy SILT; trace mic	a		0			_	
4			Light grey to light brown silty SAN						_	
	SM			10		0			_	ed @ 25 ft bgs
8	_		Boring terminated @ 28 ft bgs; saturated				888		– PWR @ —	27 ft bgs
TE		watio	n is approximate.	Time of Drilling	Surface Elev.: 984 ft AMSL		Surface Completion: Flush Mount with Cap	Filter Pack Type:		Screen Length:
ai id	og Elt	valiO	g	roundwater Le	TOC Elev.:		Riser Height (Surface):  0.0 ft bgs	Well Diameter:		Screen Slot Size: 0.01"
			0	Broundwater Le	Northing/Lat.: -84.392139473	3771	Annular Fill Type: Sand	Borehole Diameter: 3.25"	:	Bottom of Screen: 28 ft bgs
				Development Broundwater Le			Annular Sealant Type:  Bentonite	Top of Screen: 18 ft bgs		Bottom of Well: 28 ft bgs



Boring ID : EB-37

JECT	NAM	E:	ne, Inc. ne - Southside Trail			Atlanta E WATER LEVEL - IM N/A		Southside Tr	ail		
OJECT	NUMI	BER: -01192				DRILLING METHOD Hand Au	)/TYPE: ger		SAMPLING METHOD: Hand Auger		
GGED E	y Fa	igan &	Brandon Sharp			DATE DRILLED: 6/5/2018 X COORDINATE/LA	T (ft):		BORING DEPTH:  5 ft bgs  Y COORDINATE/LONG (ft):		
Un	ited	Cons	ulting	1		-84.3915		33.720123728372			
CE (#)	É	0	LITHOLOGY	_		SAMPLES					
GROUND SURFACE (ft)	WATER LEVEL	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	DEPTH (Ft)	RECOVERY (%)	SAMPLE	OVM READING (PPM)	DEPTH (Ft)	NOTES		
)			6" Track ballast	_ 0				0			
			Black to dark grey silty SAND; trace track ballast and grave (Fill)								
_	-			- 	100	EB-37 (0-2)	o	_			
				- - - - - - 1.6							
_	-		Reddish brown silty CLAY	- - 2 -							
_				- 2.8 - - -				_			
				-3.2 - - - - -3.6	100		o				
_				4							
				- - 4.4							
				- - 4.8 -				<u> </u>			
			Hand auger terminated @ 5 ft bgs; dry	-5.2							

-5.6



Boring ID : EB-38

€ LITHOLOGY	SAMPLES					
United Consulting	-84.390701505228	33.720443481665				
DRILLING CONTRACTOR AND EQUIP:	X COORDINATE/LAT (ft):	Y COORDINATE/LONG (ft):				
Jay Fagan & Brandon Sharp	6/14/2018	2 ft bgs				
LOGGED BY:	DATE DRILLED:	BORING DEPTH:				
17-GA-01192-02	Hand Auger	Hand Auger				
PROJECT NUMBER:	DRILLING METHOD/TYPE:	SAMPLING METHOD:				
Atlanta Beltline - Southside Trail	N/A	N/A				
PROJECT NAME:	WATER LEVEL - IMMEDIATE:					
Atlanta Beltline, Inc.	Atlanta Beltline Southsic	Atlanta Beltline Southside Trail				
CLIENT:	SITE LOCATION:	SITE LOCATION:				

DRILLING	CONT	<b>FRACTO</b>	R AND EQUIP: Sulting			X COORDINATE/LA -84.3907	T (ft):	28	Y COORDINATE/LONG (ft): 33.720443481665
	пеа	CONS	LITHOLOGY			•	0100022	20	33.720443401003
DEPTH BELOW GROUND SURFACE (ft)	WATER LEVEL	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	DEPTH (Ft)	RECOVERY (%)	SAMPLES	OVM READING (PPM)	DEPTH (Ft)	NOTES
-	WAT	HITH CITY CITY CITY CITY CITY CITY CITY CITY	Reddish brown sandy SILT (Fill)  Hand auger terminated @ 2 ft bgs; dry	-0.4 -0.8 -1.2 -1.6 -2.4 -2.8 -3.2 -4.4	THE CONTRACTOR (%)	SAMPLE	OVMR (PP)		NOTES
5 —				- - - 5.2 - - - - - - 5.6				5	
				<u> </u>					
Note									OVM = Organic Vapor Meter

Notes: ft bgs is feet below ground surface

OVM = Organic Vapor Meter BGS = Below Ground Surface TOD = Time of Drilling

H:/Strater Boring Logs/



Boring ID: EB-39

CLIENT: Atlanta Beltline, Inc.	SITE LOCATION: Atlanta Beltline Southside	e Trail				
PROJECT NAME: Atlanta Beltline - Southside Trail	WATER LEVEL - IMMEDIATE: <b>N/A</b>					
PROJECT NUMBER: 17-GA-01192-02	DRILLING METHOD/TYPE:  Hand Auger	SAMPLING METHOD:  Hand Auger				
LOGGED BY: Jay Fagan & Brandon Sharp	DATE DRILLED: 6/5/2018	BORING DEPTH: 5 ft bgs				
DRILLING CONTRACTOR AND EQUIP: United Consulting	X COORDINATE/LAT (ft): -84.390093130659	Y COORDINATE/LONG (ft): 33.720650777052				
€ LITHOLOGY	OAMBI EQ	_				



Notes: ft bgs is feet below ground surface



Boring ID : EB-40

CLIENT:	SITE LOCATION:	
Atlanta Beltline, Inc.	Atlanta Beltline Southside	e Trail
PROJECT NAME:	WATER LEVEL - IMMEDIATE:	
Atlanta Beltline - Southside Trail	N/A	
PROJECT NUMBER:	DRILLING METHOD/TYPE:	SAMPLING METHOD:
17-GA-01192-02	Hand Auger	Hand Auger
LOGGED BY:	DATE DRILLED:	BORING DEPTH:
Jay Fagan & Brandon Sharp	6/5/2018	5 ft bgs
DRILLING CONTRACTOR AND EQUIP:	X COORDINATE/LAT (ft):	Y COORDINATE/LONG (ft):
United Consulting	-84.389562405661	33.720920662306

DRILLING C	ONT	RACTOR	R AND EQUIP:			X COORDINATE/LA -84.3895	T (ft):	<u> </u>	Y COORDINATE/LONG (ft): 33.720920662306	
	tea	Cons	LITHOLOGY				0240300	D1	33.720920662306	
DEPTH BELOW GROUND SURFACE (ft)	WATER LEVEL	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	DEPTH (Ft)	RECOVERY (%)	SAMPLES	OVM READING (PPM)	DEPTH (Ft)	NOTES	
0			Black to dark grey silty SAND; trace track ballast (Fill)	-0.4	100	EB-40 (0-2)	0	-		
			Light brown to light tan sandy SILT; trace clay — — —	-2.4	100		0			
5 —			Hand auger terminated @ 5 ft bgs; dry	-4.4 -4.4 -4.8 -5.2				5		
Notes				5.6   					<b>OVM</b> = Organic Vapor Meter	

Notes: ft bgs is feet below ground surface



Boring ID: EB-41

CLIENT:	SITE LOCATION:	
Atlanta Beltline, Inc.	Atlanta Beltline Southside	e Trail
PROJECT NAME: Atlanta Beltline - Southside Trail	WATER LEVEL - IMMEDIATE: <b>N/A</b>	
PROJECT NUMBER:	DRILLING METHOD/TYPE:	SAMPLING METHOD:
17-GA-01192-02	Hand Auger	Hand Auger
LOGGED BY:	DATE DRILLED:	BORING DEPTH:
Jay Fagan & Brandon Sharp	6/5/2018	5 ft bgs
DRILLING CONTRACTOR AND EQUIP:	X COORDINATE/LAT (ft):	Y COORDINATE/LONG (ft):
United Consulting	-84.389010429242	33.721179248771

DRILLING Ur	CONT ited	RACTOR Cons	R AND EQUIP: ulting			X COORDINATE/LA <sup>-</sup> -84.3890	T (ft): 1042924	12	Y COORDINATE/LONG (ft): 33.721179248771		
			LITHOLOGY			SAMPLES					
DEPTH BELOW GROUND SURFACE (ft)	WATER LEVEL	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	DEPTH (Ft)	RECOVERY (%)	SAMPLE	OVM READING (PPM)	DEPTH (Ft)	NOTES		
0			Black to dark grey sandy SILT (Fill)	- 0				0			
_	-		light brown to light tan sandy SILT; trace mica and clay	-0.4 -0.8 -1.2	100	EB-41 (0-2)	0	_			
_				-2				_			
_				- 2.4 - - - - - - 2.8 - -				_			
				-3.2 	100		0				
_	-			- -4 -				_			
				- 4.4 							
5 —			Hand auger terminated @ 5 ft bgs; dry	4.8				<del></del> 5			
				5.2 							
				-5.6 -							
									OVM - Organic Vapor Meter		

Notes: ft bgs is feet below ground surface OVM = Organic Vapor Meter
BGS = Below Ground Surface
TOD = Time of Drilling
H:/Strater Boring Logs/



PROPOSED ID: WELL ID:

EB-45/MW-12

CLIENT: Atlanta Beltli	ine, Inc.	SITE LOCATION: Atlanta Beltline	Southside Tra		R. START: 1 <b>18</b>		
PROJECT NAM	E: ine - Southside Trail	DRILLING METHOD: Direct Push			CONSTR. COMP: 6/1/2018		
PROJECT NUMI		DRILLING CONTRAC	CTOR AND EQUIP:	DEVELC 6/7/20	PMENT DATE:		
LOGGED BY:  Jay Fagan	& Brandon Sharp	SAMPLING METHOD  4-Foot Continu	-		STATIC GROUNDWATER DEPTH:  17.95 ft bgs		
Depth (feet) USCS Graphic	LITHOLOGY	SAMPLES		SKETCH	NOTES		
0	Black to dark gray silty SAND: trace	% REC Sample ID	OVM				

Jay	Faga	an &	Brandon Sharp	4-F	oot Continue	ous S	Sampler	17.95 ft bgs
Depth (feet)	nscs	Graphic Log	LITHOLOGY		SAMPLES		SKETCH	NOTES
0	SM		Black to dark gray silty SAND; trace track ballast (Fill) Reddish brown to yellowish brown CLAY (Residual)	% REC	Sample ID  EB-45 (0-2)	OVM 0		- - -
4 -	CL			100		0		
8 -	_			100		0		
-	- ML		Dark brown to dark reddish brown SILT; trace sand; micaceous	95		0		Relict rock structures visible @ 12.5 ft bgs  Relict rock structures visibel @ 16 ft bgs
20 -	- ML		Reddish brown sandy SILT; micaceou	100		0	ESS .	- - - - -
-	-		Boring terminated @ 20 ft bgs; saturated					- - -
24 -	_							- - - - -
NOTES	 			of Prilling	Surface Elev.:		Surface Completion: File	lter Pack Type: Screen Length:

NOTES	
Surface Elevation is approximate.	Time of Dri Groundwater
	24-Hou
	Groundwater
	$\triangle$

	Su
illing	98
r Level	TO N
	IN
ır r Level	No
	-8
nent	Ea

	Surface Elev.:	Surface Completion:			
Time of Drilling	980 ft AMSL	Flush Mount with Cap			
Groundwater Level	TOC Elev.:	Riser Height (Surface):			
	N/A	0.0 ft bgs			
24-Hour Groundwater Level	Northing/Lat.:	Annular Fill Type:			
A CIOUNIUWALCI LEVEI	-84.386340691671	Sand			
Development	Easting/Long.:	Annular Sealant Type:			
Groundwater Level	33.722532596897	Bentonite			

	Filter Pack Type:	Screen Length:
р	Sand	10 ft
	Well Diameter:	Screen Slot Size:
	1"	0.01"
	Borehole Diameter:	Bottom of Screen:
	3.25"	20 ft bgs
	Top of Screen:	Bottom of Well:

20 ft bgs

10 ft bgs

### **ATTACHMENT E**

**Laboratory Analytical Testing Reports** 



## ANALYTICAL ENVIRONMENTAL SERVICES, INC.



July 24, 2020

Spencer Cox United Consulting Group Inc.

625 Holcomb Bridge Rd

Norcross

GA

30071

RE: Atlanta Beltline

Dear Spencer Cox: Order No: 2007H20

Analytical Environmental Services, Inc. received

27 samples on

7/16/2020 5:12:00 PM

for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/20-06/30/21.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

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,

Ioana Pacurar

Project Manager

IDana) Pacurar

# 3080 Presidential Parkway, Atlanta GA 30340-3704

ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

Work Order: ZSOUHZO

Date: 7/16/20 Page of 2 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188 ADDRESS COMPANY ANALYSIS REQUESTED 625 HOLCOMB BRIDGE ROAD UNITED Visit our website NORCROSS, GEORGIA 30071 CONSULTING www.aesatlanta.com to 770-209-0029 FAX: 770-582-2900 check on the status of your PHONE FAX: results, place bottle orders, 770-842-8956 Benzo(a)Pyrene RCRA-8 Metals SAMPLED BY: SIGNATURE: Spencer Cox Benzene No # of Containers See codes) PRESERVATION (See codes) # SAMPLE ID REMARKS DATE TIME 50 HOLD EB.46A(2.3) 7 15 20 9:16 50 ER-46-(N1 (0-2) 2 9:25 6 EB-410-N2(0-2) 4:30 So HOLD 50 EB-46 A (2-3) 9:45 EB-45-NWI (0-2) 9:49 50 50 1 EB-45 - NWZ (0-2) HOLD 9:51 8 EB-45-E1 (0-2) 9:55 50 9:58 50 HOLP EB-45- Ez (0-2) EB-45-Swy (0.2) 10:18 50 10:19 50 EB-45-DUP25 EB-45-542 (0-2) 10:20 So MOLD FB-44 A (3-4) 50 0:28 So EB.41-NE1 (0.2) 10:55 HOLD 10:59 80 tB-41 - NEZ (0-2) EB-41-E1 (0.2) 50 15 HOLO 50 EB-41-E2 (0.2) 11:25 16 1 50 EB-41-8W1 (0-2 11:48 7 HOLD 50 EB-41-502 (0-2) 11:49 18 90 19 EO-41A (2-3) 12:01 7/15/20 50 EB-44. 00024 12:05 20 So 7116/20 21 EB-40A (2-8) 9:30 EB-40-NWI (0-2) 9: 59 50 22 1 How 50 9:41 EB-40-NWZ (0-2) 23 9:59 50 EB-40-E1 (0.2) 24 1 50 HOLD 25 EB-40 - E2 (0.2) 10:01 1 EB-40-561 (0-2) 10:05 50 26 (0:08 HOLD 50 27 EB-40-502 (C-2) So 10:10 EO-40-DUD 27 28 So 29 EB-39A (2.3) 10:15 EB-39-NI (0-2) 50 (0:30 EB-39. NZ (0.2) 10:25 50 HOLD 31 EB-39-SEI (0-2) 10:25 So 32 HOLD 50 EB-39-5E2 (0.2) 10:51 19:40 50 EB-39- EWI (0.2) 7/16/20 18:50 HOLD EB-39-5WZ 6-2 50 PROJECT INFORMATION RECEIPT DATE/TIME 7 14 23 PROJECT NAME 35 Total # of Containers **Atlanta Beltline** 13:10 20-GA-01192-11, -12, -13 7/16/20 PROJECT #: **Turnaround Time Request** 9/16/20 SITE ADDRESS: Standard 5 Business Days 0 2 Business Day Rush 7/16/20 0 Spencer Cox Next Business Day Rush 17:17 SEND REPORT TO: SHIPMENT METHOD INVOICE TO: Same Day Rush (auth req.) SPECIAL INSTRUCTIONS/COMMENTS: IF DIFFERENT FROM ABOVE) Other \_ 4 Day Turn OUT VIA: SEGMENTL VIA: CLIENT FedEx UPS MAIL COURIER E-mail? Y/N: Fax? Y/N GREYHOUND OTHER DATA PACKAGE: I Page 2 of 41

# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Parkway, Atlanta GA 30340-3704

CHAIN OF CUSTODY Work Order: ZOTHW

Date: 7 10 20 Page 2 of 2

	TEL.: (770) 457-8177 / TOLL-FR			2-4009 / FAA	. (770)	437-0	100	2										
COMPA	UNITED CONSULTING	ADDRES	S:	625 HOLCO NORCROS 770-209-0029	S. GEC	RGIA	30071			ANA	COSSO WED	S REG	QUES	STED			Visit our website www.aesatlanta.com to check on the status of your	
PHONE	770-842-8956	FAX:		7	70-582	2-290	0	1	e e		200			SIS			results, place bottle orders,	
SAMPI	the state of the s	SIGNATI	URE:	200	7	7		ji	Benzo(a)Pyrene	ene	ARSENIC (	s	S	RCRA-8 Metals			etc.	iners
#	SAMPLE ID	-	SAM	PLED		Composite	Matrix (See codes)	Arsenic			ERVA	NOCS MOIT	SVOCs (See			HOLD	REMARKS	No # of Containers
		DAT	E	TIME	Grab	Com	Matri (See	ı									REWARKS	S.
1	EB-39 A (2.3)	7/10/	20	10:55			So											$\dashv$
2	EB-38-NI (0.2)	1		10:57			So										• • • • • • • • • • • • • • • • • • • •	+
3	EB-38-N2(0.2)			10:58			50		_							1	HOLD	-
4	EB-36-9E1(0.2)			10:59			So		•				-	-			10	-
5	EB-38-582(0.2)			11:01			50		-	-			-		-		NOW	+
6	EB-38-SWI (0-7)			11:10			50		•	-			-	1 3	_			0
7	EB-38-562(0.2)	1		11:15			So			-			-	_			HOLD	•
8	RS-1	716		11:31			W	1-	_	_		_	-			-		1
9	EB-38-DUP 28	7/10	20	11:35			50		_	-		_	-	₽-				_
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11		1						┸	$\perp$	_	_	_			_	-		
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35 DEL 1	NQUISHED BY DATE FIN	HRECE	VFD	BY	,		DATE/TI	ME		Pl	ROJEC	CT IN	FORM	IATIO	ON	M MA	RECEIPT	100
RELI 1:	Mena Level	1:	1	3	7	7	13110	D.	ROJEC	T NA					Beltl	ine	Total # of Containers	9
2:	1 10/2	2:		z /)		71	16/2		ROJEC	CT #:			20-GA	-01192	-11, -1	2, -13	Turnaround Time Request	
	13:10	_	1	Z	7	' {	7:12	s	ITE AI	DDRE	SS:			Atla	inta		Standard 5 Business Days	
		3:	1	3 /	luca 1	7.0	17.12	6	EVID D	SEDOE	T TO:		Sn	encer	Cox		2 Business Day Rush Next Business Day Rush	
1		16	1	SHIPMEN	T METE		17:12	_		CE TO			ОР	5001			Same Day Rush (auth req.)	)
SPEC	CIAL INSTRUCTIONS/COMMENTS:	OUT		/ /	VIA	<b>A</b> :					NT FRO	OM AI	BOVE	)			Other 4 Day Turn	
	CEGMENT 2	IN	CLIE	NT FedEx I	VIA UPS MA		OURIER			_	_	~					STATE PROGRAM (if any):  E-mail? Y/N; Fax? Y/N	-
		17 7.			OTHER			P	O#	R	5	7	)				DATA PACKAGE: I II III	IV
			J					i				V	_		_	-	2	

United Consulting Group Inc. **Client Sample ID:** 

**Client:** EB-46-N1 (0-2) Project Name: Atlanta Beltline **Collection Date:** 7/15/2020 9:25:00 AM

2007H20-002 Lab ID: Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS	SW8270D			(SW.	3546)			
Benzo(a)pyrene	3800	350		ug/Kg-dry	300159	1	07/21/2020 01:28	HL
Surr: 2-Fluorobiphenyl	89.4	54.4-120		%REC	300159	1	07/21/2020 01:28	HL
Surr: 4-Terphenyl-d14	86.6	60.4-120		%REC	300159	1	07/21/2020 01:28	HL
Surr: Nitrobenzene-d5	79	51-120		%REC	300159	1	07/21/2020 01:28	HL
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	71.7	2.04		mg/Kg-dry	300148	1	07/22/2020 09:10	AJ
PERCENT MOISTURE D2216								
Percent Moisture	5.01	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc.

Project Name: Atlanta Beltline

**Lab ID:** 2007H20-004

Client Sample ID: EB Collection Date: 7/1

EB-45A (2-3)

Date:

7/15/2020 9:45:00 AM

24-Jul-20

Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	22.2	2.05		mg/Kg-dry	300148	1	07/22/2020 09:12	AJ
PERCENT MOISTURE D2216								
Percent Moisture	8.89	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-45-NW1 (0-2) Project Name: Atlanta Beltline **Collection Date:** Lab ID: 2007H20-005

Matrix: Soil

7/15/2020 9:49:00 AM

24-Jul-20

Date:

Reporting **Dilution** BatchID Result Analyses Qual Units Date Analyzed Analyst Factor Limit **SW6010D** (SW3050B) **METALS, TOTAL** BRLmg/Kg-dry 300148 07/22/2020 09:15 Arsenic 2.24 AJ PERCENT MOISTURE D2216 16.8 0 wt% R430459 JW Percent Moisture 07/20/2020 00:00

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

Е Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

United Consulting Group Inc. **Client Sample ID:** EB-45-E1 (0-2)

**Client:** Project Name: Atlanta Beltline **Collection Date:** 7/15/2020 9:55:00 AM

Lab ID: 2007H20-007 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW:	3050B)			
Arsenic	37.7	1.91		mg/Kg-dry	300148	1	07/22/2020 09:17	AJ
PERCENT MOISTURE D2216								
Percent Moisture	5.56	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-45-SW1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/15/2020 10:18:00 AM

Lab ID:2007H20-009Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	13.9	2.04		mg/Kg-dry	300148	1	07/22/2020 09:19	AJ
PERCENT MOISTURE D2216								
Percent Moisture	9.87	0		wt%	R430459	) 1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc.

Project Name: Atlanta Beltline Lab ID:

2007H20-010

**Client Sample ID: Collection Date:** 

Matrix:

EB-45DUP 25

24-Jul-20

Date:

7/15/2020 10:19:00 AM

Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	34.7	1.90		mg/Kg-dry	300148	1	07/22/2020 09:22	AJ
PERCENT MOISTURE D2216								
Percent Moisture	4.49	0		wt%	R430459	) 1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

United Consulting Group Inc.

Project Name: Atlanta Beltline

Lab ID: 2007H20-012

**Client:** 

**Client Sample ID:** EB-44A (3-4) **Collection Date:** 

7/15/2020 10:28:00 AM

24-Jul-20

Date:

Matrix: Soil

Analyses	Result	Reporting Limit Qua	ul Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW3	8050B)			
Arsenic	8.93	2.45	mg/Kg-dry	300148	1	07/22/2020 09:24	AJ
PERCENT MOISTURE D2216							
Percent Moisture	21.2	0	wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-41-NE1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/15/2020 10:55:00 AMLab ID:2007H20-013Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	6050B)			
Arsenic	59.6	2.29		mg/Kg-dry	300148	1	07/22/2020 09:31	AJ
PERCENT MOISTURE D2216								
Percent Moisture	18.1	0		wt%	R430459	) 1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-41-E1 (0-2)

Project Name: Atlanta Beltline Collection Date: 7/15/2020 11:15:00 AM

Lab ID:2007H20-015Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	BRL	2.37		mg/Kg-dry	300148	2	07/22/2020 11:44	AJ
PERCENT MOISTURE D2216								
Percent Moisture	17.2	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-41-SW1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/15/2020 11:48:00 AMLab ID:2007H20-017Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	6050B)			
Arsenic	BRL	2.11		mg/Kg-dry	300148	1	07/22/2020 10:22	AJ
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc.

Project Name: Atlanta Beltline

Lab ID: 2007H20-019 **Client Sample ID:** EB-41A (2-3) **Collection Date:** 

7/15/2020 12:01:00 PM

Date:

24-Jul-20

Matrix:

Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	BRL	2.26		mg/Kg-dry	300148	1	07/22/2020 08:54	AJ
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc.

**Project Name:** Atlanta Beltline **Lab ID:** 2007H20-020

Client Sample ID: E Collection Date: 7.

Matrix:

EB-44DUP 26 7/15/2020 12:05:00 PM

24-Jul-20

Date:

Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	8.02	2.21		mg/Kg-dry	300148	1	07/22/2020 09:38	AJ
PERCENT MOISTURE D2216								
Percent Moisture	18.9	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc.

Project Name: Atlanta Beltline Lab ID:

2007H20-021

**Client Sample ID: Collection Date:** 

Matrix:

EB-40A (2-3)

Date:

7/16/2020 9:30:00 AM

24-Jul-20

Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	BRL	2.12		mg/Kg-dry	300148	1	07/22/2020 09:41	AJ
PERCENT MOISTURE D2216								
Percent Moisture	15.2	0		wt%	R430459	) 1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-40-NW1 (0-2) Project Name: Atlanta Beltline **Collection Date:** 7/16/2020 9:38:00 AM Lab ID: 2007H20-022 Matrix: Soil

Reporting Dilution Unite DatahID Date Analyzed Analyst Analyses

Analyses	Result	Limit Quai	Units	Batchid	Factor	Date Analyzed	Anaiyst
METALS, TOTAL SW6010D			(SW3	6050B)			
Arsenic	2.94	2.35	mg/Kg-dry	300148	1	07/22/2020 10:24	AJ
PERCENT MOISTURE D2216							
Percent Moisture	16.6	0	wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank В

Greater than Result value

Е Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

United Consulting Group Inc. **Client Sample ID:** EB-40-E1 (0-2)

**Client:** Project Name: Atlanta Beltline **Collection Date:** 7/16/2020 9:59:00 AM

Lab ID: 2007H20-024 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	134	2.25		mg/Kg-dry	300148	1	07/22/2020 09:45	AJ
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-40-SW1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/16/2020 10:05:00 AMLab ID:2007H20-026Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW.	8050B)			
Arsenic	162	2.30		mg/Kg-dry	300148	1	07/22/2020 09:48	AJ
PERCENT MOISTURE D2216								
Percent Moisture	13.8	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc.

Project Name: Atlanta Beltline Lab ID:

2007H20-028

**Client Sample ID: Collection Date:** 

Matrix:

EB-40DUP 27

Soil

Date:

7/16/2020 10:10:00 AM

24-Jul-20

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	BRL	2.07		mg/Kg-dry	300148	1	07/22/2020 09:50	AJ
PERCENT MOISTURE D2216								
Percent Moisture	13.1	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc.

Project Name: Atlanta Beltline

**Lab ID:** 2007H20-029

Client Sample ID: Collection Date:

Matrix:

EB-39A (2-3) 7/16/2020 10:15:00 AM

24-Jul-20

Date:

Soi

Reporting **Dilution** BatchID Result Analyses Qual Units Date Analyzed Analyst Factor Limit **SW6010D** (SW3050B) **METALS, TOTAL** 379 mg/Kg-dry 300148 07/22/2020 09:52 Arsenic 2.19 AJ PERCENT MOISTURE D2216 15.0 0 wt% R430459 07/20/2020 00:00 JW Percent Moisture

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-39-N1 (0-2)

Project Name:Atlanta BeltlineCollection Date:7/16/2020 10:20:00 AM

Lab ID:2007H20-030Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	32.3	2.21		mg/Kg-dry	300148	1	07/22/2020 09:59	AJ
PERCENT MOISTURE D2216								
Percent Moisture	15.4	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

2007H20-032

Lab ID:

Client:United Consulting Group Inc.Client Sample ID:EB-39-SE1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/16/2020 10:28:00 AM

Matrix: Soil

Date:

24-Jul-20

Reporting **Dilution** BatchID Result Analyses Qual Units Date Analyzed Analyst Factor Limit **SW6010D** (SW3050B) **METALS, TOTAL** 167 mg/Kg-dry 300148 07/22/2020 10:02 Arsenic 2.13 AJ PERCENT MOISTURE D2216 15.2 0 wt% R430459 JW Percent Moisture 07/20/2020 00:00

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-39-SW1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/16/2020 10:40:00 AMLab ID:2007H20-034Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	451	2.57		mg/Kg-dry	300147	1	07/21/2020 11:18	AJ
PERCENT MOISTURE D2216								
Percent Moisture	16.1	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc.

Project Name: Atlanta Beltline Lab ID:

2007H20-036

**Client Sample ID:** EB-38A (2-3)

**Collection Date:** 7/16/2020 10:55:00 AM

Date:

24-Jul-20

Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst		
METALS, TOTAL SW6010D	(SW3050B)									
Arsenic	183	2.23		mg/Kg-dry	300147	1	07/21/2020 11:25	AJ		
PERCENT MOISTURE D2216										
Percent Moisture	17.3	0		wt%	R430459	1	07/20/2020 00:00	JW		

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-38-N1 (0-2)

Project Name: Atlanta Beltline Collection Date: 7/16/2020 10:57:00 AM

**Lab ID:** 2007H20-037 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst		
METALS, TOTAL SW6010D	(SW3050B)									
Arsenic	233	2.27		mg/Kg-dry	300147	1	07/21/2020 11:28	AJ		
PERCENT MOISTURE D2216										
Percent Moisture	15.1	0		wt%	R430459	1	07/20/2020 00:00	JW		

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-38-SE1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/16/2020 10:59:00 AM

**Lab ID:** 2007H20-039 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	61.2	2.07		mg/Kg-dry	300147	1	07/21/2020 11:30	AJ
PERCENT MOISTURE D2216								
Percent Moisture	8.87	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-38-SW1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/16/2020 11:10:00 AMLab ID:2007H20-041Matrix:Soil

Reporting D

Analyses	Result	Reporting Limit	Qual	Units I	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	114	2.60		mg/Kg-dry	300147	1	07/21/2020 11:32	AJ
PERCENT MOISTURE D2216								
Percent Moisture	19.2	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client: United Consulting Group Inc. Client Sample ID: RS-1

Project Name: Atlanta Beltline Collection Date: 7/16/2020 11:31:00 AM

**Lab ID:** 2007H20-043 **Matrix:** Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED	SW6010D				(SV	W3005A)			
Arsenic		BRL	0.0100		mg/L	300152	. 1	07/22/2020 12:43	KB

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

United Consulting Group Inc.

Project Name: Atlanta Beltline Lab ID:

**Client:** 

2007H20-044

**Client Sample ID: Collection Date:** 

EB-38-DUP28

Date:

7/16/2020 11:35:00 AM

24-Jul-20

Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	98.2	2.08		mg/Kg-dry	300147	1	07/21/2020 11:35	AJ
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

# SUMMARY OF ANALYTES DETECTED

Analyses	SCIVIIVI	Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: Collection Date:	EB-46-N1 (0-2) 7/15/2020 9:25:00 AM			Lab ID: Matrix:	2007H20-002 Soil		
POLYAROMATIC 1	HYDROCARBONS	SW8270D		(SW3546)			
Benzo(a)pyrene METALS, TOTAL	SW6010D	3800		350 (SW3050B)	ug/Kg-dry	300159	1
Arsenic PERCENT MOIST		71.7		2.04	mg/Kg-dry	300148	1
Percent Moisture	TURE D2210	5.01		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-45A (2-3) 7/15/2020 9:45:00 AM			Lab ID: Matrix:	2007H20-004 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOIST	TURE D2216	22.2		2.05	mg/Kg-dry	300148	1
Percent Moisture		8.89		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-45-NW1 (0-2) 7/15/2020 9:49:00 AM			Lab ID: Matrix:	2007H20-005 Soil		
PERCENT MOIST	TURE D2216						
Percent Moisture		16.8		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-45-E1 (0-2) 7/15/2020 9:55:00 AM			Lab ID: Matrix:	2007H20-007 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOIST	TURE D2216	37.7		1.91	mg/Kg-dry	300148	1
Percent Moisture		5.56		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-45-SW1 (0-2) 7/15/2020 10:18:00 AM	I		Lab ID: Matrix:	2007H20-009 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOIST	TURE D2216	13.9		2.04	mg/Kg-dry	300148	1
Percent Moisture		9.87		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-45DUP 25 7/15/2020 10:19:00 AM	I		Lab ID: Matrix:	2007H20-010 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOIST	TURE D2216	34.7		1.90	mg/Kg-dry	300148	1
Percent Moisture		4.49		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-44A (3-4) 7/15/2020 10:28:00 AM	I		Lab ID: Matrix:	2007H20-012 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOIST	TURE D2216	8.93		2.45	mg/Kg-dry	300148	1
Percent Moisture		21.2		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-41-NE1 (0-2) 7/15/2020 10:55:00 AM	I		Lab ID: Matrix:	2007H20-013 Soil		
Jonethan Dute.						Page 31 of 4	1

**Date:** 24-Jul-20

# **SUMMARY OF ANALYTES DETECTED**

24-Jul-20

300148 Page 32 of 41

1

mg/Kg-dry

2.30

Date:

	SUMMAR	Y OF ANALY	( LES DI	_			
Analyses		Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
•	1-NE1 (0-2) 2020 10:55:00 AM			Lab ID: Matrix:	2007H20-013 Soil		
	V6010D			(SW3050B)			
Arsenic		59.6		2.29	mg/Kg-dry	300148	1
PERCENT MOISTURE	D2216	37.0		2.27		300140	1
	D2210	10.1		0	wt%	D 420450	1
Percent Moisture		18.1		0	W176	R430459	1
•	1-E1 (0-2)			Lab ID:	2007H20-015		
	2020 11:15:00 AM			Matrix:	Soil		
PERCENT MOISTURE	D2216						
Percent Moisture		17.2		0	wt%	R430459	1
Client Sample ID: EB-4	1-SW1 (0-2)			Lab ID:	2007H20-017		
	2020 11:48:00 AM			Matrix:	Soil		
PERCENT MOISTURE	D2216						
Percent Moisture		14.6		0	wt%	R430459	1
Client Sample ID: EB-4	1A (2-3)			Lab ID:	2007H20-019		
_	2020 12:01:00 PM			Matrix:	Soil		
PERCENT MOISTURE	D2216						
Percent Moisture		14.4		0	wt%	R430459	1
Client Sample ID: EB-4	4DUP 26			Lab ID:	2007H20-020		
•	2020 12:05:00 PM			Matrix:	Soil		
METALS, TOTAL SV	V6010D			(SW3050B)			
Arsenic		8.02		2.21	mg/Kg-dry	300148	1
PERCENT MOISTURE	D2216						
Percent Moisture		18.9		0	wt%	R430459	1
Client Sample ID: EB-4	0A (2-3)			Lab ID:	2007H20-021		
_	2020 9:30:00 AM			Matrix:	Soil		
PERCENT MOISTURE	D2216						
Percent Moisture		15.2		0	wt%	R430459	1
Client Sample ID: EB-4	0-NW1 (0-2)			Lab ID:	2007H20-022		
-	2020 9:38:00 AM			Matrix:	Soil		
METALS, TOTAL SV	V6010D			(SW3050B)			
Arsenic		2.94		2.35	mg/Kg-dry	300148	1
PERCENT MOISTURE	D2216						
Percent Moisture		16.6		0	wt%	R430459	1
Client Sample ID: EB-4	0-E1 (0-2)			Lab ID:	2007H20-024		
_	2020 9:59:00 AM			Matrix:	Soil		
METALS, TOTAL SV	V6010D			(SW3050B)			
Arsenic		134		2.25	mg/Kg-dry	300148	1
PERCENT MOISTURE	D2216						
Percent Moisture		16.5		0	wt%	R430459	1
Client Sample ID: EB-4	0-SW1 (0-2)			Lab ID:	2007H20-026		
_	2020 10:05:00 AM			Matrix:	Soil		
	V6010D			(SW3050B)			
		1.0		2.20	/IZ 1	2001/2	

162

Arsenic

# **SUMMARY OF ANALYTES DETECTED**

Analyses	Y OF ANAL'  Result	Qual	Reporting Limit	Units	BatchID	Dilutio Facto
Client Sample ID:         EB-40-SW1 (0-2)           Collection Date:         7/16/2020 10:05:00 AM			Lab ID: Matrix:	2007H20-026 Soil		
PERCENT MOISTURE D2216 Percent Moisture	13.8		0	wt%	R430459	1
Client Sample ID: EB-40DUP 27 Collection Date: 7/16/2020 10:10:00 AM			Lab ID: Matrix:	2007H20-028 Soil		
PERCENT MOISTURE D2216						
Percent Moisture	13.1		0	wt%	R430459	1
Client Sample ID: EB-39A (2-3) Collection Date: 7/16/2020 10:15:00 AM			Lab ID: Matrix:	2007H20-029 Soil		
METALS, TOTAL SW6010D			(SW3050B)			
Arsenic PERCENT MOISTURE D2216	379		2.19	mg/Kg-dry	300148	1
Percent Moisture	15.0		0	wt%	R430459	1
Client Sample ID: EB-39-N1 (0-2) Collection Date: 7/16/2020 10:20:00 AM			Lab ID: Matrix:	2007H20-030 Soil		
METALS, TOTAL SW6010D			(SW3050B)			
Arsenic PERCENT MOISTURE D2216	32.3		2.21	mg/Kg-dry	300148	1
Percent Moisture	15.4		0	wt%	R430459	1
Client Sample ID:         EB-39-SE1 (0-2)           Collection Date:         7/16/2020 10:28:00 AM			Lab ID: Matrix:	2007H20-032 Soil		
METALS, TOTAL SW6010D			(SW3050B)			
Arsenic PERCENT MOISTURE D2216	167		2.13	mg/Kg-dry	300148	1
Percent Moisture	15.2		0	wt%	R430459	1
Client Sample ID:         EB-39-SW1 (0-2)           Collection Date:         7/16/2020 10:40:00 AM			Lab ID: Matrix:	2007H20-034 Soil		
METALS, TOTAL SW6010D			(SW3050B)			
Arsenic PERCENT MOISTURE D2216	451		2.57	mg/Kg-dry	300147	1
Percent Moisture	16.1		0	wt%	R430459	1
Client Sample ID:         EB-38A (2-3)           Collection Date:         7/16/2020 10:55:00 AM			Lab ID: Matrix:	2007H20-036 Soil		
METALS, TOTAL SW6010D			(SW3050B)			
Arsenic PERCENT MOISTURE D2216	183		2.23	mg/Kg-dry	300147	1
Percent Moisture	17.3		0	wt%	R430459	1
Client Sample ID:         EB-38-N1 (0-2)           Collection Date:         7/16/2020 10:57:00 AM			Lab ID: Matrix:	2007H20-037 Soil		
METALS, TOTAL SW6010D			(SW3050B)			
Arsenic PERCENT MOISTURE D2216	233		2.27	mg/Kg-dry	300147	1
Percent Moisture	15.1		0	wt%	R430459 Page 33 of 4	1

**Date:** 24-Jul-20

#### SUMMARY OF ANALYTES DETECTED

Analyses		Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: Collection Date:	EB-38-SE1 (0-2) 7/16/2020 10:59:00 AM			Lab ID: Matrix:	2007H20-039 Soil		
METALS, TOTAL	SW6010D			(SW3050B)	)		
Arsenic		61.2		2.07	mg/Kg-dry	300147	1
PERCENT MOIST	<b>TURE D2216</b>						
Percent Moisture		8.87		0	wt%	R430459	1
Client Sample ID:	EB-38-SW1 (0-2)			Lab ID:	2007H20-041		
<b>Collection Date:</b>	7/16/2020 11:10:00 AM			Matrix:	Soil		
METALS, TOTAL	SW6010D			(SW3050B)	1		
Arsenic		114		2.60	mg/Kg-dry	300147	1
PERCENT MOIST	<b>TURE D2216</b>						
Percent Moisture		19.2		0	wt%	R430459	1
Client Sample ID:	EB-38-DUP28			Lab ID:	2007H20-044		
<b>Collection Date:</b>	7/16/2020 11:35:00 AM			Matrix:	Soil		
METALS, TOTAL	SW6010D			(SW3050B)	)		
Arsenic		98.2		2.08	mg/Kg-dry	300147	1
PERCENT MOIST	<b>TURE D2216</b>						
Percent Moisture		14.7		0	wt%	R430459	1

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

J Estimated value detected below Reporting Limit

24-Jul-20

Date:



#### SAMPLE/COOLER RECEIPT CHECKLIST

1	. Client Name:				AES Work Order Numbe	r:
2.	Carrier: FedEx UPS USPS Client Courier Other					
		Yes	No	N/A	Details	Comments
3	. Shipping container/cooler received in good condition?				damaged leaking other	
4	. Custody seals present on shipping container?					
5	Custody seals intact on shipping container?					
6	. Temperature blanks present?					
_	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for				Cooling initiated for recently collected samples / ice	
7	temperature recordings.]				present	
8	. Chain of Custody (COC) present?					
9	Chain of Custody signed, dated, and timed when relinquished and received?					
10	. Sampler name and/or signature on COC?					
11	. Were all samples received within holding time?					
12	. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Te	erms & Conditions.
42	•			0 -		2-
13	Cooler 1 Temperature OC Cooler 2 Temperature			°C		er 4 Temperature°C
	Cooler 5 Temperature °C Cooler 6 Temperature			°C	Cooler 7 Temperature OC Coole	er 8 Temperature °C
15	. Comments:					
13	. Comments.					
					I certify that I have co	mpleted sections 1-15 (dated initials).
		Yes	No	N/A	Details	Comments
16	. Were sample containers intact upon receipt?					
17	. Custody seals present on sample containers?					
18	Custody seals intact on sample containers?					
10	. Do sample container labels match the COC?				incomplete info illegible	
19	. Do sample container labels match the coc:				no label Other	
20	. Are analyses requested indicated on the COC?					
21	. Were all of the samples listed on the COC received?				samples received but not listed on COC	
	. Were all of the samples listed on the coorectived.				samples listed on COC not received	
22	. Was the sample collection date/time noted?					
23	. Did we receive sufficient sample volume for indicated analyses?					
24	. Were samples received in appropriate containers?					
25	. Were VOA samples received without headspace (< 1/4" bubble)?					
26	. Were trip blanks submitted?				listed on COC not listed on COC	
27	. Comments:		-	-		
					Logatify that I have so	empleted sections 16-27 (dated initials).
		V	A1 -	B1 / B	·	
20	. Have containers needing chemical preservation been checked? *	Yes	No	N/A	Details I	Comments
	Containers meet preservation guidelines?	$\vdash$		<b> </b>		
	. Was pH adjusted at Sample Receipt?	├──				
30	. Ivvas pri aujusteu at Sample Receipt?	Щ				

I certify that I have completed sections 28-30 (dated initials).

**Project Name:** 

United Consulting Group Inc. **Client:** 

ANALYTICAL QC SUMMARY REPORT Atlanta Beltline

Workorder: 2007H20 BatchID: 300147

Sample ID: MB-300147	Client ID:				Uni	ts: mg/Kg	Pre	p Date: 0'	7/20/2020	Run No: 430581	
SampleType: MBLK	TestCode:	METALS, TOTAL SW	76010D		Bat	chID: <b>300147</b>	An	alysis Date: 0'	7/21/2020	Seq No: <b>9766858</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	al %RPD	RPD Limit Q	)ual
Arsenic	BRL	2.50									
Sample ID: LCS-300147	Client ID:				Uni	ts: mg/Kg	Pre	p Date: 0'	7/20/2020	Run No: 430581	
SampleType: LCS	TestCode:	METALS, TOTAL SW	76010D		Bat	chID: <b>300147</b>	An	alysis Date: 0'	7/21/2020	Seq No: <b>9766859</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	al %RPD	RPD Limit Q	)ual
Arsenic	46.60	2.50	50.00	0.8135	91.6	80	120				
Sample ID: <b>2007F08-003CMS</b>	Client ID:				Uni	ts: mg/Kg-	dry Pre	p Date: 0'	7/20/2020	Run No: 430581	
SampleType: MS	TestCode:	METALS, TOTAL SW	6010D		Bat	chID: 300147	An	alysis Date: 0'	7/21/2020	Seq No: <b>9766861</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	al %RPD	RPD Limit Q	)ual
Arsenic	39.75	2.49	49.72	1.008	77.9	75	125				
Sample ID: <b>2007F08-003CMSD</b>	Client ID:				Uni	ts: mg/Kg-	dry Pre	p Date: 0'	7/20/2020	Run No: 430581	
SampleType: MSD	TestCode:	METALS, TOTAL SW	76010D		Bat	chID: 300147	An	alysis Date: 0'	7/21/2020	Seq No: <b>9766863</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	al %RPD	RPD Limit Q	)ual
Arsenic	40.11	2.49	49.71	1.008	78.7	75	125	39.75	0.889	20	

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

24-Jul-20

Date:

Client: United Consulting Group Inc.

Project Name: Atlanta Beltline
Workorder: 2007H20

## ANALYTICAL QC SUMMARY REPORT

Date:

24-Jul-20

BatchID: 300148

Sample ID: <b>MB-300148</b>	Client ID:				Uni	ts: mg/Kg	Prep	Date:	07/21/2020	Run No:	430712
SampleType: MBLK	TestCode:	METALS, TOTAL S	W6010D		Bate	chID: 300148	Ana	lysis Date:	07/22/2020	Seq No:	9770052
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPE	Limit Qual
Arsenic	BRL	2.50									
Sample ID: LCS-300148	Client ID:				Uni	ts: mg/Kg	Prep	Date:	07/21/2020	Run No:	430712
SampleType: LCS	TestCode:	METALS, TOTAL S	W6010D		Bate	chID: 300148	Ana	lysis Date:	07/22/2020	Seq No:	9770053
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Arsenic	45.83	2.50	50.00		91.7	80	120				
Sample ID: <b>2007H20-019AMS</b>		EB-41A (2-3)			Uni	ts: mg/Kg-	dry Prep	Date:	07/21/2020	Run No:	430712
SampleType: MS	TestCode:	METALS, TOTAL S	W6010D		Bate	chID: 300148	Ana	lysis Date:	07/22/2020	Seq No:	9770055
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Arsenic	35.56	2.25	44.94	0.5672	77.9	75	125				
Sample ID: <b>2007H20-019AMSD</b>		EB-41A (2-3)			Uni	ts: mg/Kg-	dry Prep	Date:	07/21/2020	Run No:	430712
SampleType: MSD	TestCode:	METALS, TOTAL S	W6010D		Bate	chID: 300148	Ana	lysis Date:	07/22/2020	Seq No:	9770058
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPE	Limit Qual
Arsenic	35.90	2.26	45.12	0.5672	78.3	75	125	35.56	0.945	. ,	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: United Consulting Group Inc.

**Project Name:** Atlanta Beltline **Workorder:** 2007H20

## ANALYTICAL QC SUMMARY REPORT

Date:

24-Jul-20

BatchID: 300152

Sample ID: MB-300152	Client ID:				Uni	ts: mg/L	F	rep Date:	07/20/2020	Run No: 430736
SampleType: MBLK	TestCode:	METALS, DISSOLVED	SW6010D		Bat	chID: 300152	A	Analysis Date:	07/22/2020	Seq No: 9770353
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Lim	it RPD Re	f Val %RPD	RPD Limit Qual
Arsenic	BRL	0.0100								
Sample ID: LCS-300152	Client ID:				Uni	ts: mg/L	F	Prep Date:	07/20/2020	Run No: 430736
SampleType: LCS	TestCode:	METALS, DISSOLVED	SW6010D		Bat	chID: 300152	A	Analysis Date:	07/22/2020	Seq No: <b>9770354</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Lim	it RPD Re	f Val %RPD	RPD Limit Qual
Arsenic	1.012	0.0500	1.000		101	80	120			
Sample ID: <b>2007H20-043AMS</b>	Client ID:	RS-1			Uni	ts: mg/L	F	rep Date:	07/20/2020	Run No: 430736
SampleType: MS	TestCode:	METALS, DISSOLVED	SW6010D		Bat	chID: 300152	A	Analysis Date:	07/22/2020	Seq No: <b>9770359</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Lim	it RPD Re	f Val %RPD	RPD Limit Qual
Arsenic	0.9811	0.0500	1.000		98.1	75	125			
Sample ID: <b>2007H20-043AMSD</b>	Client ID:	RS-1			Uni	ts: mg/L	F	Prep Date:	07/20/2020	Run No: <b>430736</b>
SampleType: MSD	TestCode:	METALS, DISSOLVED	SW6010D		Bat	chID: <b>300152</b>	A	Analysis Date:	07/22/2020	Seq No: <b>9770361</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Lim	it RPD Re	f Val %RPD	RPD Limit Qual
Arsenic	1.002	0.0500	1.000		100	75	125	0.981	1 2.09	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Atlanta Beltline

United Consulting Group Inc.

Client:

# ANALYTICAL QC SUMMARY REPORT

Date:

24-Jul-20

**Project Name:** Workorder: 2007H20 BatchID: 300159

Sample ID: MB-300159 SampleType: MBLK	Client ID: TestCode:	POLYAROMATIC HYD	ROCARBONS	SW8270D	Un Bat	its: <b>ug/Kg</b> tchID: <b>300159</b>		ep Date: nalysis Date:	07/20/2020 07/20/2020	Run No: <b>430561</b> Seq No: <b>9766037</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RP	D RPD Limit Qual
Benzo(a)pyrene	BRL	330								
Surr: 2-Fluorobiphenyl	1371	0	1667		82.2	54.4	120			
Surr: 4-Terphenyl-d14	1515	0	1667		90.9	60.4	120			
Surr: Nitrobenzene-d5	1355	0	1667		81.3	51	120			
Sample ID: LCS-300159 SampleType: LCS	Client ID: TestCode:	POLYAROMATIC HYD	ROCARBONS	SW8270D	Un: Bat	its: <b>ug/Kg</b> tchID: <b>300159</b>		ep Date: nalysis Date:	07/20/2020 07/20/2020	Run No: <b>430561</b> Seq No: <b>9766038</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RP	D RPD Limit Qual
Benzo(a)pyrene	1597	330	1667		95.8	70.6	120			
Surr: 2-Fluorobiphenyl	1529	0	1667		91.7	54.4	120			
Surr: 4-Terphenyl-d14	1524	0	1667		91.4	60.4	120			
Surr: Nitrobenzene-d5	1442	0	1667		86.5	51	120			
Sample ID: 2007H71-001AMS SampleType: MS	Client ID: TestCode:	POLYAROMATIC HYD	ROCARBONS	SW8270D	Un: Bat	its: ug/Kg-c	•	ep Date: nalysis Date:	07/20/2020 07/20/2020	Run No: <b>430561</b> Seq No: <b>9766056</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RP	D RPD Limit Qual
Benzo(a)pyrene	2159	450	2284		94.5	56.4	120			
Surr: 2-Fluorobiphenyl	1861	0	2284		81.5	54.4	120			
Surr: 4-Terphenyl-d14	1970	0	2284		86.3	60.4	120			
Surr: Nitrobenzene-d5	1816	0	2284		79.5	51	120			
Sample ID: 2007H71-001AMSD SampleType: MSD	Client ID: TestCode:	POLYAROMATIC HYD	ROCARBONS	SW8270D	Un: Bat	its: ug/Kg-c	-	ep Date: nalysis Date:	07/20/2020 07/20/2020	Run No: <b>430561</b> Seq No: <b>9766054</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RP	D RPD Limit Qual
Benzo(a)pyrene	2009	450	2284		88.0	56.4	120	2159	7.17	7 21
Qualifiers: > Greater than Result valu  BRL Below reporting limit  J Estimated value detecte  Rpt Lim Reporting Limit		g Limit	E Estir N Anal	s than Result value mated (value above quantit lyte not NELAC certified e Recovery outside limits o			B H R	-	in the associated methor r preparation or analysi	

**Client:** United Consulting Group Inc.

**Project Name:** Atlanta Beltline

Workorder: 2007H20

## ANALYTICAL QC SUMMARY REPORT

Date:

24-Jul-20

BatchID: 300159

Sample ID: 2007H71-001AMSD SampleType: MSD	Client ID: TestCode:	POLYAROMATIC HYDI	ROCARBONS	SW8270D	Uni Bato	ts: ug/Kg-d chID: 300159	•	p Date: 0		Run No: <b>43056</b> Seq No: <b>97660</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	val %RPD	RPD Limit	Qual
Surr: 2-Fluorobiphenyl	1704	0	2284		74.6	54.4	120	1861	0	0	
Surr: 4-Terphenyl-d14	1848	0	2284		80.9	60.4	120	1970	0	0	
Surr: Nitrobenzene-d5	1721	0	2284		75.4	51	120	1816	0	0	

Qualifiers:

BRL

Greater than Result value

Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

End of Report

# ANALYTICAL ENVIRONMENTAL SERVICES, INC.



July 24, 2020

Spencer Cox United Consulting Group Inc.

625 Holcomb Bridge Rd

Norcross

GA 30071

RE: Atlanta Beltline

Dear Spencer Cox: Order No: 2007199

Analytical Environmental Services, Inc. received

14 samples on 7/17/2020 3:49:00 PM

for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/20-06/30/21.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

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,

Ioana Pacurar

Project Manager

IDana) Pacurar

## ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Parkway, Atlanta GA 30340-3704

CHAIN OF CUSTODY Work Order: 2007 T99

AE		REE (	800) 97		K: (770)	457-8	188						n l		Date:	7/1	7 28 Page 1 of	1.
COMPA	UNITED CONSULTING	ADDF	RESS:	625 HOLCO	S, GEO	RGIA	30071			ANA	ALYS	S RE	QUE	STEC	,		Visit our website	
	CONSULTING			770-209-002	9 FAX	770-582	2-2900				350b						www.aesatlanta.com to check on the status of your	
PHONE	770-842-8956	FAX:		7	70-58	2-290	7		rene		(DIS	,		Metals			results, place bottle orders, etc.	
SAMPL	Spencer Cox	SIGN	ATURE:	KI	1	//	/	.2	Benzo(a)Pyrene	e e	Enlic	NOCS	s,					iers
- Y			CAN	(PLED		o o	(S)	Arsenic	3enz(	Benzene	Aps	VOCs	SVOCs	RCRA-8 I	TCLP	HOLD		of Containers
#	SAMPLE ID		SAN	IPLED		Composite	Matrix (See codes)				ERVA	TION	l (See				REMARKS	# of C
		D	ATE	TIME	Grab	Com		(			١						REWARKS	*°N
1	EB-35 A (2-3)	7/1	7/20	11:01			90	X	_									(
2	EP-35-NI (0-2)		_	11:10				X										1
3	EB. 35-N2 (0.2)			11:12				X								X	HOLD	1
4	EB 35- SEI (0.2)			11:29			1	X	_	_								!
5	EB-35-5E2 (0.2)		<u> </u>	11:31				$\rangle$								X	HOLO	(
6	EB-35.5W1 (0.2)			11:37				X	_									,(
7	EB- 35-5W2 (0-2)		1.	11:38					-					-	<u> </u>	X	HOLD	(
8	EB.36A(2-3)		<u> </u>	11:45		š		X	_		*		_	_				1
9	EB-30-N1 (0-2)		<u> </u>	11:51				X	-	_			-	_				1
10	EB-310-N2 (0-2)		-	11:55				X	_		_			-		X	NOLD	<u> </u>
11	ED. 360- SEI (0.2)		₩	12110				X	_	-	-			-	_		1	1
12	EB-30 - SEZ (0.2)		#	12:15				X	-	-			-	$\vdash$		X	HOLO	-
13	EB-30-541 (0.2)			12:20				X	_	-			_	_				1
14	EB-36-SW2 (0-2)			12:31	>			X	_	_	_				-	X	Kord	-
15	EB. 36-DUP 29			12:35				X	_	-						K		1
16	EB-37A (9-4)			13:05				X		-		_	-	_	-		D4	1
17	MANNA EB-37-NEI (0-2)			13:10		_		$\langle \rangle$	_	-			_	-	-			<u> </u>
18	EB-37-NE2 (0.2)			13:15			$\vdash$	X	<u> </u>	₩			-	-	-	X	HOLD	1
19	EB-37-51 (0.2)	$\perp$		13:18				X	-	-	-		-	-	-		*	(
20	EB-37-32 (0.2)	Н		13:21				X	<b>—</b>	-				_	-	X	HOLD .	l
21	EB-37-NWI (0-2)	$\perp$	-	13:35				X	$\vdash$	_	-		-	_	-			8
22	EB-37-NW2 (1-2)	-0	1	13:45			50	X	-						-	×	HALD	8
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l:	QUISICELIST DATE HAVE	1.	EIVEDB	1	1	117			DJECT	NAM					eltlir	10	Total # of Containers	23
	Spend for		1	X	_ {	1, ,,								0.780 0			Total # of Containers	98
2:	7/17/20	2:	1	$\mathcal{C}$	2/1	2/20	5 (5:4	<	DJECT			20	0-GA-0	1192-1	11, -12,	-13	Turnaround Time Request  Standard 5 Business Days	
7	X 12.46	3:	1//	7)	,/	NU		SIT	E ADI	DRES	5:			Atlant	ta		Standard 5 Business Days 2 Business Day Rush	
								SEN	ND RE	PORT	г то:		Sper	ncer Co	ox		Next Business Day Rush	
SPECIA	AL INSTRUCTIONS/COMMENTS:			SHIPMENT	г метно	D		2.000	OICE								Same Day Rush (auth req.	.)
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1	SEGMENT 2	IN	QLIEN	FedEx UI	VIA: PS MAI	L COU	RIER										STATE PROGRAM (if any):  E-mail? Y/N; Fax? Y/N	- 1
					OTHER_			PO	4			8	390	7			DATA PACKAGE: I II III	IV
									-	-		0				_		

United Consulting Group Inc.

Project Name: Atlanta Beltline 2007199-001 Lab ID:

**Client:** 

**Client Sample ID:** EB-35A (2-3) **Collection Date:** 

7/17/2020 11:01:00 AM

24-Jul-20

Date:

Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	10.8	2.92		mg/Kg-dry	300204	1	07/23/2020 11:59	KB
PERCENT MOISTURE D2216								
Percent Moisture	19.2	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-35-N1 (0-2)

Project Name: Atlanta Beltline **Collection Date:** 7/17/2020 11:10:00 AM

Lab ID: Soil

2007199-002 Matrix:

Analyses	Result	Reporting Limit Qua	l Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW:	3050B)			
Arsenic	146	2.83	mg/Kg-dry	300204	1	07/23/2020 12:01	KB
PERCENT MOISTURE D2216							
Percent Moisture	12.3	0	wt%	R430459	) 1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc. Project Name: Atlanta Beltline

Lab ID: 2007199-004 **Client Sample ID:** EB-35-SE1 (0-2) **Collection Date:** 7/17/2020 11:29:00 AM

Date:

24-Jul-20

Matrix:

Soil

Analyses	Result	Reporting Limit	Qual U	nits I	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	169	2.80	1	mg/Kg-dry	300204	1	07/23/2020 12:03	KB
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-35-SW1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/17/2020 11:37:00 AMLab ID:2007199-006Matrix:Soil

Analyses	Result	Reporting Limit Qu	ıal Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW3	8050B)			
Arsenic	430	3.03	mg/Kg-dry	300204	1	07/23/2020 12:06	KB
PERCENT MOISTURE D2216							
Percent Moisture	18.0	0	wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc.

Project Name: Atlanta Beltline Lab ID:

2007199-008

**Client Sample ID: Collection Date:** 

Matrix:

EB-36A (2-3)

Date:

7/17/2020 11:45:00 AM

24-Jul-20

Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	6050B)			
Arsenic	13.9	3.05		mg/Kg-dry	300204	1	07/23/2020 12:08	KB
PERCENT MOISTURE D2216								
Percent Moisture	19.7	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-36-N1 (0-2)

Project Name: Atlanta Beltline Collection Date: 7/17/2020 11:51:00 AM

**Lab ID:** 2007199-009 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	176	2.98		mg/Kg-dry	300204	1	07/23/2020 12:10	KB
PERCENT MOISTURE D2216								
Percent Moisture	16.8	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-36-SE1 (0-2) Project Name: Atlanta Beltline **Collection Date:** 7/17/2020 12:10:00 PM Lab ID: 2007199-011 Matrix:

Soil

24-Jul-20

Date:

Reporting **Dilution** BatchID Result Analyses Qual Units Date Analyzed Analyst Factor Limit **SW6010D** (SW3050B) **METALS, TOTAL** 232 2.71 mg/Kg-dry300204 07/23/2020 12:19 Arsenic KB PERCENT MOISTURE D2216 14.5 0 wt% R430459 07/20/2020 00:00 JW Percent Moisture

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

Е Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-36-SW1 (0-2) Project Name: Atlanta Beltline **Collection Date:** 7/17/2020 12:20:00 PM Lab ID:

2007199-013 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	123	3.03		mg/Kg-dry	300204	1	07/23/2020 12:21	KB
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc.

**Client Sample ID:** EB-36-DUP29

Project Name: Atlanta Beltline **Collection Date:** 7/17/2020 12:35:00 PM Soil

Lab ID: 2007199-015 Matrix:

Analyses	Result	Reporting Limit Qu	ual Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW	3050B)			
Arsenic	186	2.94	mg/Kg-dry	300204	1	07/23/2020 12:24	KB
PERCENT MOISTURE D2216							
Percent Moisture	17.2	0	wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc.

Project Name: Atlanta Beltline Lab ID: 2007I99-016

**Client Sample ID: Collection Date:** 

Matrix:

EB-37A (3-4) 7/17/2020 1:05:00 PM

24-Jul-20

Soil

Date:

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW:	3050B)			
Arsenic	106	2.67		mg/Kg-dry	300204	1	07/23/2020 12:26	KB
PERCENT MOISTURE D2216								
Percent Moisture	11.5	0		wt%	R430459	1	07/20/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-37-NE1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/17/2020 1:10:00 PM

**Lab ID:** 2007199-017 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	6050B)			
Arsenic	154	2.63		mg/Kg-dry	300204	1	07/23/2020 12:28	KB
PERCENT MOISTURE D2216								
Percent Moisture	10.4	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** 

EB-37-S1 (0-2) Project Name: Atlanta Beltline **Collection Date:** 7/17/2020 1:18:00 PM Soil

Lab ID: 2007199-019 Matrix:

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	306	2.82		mg/Kg-dry	300204	1	07/23/2020 12:31	KB
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R430459	) 1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-37-NW1 (0-2)Project Name:Atlanta BeltlineCollection Date:7/17/2020 1:35:00 PMLab ID:2007I99-021Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	257	2.75		mg/Kg-dry	300204	1	07/23/2020 12:33	KB
PERCENT MOISTURE D2216								
Percent Moisture	11.7	0		wt%	R430459	1	07/20/2020 00:00	JW

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client: United Consulting Group Inc. Client Sample ID: RS-2

**Project Name:** Atlanta Beltline Collection Date: 7/17/2020 2:15:00 PM

**Lab ID:** 2007199-023 **Matrix:** Aqueous

Analyses		Result	Reporting Limit	Qual			Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED	SW6010D				(S <sup>v</sup>	W3005A)			
Arsenic		BRL	0.0100		mg/L	300152	. 1	07/22/2020 12:54	KB

Date:

24-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

# SUMMARY OF ANALYTES DETECTED

Analyses		Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: Collection Date:	EB-35A (2-3) 7/17/2020 11:01:00 AM			Lab ID: Matrix:	2007I99-001 Soil		
METALS, TOTAL	SW6010D			(SW3050B)	1		
Arsenic		10.8		2.92	mg/Kg-dry	300204	1
PERCENT MOIS	<b>ΓURE D2216</b>						
Percent Moisture		19.2		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-35-N1 (0-2) 7/17/2020 11:10:00 AM			Lab ID: Matrix:	2007I99-002 Soil		
METALS, TOTAL	SW6010D			(SW3050B)	1		
Arsenic PERCENT MOIS	ΓURE D2216	146		2.83	mg/Kg-dry	300204	1
Percent Moisture	2210	12.3		0	wt%	R430459	1
Client Sample ID:	EB-35-SE1 (0-2)			Lab ID:	2007199-004		
Collection Date: METALS, TOTAL	7/17/2020 11:29:00 AM SW6010D			Matrix: (SW3050B)	Soil		
•	5W0010D	169		(SW3030B) 2.80	mg/Kg-dry	300204	1
Arsenic PERCENT MOIS	ΓURE D2216	109		2.80	mg/Kg-ury	300204	1
Percent Moisture		16.0		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-35-SW1 (0-2) 7/17/2020 11:37:00 AM			Lab ID: Matrix:	2007I99-006 Soil		
METALS, TOTAL				(SW3050B)			
Arsenic		430		3.03	mg/Kg-dry	300204	1
PERCENT MOIS	ΓURE D2216				5 5 3		-
Percent Moisture		18.0		0	wt%	R430459	1
Client Sample ID:	EB-36A (2-3)			Lab ID:	2007199-008		
Collection Date: METALS, TOTAL	7/17/2020 11:45:00 AM SW6010D			Matrix: (SW3050B)	Soil		
ŕ	SW0010D	13.9		(SW3030B) 3.05	mg/Kg-dry	300204	1
Arsenic PERCENT MOIS	ΓURE D2216	13.9		3.03	mg/kg-dry	300204	1
	TORE D2210	19.7		0	wt%	R430459	1
Percent Moisture	ED 27 N1 (0.2)	19.7				K430439	
Client Sample ID: Collection Date:	EB-36-N1 (0-2) 7/17/2020 11:51:00 AM			Lab ID: Matrix:	2007I99-009 Soil		
METALS, TOTAL				(SW3050B)			
Arsenic		176		2.98	mg/Kg-dry	300204	1
PERCENT MOIS	<b>ΓURE D2216</b>						
Percent Moisture		16.8		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-36-SE1 (0-2) 7/17/2020 12:10:00 PM			Lab ID: Matrix:	2007I99-011 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic	FUDE PART	232		2.71	mg/Kg-dry	300204	1
PERCENT MOIS	ΓURE D2216						
Percent Moisture		14.5		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-36-SW1 (0-2) 7/17/2020 12:20:00 PM			Lab ID: Matrix:	2007I99-013 Soil	_	
Julia Succi					~ ~ ~ ~	Page 17 of 2	2

Date: 24-Jul-20

#### SUMMARY OF ANALYTES DETECTED

Analyses		Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: Collection Date:	EB-36-SW1 (0-2) 7/17/2020 12:20:00 PM			Lab ID: Matrix:	2007I99-013 Soil		
METALS, TOTAL	SW6010D			(SW3050B	)		
Arsenic		123		3.03	mg/Kg-dry	300204	1
PERCENT MOIS	<b>ΓURE D2216</b>						
Percent Moisture		19.0		0	wt%	R430459	1
Client Sample ID:	EB-36-DUP29			Lab ID:	2007I99-015		
<b>Collection Date:</b>	7/17/2020 12:35:00 PM			Matrix:	Soil		
METALS, TOTAL	SW6010D			(SW3050B	6)		
Arsenic		186		2.94	mg/Kg-dry	300204	1
PERCENT MOIST	TURE D2216						
Percent Moisture		17.2		0	wt%	R430459	1
Client Sample ID:	EB-37A (3-4)			Lab ID:	2007199-016		
<b>Collection Date:</b>	7/17/2020 1:05:00 PM			Matrix:	Soil		
METALS, TOTAL	SW6010D			(SW3050B			
Arsenic		106		2.67	mg/Kg-dry	300204	1
PERCENT MOIST	<b>ΓURE D2216</b>						
Percent Moisture		11.5		0	wt%	R430459	1
Client Sample ID:	EB-37-NE1 (0-2)			Lab ID:	2007199-017		
Collection Date:	7/17/2020 1:10:00 PM			Matrix:	Soil		
METALS, TOTAL	SW6010D			(SW3050B			
Arsenic		154		2.63	mg/Kg-dry	300204	1
PERCENT MOIST	<b>ΓURE D2216</b>						
Percent Moisture		10.4		0	wt%	R430459	1
Client Sample ID:	EB-37-S1 (0-2)			Lab ID:	2007199-019		
Collection Date:	7/17/2020 1:18:00 PM			Matrix:	Soil		
METALS, TOTAL	SW6010D	207		(SW3050B		20020:	
Arsenic PERCENT MOIST	FUDE D2214	306		2.82	mg/Kg-dry	300204	1
	TURE D2216	10.2		0	···+0/	D 420 450	
Percent Moisture		12.3		0	wt%	R430459	1
Client Sample ID: Collection Date:	EB-37-NW1 (0-2) 7/17/2020 1:35:00 PM			Lab ID: Matrix:	2007199-021 Soil		
METALS, TOTAL	SW6010D			(SW3050B	)		
Arsenic		257		2.75	mg/Kg-dry	300204	1
PERCENT MOIST	<b>ΓURE D2216</b>						
Percent Moisture		11.7		0	wt%	R430459	1

Qualifiers: \*

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

J Estimated value detected below Reporting Limit

24-Jul-20

Date:



#### SAMPLE/COOLER RECEIPT CHECKLIST

1.	Client Name:				AES Work Order Numbe	r:
2.	Carrier: FedEx UPS USPS Client Courier Other					
		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?				damaged leaking other	
4.	Custody seals present on shipping container?					
5.	Custody seals intact on shipping container?					
6.	Temperature blanks present?					
_	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for				Cooling initiated for recently collected samples / ice	
7.	temperature recordings.]				present	
8.	Chain of Custody (COC) present?					
9.	Chain of Custody signed, dated, and timed when relinquished and received?					
10.	Sampler name and/or signature on COC?					
11.	Were all samples received within holding time?					
12.	TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Te	erms & Conditions.
12	2			0 -		2-
13.	Cooler 1 Temperature OC Cooler 2 Temperature			°C		er 4 Temperature°C
	Cooler 5 Temperature °C Cooler 6 Temperature			°C	Cooler 7 Temperature °C Coole	er 8 Temperature °C
15	Comments:					
13.	Comments.					
					I certify that I have co	mpleted sections 1-15 (dated initials).
		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?					
17.	Custody seals present on sample containers?					
18.	Custody seals intact on sample containers?					
10	Do sample container labels match the COC?				incomplete info illegible	
19.	bo sample container labels match the coc:				no label other	
20.	Are analyses requested indicated on the COC?					
21.	Were all of the samples listed on the COC received?				samples received but not listed on COC	
	Were all of the samples listed on the coeffectived.				samples listed on COC not received	
22.	Was the sample collection date/time noted?					
23.	Did we receive sufficient sample volume for indicated analyses?					
24.	Were samples received in appropriate containers?					
25.	Were VOA samples received without headspace (< 1/4" bubble)?					
26.	Were trip blanks submitted?				listed on COC not listed on COC	
27.	Comments:		-			
					Logatify that I have co	empleted sections 16-27 (dated initials).
		V	<b>8.</b> -	N/ / A	·	
20	Have containers needing chemical preservation been checked? *	Yes	No	N/A	Details I	Comments
	Containers meet preservation guidelines?	<del>                                     </del>				
	Was pH adjusted at Sample Receipt?	├──				
3U.	was pri aujusteu at Sample Receipt?	<u></u>	<u> </u>			

I certify that I have completed sections 28-30 (dated initials).

United Consulting Group Inc. **Client:** 

Atlanta Beltline **Project Name:** 

Workorder: 2007199

## ANALYTICAL QC SUMMARY REPORT

Date:

24-Jul-20

BatchID: 300152

Sample ID: MB-300152	Client ID:				Unit	s: mg/L	Prep	Date: 07/20	0/2020	Run No: 430736
SampleType: MBLK	TestCode:	METALS, DISSOLVED	SW6010D		Batc	hID: <b>300152</b>	Ana	lysis Date: 07/22	2/2020	Seq No: <b>9770353</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	BRL	0.0100								
Sample ID: LCS-300152 SampleType: LCS	Client ID: TestCode:	METALS, DISSOLVED	SW6010D		Unit Bate	s: <b>mg/L</b> hID: <b>300152</b>	-	Date: <b>07/20</b> lysis Date: <b>07/22</b>	0/2020 2/2020	Run No: <b>430736</b> Seq No: <b>9770354</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	1.012	0.0500	1.000		101	80	120			
Sample ID: 2007H20-043AMS SampleType: MS	Client ID: TestCode:	METALS, DISSOLVED	SW6010D		Unit Bate	s: <b>mg/L</b> hID: <b>300152</b>		Date: <b>07/20</b> lysis Date: <b>07/22</b>	0/2020 2/2020	Run No: <b>430736</b> Seq No: <b>9770359</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	0.9811	0.0500	1.000		98.1	75	125			
Sample ID: 2007H20-043AMSD SampleType: MSD	Client ID: TestCode:	METALS, DISSOLVED	SW6010D		Unit Batc	s: <b>mg/L</b> hID: <b>300152</b>		Date: <b>07/20</b> lysis Date: <b>07/22</b>	0/2020 2/2020	Run No: <b>430736</b> Seq No: <b>9770361</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	1.002	0.0500	1.000		100	75	125	0.9811	2.09	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: United Consulting Group Inc.

**Project Name:** Atlanta Beltline **Workorder:** 2007I99

# ANALYTICAL QC SUMMARY REPORT

Date:

24-Jul-20

BatchID: 300204

Sample ID: <b>MB-300204</b>	Client ID:				Uni	0 0				Run No: <b>430833</b>	
SampleType: MBLK	TestCode:	METALS, TOTAL SV	V6010D		Bato	chID: 300204	Ana	alysis Date: 07/23	3/2020	Seq No: <b>9772683</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	ual
Arsenic	BRL	2.50									
Sample ID: LCS-300204	Client ID:				Uni	ts: mg/Kg	Prej	Date: 07/21	1/2020	Run No: <b>430833</b>	
SampleType: LCS	TestCode:	METALS, TOTAL SV	V6010D		Bato	chID: 300204	Ana	llysis Date: 07/23	3/2020	Seq No: <b>9772684</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	ual
Arsenic	45.25	2.50	50.00		90.5	80	120				
Sample ID: <b>2007J07-008BMS</b>	Client ID:				Uni	ts: mg/Kg-	dry Prej	Date: 07/21	1/2020	Run No: <b>430833</b>	
SampleType: MS	TestCode:	METALS, TOTAL SV	V6010D		Bato	chID: 300204	Ana	llysis Date: 07/23	3/2020	Seq No: <b>9772688</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	ual
Arsenic	47.00	2.88	57.64	3.115	76.1	75	125				
Sample ID: 2007J07-008BMSD	Client ID:				Uni	ts: mg/Kg-	dry Pre	Date: 07/21	1/2020	Run No: 430833	
SampleType: MSD	TestCode:	METALS, TOTAL SV	V6010D		Bato	chID: 300204	Ana	llysis Date: 07/23	3/2020	Seq No: <b>9772689</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	ual
Arsenic	47.02	2.88	57.67	3.115	76.1	75	125	47.00	0.042	20	

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

End of Report

# ANALYTICAL ENVIRONMENTAL SERVICES, INC.



July 28, 2020

Spencer Cox United Consulting Group Inc.

625 Holcomb Bridge Rd

Norcross

30071 GA

RE: Atlanta Beltline

Dear Spencer Cox: Order No: 2007K66

Analytical Environmental Services, Inc. received

10 samples on

7/21/2020 12:06:00 PM

for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/20-06/30/21.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

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,

Ioana Pacurar

Project Manager

IDana) Pacurar

# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Parkway, Atlanta GA 30340-3704

CHAIN OF CUSTODY

Work Order: 2007-KUG

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SAMPLI	Spencer Cox	SIGNA	TURE:	$\searrow$	<b>₩</b>	$\sim$		Arsenic	Benzo(a)Pyrene	Benzene	Desert	VOCs	SVOCs	RCRA-8 Metals	TCLP	НОГД		ntainers
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	EB-34-N2 (0.2)			11.35				X										t
3	EB- 34-5E1 (0.2)			11:41		-		X								X	HOLD	ı
4	EB. 34. SER (0.2)	-		11:45				X								-		1
5	EB- 34 - SWI (0.2)	+-	1				++		,	t						X	HOLO	1
6	EB- 34. 5w2 (0.2)	1	-	12:00		1	+						T		$\vdash$		11000	1
7	EB-34A (2.8)	-	-	12:01		-	+			+	-	-		+	$\vdash$			1
8	MANUEL EB-34-DUP30		-	12:05			++	K	-	+	-		$\vdash$	+				1
9	EB-38A (2-3)		_	12:10		-	++	X	-	+	+	$\vdash$	+	╁	+			1
10	EB . 33-NI (0-2)		_	12:15			++	X	-	╀	-			-	-	V	Leas D	1
11	EB-33-NZ (0-2)			12:20			++	X	-	-	-	-	+		-	$\wedge$	KOLD	1
12	EB-33-5E1 (0.2)			13:20			$\vdash$	X	_	_	-	_	-	1	-			
13	EB.33-5E2 (1.2)			13:30				X		_		_		_	1	X	MOLO	_1
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15	EB-33-5w2 (0.2)		1	14:01			50	X								X	HOLD	'
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Client: United Consulting Group Inc. Client Sample ID: EB-34-N1(0-2)

Project Name: Atlanta Beltline Collection Date: 7/20/2020 11:15:00 AM

**Lab ID:** 2007K66-001 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	91.0	2.43		mg/Kg-dry	300352	1	07/27/2020 16:18	KB
PERCENT MOISTURE D2216								
Percent Moisture	20.3	0		wt%	R430778	3 1	07/23/2020 00:00	JW

Date:

28-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-34-SE1(0-2)

Project Name: Atlanta Beltline

Collection Date: 7/20/2020 11:35:00 AM

**Lab ID:** 2007K66-003 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	10.5	2.12		mg/Kg-dry	300352	1	07/27/2020 16:20	KB
PERCENT MOISTURE D2216								
Percent Moisture	13.9	0		wt%	R430778	3 1	07/23/2020 00:00	JW

Date:

28-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-34-SW1(0-2) Project Name: Atlanta Beltline **Collection Date:** 7/20/2020 11:45:00 AM Lab ID: 2007K66-005

Matrix: Soil

28-Jul-20

Date:

Analyses	Result	Reporting Limit Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW3	6050B)			
Arsenic	306	2.22	mg/Kg-dry	300352	1	07/27/2020 16:27	KB
PERCENT MOISTURE D2216							
Percent Moisture	16.3	0	wt%	R430778	1	07/23/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc.

Project Name: Atlanta Beltline

**Lab ID:** 2007K66-007

Client Sample ID: EB-34A(2-3)

**Collection Date:** 7/20/2020 12:01:00 PM

Date:

28-Jul-20

Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	6.43	2.33		mg/Kg-dry	300352	1	07/27/2020 16:29	KB
PERCENT MOISTURE D2216								
Percent Moisture	16.4	0		wt%	R430778	3 1	07/23/2020 00:00	JW

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

United Consulting Group Inc.

**Client: Client Sample ID:** EB-34-DUP30

Project Name: Atlanta Beltline **Collection Date:** 7/20/2020 12:05:00 PM Soil

Lab ID: 2007K66-008 Matrix:

Analyses	Result	Reporting Limit Qua	l Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW3	8050B)			
Arsenic	13.1	2.15	mg/Kg-dry	300352	1	07/27/2020 16:32	KB
PERCENT MOISTURE D2216							
Percent Moisture	12.7	0	wt%	R430778	3 1	07/23/2020 00:00	JW

Date:

28-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc.

**Project Name:** Atlanta Beltline **Lab ID:** 2007K66-009

Client Sample ID: Collection Date: EB-33A(2-3)

28-Jul-20

Date:

7/20/2020 12:10:00 PM

Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	3050B)			
Arsenic	40.8	2.20		mg/Kg-dry	300352	1	07/27/2020 16:34	KB
PERCENT MOISTURE D2216								
Percent Moisture	16.1	0		wt%	R430778	3 1	07/23/2020 00:00	JW

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-33-N1(0-2)

Project Name: Atlanta Beltline Collection Date: 7/20/2020 12:15:00 PM

**Lab ID:** 2007K66-010 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	38.6	2.10		mg/Kg-dry	300352	1	07/27/2020 16:36	KB
PERCENT MOISTURE D2216								
Percent Moisture	11.8	0		wt%	R430778	3 1	07/23/2020 00:00	JW

Date:

28-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

United Consulting Group Inc.

**Project Name:** Atlanta Beltline **Lab ID:** 2007K66-012

**Client:** 

Client Sample ID: El Collection Date: 7/

Matrix:

EB-33-SE1(0-2) 7/20/2020 1:20:00 PM

28-Jul-20

Date:

Soil

Analyses	Result	Reporting Limit	Qual U	nits B	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3)	050B)			
Arsenic	11.5	2.13	r	mg/Kg-dry	300352	1	07/27/2020 16:38	KB
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R430778	1	07/23/2020 00:00	JW

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-33-SW1(0-2) Project Name: Atlanta Beltline **Collection Date:** 7/20/2020 1:55:00 PM Lab ID: 2007K66-014

Matrix: Soil

Date:

28-Jul-20

Analyses	Result	Reporting Limit Qu	al Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW	3050B)			
Arsenic	7.70	2.36	mg/Kg-dry	300352	1	07/27/2020 16:41	KB
PERCENT MOISTURE D2216							
Percent Moisture	16.8	0	wt%	R430778	3 1	07/23/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc. Client Sample ID: RS-3

**Project Name:** Atlanta Beltline Collection Date: 7/20/2020 2:03:00 PM

**Lab ID:** 2007K66-016 **Matrix:** Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED	SW6010D				(S <sup>v</sup>	W3005A)			
Arsenic		BRL	0.0100		mg/L	300389	) 1	07/27/2020 17:15	KB

Date:

28-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

# SUMMARY OF ANALYTES DETECTED

Date:

28-Jul-20

Analyses		Result	Qual	Reporting Limit	Units	BatchID	Dilutior Factor
Client Sample ID: Collection Date:	EB-34-N1(0-2) 7/20/2020 11:15:00 AM			Lab ID: Matrix:	2007K66-001 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			_
Arsenic		91.0		2.43	mg/Kg-dry	300352	1
PERCENT MOIST	TURE D2216						
Percent Moisture		20.3		0	wt%	R430778	1
Client Sample ID: Collection Date:	EB-34-SE1(0-2) 7/20/2020 11:35:00 AM			Lab ID: Matrix:	2007K66-003 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOIST	TURE D2216	10.5		2.12	mg/Kg-dry	300352	1
Percent Moisture		13.9		0	wt%	R430778	1
Client Sample ID: Collection Date:	EB-34-SW1(0-2) 7/20/2020 11:45:00 AM			Lab ID: Matrix:	2007K66-005 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOIST	TURE D2216	306		2.22	mg/Kg-dry	300352	1
Percent Moisture		16.3		0	wt%	R430778	1
Client Sample ID:	EB-34A(2-3)			Lab ID:	2007K66-007		
Collection Date: METALS, TOTAL	7/20/2020 12:01:00 PM SW6010D			Matrix: (SW3050B)	Soil		
Arsenic	57700102	6.43		2.33	mg/Kg-dry	300352	1
PERCENT MOIST	URE D2216	0.15		2.33		300332	•
Percent Moisture		16.4		0	wt%	R430778	1
Client Sample ID: Collection Date:	EB-34-DUP30 7/20/2020 12:05:00 PM			Lab ID: Matrix:	2007K66-008 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic		13.1		2.15	mg/Kg-dry	300352	1
PERCENT MOIST	TURE D2216						
Percent Moisture		12.7		0	wt%	R430778	1
Client Sample ID: Collection Date:	EB-33A(2-3) 7/20/2020 12:10:00 PM			Lab ID: Matrix:	2007K66-009 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic		40.8		2.20	mg/Kg-dry	300352	1
PERCENT MOIST	TURE D2216						
Percent Moisture		16.1		0	wt%	R430778	1
Client Sample ID: Collection Date:	EB-33-N1(0-2) 7/20/2020 12:15:00 PM			Lab ID: Matrix:	2007K66-010 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOIST	TURE D2216	38.6		2.10	mg/Kg-dry	300352	1
Percent Moisture		11.8		0	wt%	R430778	1
Client Sample ID: Collection Date:	EB-33-SE1(0-2) 7/20/2020 1:20:00 PM			Lab ID: Matrix:	2007K66-012 Soil		
Contention Date.					2011	Page 13 of 1	9

#### SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: EB-33-SE1(0-2) Collection Date: 7/20/2020 1:20:00 PM			Lab ID: Matrix:	2007K66-012 Soil		
METALS, TOTAL SW6010D			(SW3050B)	)		
Arsenic	11.5		2.13	mg/Kg-dry	300352	1
PERCENT MOISTURE D2216						
Percent Moisture	15.1		0	wt%	R430778	1
Client Sample ID: EB-33-SW1(0-2) Collection Date: 7/20/2020 1:55:00 PM			Lab ID: Matrix:	2007K66-014 Soil		
METALS, TOTAL SW6010D			(SW3050B)	)		
Arsenic	7.70		2.36	mg/Kg-dry	300352	1
PERCENT MOISTURE D2216						
Percent Moisture	16.8		0	wt%	R430778	1

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

J Estimated value detected below Reporting Limit

28-Jul-20

Date:



#### SAMPLE/COOLER RECEIPT CHECKLIST

Clear	Save as
O.Ou.	

1. Client Name: United Consulting Group Inc.			AES Work Order Number: 2007K66				
2. Carrier: FedEx UPS USPS Client Courier Other			-				
	Yes	No	N/A	Details	Comments		
3. Shipping container/cooler received in good condition?	10	Ю	ГО	damaged leaking other			
4. Custody seals present on shipping container?	Ю	0	О				
5. Custody seals intact on shipping container?	O		0				
6. Temperature blanks present?	0	O	О				
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	0	0	0	Cooling initiated for recently collected samples / ice present			
8. Chain of Custody (COC) present?	0	$\circ$					
9. Chain of Custody signed, dated, and timed when relinquished and received?		Ю	ĬŎ				
10. Sampler name and/or signature on COC?	0	Ю					
11. Were all samples received within holding time?	Ō	l Õ	ĬŎ				
12. TAT marked on the COC?	0	Ŏ	IÕ	If no TAT indicated, proceeded with standard TAT per Te	erms & Conditions.		
13. Cooler 1 Temperature 1.4 °C Cooler 2 Temperature 14. Cooler 5 Temperature °C Cooler 6 Temperature 15. Comments:			°C		er 4 Temperature°C er 8 Temperature°C		
	V	NI-	N/A	•	ompleted sections 1-15 (dated initials).  DY 7/22/202		
16. Were sample containers intact upon receipt?	Yes	No I	N/A	Details	Comments		
17. Custody seals present on sample containers?	$\vdash \bowtie$	10	1 X				
18. Custody seals intact on sample containers?	18	lŏ	10				
19. Do sample container labels match the COC?	Ō	Ŏ	Ö	incomplete info illegible no label other			
20. Are analyses requested indicated on the COC?	0	0	$\cap$				
21. Were all of the samples listed on the COC received?	0	O	O	samples received but not listed on COC samples listed on COC not received			
22. Was the sample collection date/time noted?	0		О				
23. Did we receive sufficient sample volume for indicated analyses?	0		Ю				
24. Were samples received in appropriate containers?	0						
25. Were VOA samples received without headspace (< 1/4" bubble)?	$\Box$						
26. Were trip blanks submitted?		0	0	listed on COC not listed on COC			
27. Comments:							
This section only applies to samples where pH can be				I certify that I have co	ompleted sections 16-27 (dated initials). DY 7/22/202		
checked at Sample Receipt.	Yes	No	N/A	Details	Comments		
28. Have containers needing chemical preservation been checked? *	O	O	0				
29. Containers meet preservation guidelines?	0	0	0				
30. Was pH adjusted at Sample Receipt?	0	0	0				

\* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have

I certify that I have completed sections 28-30 (dated initials).

Client: United Consulting Group Inc.

Project Name: Atlanta Beltline

**Lab Order:** 2007K66

# **Dates Report**

**Date:** 28-Jul-20

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2007K66-001A	EB-34-N1(0-2)	7/20/2020 11:15:00AM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-001A	EB-34-N1(0-2)	7/20/2020 11:15:00AM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-003A	EB-34-SE1(0-2)	7/20/2020 11:35:00AM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-003A	EB-34-SE1(0-2)	7/20/2020 11:35:00AM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-005A	EB-34-SW1(0-2)	7/20/2020 11:45:00AM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-005A	EB-34-SW1(0-2)	7/20/2020 11:45:00AM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-007A	EB-34A(2-3)	7/20/2020 12:01:00PM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-007A	EB-34A(2-3)	7/20/2020 12:01:00PM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-008A	EB-34-DUP30	7/20/2020 12:05:00PM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-008A	EB-34-DUP30	7/20/2020 12:05:00PM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-009A	EB-33A(2-3)	7/20/2020 12:10:00PM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-009A	EB-33A(2-3)	7/20/2020 12:10:00PM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-010A	EB-33-N1(0-2)	7/20/2020 12:15:00PM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-010A	EB-33-N1(0-2)	7/20/2020 12:15:00PM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-012A	EB-33-SE1(0-2)	7/20/2020 1:20:00PM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-012A	EB-33-SE1(0-2)	7/20/2020 1:20:00PM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-014A	EB-33-SW1(0-2)	7/20/2020 1:55:00PM	Soil	TOTAL METALS BY ICP		7/23/2020 12:40:00PM	07/27/2020
2007K66-014A	EB-33-SW1(0-2)	7/20/2020 1:55:00PM	Soil	PERCENT MOISTURE			07/23/2020
2007K66-016A	RS-3	7/20/2020 2:03:00PM	Aqueous	DISSOLVED METALS BY ICP		7/23/2020 5:45:00PM	07/27/2020

Workorder:

United Consulting Group Inc. **Client:** 

2007K66

Atlanta Beltline **Project Name:** 

ANALYTICAL QC SUMMARY REPORT

BatchID: 300352

Date:

28-Jul-20

Sample ID: MB-300352	Client ID:			Uni	ts: mg/Kg	Prep Date:	07/23/2020	Run No: 431035
SampleType: MBLK	TestCode:	METALS, TOTAL SW6010D		Bat	chID: 300352	Analysis Date:	07/27/2020	Seq No: 9777489
Analyte	Result	RPT Limit SPK valu	e SPK Ref Val	%REC	Low Limit Hig	h Limit RPD Re	f Val %RPD	RPD Limit Qual
Arsenic	BRL	2.50						
Sample ID: LCS-300352	Client ID:			Uni	ts: mg/Kg	Prep Date:	07/23/2020	Run No: 431035
SampleType: LCS	TestCode:	METALS, TOTAL SW6010D		Bat	chID: 300352	Analysis Date:	07/27/2020	Seq No: 9777490
Analyte	Result	RPT Limit SPK valu	e SPK Ref Val	%REC	Low Limit Hig	h Limit RPD Re	f Val %RPD	RPD Limit Qual
Arsenic	43.83	2.50 50.00		87.7	80	120		
Sample ID: 2007911-002AMS	Client ID:			Uni	ts: mg/Kg-dry	Prep Date:	07/23/2020	Run No: 431035
SampleType: MS	TestCode:	METALS, TOTAL SW6010D		Bat	chID: 300352	Analysis Date:	07/27/2020	Seq No: 9777492
Analyte	Result	RPT Limit SPK valu	e SPK Ref Val	%REC	Low Limit Hig	h Limit RPD Re	f Val %RPD	RPD Limit Qual
Arsenic	40.50	2.17 43.45	6.896	77.3	75	125		
Sample ID: 2007911-002AMSD	Client ID:			Uni	ts: mg/Kg-dry	Prep Date:	07/23/2020	Run No: 431035
SampleType: MSD	TestCode:	METALS, TOTAL SW6010D		Bat	chID: <b>300352</b>	Analysis Date:	07/27/2020	Seq No: <b>9777493</b>
Analyte	Result	RPT Limit SPK valu	e SPK Ref Val	%REC	Low Limit Hig	h Limit RPD Re	f Val %RPD	RPD Limit Qual
Arsenic	40.55	2.17 43.38	6.896	77.6	70	125 40.50	0.114	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: United Consulting Group Inc.

**Project Name:** Atlanta Beltline **Workorder:** 2007K66

## ANALYTICAL QC SUMMARY REPORT

Date:

28-Jul-20

BatchID: 300389

Sample ID: MB-300389 SampleType: MBLK	Client ID:	METALS, DISSOLVED	SW6010D		Unit	ts: <b>mg/L</b>	Prep D	Oate: 07/23/ sis Date: 07/27/		Run No: <b>431064</b> Seq No: <b>9778142</b>
SampleType. WIBLK	resicoue.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	51100102		Бан	.IIID. 300369	Anary	515 Date. 07/27/	72020	Seq 110. 9778142
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	BRL	0.0100								
Sample ID: LCS-300389	Client ID:				Uni	ts: mg/L	Ргер Г	Date: 07/23	/2020	Run No: <b>431064</b>
SampleType: LCS	TestCode:	METALS, DISSOLVED	SW6010D		Bato	chID: 300389	Analy	sis Date: <b>07/27</b>	/2020	Seq No: <b>9778143</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	1.005	0.0500	1.000		101	80	120			
Sample ID: 2007K66-016AMS	Client ID:				Uni	ts: mg/L	Ргер Г	Date: 07/23	/2020	Run No: <b>431064</b>
SampleType: MS	TestCode:	METALS, DISSOLVED	SW6010D		Bato	chID: 300389	Analy	sis Date: <b>07/27</b>	/2020	Seq No: 9778147
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	0.9982	0.0500	1.000		99.8	75	125			
Sample ID: 2007K66-016AMSD	Client ID:				Uni	ts: mg/L	Prep I	Date: 07/23	/2020	Run No: <b>431064</b>
SampleType: MSD	TestCode:	METALS, DISSOLVED	SW6010D		Bato	chID: 300389	Analy	sis Date: <b>07/27</b>	/2020	Seq No: 9778148
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	0.9871	0.0500	1.000		98.7	75	125	0.9982	1.12	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

End of Report

# ANALYTICAL ENVIRONMENTAL SERVICES, INC.



July 30, 2020

Spencer Cox United Consulting Group Inc.

625 Holcomb Bridge Rd

Norcross

GA

30071

RE: Atlanta Beltline

Dear Spencer Cox: Order No: 2007P91

Analytical Environmental Services, Inc. received for the analyses presented in following report.

9 samples on

7/27/2020 12:00:00 AM

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/20-06/30/21.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

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,

Ioana Pacurar

Project Manager

IDana) Pacurar

# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Parkway, Atlanta GA 30340-3704 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

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2	EB-35-NI (0.2)	۲.,	1100	11:10	$\overline{}$		1	<u>'</u>	Ż	j	$\vdash$	T	<u> </u>	<b>†</b>	<b>†</b>	<b>†</b>	T		1
3	EB. 35-N2 (0.2)			11:12		<u> </u>	1		X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u> </u>	X	HOLD	
4	EB 35- SEI (0.2)			11:29	1	<u> </u>			X	1_	<u> </u>			<u> </u>		一			i
5	EB-35-5E2 (0.2)			11:31					区			匸					区	HOLO	l
6	EB-35.5W1 (0-2)			11:37					X										(
7	EB-35-5N2 (0-2)		ŀ	17:38		Ι	$\square$		么					<u> </u>	L		X	HOLD	1
8	EB-36A(2-3)		$\coprod$	11:45		<u> </u>			X		1_		<u> </u>	1_	<u></u>		<u> </u>		
9	EB-30-N1 (0-2)	<u> </u>	Ш_'	11:51	ightharpoons	<u> </u>	$oxed{oxed}$	Ц	X		1_		<u> </u>			1_	<b>Ļ</b> "		لبلا
10	E8-310-N2 (0-2)	<u> </u>	<u> </u>  '	11:55	ightharpoons	<del></del>	<b>↓_/</b> /	Ц	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<del> </del>	<del> </del>	×	NOLD	
11	ED-310-SEI (0.2)	<u> </u>	₩!	12110	Ď	4	igspace	Ц	À	<del> </del>	<del> </del>	<del> </del>	<u> </u>	<del> </del>	<u> </u>	<del> </del>	Ļ	· · · · · · · · · · · · · · · · · · ·	ĻĻ
12	EB-310 - SEZ (0-2)	<u> </u>	<b> </b>	12:15	<del>[</del>	<del></del>	$\sqcup$	Ш	$\nearrow$	ــــــــــــــــــــــــــــــــــــــ	╀	<del> </del>	<u> </u>	╀	╀	╀		Horo	لبا
13	EB-30-541 (0-2)	<b> </b>		12:20	$\rightleftharpoons$	<del> </del>	1	Н		₩	╀	╀	₩	<del> </del>	╀	<del> </del>	F	1	111
14	EB-36-502 (0-2)	$\vdash$	<b>-</b>	12:31	<del>[</del>		+	$\vdash$	今	╄	╀	+-	+-	+	┼	+	X		1
15	EB-36-DUP 29	<del> </del>	<del>                                     </del>	12:35	$\rightleftharpoons$	₩	+	Н		╀	$\vdash$	┼	₩	┼	+	+-	4/14		+
16	EB-37A (4-4)	$\vdash$	$\vdash \vdash$	13:05	$\rightleftharpoons$	4	+	$\vdash$	令	╄-	+-	+	┼	+	+-	+-	+		1
17	1944 EB-37-NE(   0-2)	$\vdash$	<del> </del> '	13:10	1	+	+	H	$\Theta$	+-	+	+	$\vdash$	+	+-	+-	$\leftarrow$	,	1
.18	EB-32-NE2 (0-2)	$\vdash$	<del> </del>	13:15		+	+	H	$\Diamond$	╀	+	+-	$\vdash$	+	+	+-	1	Horo	+
19	EB-37-51 (0-2) EB-57-52 (0-2)	-		13:21	1	-	+	H	令	十	+	+	+	+	+	+	夂	1	1
20	EB-37-NUI (1-2)	H		13:33	1	+	+	H	X	╁	+	+	+	十	+	+	<b> </b>	HOLO	1
22	EB-34-NW2 (1-2)		<del></del>	15:45	1	+	Se		R	┿	+	+	+	+	+	+	攵	Halp	1
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	× 10.11	3:1	<i>#</i>	<u>力·</u>	7/1	NV	٠ د		SIL	E ADL	DRESS	3:			Atlant	la		Standard 5 Business Days 2 Business Day Rush	
-									SEN	ID RE	PORT	TO:		Spe	ncer Co	ax	1775.	Next Business Day Rush	
SPECIA	L INSTRUCTIONS/COMMENTS:	SHIPMENT METHOD				OICE				- ne		-		Same Day Rush (auth req.	<b>.</b> }				
	Q-1.4 A	OUT		<i>! !</i>	VIA: VIA:				(n.	Dirra	REI.	i Pro.	M ABC	JVE,				Other 4 Day Turn	
	SEGMENT 2 IN / VIA:  CLEEN Fedex UPS MAIL COURIER		STATE PROGRAM (if any):   E-mail? Y/N;   Fax? Y/N				-												
			EYHOUND C				0.300					DATA PACKAGE: 1, II III	. IV						
		***************************************							-							_			

Client: United Consulting Group Inc.

Project: Atlanta Beltline Case Narrative

Date:

30-Jul-20

**Lab ID:** 2007P91

#### Additional Testing:

At the request of Spencer Cox with United Consulting via e-mail on 7/27/20 all samples listed below were analyzed for Total Arsenic from AES work order 2007I99:

2007I99-003A - EB-35-N2 (0-2)

2007I99-005A - EB-35-SE2 (0-2)

2007I99-007A - EB-35-SW2 (0-2)

2007I99-010A - EB-36-N2 (0-2)

2007I99-012A - EB-36-SE2 (0-2)

2007I99-014A - EB-36-SW2 (0-2)

2007I99-018A - EB-37-NE2 (0-2)

2007I99-020A - EB-37-S2 (0-2)

2007I99-022A - EB-37-NW2 (0-2)

Client: United Consulting Group Inc. Client Sample ID: EB-35-N2 (0-2)

Project Name: Atlanta Beltline Collection Date: 7/17/2020 11:12:00 AM

Lab ID:2007P91-001Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	3050B)			
Arsenic	558	2.20		mg/Kg-dry	300554	1	07/30/2020 09:30	KB
PERCENT MOISTURE D2216								
Percent Moisture	14.2	0		wt%	R431045	1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. Project Name: Atlanta Beltline

Lab ID: 2007P91-002 **Client Sample ID:** EB-35-SE2 (0-2) **Collection Date:** 7/17/2020 11:31:00 AM

Date:

30-Jul-20

Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	15.2	2.18		mg/Kg-dry	300554	1	07/30/2020 09:33	KB
PERCENT MOISTURE D2216								
Percent Moisture	16.3	0		wt%	R431045	5 1	07/28/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-35-SW2 (0-2) Project Name: Atlanta Beltline **Collection Date:** 

7/17/2020 11:38:00 AM Soil

Lab ID: 2007P91-003 Matrix:

Analyses	Result	Reporting Limit	Qual I	Units I	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	89.5	2.37		mg/Kg-dry	300554	1	07/30/2020 09:35	KB
PERCENT MOISTURE D2216								
Percent Moisture	17.9	0		wt%	R431045	1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-36-N2 (0-2)

Project Name: Atlanta Beltline Collection Date: 7/17/2020 11:55:00 AM

**Lab ID:** 2007P91-004 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	153	2.12		mg/Kg-dry	300554	1	07/30/2020 09:37	KB
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R431045	1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc.

Project Name: Atlanta Beltline Lab ID: 2007P91-005

**Client Sample ID:** EB-36-SE2 (0-2) **Collection Date:** 

Matrix:

7/17/2020 12:15:00 PM

30-Jul-20

Date:

Soil

Analyses	Result	Reporting Limit	Qual Ur	nits E	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	128	2.10	m	ng/Kg-dry	300554	1	07/30/2020 09:40	KB
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R431045	5 1	07/28/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-36-SW2 (0-2)Project Name:Atlanta BeltlineCollection Date:7/17/2020 12:31:00 PMLab ID:2007P91-006Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	3050B)			
Arsenic	130	2.27		mg/Kg-dry	300554	1	07/30/2020 09:42	KB
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R431045	5 1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

Client:United Consulting Group Inc.Client Sample ID:Project Name:Atlanta BeltlineCollection Date:

Lab ID: 2007P91-007 Matrix:

**Client Sample ID:** EB-37-NE2 (0-2) **Collection Date:** 7/17/2020 1:15:00 PM

Date:

30-Jul-20

Matrix: Soil

Reporting **Dilution** Result **BatchID** Analyses Qual Units Date Analyzed Analyst Factor Limit **SW6010D** (SW3050B) **METALS, TOTAL** 37.5 mg/Kg-dry 300554 07/30/2020 09:49 Arsenic 2.10 KB PERCENT MOISTURE D2216 R431045 10.8 0 wt% JW Percent Moisture 07/28/2020 00:00

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** 

EB-37-S2 (0-2) Project Name: Atlanta Beltline **Collection Date:** 7/17/2020 1:21:00 PM

Lab ID: 2007P91-008 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	304	2.26		mg/Kg-dry	300554	1	07/30/2020 09:52	KB
PERCENT MOISTURE D2216								
Percent Moisture	13.0	0		wt%	R431045	5 1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-37-NW2 (0-2) Project Name: Atlanta Beltline **Collection Date:** Lab ID: 2007P91-009

Matrix: Soil

7/17/2020 1:45:00 PM

30-Jul-20

Date:

Reporting **Dilution** BatchID Result Analyses Qual Units Date Analyzed Analyst Factor Limit **SW6010D** (SW3050B) **METALS, TOTAL** 70.6 mg/Kg-dry300554 07/30/2020 09:54 Arsenic 2.12 KB PERCENT MOISTURE D2216 14.5 0 wt% R431045 JW Percent Moisture 07/28/2020 00:00

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

Е Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

# SUMMARY OF ANALYTES DETECTED

Analyses		Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: Collection Date:	EB-35-N2 (0-2) 7/17/2020 11:12:00 AM			Lab ID: Matrix:	2007P91-001 Soil		
METALS, TOTAL	SW6010D			(SW3050B)	)		
Arsenic		558		2.20	mg/Kg-dry	300554	1
PERCENT MOIST	ΓURE D2216						
Percent Moisture		14.2		0	wt%	R431045	1
Client Sample ID: Collection Date:	EB-35-SE2 (0-2) 7/17/2020 11:31:00 AM			Lab ID: Matrix:	2007P91-002 Soil		
METALS, TOTAL	SW6010D			(SW3050B)	)		
Arsenic		15.2		2.18	mg/Kg-dry	300554	1
PERCENT MOIST	ΓURE D2216						
Percent Moisture		16.3		0	wt%	R431045	1
Client Sample ID:	EB-35-SW2 (0-2)			Lab ID:	2007P91-003		
Collection Date: METALS, TOTAL	7/17/2020 11:38:00 AM SW6010D			Matrix:	Soil		
•	SW0010D	00.5		(SW3050B)		200554	
Arsenic PERCENT MOIST	ГURE D2216	89.5		2.37	mg/Kg-dry	300554	1
Percent Moisture		17.9		0	wt%	R431045	1
Client Sample ID:	EB-36-N2 (0-2)			Lab ID:	2007P91-004		
<b>Collection Date:</b>	7/17/2020 11:55:00 AM			Matrix:	Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic		153		2.12	mg/Kg-dry	300554	1
PERCENT MOIST	ΓURE D2216						
Percent Moisture		10.6		0	wt%	R431045	1
Client Sample ID: Collection Date:	EB-36-SE2 (0-2) 7/17/2020 12:15:00 PM			Lab ID: Matrix:	2007P91-005 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic		128		2.10	mg/Kg-dry	300554	1
PERCENT MOIST	<b>ΓURE D2216</b>						
Percent Moisture		12.8		0	wt%	R431045	1
Client Sample ID: Collection Date:	EB-36-SW2 (0-2) 7/17/2020 12:31:00 PM			Lab ID: Matrix:	2007P91-006 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic		130		2.27	mg/Kg-dry	300554	1
PERCENT MOIST	<b>ΓURE D2216</b>						
Percent Moisture		19.0		0	wt%	R431045	1
Client Sample ID: Collection Date:	EB-37-NE2 (0-2) 7/17/2020 1:15:00 PM			Lab ID: Matrix:	2007P91-007 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic		37.5		2.10	mg/Kg-dry	300554	1
PERCENT MOIST	<b>ΓURE D2216</b>						
Percent Moisture		10.8		0	wt%	R431045	1
Client Sample ID: Collection Date:	EB-37-S2 (0-2) 7/17/2020 1:21:00 PM			Lab ID: Matrix:	2007P91-008 Soil		
Concetion Date.	7772020 1.21.00 1141			111111111111	5011	Page 13 of 1	7

Date: 30-Jul-20

#### SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: EB-37-S2 (0-2) Collection Date: 7/17/2020 1:21:00 PM			Lab ID: Matrix:	2007P91-008 Soil		
METALS, TOTAL SW6010D			(SW3050B)			
Arsenic	304		2.26	mg/Kg-dry	300554	1
PERCENT MOISTURE D2216						
Percent Moisture	13.0		0	wt%	R431045	1
Client Sample ID: EB-37-NW2 (0-2)			Lab ID:	2007P91-009		
<b>Collection Date:</b> 7/17/2020 1:45:00 PM			Matrix:	Soil		
METALS, TOTAL SW6010D			(SW3050B)	)		
Arsenic	70.6		2.12	mg/Kg-dry	300554	1
PERCENT MOISTURE D2216						
Percent Moisture	14.5		0	wt%	R431045	1

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

J Estimated value detected below Reporting Limit

30-Jul-20

Date:

# ANALYTICAL ENVIRONMENTAL SERVICES, INC.

#### SAMPLE/COOLER RECEIPT CHECKLIST

5 Work Order Number: 2007199 2004 P91

1. Client Name: United Consulting Group Inc.	AES Work Ord	AES Work Order Number: -2007199 - 2007-P91				
2. Carrier: FedEx UPS USPS Client ■ Courier Othei			,	<del>.</del>		
	Yes	No	N/A	Details	Comments	
3. Shipping container/cooler received in good condition?	0	О	О	damaged leaking other		
L. Custody seals present on shipping container?	O	0	0			
. Custody seals intact on shipping container?	0	О	0			
. Temperature blanks present?	O	0	0			
Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for	0	0	0	Cooling initiated for recently collected sample	s / ice	
temperature recordings.]				present		
Chain of Custody (COC) present?	0					
. Chain of Custody signed, dated, and timed when relinquished and received?	Ō		0			
. Sampler name and/or signature on COC?	0	l O	O			
. Were all samples received within holding time?	0	LO	LQ.			
TAT marked on the COC?	<u> </u>	LO	<u>LO</u>	If no TAT indicated, proceeded with standard	TAT per Terms & Conditions.	
Cooler 1 Temperature 2.3 °C Cooler 2 Temperature			°C	Cooler 3 Temperature °C	Cooler 4 Temperature °C	
			,c		Cooler 8 Temperature°C	
Cooler 5 Temperature Cooler 6 Temperature			΄.	Cooler 7 Temperature °C	Cooler 8 Temperature	
. Comments:						
					t I have completed sections 1-15 (dated initials) LM 7/18	
				I certify that	t I have completed sections 1-15 (dated initials).	
	Yes	Nο	N/A	Details	Comments	
. Were sample containers intact upon receipt?	0	О	0			
. Custody seals present on sample containers?	O	0	0			
. Custody seals intact on sample containers?	0	0	0			
. Do sample container labels match the COC?	0	0	0	incomplete info		
. Are analyses requested indicated on the COC?	0	$\circ$	0			
			~	samples received but not listed on COC		
. Were all of the samples listed on the COC received?	0	0	0	samples listed on COC not received		
. Was the sample collection date/time noted?	0	0	0			
Did we receive sufficient sample volume for indicated analyses?	Ö	Ŏ	Ö			
Were samples received in appropriate containers?	Õ	Ŏ	Ö			
Were VOA samples received without headspace (< 1/4" bubble)?	O	O	Õ			
. Were trip blanks submitted?	Ŏ	Ŏ	Õ	listed on COC not listed on COC		
. Comments:						
This section only applies to complex where pH cap be				I certify that	t I have completed sections 16-27 (dated initials). LM 7/1	
This section only applies to samples where pH can be checked at Sample Receipt.	Yes	No	N/A	Details	Comments	
. Have containers needing chemical preservation been checked? *	<u> </u>	٦	(A)	Details	Comments	
Containers meet preservation guidelines?	$\vdash \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	1 <del>X</del>	8			
. Was pH adjusted at Sample Receipt?	$\vdash X$	$+$ $\times$	8			
	<u> </u>	<u> </u>		<u> </u>		
* Note: Certain analyses require chemical preservation but must be checked	in the la	aborator	and no		Cs and Oil & Grease/TPH. t I have completed sections 28-30 (dated initials).  LM 7/1	

Checklist 6.9.17 Rev 2

Locked

United Consulting Group Inc. **Client:** 

Atlanta Beltline **Project Name:** Workorder: 2007P91

## ANALYTICAL QC SUMMARY REPORT

Date:

30-Jul-20

BatchID: 300554

Sample ID: MB-300554	Client ID:			Uni	its: mg/Kg	Pre	p Date: 07/29	0/2020	Run No: <b>431276</b>
SampleType: MBLK	TestCode:	METALS, TOTAL SW6010D		Bat	chID: 300554	An	alysis Date: 07/30	0/2020	Seq No: 9783852
Analyte	Result	RPT Limit SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	BRL	2.50							
Sample ID: LCS-300554	Client ID:			Uni	its: mg/Kg	Pre	p Date: 07/29	0/2020	Run No: <b>431276</b>
SampleType: LCS	TestCode:	METALS, TOTAL SW6010D		Bat	chID: 300554	An	alysis Date: 07/30	0/2020	Seq No: 9783853
Analyte	Result	RPT Limit SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	47.87	2.50 50.00		95.7	80	120			
Sample ID: 2007Q43-006AMS	Client ID:			Uni	its: mg/Kg-	dry Pre	p Date: 07/29	0/2020	Run No: <b>431276</b>
SampleType: MS	TestCode:	METALS, TOTAL SW6010D		Bat	chID: 300554	An	alysis Date: 07/30	0/2020	Seq No: 9783855
Analyte	Result	RPT Limit SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	35.82	2.05 41.03		87.3	75	125			
Sample ID: 2007Q43-006AMSD	Client ID:			Uni	its: mg/Kg-	dry Pre	p Date: <b>07/29</b>	0/2020	Run No: 431276
SampleType: MSD	TestCode:	METALS, TOTAL SW6010D		Bat	chID: 300554	An	alysis Date: 07/30	0/2020	Seq No: <b>9783858</b>
Analyte	Result	RPT Limit SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	34.49	2.05 41.05		84.0	75	125	35.82	3.78	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

End of Report

# ANALYTICAL ENVIRONMENTAL SERVICES, INC.



July 30, 2020

Spencer Cox

United Consulting Group Inc.

625 Holcomb Bridge Rd

Norcross

GA 30071

RE: Atlanta Beltline

Dear Spencer Cox: Order No: 2007Q43

Analytical Environmental Services, Inc. received for the analyses presented in following report.

9 samples on 7.

7/27/2020 12:00:00 AM

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/20-06/30/21.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

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,

Ioana Pacurar

Project Manager

Ivana Pacurar

CHAIN OF CUSTODY

Work Order: 2007112 ANALYTICAL ENVIRONMENTAL SERVICES, INC 3080 Presidential Parkway, Atlanta GA 30340 3704 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

COMPA	ADDRESS: 625 HOLCOMB BRIDGE ROAD ANALYSIS REQUESTED																	
	UNITED CONSULTING	ļ		NORCROS	S, GEO	RGIA	30071		Visit our website									
:	CONSULTING			770-209-002	FAX:	770-582	2-2900										www.aesatlanta.com to	
PHONE	770 042 0055	FAX:		7	ZO-5 <i>8</i> 2	200		1	0					۱.,			check on the status of your results, place bottle orders,	
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CHAIN OF CUSTODY

Work Order:

3080 Presidential Parkway, Atlanta GA 30340-3704 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

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Client: United Consulting Group Inc.

Project: Atlanta Beltline Case Narrative

Date:

30-Jul-20

**Lab ID:** 2007Q43

#### Additional Testing:

At the request of Spencer Cox with United Consulting via e-mail on 7/27/20 all samples listed below were taken off hold from AES work order 2007H20 and analyzed for the analyses listed below:

2007H20-003A - EB-46-N2 (0-2) - 6010 As/PAHs (BAP)

2007H20-014A - EB-41-NE2 (0-2) - 6010 As

2007H20-025A - EB-40-E2 (0-2) - 6010 As

2007H20-027A - EB-40-SW2 (0-2) - 6010 As

2007H20-033A - EB-39-SE2(0-2) - 6010 As

2007H20-035A - EB-39-SW2 (0-2) - 6010 As

2007 H<br/>20-038 A - EB-38-N2 (0-2) – 6010 As

2007H20-040A - EB-38-SE2(0-2) - 6010 As

2007H20-042A - EB-38-SW2 (0-2) - 6010 As

United Consulting Group Inc.

**Client: Client Sample ID:** EB-46-N2 (0-2)

Project Name: Atlanta Beltline **Collection Date:** 7/15/2020 9:30:00 AM Lab ID: 2007Q43-001 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS	SW8270D			(SW:	3546)			
Benzo(a)pyrene	830	370		ug/Kg-dry	300502	1	07/29/2020 01:52	HL
Surr: 2-Fluorobiphenyl	73.4	54.4-120		%REC	300502	1	07/29/2020 01:52	HL
Surr: 4-Terphenyl-d14	81.4	60.4-120		%REC	300502	1	07/29/2020 01:52	HL
Surr: Nitrobenzene-d5	63.1	51-120		%REC	300502	1	07/29/2020 01:52	HL
METALS, TOTAL SW6010D				(SW.	3050B)			
Arsenic	394	2.38		mg/Kg-dry	300554	1	07/30/2020 09:56	KB
PERCENT MOISTURE D2216								
Percent Moisture	11.1	0		wt%	R431045	5 1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

2007Q43-002

Lab ID:

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-41-NE2 (0-2) Project Name: Atlanta Beltline **Collection Date:** 

Matrix:

7/15/2020 10:59:00 AM

30-Jul-20

Soil

Date:

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW	3050B)			
Arsenic	35.2	2.14	mg/Kg-dry	300554	1	07/30/2020 09:59	KB
PERCENT MOISTURE D2216							
Percent Moisture	13.1	0	wt%	R431045	5 1	07/28/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-40-E2 (0-2)

Project Name: Atlanta Beltline **Collection Date:** 7/16/2020 10:01:00 AM

Lab ID: 2007Q43-003 Matrix: Soil

							I .
Analyses	Result	Reporting Limit	l Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D			(SW	3050B)			
Arsenic	225	2.21	mg/Kg-dry	300554	1	07/30/2020 10:01	KB
PERCENT MOISTURE D2216							
Percent Moisture	16.0	0	wt%	R431045	5 1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client:United Consulting Group Inc.Client Sample ID:EB-40-SW2 (0-2)Project Name:Atlanta BeltlineCollection Date:7/16/2020 10:08:00 AMLab ID:2007Q43-004Matrix:Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	6050B)			
Arsenic	330	2.51		mg/Kg-dry	300554	1	07/30/2020 10:03	KB
PERCENT MOISTURE D2216								
Percent Moisture	20.2	0		wt%	R431045	1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

2007Q43-005

Lab ID:

Client:United Consulting Group Inc.Client Sample ID:Project Name:Atlanta BeltlineCollection Date:

**Client Sample ID:** EB-39-SE2 (0-2) **Collection Date:** 7/16/2020 10:31:00 AM

Date:

30-Jul-20

Matrix: Soil

Reporting **Dilution** BatchID Result Analyses Qual Units Date Analyzed Analyst Factor Limit **SW6010D** (SW3050B) **METALS, TOTAL** 144 mg/Kg-dry 300554 07/30/2020 10:06 Arsenic 2.19 KB PERCENT MOISTURE D2216 R431045 13.3 0 wt% JW Percent Moisture 07/28/2020 00:00

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-39-SW2 (0-2) Project Name: Atlanta Beltline **Collection Date:** Lab ID: 2007Q43-006

Matrix: Soil

7/16/2020 10:50:00 AM

30-Jul-20

Date:

Analyses	Result	Reporting Limit	Qual	Units I	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	BRL	2.05		mg/Kg-dry	300554	1	07/30/2020 09:12	KB
PERCENT MOISTURE D2216								
Percent Moisture	11.4	0		wt%	R431045	1	07/28/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-38-N2 (0-2)

Project Name: Atlanta Beltline Collection Date: 7/16/2020 10:58:00 AM

**Lab ID:** 2007Q43-007 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	22.8	2.15		mg/Kg-dry	300554	1	07/30/2020 10:08	KB
PERCENT MOISTURE D2216								
Percent Moisture	13.3	0		wt%	R431045	5 1	07/28/2020 00:00	JW

Date:

30-Jul-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. Project Name: Atlanta Beltline

Lab ID: 2007Q43-008 **Client Sample ID:** EB-38-SE2 (0-2) **Collection Date:** 

7/16/2020 11:01:00 AM

30-Jul-20

Date:

Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	20.6	2.21		mg/Kg-dry	300554	1	07/30/2020 10:10	KB
PERCENT MOISTURE D2216								
Percent Moisture	16.2	0		wt%	R431045	5 1	07/28/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-38-SW2 (0-2) Project Name: Atlanta Beltline **Collection Date:** 7/16/2020 11:15:00 AM Lab ID: 2007Q43-009

Matrix: Soil

Date:

30-Jul-20

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	18.4	2.22		mg/Kg-dry	300554	1	07/30/2020 10:17	KB
PERCENT MOISTURE D2216								
Percent Moisture	16.6	0		wt%	R431045	5 1	07/28/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

# SUMMARY OF ANALYTES DETECTED

Analyses	SOMM	Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
•	EB-46-N2 (0-2) 7/15/2020 9:30:00 AM			Lab ID: Matrix:	2007Q43-001 Soil		
POLYAROMATIC HY	YDROCARBONS	SW8270D		(SW3546)			
Benzo(a)pyrene METALS, TOTAL	SW6010D	830		370 <b>(SW3050B)</b>	ug/Kg-dry	300502	1
Arsenic PERCENT MOISTU		394		2.38	mg/Kg-dry	300554	1
Percent Moisture	7KE D2210	11.1		0	wt%	R431045	1
•	EB-41-NE2 (0-2) 7/15/2020 10:59:00 AM			Lab ID: Matrix:	2007Q43-002 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOISTU	JRE D2216	35.2		2.14	mg/Kg-dry	300554	1
Percent Moisture		13.1		0	wt%	R431045	1
•	EB-40-E2 (0-2) 7/16/2020 10:01:00 AM			Lab ID: Matrix:	2007Q43-003 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOISTU	JRE D2216	225		2.21	mg/Kg-dry	300554	1
Percent Moisture		16.0		0	wt%	R431045	1
_	EB-40-SW2 (0-2) 7/16/2020 10:08:00 AM			Lab ID: Matrix:	2007Q43-004 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOISTU	JRE D2216	330		2.51	mg/Kg-dry	300554	1
Percent Moisture		20.2		0	wt%	R431045	1
_	EB-39-SE2 (0-2) 7/16/2020 10:31:00 AM			Lab ID: Matrix:	2007Q43-005 Soil		
METALS, TOTAL	SW6010D			(SW3050B)			
Arsenic PERCENT MOISTU	JRE D2216	144		2.19	mg/Kg-dry	300554	1
Percent Moisture		13.3		0	wt%	R431045	1
Collection Date: 7	EB-39-SW2 (0-2) 7/16/2020 10:50:00 AM			Lab ID: Matrix:	2007Q43-006 Soil		
PERCENT MOISTU	JRE D2216						
Percent Moisture		11.4		0	wt%	R431045	1
Collection Date: 7	EB-38-N2 (0-2) 7/16/2020 10:58:00 AM			Lab ID: Matrix:	2007Q43-007 Soil		
METALS, TOTAL	SW6010D	25.2		(SW3050B)	mr .	200	٠
Arsenic PERCENT MOISTU	URE D2216	22.8		2.15	mg/Kg-dry	300554	1
Percent Moisture		13.3		0	wt%	R431045	1
_	EB-38-SE2 (0-2) 7/16/2020 11:01:00 AM			Lab ID: Matrix:	2007Q43-008 Soil	Page 14 of 2	
						aye 14 of Z	_

Date: 30-Jul-20

### SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: EB-38-SE2 (0-2) Collection Date: 7/16/2020 11:01:00 AM			Lab ID: Matrix:	2007Q43-008 Soil		
METALS, TOTAL SW6010D			(SW3050B)			
Arsenic	20.6		2.21	mg/Kg-dry	300554	1
PERCENT MOISTURE D2216						
Percent Moisture	16.2		0	wt%	R431045	1
Client Sample ID: EB-38-SW2 (0-2)			Lab ID:	2007Q43-009		
<b>Collection Date:</b> 7/16/2020 11:15:00 AM			Matrix:	Soil		
METALS, TOTAL SW6010D			(SW3050B)	)		
Arsenic	18.4		2.22	mg/Kg-dry	300554	1
PERCENT MOISTURE D2216						
Percent Moisture	16.6		0	wt%	R431045	1

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

J Estimated value detected below Reporting Limit

30-Jul-20

Date:



### SAMPLE/COOLER RECEIPT CHECKLIST

JP4/30

1. Client Name: United Consulting Group Inc.		AES Work Order Number: 2007H20 2007Q 43							
2. Carrier: FedEx UPS USPS Client Courier Other									
	Yes	No	N/A	Details	Comments				
3. Shipping container/cooler received in good condition?	0	0	О	damaged leaking other					
4. Custody seals present on shipping container?	Ö	0	Ō						
5. Custody seals intact on shipping container?	Ô	O	0						
6. Temperature blanks present?	O	0	0						
Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for	0	0	0	Cooling initiated for recently collected samples / ice					
7. temperature recordings.]	U			present					
8. Chain of Custody (COC) present?	0	O	0						
9. Chain of Custody signed, dated, and timed when relinquished and received?	0	О	0						
10. Sampler name and/or signature on COC?	0	О	0						
11. Were all samples received within holding time?	0	0	0						
12. TAT marked on the COC?	0	0	O	If no TAT indicated, proceeded with standard TAT per Te	rms & Conditions.				
13. Cooler 1 Temperature 1.3 °C Cooler 2 Temperature			C	•	r 4 Temperature °C				
14. Cooler 5 Temperature °C Cooler 6 Temperature		(	C		r 8 Temperature°C				
15. Comments:					· · · · · · · · · · · · · · · · · · ·				
				I certify that I have co	mpleted sections 1-15 (dated initials).	FM 7/17/20			
	W	81-	h:/A	•	Comments				
	Yes	No	N/A	Details T	Comments				
16. Were sample containers intact upon receipt?	9	$\mathbb{Q}$	X						
17. Custody seals present on sample containers?	Y	Q	12						
18. Custody seals intact on sample containers?	O	0	0		1				
19. Do sample container labels match the COC?	0	0	0	incomplete info illegible no label other					
20 A	6	<u> </u>	_	no label other					
20. Are analyses requested indicated on the COC?	0	O	O	complete received but not listed on COC					
21. Were all of the samples listed on the COC received?	0	10	0	samples received but not listed on COC					
20 We the correle collection data/time poted?	0	_		samples listed on COC not received					
22. Was the sample collection date/time noted?  23. Did we receive sufficient sample volume for indicated analyses?	8	8	$\vdash X$						
24. Were samples received in appropriate containers?	<del></del>	8	$+ \times$						
25. Were VOA samples received without headspace (< 1/4" bubble)?	8	<del>  X  </del>	X						
	8	$+ \times$	X	listed on COC not listed on COC					
26. Were trip blanks submitted?	U		U	listed on COC [] not listed on COC []					
27. Comments:									
				Leastifu that I have on	mpleted sections 16-27 (dated initials).	FM 7/17/20			
This section only applies to samples where pH can be				i certify that I have col					
checked at Sample Receipt.	Yes	No	N/A	Details	Comments				
28. Have containers needing chemical preservation been checked? *	Q	<u>Q</u>	0						
29. Containers meet preservation guidelines?	Q	LQ.	0						
30. Was pH adjusted at Sample Receipt?		$\bot O$	<u> </u>						
* Note: Certain analyses require chemical preservation but must be checked in the lab	oratory a	and not up	oon Sam		mpleted sections 28-30 (dated initials).	FM 7/17/20			

Checklist 6.9.17 Rev 2

Locked

Client: United Consulting Group Inc.

ANALYTICAL QC SUMMARY REPORT

Date:

30-Jul-20

**Project Name:** Atlanta Beltline **Workorder:** 2007Q43

BatchID: 300502

Sample ID: MB-300502 SampleType: MBLK	Client ID: TestCode:	POLYAROMATIC HYD	ROCARBONS	SW8270D	Un: Bat	its: <b>ug/Kg</b> cchID: <b>300502</b>		rep Date: nalysis Date:	07/27/2020 07/28/2020	Run No: <b>431170</b> Seq No: <b>9780888</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit			•
Benzo(a)pyrene	BRL	330								
Surr: 2-Fluorobiphenyl	1452	0	1667		87.1	54.4	120			
Surr: 4-Terphenyl-d14	1530	0	1667		91.8	60.4	120			
Surr: Nitrobenzene-d5	1439	0	1667		86.3	51	120			
Sample ID: LCS-300502	Client ID:				Un	its: ug/Kg	Pı	rep Date:	07/27/2020	Run No: <b>431170</b>
SampleType: LCS		POLYAROMATIC HYD	ROCARBONS	SW8270D		chID: 300502		nalysis Date:		Seq No: <b>9780889</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	t RPD Re	f Val %RPD	RPD Limit Qual
Benzo(a)pyrene	1666	330	1667		100.0	70.6	120			
Surr: 2-Fluorobiphenyl	1428	0	1667		85.7	54.4	120			
Surr: 4-Terphenyl-d14	1535	0	1667		92.1	60.4	120			
Surr: Nitrobenzene-d5	1394	0	1667		83.6	51	120			
Sample ID: 2007P75-002CMS SampleType: MS	Client ID: TestCode:	POLYAROMATIC HYD	ROCARBONS	SW8270D	Un: Bat	its: ug/Kg-c	•	rep Date: nalysis Date:	07/27/2020 07/28/2020	Run No: <b>431170</b> Seq No: <b>9780892</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	t RPD Re	f Val %RPD	RPD Limit Qual
Benzo(a)pyrene	1847	380	1937		95.4	56.4	120			
Surr: 2-Fluorobiphenyl	1579	0	1937		81.5	54.4	120			
Surr: 4-Terphenyl-d14	1762	0	1937		91.0	60.4	120			
Surr: Nitrobenzene-d5	1508	0	1937		77.8	51	120			
Sample ID: 2007P75-002CMSD SampleType: MSD	Client ID: TestCode:	POLYAROMATIC HYD	ROCARBONS	SW8270D	Un Bat	its: ug/Kg-c	•	rep Date: nalysis Date:	07/27/2020 07/28/2020	Run No: <b>431170</b> Seq No: <b>9780893</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	t RPD Re	f Val %RPD	RPD Limit Qual
Benzo(a)pyrene	1818	380	1937		93.9	56.4	120	1847	1.61	21
Qualifiers: > Greater than Result valu  BRL Below reporting limit  J Estimated value detecte  Rpt Lim Reporting Limit		g Limit	E Estir N Anal	than Result value nated (value above quantit yte not NELAC certified e Recovery outside limits o			B H R	•	in the associated method or preparation or analysis nits due to matrix	

**Client:** United Consulting Group Inc.

**Project Name:** Atlanta Beltline

Workorder: 2007Q43

# ANALYTICAL QC SUMMARY REPORT

Date:

30-Jul-20

BatchID: 300502

Sample ID: 2007P75-002CMSD SampleType: MSD	Client ID: TestCode: POLYAROMATIC HYDROCARBONS			SW8270D	Units: ug/Kg-dry BatchID: 300502			· F		Run No: <b>431170</b> Seq No: <b>9780893</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit	Qual
Surr: 2-Fluorobiphenyl	1604	0	1937		82.8	54.4	120	1579	0	0	
Surr: 4-Terphenyl-d14	1723	0	1937		89.0	60.4	120	1762	0	0	
Surr: Nitrobenzene-d5	1508	0	1937		77.8	51	120	1508	0	0	

Qualifiers: Greater than Result value

> BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: United Consulting Group Inc.

**Project Name:** Atlanta Beltline **Workorder:** 2007Q43

# ANALYTICAL QC SUMMARY REPORT

Date:

30-Jul-20

BatchID: 300554

Sample ID: <b>MB-300554</b>	Client ID:				Uni	ts: mg/Kg	Prej	Date:	07/29/2020	Run No:	431276
SampleType: MBLK	TestCode:	METALS, TOTAL S	W6010D		Bate	chID: 300554	Ana	llysis Date:	07/30/2020	Seq No:	9783852
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPI	) RPI	Limit Qual
Arsenic	BRL	2.50									
Sample ID: LCS-300554	Client ID:				Uni	ts: mg/Kg	Prej	Date:	07/29/2020	Run No:	431276
SampleType: LCS	TestCode:	METALS, TOTAL S	W6010D		Bate	chID: 300554	Ana	llysis Date:	07/30/2020	Seq No:	9783853
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPI	) RPI	Limit Qual
Arsenic	47.87	2.50	50.00		95.7	80	120				
Sample ID: <b>2007Q43-006AMS</b>		EB-39-SW2 (0-2)			Uni	ts: mg/Kg-	dry Prej	Date:	07/29/2020	Run No:	431276
SampleType: MS	TestCode:	METALS, TOTAL S	W6010D		Bate	chID: 300554	Ana	llysis Date:	07/30/2020	Seq No:	9783855
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPI	) RPI	Limit Qual
Arsenic	35.82	2.05	41.03		87.3	75	125				
Sample ID: <b>2007Q43-006AMSD</b>	Client ID:	EB-39-SW2 (0-2)			Uni	ts: mg/Kg-	dry Pre	Date:	07/29/2020	Run No:	431276
SampleType: MSD	TestCode:	METALS, TOTAL S	W6010D		Bate	chID: 300554	Ana	llysis Date:	07/30/2020	Seq No:	9783858
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPI	) RPI	Limit Qual
Arsenic	34.49	2.05	41.05		84.0	75	125	35.82	2 3.78		20

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

End of Report

# ANALYTICAL ENVIRONMENTAL SERVICES, INC.



August 05, 2020

Spencer Cox United Consulting Group Inc.

625 Holcomb Bridge Rd

Norcross

GA

30071

RE: Atlanta Beltline

Dear Spencer Cox: Order No: 2007S42

Analytical Environmental Services, Inc. received for the analyses presented in following report.

3 samples on

7/29/2020 12:00:00 AM

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/20-06/30/21.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

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,

Ioana Pacurar

Project Manager

IDana) Pacurar

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Parkway, Atlanta GA 30340-3704

CHAIN OF CUSTODY

Date: 7 21 20 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188 COMPANY: ANALYSIS REQUESTED 625 HOLCOMB BRIDGE ROAD UNITED DISSOUTED Visit our website NORCROSS, GEORGIA 30071 CONSULTING www.aesatlanta.com to 770-209-0029 FAX: 770-582-2900 check on the status of your results, place bottle orders, PHONE: FAX: 70-582-2900 Benzo(a)Pyrene Metals 770-842-8956 etc. Apsenic SIGNATURE RCRA-8 N Spencer Cox Benzene SVOCs TCLP PRESERVATION (See codes) # SAMPLE ID REMARKS EB-34-NI (0-2) 7/20/20 11:15 HOLD EB-34-N2 (0.2) 11:25 l 11:35 EB- 34-BEI (0.2) ŧ HOLD 11:41 EB-34-SER (0-2) 11:45 EB-34-5W1 (0.2) ł HOLO 12:00 EB- 34- 5WZ (0.2) 1 EB-34A (2-8) 12:01 MRANGER EB-34-DUP30 12:05 ١ ER-35A (2-3) 12:10 ١ 12:15 EB - 33-NI (0-2) X KOLD 12:20 11 EB-33-N2 (0-2) ţ EB-33-5E1 (0.2) 13:20 12 KIND EB-33-5EZ (1.2) 13:30 13 L 13:55 EB. 33 - 5W1 (0-2) HOLD ١ 50 14:01 15 EB-33-5W2 (0.2) 14:03 16 B R5-3 .7 18 19 20 22 23 24 25 26 27 28 29 30 31 32 33 34 35 RECEIPT DATE/TIME PROJECT INFORMATION DATE HALL RECEIVED BY LELINQUISIXED BY PROJECT NAME: Total # of Containers ILE Atlanta Beltline 20-GA-01192-11, -12, -13 Turnaround Time Request PROJECT #: 7/21/20 12:06 Standard 5 Business Days SITE ADDRESS: Atlanta 0 2 Business Day Rush Ō Spencer Cox Next Business Day Rush SEND REPORT TO: 0 Same Day Rush (auth req.) SPECIAL INSTRUCTIONS COMMENTS: SHIPMENT METHOD INVOICE TO (IF DIFFERENT FROM ABOVE) Other\_ \_\_\_ 4 Day Turn VIA: OUT STATE PROGRAM (if any): VIA: DEGMENT 2 Fax? Y/N E-mail? Y/N; FedEx UPS MAIL COURIER (LIEN) ४ ३५० DATA PACKAGE: I II III IV PO#

Client: United Consulting Group Inc.

Project: Atlanta Beltline Case Narrative

Date:

5-Aug-20

**Lab ID:** 2007S42

#### Additional Testing:

At the request of Spencer Cox with United Consulting via e-mail on 7/29/20 samples listed below were analyzed for Total Arsenic from AES work order 2007K66 as a 5 day TAT:

2007K66-002A - EB-34-N2(0-2)

2007K66-006A - EB-34-SW2(0-2)

2007K66-011A - EB-33-N2(0-2)

Client: United Consulting Group Inc. Client Sample ID: EB-34-N2(0-2)

Project Name: Atlanta Beltline Collection Date: 7/20/2020 11:25:00 AM

**Lab ID:** 2007S42-001 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	8050B)			
Arsenic	46.4	2.31		mg/Kg-dry	300644	1	08/03/2020 17:44	KB
PERCENT MOISTURE D2216								
Percent Moisture	25.8	0		wt%	R431238	1	07/30/2020 00:00	JW

Date:

5-Aug-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

**Client:** United Consulting Group Inc. **Client Sample ID:** EB-34-SW2(0-2) Project Name: Atlanta Beltline **Collection Date:** 

7/20/2020 12:00:00 PM Lab ID: 2007S42-002

Matrix: Soil

Date:

5-Aug-20

Analyses	Result	Reporting Limit	Qual	Units 1	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	050B)			
Arsenic	200	2.53		mg/Kg-dry	300644	1	08/03/2020 17:47	KB
PERCENT MOISTURE D2216								
Percent Moisture	13.0	0		wt%	R431238	1	07/30/2020 00:00	JW

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

Client: United Consulting Group Inc. Client Sample ID: EB-33-N2(0-2)

Project Name: Atlanta Beltline Collection Date: 7/20/2020 12:20:00 PM

**Lab ID:** 2007S42-003 **Matrix:** Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D				(SW3	6050B)			
Arsenic	22.6	2.66		mg/Kg-dry	300644	1	08/03/2020 17:49	KB
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R431238	3 1	07/30/2020 00:00	JW

Date:

5-Aug-20

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value



#### SAMPLE/COOLER RECEIPT CHECKLIST

4	7789
AES Work Order Number:	2007K66-2004842

1. Client Name: United Consulting Group Inc.					AES Work Order Number: 2007K66 2004 S42				
2. Carrier: FedEx UPS USPS Client Courier Other									
	Yes	No	N/A	D	etails	Comments			
3. Shipping container/cooler received in good condition?	0	0		damaged leaking	other				
4. Custody seals present on shipping container?	Ŏ	0	Ö						
5. Custody seals intact on shipping container?	O	0	O						
6. Temperature blanks present?	0	n	Ŏ						
Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	0	O	O	Cooling initiated for recent	tly collected samples / ice		,		
8. Chain of Custody (COC) present?	0	0	0			44 to 14 to	***		
9. Chain of Custody signed, dated, and timed when relinquished and received?	6	8	7						
10. Sampler name and/or signature on COC?	6	8	18						
11. Were all samples received within holding time?	0	K	18						
12. TAT marked on the COC?	6	K	$\vdash \bowtie$	If no TAT indicated, procee	eded with standard TAT ne	Terms & Conditions			
	(9)			In no 141 maicatea, proces	caea with standard 1A1 per	Terms & conditions.			
13. Cooler 1 Temperature 1.4 °C Cooler 2 Temperature			°C	Cooler 3 Temperature	°C Cc	oler 4 Temperature°C			
14. Cooler 5 Temperature °C Cooler 6 Temperature		1	°С	Cooler 7 Temperature	°C Co	oler 8 TemperatureoC			
<del></del>									
15. Comments:									
					I certify that I have	completed sections 1-15 (dated initials).	DY 7/22/2020		
	Voc	No	N/A	n.	etails				
16. Were sample containers intact upon receipt?	Yes	NO	I	<u> </u>	etans	Comments			
17. Custody seals present on sample containers?	8	18	X						
18. Custody seals intact on sample containers?	X	10	10						
18. Custody seals intact on sample containers?	O	0	0						
19. Do sample container labels match the COC?	0	0	O		egible 🔲 ther 🔲				
20. Are analyses requested indicated on the COC?	0	O	O		homed .				
21. Were all of the samples listed on the COC received?	0	0	0	samples received but not l	isted on COC				
21. Were all of the samples listed on the COC received?	U	0		samples listed on COC not	received				
22. Was the sample collection date/time noted?	0	0	0		- in				
23. Did we receive sufficient sample volume for indicated analyses?	0	0	0						
24. Were samples received in appropriate containers?	0	0	0						
25. Were VOA samples received without headspace (< 1/4" bubble)?	Ŏ	O	0						
26. Were trip blanks submitted?	Ō	O	0	listed on COC not	listed on COC				
27. Comments:									
This section only applies to samples where pH can be					I certify that I have	completed sections 16-27 (dated initials).	DY 7/22/2020		
checked at Sample Receipt.	Yes	No	N/A	De	etails	Comments			
28. Have containers needing chemical preservation been checked? *	0	0	0						
29. Containers meet preservation guidelines?	Ŏ	ñ	0						
30. Was pH adjusted at Sample Receipt?	ゟ	ゟ	0						
* Note: Certain analyses require chemical preservation but must be checked in the lab	oratorus	nd not		nla Passint such as California	VOCe and Oil 9 Crease (TDL)	1			
Hote. Contain analyses require chemical preservation but must be checked in the lab	oratory a	na noi u	Joil Odli	pie neceipi aucii da coilloiilis,		completed sections 28-30 (dated initials).	DY 7/22/2020		

Checklist 6.9.17 Rev 2

Locked

United Consulting Group Inc. **Client:** 

Atlanta Beltline **Project Name:** 2007S42

Workorder:

# ANALYTICAL QC SUMMARY REPORT

Date:

5-Aug-20

BatchID: 300644

Sample ID: MB-300644	Client ID:			Unit	s: mg/Kg	Pre	Date: 08/03	3/2020	Run No: 431482
SampleType: MBLK	TestCode:	METALS, TOTAL SW6010D		Batc	hID: <b>300644</b>	Ana	lysis Date: 08/03	3/2020	Seq No: <b>9789866</b>
Analyte	Result	RPT Limit SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	BRL	2.50							
Sample ID: LCS-300644	Client ID:			Unit	s: mg/Kg	Pre	Date: 08/03	3/2020	Run No: 431482
SampleType: LCS	TestCode:	METALS, TOTAL SW6010D		Batc	hID: <b>300644</b>	Ana	lysis Date: 08/03	3/2020	Seq No: <b>9789867</b>
Analyte	Result	RPT Limit SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	47.17	2.50 50.00		94.3	80	120			
Sample ID: 2007911-014AMS	Client ID:			Unit	s: mg/Kg-	dry Pre	Date: 08/03	3/2020	Run No: 431482
SampleType: MS	TestCode:	METALS, TOTAL SW6010D		Batc	hID: <b>300644</b>	Ana	alysis Date: 08/03	3/2020	Seq No: 9789871
Analyte	Result	RPT Limit SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	35.76	2.00 40.03		89.3	75	125			
Sample ID: 2007911-014AMSD	Client ID:			Unit	s: mg/Kg-	dry Pre	Date: 08/03	3/2020	Run No: 431482
SampleType: MSD	TestCode:	METALS, TOTAL SW6010D		Batc	hID: 300644	Ana	alysis Date: 08/03	3/2020	Seq No: 9789872
Analyte	Result	RPT Limit SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	35.64	2.00 40.05		89.0	75	125	35.76	0.347	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix



# ANALYTICAL ENVIRONMENTAL SERVICES, INC.



October 21, 2020

Spencer Cox

United Consulting Group Inc.

625 Holcomb Bridge Rd

Norcross

GA 30071

RE: ABI Segment 2 (Atlanta Beltline)

Dear Spencer Cox: Order No: 2010H99

Analytical Environmental Services, Inc. received for the analyses presented in following report.

samples on 10/15/2020 12:52:00 PM

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/20-06/30/21.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/21 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

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,

Ioana Pacurar

Project Manager

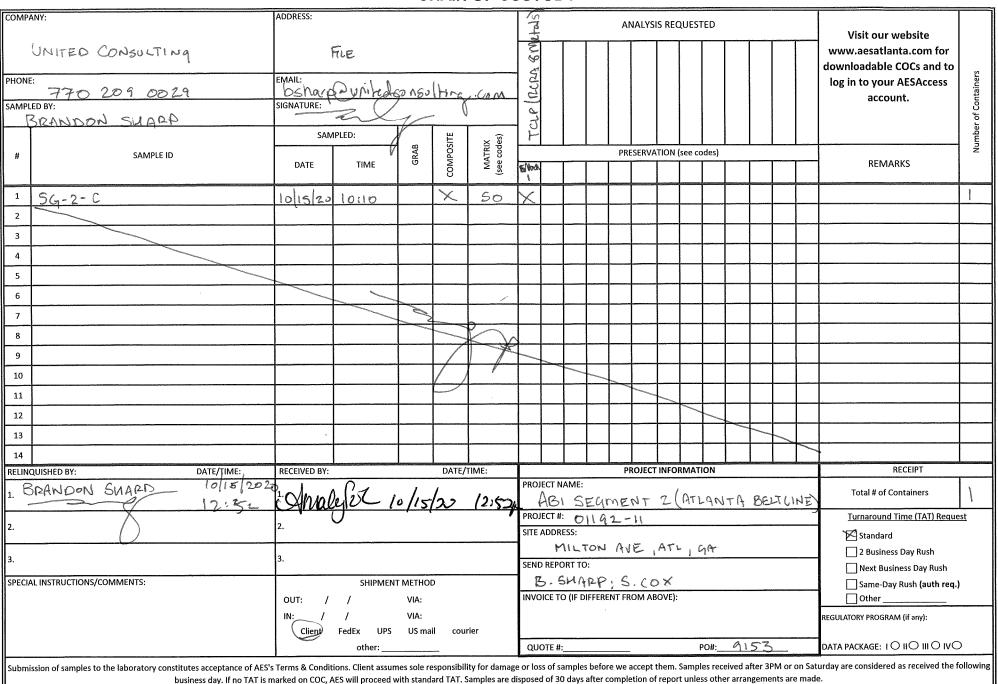
Ivana Pacurar



3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

# **CHAIN OF CUSTODY**





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 O = Other (specify) NA = None

4.30.20 COC

United Consulting Group Inc.

**Client: Client Sample ID:** SG-2-C

10/15/2020 10:10:00 AM **Project Name:** ABI Segment 2 (Atlanta Beltline) **Collection Date:** 

Date:

21-Oct-20

2010H99-001 Lab ID: Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst			
MERCURY, TCLP SW1311/7470A				(SW	77470A)						
Mercury	BRL	0.00400		mg/L	304583	1	10/20/2020 17:24	SK			
ICP METALS, TCLP SW1311/6010D	(SW3010A)										
Arsenic	BRL	0.250		mg/L	304590	1	10/21/2020 12:06	KB			
Barium	BRL	0.500		mg/L	304590	1	10/21/2020 12:06	KB			
Cadmium	BRL	0.0250		mg/L	304590	1	10/21/2020 12:06	KB			
Chromium	BRL	0.0500		mg/L	304590	1	10/21/2020 12:06	KB			
Lead	BRL	0.0500		mg/L	304590	1	10/21/2020 12:06	KB			
Selenium	BRL	0.100		mg/L	304590	1	10/21/2020 12:06	KB			
Silver	BRL	0.0250		mg/L	304590	1	10/21/2020 12:06	KB			

Qualifiers:

Value exceeds maximum contaminant level

BRL Below reporting limit

Н Holding times for preparation or analysis exceeded

Analyte not NELAC certified

Analyte detected in the associated method blank

Greater than Result value

E Estimated (value above quantitation range)

Spike Recovery outside limits due to matrix

Narr See case narrative

Analyzed in the lab which is a deviation from the method

Less than Result value

### SUMMARY OF ANALYTES DETECTED

Analyses		Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: Collection Date:	SG-2-C 10/15/2020 10:10:00 AM				Lab ID: Matrix:	2010H99-001 Soil		

MERCURY, TCLP SW1311/7470A (SW7470A)

# No reportable hits were detected

ICP METALS, TCLP SW1311/6010D

(SW3010A)

Date:

21-Oct-20

# No reportable hits were detected

Qualifiers:

\* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value



#### SAMPLE/COOLER RECEIPT CHECKLIST

Clear	Save	as
-------	------	----

MJ 10/15/20

I certify that I have completed sections 28-30 (dated initials).

1. Client Name: United Consulting Group Inc.				AES Work Order Number: 2010H99						
2. Carrier: FedEx UPS USPS Client Courier Other					_					
	Yes	No	N/A	Details	Comments					
3. Shipping container/cooler received in good condition?		$\overline{IO}$	О	damaged leaking other						
4. Custody seals present on shipping container?		Ō	Ō							
5. Custody seals intact on shipping container?	O		0							
6. Temperature blanks present?	10	ΙŎ	Ŏ							
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	0	0	0	Cooling initiated for recently collected samples / ice present						
8. Chain of Custody (COC) present?	0	0	0							
9. Chain of Custody signed, dated, and timed when relinquished and received?		M	Ŏ							
0. Sampler name and/or signature on COC?	10	18	M							
Were all samples received within holding time?	10	18	A							
.2. TAT marked on the COC?	Ŏ	Ŏ	Ø	If no TAT indicated, proceeded with standard TAT per	Terms & Conditions.					
.3. Cooler 1 Temperature 0.1 °C Cooler 2 Temperature			°C	Cooler 3 Temperature °C Coo	ler 4 Temperature°C					
4. Cooler 5 Temperature °C Cooler 6 Temperature			C		ler 8 Temperature °C					
4. cooler's reinperature			·	cooler / Temperature c	ier o remperatur <u>e</u>					
5. Comments:										
				Lead to the Linear	and the description of AF (date districts)	ARS 10/15/20				
				i certify that I have o	completed sections 1-15 (dated initials).					
	Yes	No	N/A	Details	Comments					
6. Were sample containers intact upon receipt?										
7. Custody seals present on sample containers?		0	0							
8. Custody seals intact on sample containers?	0	0	0							
.9. Do sample container labels match the COC?	0	0	0	incomplete info illegible no label other						
0. Are analyses requested indicated on the COC?	0	$\overline{O}$	$\circ$							
1. Were all of the samples listed on the COC received?	0	0	0	samples received but not listed on COC samples listed on COC not received						
2. Was the sample collection date/time noted?	0	$\Box$		Sumples listed on ege not received						
Did we receive sufficient sample volume for indicated analyses?	18	18	$\mid \mathcal{H} \mid$							
Were samples received in appropriate containers?	18	lδ	1 X							
Were VOA samples received without headspace (< 1/4" bubble)?	18	$+ \times$	<u>ŏ</u>							
6. Were trip blanks submitted?	$+ \times$	$+ \times$	8	listed on COC not listed on COC						
0. Were trip blanks submitted:				listed on COC						
7. Comments:										
This section only applies to samples where pH can be				I certify that I have o	completed sections 16-27 (dated initials).	MJ 10/15/20				
checked at Sample Receipt.	Yes	No	N/A	Details	Comments					
8. Have containers needing chemical preservation been checked? *		$\Box$	0							
9. Containers meet preservation guidelines?	ΙŎ	Ŏ	Ŏ							
0. Was pH adjusted at Sample Receipt?	<del>                                     </del>	$\vdash \nearrow$								

Checklist 7.9.20 Rev 3 Page 5 of 9

This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

Client: United Consulting Group Inc.

**Project Name:** ABI Segment 2 (Atlanta Beltline)

Workorder: 2010H99

# ANALYTICAL QC SUMMARY REPORT

Date:

21-Oct-20

BatchID: 304583

Sample ID: MB-304583	Client ID:				Uni	ts: mg/L	Pre	Date: 10/20	)/2020	Run No: 4	137549
SampleType: MBLK	TestCode:	MERCURY, TCLP SW1	311/7470A		Bate	chID: <b>304583</b>	Ana	alysis Date: 10/20	)/2020	Seq No: 9	950931
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Mercury	BRL	0.00400									
Sample ID: LCS-304583	Client ID:				Uni	ts: mg/L	Pre	Date: 10/20	)/2020	Run No: 4	137549
SampleType: LCS	TestCode:	MERCURY, TCLP SW1	311/7470A		Bate	chID: 304583	Ana	alysis Date: 10/20	)/2020	Seq No:	9950932
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Mercury	0.03793	0.00400	0.0400		94.8	80	120				
Sample ID: <b>2010F13-001BMS</b>	Client ID:				Uni	ts: mg/L	Pre	Date: 10/20	)/2020	Run No: 4	137549
SampleType: MS	TestCode:	MERCURY, TCLP SW1	311/7470A		Bate	chID: <b>304583</b>	Ana	alysis Date: 10/20	0/2020	Seq No:	9950934
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Mercury	0.03392	0.00400	0.0400		84.8	80	120				
Sample ID: <b>2010F13-001BMSD</b>	Client ID:				Uni	ts: mg/L	Pre	Date: 10/20	)/2020	Run No: 4	137549
SampleType: MSD	TestCode:	MERCURY, TCLP SW1	311/7470A		Bate	chID: 304583	Ana	alysis Date: 10/20	)/2020	Seq No:	9950935
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Mercury	0.03663	0.00400	0.0400		91.6	80	120	0.03392	7.68	20	)

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

Less than Result value

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Date: 21-Oct-20

United Consulting Group Inc. Client: **Project Name:** ABI Segment 2 (Atlanta Beltline) ANALYTICAL QC SUMMARY REPORT

Workorder: 2010H99 BatchID: 304590

Sample ID: MB-304590	Client ID:				Uni			ep Date:	10/20/2		un No: <b>437600</b>	
SampleType: MBLK	TestCode:	ICP METALS, TCLP	SW1311/6010D		Bat	chID: 304590	A	nalysis Date:	10/21/2	020 S	eq No: 995259	13
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.250										
Barium	BRL	0.500										
Cadmium	BRL	0.0250										
Chromium	BRL	0.0500										
Lead	BRL	0.0500										
Selenium	BRL	0.100										
Silver	BRL	0.0250										
Sample ID: LCS-304590 SampleType: LCS	Client ID: TestCode:	ICP METALS, TCLP	SW1311/6010D		Uni Bat	its: mg/L cchID: 304590		rep Date: nalysis Date:	10/20/2 10/21/2		un No: <b>437600</b> eq No: <b>995259</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val	%RPD	RPD Limit	Qual
Arsenic	5.362	0.250	5.000		107	80	120					
Barium	5.391	0.500	5.000		108	80	120					
Cadmium	5.373	0.0250	5.000		107	80	120					
Chromium	5.380	0.0500	5.000		108	80	120					
Lead	5.402	0.0500	5.000		108	80	120					
Selenium	5.227	0.100	5.000		105	80	120					
Silver	0.5113	0.0250	0.5000		102	80	120					
Sample ID: <b>2010I14-007AMS</b>	Client ID:				Uni	_	Pr	ep Date:	10/20/2	<b>020</b> R	un No: <b>437600</b>	,
SampleType: MS	TestCode:	ICP METALS, TCLP	SW1311/6010D		Bat	chID: 304590	A	nalysis Date:	10/21/2	020 S	eq No: 995259	8
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val	%RPD	RPD Limit	Qual
Arsenic	5.338	0.250	5.000		107	50	150					
Barium	5.402	0.500	5.000	0.03690	107	50	150					
Cadmium	5.360	0.0250	5.000		107	50	150					
Chromium	5.373	0.0500	5.000		107	50	150					
Qualifiers: > Greater than Result	value		< Less	than Result value			В	Analyte detected	in the associa	ated method bla	nk	
BRL Below reporting lim	it		E Estim	nated (value above quantita	ation range)		Н	Holding times fo	or preparation	or analysis exce	eeded	

**Client:** United Consulting Group Inc. **Project Name:** 

ABI Segment 2 (Atlanta Beltline)

Workorder: 2010H99

# ANALYTICAL QC SUMMARY REPORT

Date:

21-Oct-20

BatchID: 304590

Sample ID: 2010I14-007AMS SampleType: MS	Client ID: TestCode:	ICP METALS, TCLP	SW1311/6010D		Uni Bat	its: mg/L chID: 304590		p Date: 10/2 alysis Date: 10/2	0/2020 1/2020	Run No: <b>437600</b> Seq No: <b>9952598</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC		High Limit	RPD Ref Val	%RPD	•
Lead	5.355	0.0500	5.000		107	50	150			
Selenium	5.258	0.100	5.000		105	50	150			
Silver	0.5104	0.0250	0.5000		102	50	150			
Sample ID: 2010I14-007AMSD SampleType: MSD	Client ID: TestCode:	ICP METALS, TCLP	SW1311/6010D		Uni Bat	its: mg/L chID: 304590		p Date: 10/2 alysis Date: 10/2	0/2020 1/2020	Run No: <b>437600</b> Seq No: <b>9952599</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Arsenic	5.348	0.250	5.000		107	50	150	5.338	0.191	30
Barium	5.380	0.500	5.000	0.03690	107	50	150	5.402	0.406	30
Cadmium	5.347	0.0250	5.000		107	50	150	5.360	0.241	30
Chromium	5.345	0.0500	5.000		107	50	150	5.373	0.518	30
Lead	5.353	0.0500	5.000		107	50	150	5.355	0.040	30
Selenium	5.241	0.100	5.000		105	50	150	5.258	0.318	30
Silver	0.5100	0.0250	0.5000		102	50	150	0.5104	0.059	30

Qualifiers: Greater than Result value

> BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

End of Report