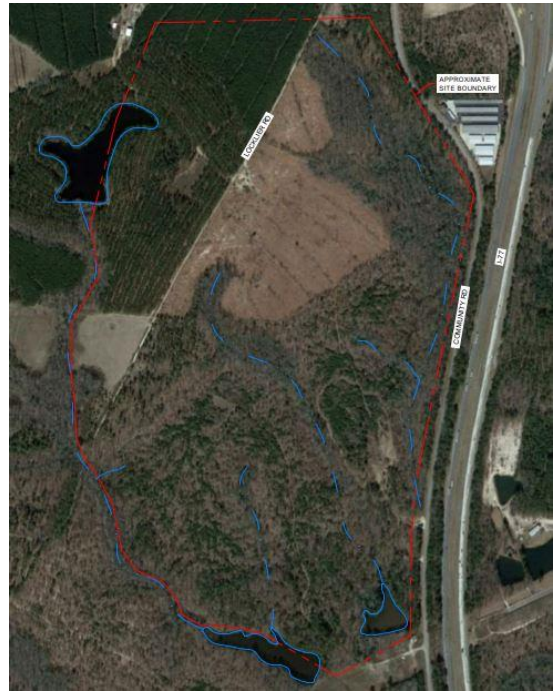


Limited Site Investigation

BLYTHEWOOD INDUSTRIAL
COMMUNITY ROAD
BLYTHEWOOD, RICHLAND COUNTY, SOUTH CAROLINA

February 25, 2022
Terracon Project No. 73227051



Prepared for:
Thomas & Hutton
Columbia, South Carolina

Prepared by:
Terracon Consultants, Inc.
Columbia, South Carolina

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

February 25, 2022



Thomas & Hutton
1501 Main Street, Suite 760
Columbia, South Carolina 29201

Attn: Mr. Ross Oakley
P: (803) 422-6030
E: oakley.r@tandh.com

Re: Limited Site Investigation
Blythewood Industrial
Blythewood, South Carolina
Terracon Project No. 73227051

Dear Mr. Oakley:

Terracon Consultants, Inc. (Terracon) is pleased to submit our report of Limited Site Investigation (LSI) activities completed at the Blythewood Industrial site. The report presents data from field activities that included the collection of soil, groundwater and surface water samples for chemical analysis. This Assessment was performed in accordance with Terracon Proposal No. P73227051 dated February 7, 2022.

Terracon appreciates the opportunity to provide professional environmental services for Thomas & Hutton. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

Kennedy Krieg
Field Engineer

Christopher Bartley
Senior Scientist

Terracon Consultants Inc. 521 Clemson Road Columbia, SC 29229

P 803-741-9000 F 803-741-9900 terracon.com



Environmental

Facilities

Geotechnical

Materials

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**LSI Assessment Report
Blythewood Industrial
Blythewood, Blythewood County, South Carolina
Terracon Project No. 73227051**

1.0 INTRODUCTION

The Blythewood Industrial site is located along Community Road in Blythewood, Richland County, South Carolina. The site is an approximately 250-acre tract of land comprised of several Richland County Parcels. The site is largely undeveloped wooded land with cleared areas and surface water streams throughout.

This Limited Site Investigation (LSI) was initiated to establish baseline conditions prior to development as an industrial complex. This initial assessment was performed based on a client-regulated analytical suite at locations requested by the client.

1.1 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These assessment services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-11.

1.2 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this assessment. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.3 Reliance

This report has been prepared for the exclusive use of Thomas & Hutton and their subsidiaries, affiliates, successors and assigns and, any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Thomas & Hutton and Terracon. Any unauthorized distribution or reuse is at Thomas & Hutton’s sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report, and Terracon’s Agreement for Services. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon’s liability to Thomas & Hutton and all relying parties unless otherwise agreed in writing.

2.0 CONCEPTUAL SITE MODEL

A Conceptual Site Model (CSM) is a description of the site and site features pertinent to identifying possible site contaminants, determining how those contaminants may behave relative to site conditions, and understanding potential receptor pathways. The findings of this assessment may alter the CSM; any updates to the CSM are described in Section 4.5.

2.1 Site Physical Description

The site is currently undeveloped mostly forested land. The site currently has no on-site operations. Site location maps are included as Exhibits 1 and 2, in Appendix A.

Table 1: Physical Setting

Physical Setting Information		Source
Topography (Refer to Appendix A for an excerpt of the Topographic Map)		
Site Elevation	Approximately 450 – 520 feet above sea level	Richland County GIS
Surface Runoff/ Topographic Gradient	Sloping generally towards the south-southeast	
Closest Surface Water	On-site meandering streams	
Soil Characteristics		
Soil Type	Blanton Sand Troup Sand Herndon Silt	Richland County SC USDA-NRCS Web Soil Survey accessed February 23, 2022
Description	The Blanton series consists of very deep, somewhat excessively drained to moderately well drained, moderately to slowly permeable soils on uplands and stream terraces in the Coastal Plain.	

Limited Site Investigation Report

Blythewood Industrial ■ Blythewood, SC
February 25, 2022 ■ Terracon Project No. 73227051



Physical Setting Information		Source
	They formed in sandy and loamy marine or eolian deposits. The Troup series consists of very deep, somewhat excessively drained soils that formed in unconsolidated sandy and loamy marine sediments. Troup soils are on ridges and hillslopes. The Herndon series consists of very deep, well drained, moderately permeable soils that formed in material mostly weathered from fine-grained metavolcanic rock of the Carolina Slate Belt.	
Geology/Hydrogeology		
Formation	Recent to Cretaceous-age sediments	Geology of the Carolinas, Carolina Geological Society, 1991
Description	Coastal Plain physiographic province - a seaward thickening wedge of unconsolidated sands, silts, and clays deposited over a rock basement.	
Estimated Depth to First Occurrence of Groundwater	Approximately 15-20 feet bgs	Terracon's Investigation
Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the south-southeast).	

2.2 Surrounding Properties Development

The site is bound to the north by Blythewood Road, Sandy Level Baptist Church, and Palmetto Citizens Federal Credit Union; to the east by the Blythewood Doko Rodeo, Public Storage, and Interstate I-77; to the south by undeveloped forested land; and to the west by mostly undeveloped forested land and Fairfield Electric Cooperative Inc.

2.3 Areas of Concern / Potential Sources

No current or former areas of concern / potential sources have been identified for the site.

2.4 Potential Pathways Evaluation

Potential Pathways for Contaminant Transport

Contaminant transport is likely limited to transport vertically through on-site soils and horizontally through surface water flow.

Potential Exposure Pathways

Limited Site Investigation Report

Blythewood Industrial ■ Blythewood, SC
February 25, 2022 ■ Terracon Project No. 73227051



Surface Soils – Currently, the site is not used for any known purpose that would create a soil exposure scenario; however, soil exposure potential may be increased by significant site development activities. The soil pathway evaluation is presented in Sections 4.2 with respect to the proposed site use.

Ground Water – The ground water quality was as discussed in Section 4.3.

Surface Water – The surface water pathway was evaluated as discussed in Sections 4.4 and 4.6.

3.0 SAMPLE COLLECTION

The sample collection approach outlined below was described in the Proposal for Limited Site Investigation dated February 7, 2022. The assessment activities described herein were conducted in general accordance with Terracon Standard Operating Procedures (TSOP) and US EPA Region IV Field Branches Quality System and Technical Procedures. Samples were collected on February 11-12, 2022.

3.1 Soil

Shallow soil borings were located across the site as shown on the attached Figure 2. The soil borings were advanced utilizing direct-push sampling technology (Geoprobe®) to a depth of 2 feet below ground surface (bgs). The borings were characterized for lithologic description and were reserved for laboratory analysis. Soil samples were submitted for laboratory analyses as specified in Section 2.2.4 of the Proposal dated February 7, 2022.

Sample containers were supplied by the contract analytical laboratory, Access Analytical, Inc. The samples were pre-preserved by the laboratory in accordance with the analytical method to be performed. Samples were placed in a cooler, on ice, and delivered to the laboratory along with chain-of-custody documentation.

Non-disposable equipment used repeatedly between samples (i.e. stainless-steel spoons, spatulas, etc.) was field decontaminated before mobilization to the site, and subsequent to each use. Field decontamination was accomplished using an Alconox®/tap water solution, followed by a distilled, deionized water rinse, and finally a 70% isopropyl alcohol rinse. Sampling equipment was wrapped in plastic or aluminum foil during transport to prevent contamination.

3.2 Ground Water

Terracon assessed ground water quality at the site through the installation and sampling of three temporary monitoring wells. Terracon encountered tooling refusal without encountering ground

Limited Site Investigation Report

Blythewood Industrial ■ Blythewood, SC
February 25, 2022 ■ Terracon Project No. 73227051



water at an additional nine of the proposed temporary groundwater locations. The temporary monitoring wells were installed by a SC-certified well driller in accordance with SCDHEC *R.61-71 South Carolina Well Standards* (April 26, 2002, revised May 2016). Please refer to Figure 2 in Appendix A for a depiction of the monitoring well locations. The soil borings were converted into the temporary monitoring wells. The wells were constructed using one-inch diameter, 0.010-inch machine slotted PVC well screen with a threaded bottom cap, and one-inch diameter, threaded, flush-joint PVC riser pipe to the ground surface. Addition of pre-sieved 20/40 grade silica sand for annular sand pack was installed around the well screen from the bottom of the boring to approximately two feet above the top of the well screen, followed by two feet of hydrated bentonite pellets above the sand pack. The temporary monitoring wells were developed by surging and removing ground water until fluids appeared relatively free of sediments. SCDHEC 1903 forms are included in Appendix C. All IDW was containerized and subsequently discharged to the land surface once data were received indicating no impact.

Ground water levels were gauged at each well with an electric water level meter capable of measuring the depth to the air/liquid interface to within +/- 0.01 foot. The water level indicator was decontaminated before and after use at each well. All ground water level and total depth measurements were made in reference to the established reference point which is the top of the well casing.

Upon completion of the purging activities, ground water samples were collected using a peristaltic pump and new dedicated tubing. Sample containers were supplied by the contract analytical laboratory, Access Analytical, Inc. The samples containers were pre-preserved by the laboratory in accordance with the analytical method to be performed. Ground water samples were submitted for analyses of pH, Fluoride, Metals, and Ammonia.

3.3 Surface Water

12 surface water samples (SW-1 through SW-12) were collected from the on-site streams and ponds as shown on Figure 3. Each surface water sample was collected with minimal sediment disturbance in order to mimic site conditions and not artificially increase turbidity. Surface water samples were collected directly into the laboratory-provided sample containers.

The surface water samples were submitted for analyses as described in Section 2.2.3 and 2.2.4 of the Proposal for Limited Site Investigation dated February 7, 2022.

3.4 Significant Deviations

As noted above, ground water could not be obtained at multiple location due to tooling refusal.

4.0 PROJECT DATA

4.1 Geology/Hydrogeology

The site is situated within the Coastal Plain physiographic province. The Coastal Plain sediments, which were deposited over a rock basement, consist of unconsolidated quartz sands, silts and clays.

On-site shallow soil lithology at the southwestern (higher elevation) portion of the site was observed as coarse-grained sands and sandy clays to approximately 5 feet bgs. Refusal was encountered at nine out of the twelve proposed boring locations. Ground water was encountered in three of the borings ranging from a depth of 16 to 18.5 feet.

4.2 Soil Data

Soil data did not indicate significant impacts (Table 2). Laboratory analytical reports are included in Appendix C. Detections were compared to USEPA Regional Screening Levels (RSLs), November 2021, for Residential Soils (i.e. unrestricted use) and Industrial Soils (restricted to commercial use).

Soil laboratory testing indicated chromium, cobalt, lead, and nickel above the method detection limits, but below both the residential and industrial RSLs in all samples. Arsenic was detected above the residential RSL but below the commercial RSL at SB-12. Other detections were not reported.

Soil laboratory testing indicated arsenic above the residential RSL of 0.68 mg/kg, but below the industrial RSL of 3.0 mg/kg in soil sample SB-12. Many elements, including arsenic, may occur naturally in South Carolina soils at concentrations in excess of the RSL. It is often necessary to compare metals data to background values. According to *Conova, J. (1999) Trace Elements in South Carolina Background Soils, South Carolina Geology, v. 41, pp. 11-45*, the background range for arsenic in state-wide soil can range from below detection limits to 45 mg/kg. When compared to these published values, the detected concentrations of arsenic can be attributed to naturally-occurring concentrations in site soils and are not likely indicative of impact.

Given the proposed use, and the spatial positioning of sample locations across the site, indications of a “hot spot” are not apparent. Since the proposed use is as an industrial facility, in Terracon’s opinion, further soil study is not warranted.

4.3 Ground Water Data

Ground water laboratory analytical reports are included in Appendix C. Ground water detections are presented in Table 1 in Appendix B. Detections were compared to the South Carolina

Limited Site Investigation Report

Blythewood Industrial ■ Blythewood, SC
February 25, 2022 ■ Terracon Project No. 73227051



Maximum Contaminant Levels (MCLs) or SCDHEC UST Program Risk-Based Screening Levels (RBSLs).

Sample FSP-3 had a detection of cobalt which exceeded tap water limit (6µg/L), an MCL has not been established for cobalt. The detection of cobalt is likely a laboratory artifact, in Terracon's opinion, the detected concentrations of cobalt are not likely indicative of impact. Other analytes were not observed above applicable action levels.

In Terracon's opinion, further ground water investigation is not warranted.

4.4 Surface Water Data

Surface water laboratory analytical reports are included in Appendix D. A summary of detections is presented in Table 3 in Appendix B. Surface water detections were compared to the Water & Organism values in Water Classifications and Standards, 6 S.C. Code Ann. Regs. 61-68 (2012, as amended).

Samples SW-1 through SW-12 did not have detections of ammonia above the CMC or CCC. COD-I and pH do not have regulatory values for comparison.

In Terracon's opinion, further surface water investigation is not warranted.

4.5 Updates to the CSM

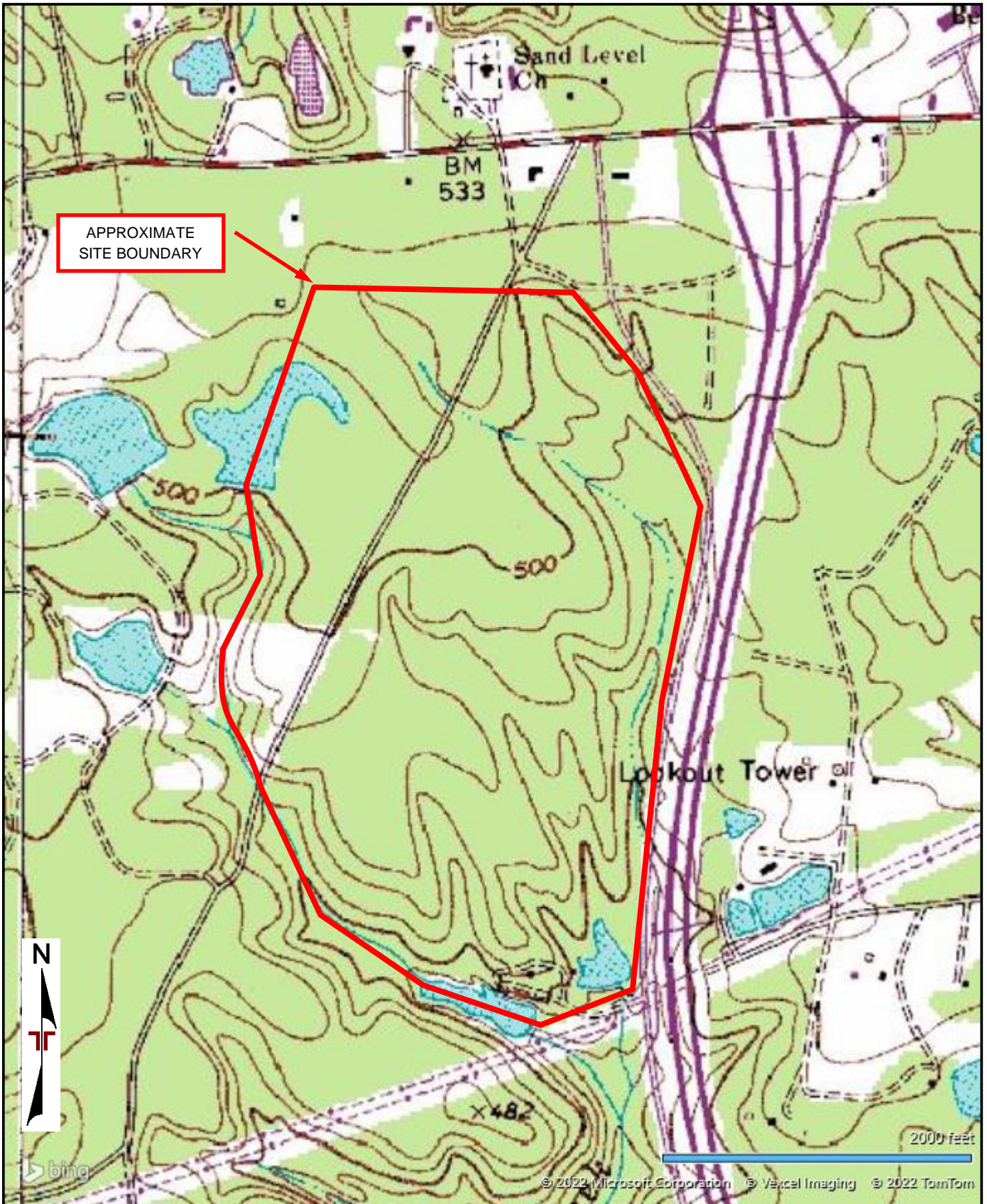
Additional CSM updates were not identified.

5.0 CONCLUSIONS

Based on the scope of services described in this report and subject to the limitations described herein, Terracon concludes the following:

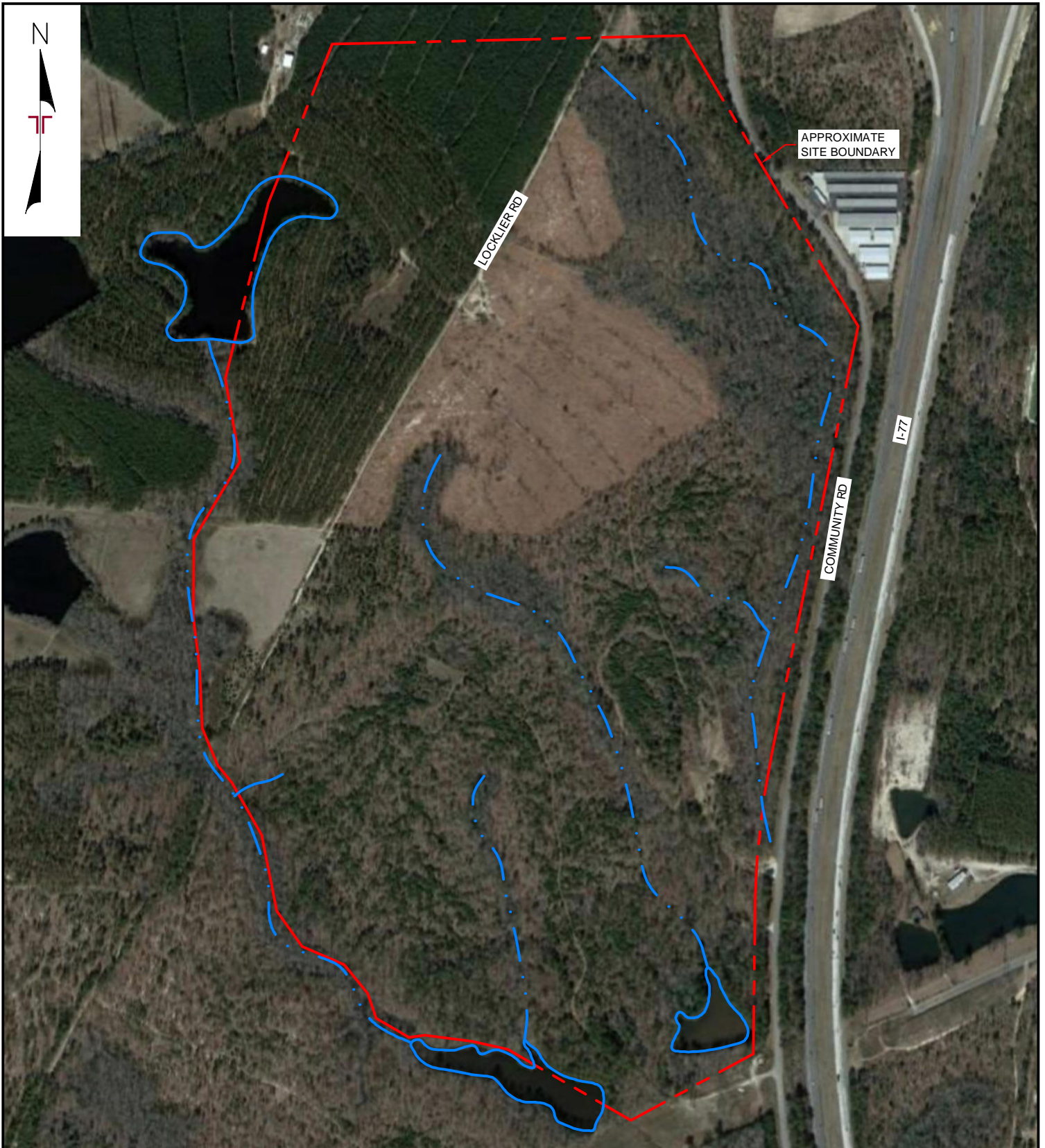
- On-site surface water did not exhibit analyte detections above their respective regulatory values.
- Ground water sample FSP-3 had a cobalt detection of 12.9 µg/L which exceeds the tap water regulatory value of 6 µg/L. This detection is likely a sampling /laboratory artifact and is not likely indicative of potential impacts.
- Arsenic was detected above the residential RSL of 0.68 mg/kg, but below the industrial RSL of 3.0 mg/kg in soil sample SB-12. The detected concentrations of arsenic can be attributed to naturally-occurring concentrations in site soils and are not likely indicative of impact. No other analytes were observed above applicable action levels in any of the other soils.

**APPENDIX A –
FIGURES**



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
 QUADRANGLES INCLUDE: IRMO NE, SC (1/1/1990) and BLYTHEWOOD, SC (1/1/1990).

Project Manager: WWH	Project No. 73227051	Terracon	TOPOGRAPHIC MAP	Exhibit
Drawn by: PTK	Scale: AS SHOWN		Blythewood Industrial Locklier Road Blythewood, SC	1
Checked by: WWH	File Name: Exh 1	521 Clemson Rd Columbia, SC 29229-4307		
Approved by: CBB	Date: Feb 2022			



APPROXIMATE
SITE BOUNDARY

LOCKLIER RD

COMMUNITY RD


I-77

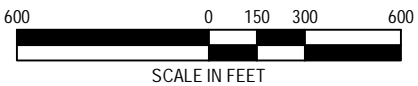
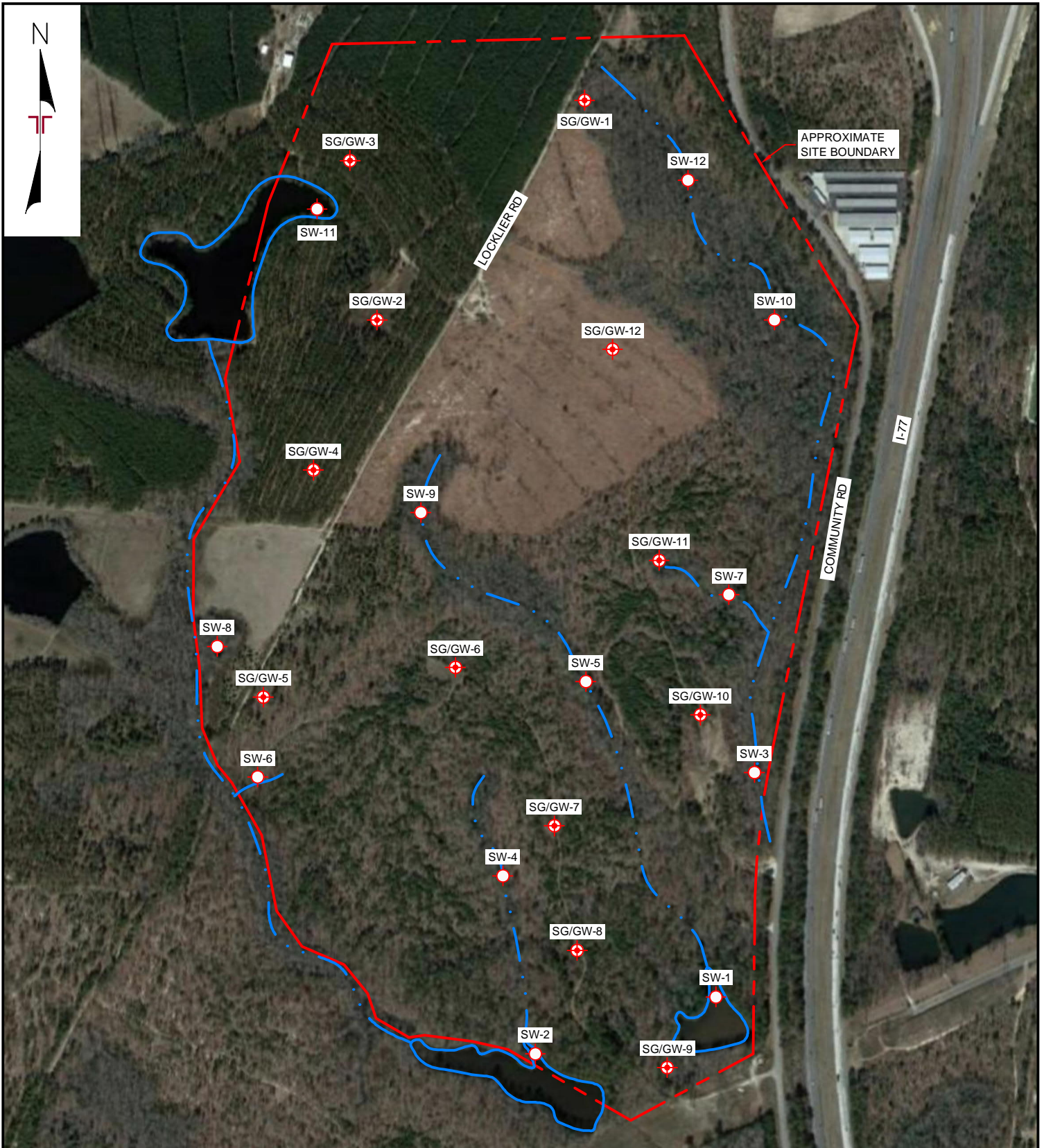


SCALE IN FEET

NOTE:
2021 AERIAL PHOTOGRAPH WAS OBTAINED FROM GOOGLE EARTH PRO.

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr: WWH	Project No. 73227051	 Terracon Consulting Engineers and Scientists 521 CLEMSON ROAD COLUMBIA, SC 29229 PH. (803) 741-9000 FAX. (803) 741-9900	SITE DIAGRAM	Exhibit
Drawn By: PTK	Scale: AS SHOWN			
Checked By: WWH	File No. 73227051			
Approved By: CBB	Date: FEBRUARY 2022			



NOTE:
2021 AERIAL PHOTOGRAPH WAS OBTAINED FROM
GOOGLE EARTH PRO.

EXPLANATION	
	SOIL/GROUNDWATER SAMPLE LOCATION
	SURFACE WATER SAMPLE LOCATION

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mng:	WWH	Project No.	73227051
Drawn By:	PTK	Scale:	AS SHOWN
Checked By:	WWH	File No.	73227051
Approved By:	CBB	Date:	FEBRUARY 2022

Terracon
Consulting Engineers and Scientists

521 CLEMSON ROAD COLUMBIA, SC 29229
PH. (803) 741-9000 FAX. (803) 741-9900

SITE DIAGRAM WITH SAMPLE LOCATIONS

BLYTHEWOOD INDUSTRIAL
LOCKLIER ROAD
BLYTHEWOOD, SOUTH CAROLINA

Exhibit

3

**APPENDIX B –
TABLES**

Table 1
 Ground Water Quality Data (Onsite)
 Blythewood Industrial LSI - Blythewood,SC
 Terracon Project No. 73227051

Analyte	Tap Water	MCL	Sample		
			FSP-1	FSP-2	FSP-3
Metals 6010	micrograms per liter (µg/L)				
Cobalt	6	<i>ne</i>	1.2 U	1.5 J	12.9 J
Fluoride	800	4000	200 U	200 U	250
Manganese	<i>ne</i>	<i>ne</i>	5.4 J	187	811
Nickel	390	<i>ne</i>	5.1 U	8.5 J	171
Nitrogen, Ammonia (As N)	<i>ne</i>	<i>ne</i>	22	578	204
pH	pH Units				
Method 9045	<i>ne</i>	<i>ne</i>	4.80	6.26	6.39

- 1) Tap Water - USEPA Regional Screening Level (RSL) for Residential Tap Water Values
- 2) MCL - Maximum Contaminant Level
- 3) *ne* - an MCL/Tap Water value has not been established for this analyte
- 4) Detections shown in bold exceed the Tap Water value, Detections underlined exceed both the MCI/Tap Water value
- 5) U - indicates an analyte was not detected above the Method Detection Limit (MDL)
- 6) J - indicates an analyte was detected above the MDL but below the Practical Quantitation Limit
- 7) Data were collected on February 11, 2022

Table 2
Soil Quality Data - Discrete Samples
Blythewood Industrial LSI - Blythewood,SC
Terracon Project No. 73227051

Analyte	Res RSL	Ind RSL	Sample											
			SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10	SB-11	SB-12
PAHs (8270)			milligrams per kilogram (mg/kg)											
Arsenic	0.68	3	0.521 U	0.634 U	0.512 U	0.522 U	0.497 U	0.464 U	0.496 U	0.497 U	0.808 U	0.473 U	0.518 U	2.81
Cadmium	7.1	100	0.0809 U	0.0985 U	0.0796 U	0.081 U	0.0772 U	0.0721 U	0.077 U	0.0772 U	0.126 U	0.0735 U	0.0806 U	0.117 U
Chromium	<i>ne</i>	<i>ne</i>	2.13	3.97	2.5	2.27	1.71	1.88	1.53 J	1.56 J	5.34	1.64	3.38	22.2
Cobalt	23	350	0.435 J	0.372 J	0.39 J	0.156 J	0.109 J	0.137 J	0.15 J	0.119 J	0.325 J	0.0886 J	0.328 J	0.391 J
Lead	400	800	1.89 J	3.31 J	2.53 J	2.79 J	1.78 J	2.18 J	1.84 J	1.84 J	5.7	1.3 J	3.52	6.12
Mercury	11	46	0.0451 U	0.0477 U	0.0459 U	0.0419 U	0.0381 U	0.0488 U	0.0395 U	0.0386 U	0.047 U	0.0377 U	0.0395 U	0.0559 J
Nickel	1500	22000	0.213 J	1.12 J	0.209 U	0.405 J	0.215 J	0.289 J	0.387 J	0.203 U	0.33 U	0.193 U	0.801 J	0.307 U
pH			pH Units											
Method 9045	<i>ne</i>	<i>ne</i>	5.59	5.11	5.18	5.07	4.88	4.89	5.00	4.99	4.65	5.04	5.04	5.04

Notes:

- 1) Res. RSL - USEPA Regional Screening Level for Residential Soils
- 2) Ind. RSL - USEPA Regional Screening Level for Industrial Soils
- 3) *ne* - an RSL has not been established for this analyte
- 4) Detections shown in bold exceed the Residential RSL; detections above Industrial RSLs are underlined
- 5) U - indicates an analyte was not detected above the Method Detection Limit (MDL)
- 6) J - indicates an analyte was detected above the MDL but below the Practical Quantitation Limit
- 7) Data were collected on Feb 11-12, 2022

Table 3

Surface Water Quality Data - Discrete Samples

Blythewood Industrial LSI - Blythewood,SC

Terracon Project No. 73227051

Analyte	Sample											
	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	SW-10	SW-11	SW-12
COD-L (HACH 8000)	miligrams per liter (mg/L)											
	36	19 J	24	17 J	31	17 J	19 J	26	19 J	33	26	19 J
pH (9045)	pH Units											
	4.44 H	5.12 H	4.38 H	3.93 H	3.98 H	4.69 H	4.01 H	4.99 H	4.26 H	4.11 H	5.36 H	3.95 H

Ammonia (4500-NH3, D-2011)			
	CMC	CCC	Result
Sample	miligrams per liter (mg/L)		
SW-1	38.933	7.073	<0.015 J
SW-2	38.683	7.085	<0.015 J
SW-3	38.942	7.087	<0.015 J
SW-4	38.979	7.087	<0.015 J
SW-5	38.977	7.082	<0.015 J
SW-6	38.882	7.087	<0.015 J
SW-7	38.975	7.077	<0.015 J
SW-8	38.765	7.086	0.0175 J
SW-9	38.956	7.087	<0.015 J
SW-10	38.969	7.062	<0.015 J
SW-11	38.453	7.087	0.0871 J
SW-12	38.978	7.087	<0.015 J

Notes:

- 1) Freshwater Sediment Screening Value - USEPA Sediment Screening Values for Hazardous Waste Sites
- 2) CMC - calculation of freshwater ammonia criterion as a one-hour average, where salmonids are absent as described in EPA R.61-68
- 3) CCC - calculation of freshwater ammonia criterion as a thirty-day average, when fish early life stages are present as described in EPA R.61-68
- 4) U - indicates an analyte was not detected above the Method Detection Limit (MDL)
- 5) J - indicates an analyte was detected above the MDL but below the Practical Quantitation Limit
- 6) Data was collected on February 11, 2022

**APPENDIX C –
SCDHEC MONITORING WELL
APPROVAL, GEOLOGIST’S LOGS
and
SCDHEC 1903 FORMS**



Temporary Monitoring Well Approval

Approval is
on behalf of:
Facility:
County:

Chris Bartley/Terracon
Jeff Ruble/Richland County
821 Community Rd
Richland

This approval is for the installation of 12 temporary groundwater-monitoring wells. The temporary wells are to be installed in the locations as illustrated on the submitted map and per the proposed construction details provided by your correspondence dated 2/8/22. The temporary wells are to be installed following all of the applicable requirements of R.61-71.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless the Department has approved another schedule. The form should contain the “as-built” construction details and all other information required by R.61-71.H.1.f
3. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
4. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c.
5. If any of the information provided to the Department changes, Karen Morrison (803-898-0792, [morrisk@dhec.sc.gov](mailto:morrisks@dhec.sc.gov)) shall be notified a minimum of twenty-four hours prior to well construction as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002.

Date of Issuance: 2/9/22

Approval #: MW-13121

Robert Cole, Manager
Division of Site Assessment Remediation & Revitalization Division (SARR)
Federal & State Site Assessment Section
Bureau of Land & Waste Management



2/9/2022

Jeff Ruble
Richland County
1201 Main St, Suite 1110
Columbia, SC 29201

Re: Temporary Monitoring Well Approval Request received 2/8/22
Richland County Well ID: MW-13121

Dear Mr Ruble :

The South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed and approved the referenced temporary monitoring well approval request submitted 2/8/22. The original temporary monitoring well approval has been sent to Chris Bartley/Terracon, and a copy is enclosed for your records. The analytical results from the groundwater samples should be submitted to my attention on or before 4/9/22. Please note the following:

- Well construction and sampling derived waste including but not limited to drill cuttings, drilling fluids, and development/purge water should be managed properly and in compliance with applicable requirements. If containerized, each vessel should be clearly labeled with regards to contents, source, and date of activity.
- Monitoring wells are to yield groundwater samples representative of the zone monitored per R.61-71 H.1.c of the South Carolina Well Standards and Regulations (e.g. low flow sampling techniques are recommended for samples to be analyzed for metals to reduce induced turbidity).
- If this investigation is conducted as part of a potential real estate transaction, the potential purchaser may want to contact SCDHEC's Brownfields Program before this work is performed. The Brownfields Program offers a mechanism to avoid liability for contamination that may be found during this investigation. The investigation proposed may satisfy part or all of the required assessment if pre-approved by the Brownfields Program. The Brownfields Program may be reached at 1-866-576-3432.

If you have any questions, please contact me at (803) 898-0802.

Sincerely

A handwritten signature in black ink, appearing to read 'R. Cole', is written over a light blue circular stamp.

Robert Cole, Manager
Division of Site Assessment, Remediation & Revitalization (SARR)
Federal & State Site Assessment Section

enc: Monitor well approval
cc: SCDHEC EQC Region

Boring No.: SB-1

Project No.: 73227051 #REF!

Project Name: #REF! Blywood Ind.

Latitude:

Longitude:

Surface Elevation:

Offset(s):

Operator: Art Cook (T#REF!) (T#REF!)

Logger: D. Astwood

Project Mgr.: #REF!

Rig No

Rig Type: 772#REF!

Remarks:

Sample							Depth		Sample Description and Lithology
From	To	FID	FID Filtered	Corrected for Methane FID	PID	DTW	From	To	
0	5	-	-	-	-	-	0	5	(~1 1/2' return) Lt. tan A-F s. silty SAND
							5	10	Brown A-F a. SAND - damp
0	2	@1210		SB-1			6	7	Art. (org, red, wht) A. s. CLAY
							7	13	Hard white CLAY (kaolin)
							13	15	VF white s. dry SAND
							15	17	Kaolin
							17	19	Wt. A-F SAND
							19	20	Wt-Tm C-M SAND - wet
							20	21	Tm C, well sorted saturated SAND
							21	22	Wht, s sandy CLAY
							22	25	Wht. A-C s. clayey SAND - wet
							(20	25)	~ 1/8" water in tube
									TD ~ 24'
									DTW = 18.92 (TOC)
									= 18.23 (bgs)

Additional Remarks:

Sample SB-1 (0-2' comp) @ 1210

Boring Advancement

Start (date/time): 2/10 1130

Finish (date/time): 1215

Depth Method

Well Construction

Screen: 5'

Pack:

Seal:

Grout:

Casing:

Water Level Observations

First Encountered:

At Completion:

___ feet, on ___ (date)

___ feet, on ___ (date)

___ feet, on ___ (date)

Water Loss From: To:

Water Loss (%):

Cave In: Depth:

Artesian: Height:

Boring Abandonment

Cuttings:

Grout: (write mixture below)

Well Constructed: (see back)

Bentonite Chips:

Sand:

Sheet: ___ of ___



Boring No.: SB-2

Project No.:

#REF!

Project Name: #REF! Blywood I.P.

Latitude:

Longitude:

Surface Elevation:

Offset(s):

Operator: #REF!

Logger: D.A.

Project Mgr.: #REF!

Rig No

Rig Type:

#REF!

Remarks:

Sample							Depth		Sample Description and Lithology
From	To	FID	FID Filtered	Corrected for Methane FID	PID	DTW	From	To	
.5	2	e1325		SB-2			0	.5	Top soil
							.5	1	Tan v.f. silty SAND
							1	4	Tan-Brown s. sandy SILT
							4	7	Loth. shll CLAY
							7	-	Loth. A-F SAND
							15	19	Tan - Whit graded M-C sat. SAND
							19	20	Whit. CLAY
							15	20	GW standing in tube
									TD = 20'
									DTW ≈

Additional Remarks:

Sample SB-2 @ 1325 (0-2')

1 4oz jar - pH & Metals

Boring Advancement

Start (date/time): 2/10/22

Finish (date/time):

Depth	Method

Well Construction

Screen: 5'

Pack:

Seal:

Grout:

Casing:

Water Level Observations

First Encountered:

At Completion:

___ feet, on ___ (date)

___ feet, on ___ (date)

___ feet, on ___ (date)

Water Loss From: To:

Water Loss (%):

Cave In: Depth:

Artesian: Height:

Boring Abandonment

Cuttings:	<input type="checkbox"/>
Grout: (write mixture below)	<input type="checkbox"/>
Well Constructed: (see back)	<input type="checkbox"/>
Bentonite Chips:	<input type="checkbox"/>
Sand:	<input type="checkbox"/>

Sheet: ___ of ___



Boring No.: *SB-4* Project No.: *7322* #REF! Project Name: *#REF! Bly the wood I.P.*
 Latitude: Longitude: Surface Elevation: Offset(s):
 Operator: #REF! Logger: Project Mgr.: #REF!

Rig No: Rig Type: #REF! Remarks:

Sample							Depth		Sample Description and Lithology
From	To	FID	FID Filtered	Corrected for Methane FID	PID	DTW	From	To	
							0	1	Topsoil - dk brn fine silty sand
0	2	SB-4	0	0715			1	2.0	F tan silty sand
							0	5)	~ 2' return
							10		Refusal (on rock?)
									Refusal No TMW

Boring Advancement	
Start (date/time):	<i>2/11</i>
Finish (date/time):	
Depth	Method

Well Construction
Screen:
Pack:
Seal:
Grout:
Casing:

Water Level Observations
First Encountered:
At Completion:
_____ feet, on _____ (date)
_____ feet, on _____ (date)
_____ feet, on _____ (date)
Water Loss From: To:
Water Loss (%):
Cave In: <input type="checkbox"/> Depth:
Artesian: <input type="checkbox"/> Height:

Boring Abandonment
Cuttings: <input type="checkbox"/>
Grout: (write mixture below) <input type="checkbox"/>
Well Constructed: (see back) <input type="checkbox"/>
Bentonite Chips: <input type="checkbox"/>
Sand: <input type="checkbox"/>



Additional Remarks:
Sample SB-4 (0-2') @ 0715
pH, metals

Boring No.: SB-5

Project No.: 7051

#REF!

Project Name: #REF! Blythwood I.P.

Latitude:

Longitude:

Surface Elevation:

Offset(s):

Operator:

#REF!

Logger:

Project Mgr.: #REF!

Rig No

Rig Type:

#REF!

Remarks:

Sample							Depth		Sample Description and Lithology
From	To	FID	FID Filtered	Corrected for Methane FID	PID	DTW	From	To	
							(0	5)	~3' return
.5	2	SB-5	0750				0	.5	Topsoil (F. det brn/blk silty SAND) @ root
							.5	2	Tan A-F s. silty SAND
							2	3	Loth (brn/tan/gry) A sandy CLAY
							-		
							15	20	Hrd wht. CLAY (kaolin) crumpled & jammed liner
									Set temp. well @ 25'
									Dry - pull @ abn. hole

Additional Remarks:

Sample SB-5 (0.5-2) @ 0750

pH, metals

Boring Advancement

Start (date/time): 2/11

Finish (date/time):

Depth	Method

Well Construction

Screen:

Pack:

Seal:

Grout:

Casing:

Water Level Observations

First Encountered:

At Completion:

_____ feet, on _____ (date)

_____ feet, on _____ (date)

_____ feet, on _____ (date)

Water Loss From: To:

Water Loss (%):

Cave In: Depth:

Artesian: Height:

Boring Abandonment

Cuttings:

Grout: (write mixture below)

Well Constructed: (see back)

Bentonite Chips:

Sand:

Sheet: _____ of _____



Boring No.: SB-7

Project No.: 7051 #REF!

Project Name: #REF! Blythwood I.P.

Latitude:

Longitude:

Surface Elevation:

Offset(s):

Operator: #REF!

Logger:

Project Mgr.: #REF!

Rig No

Rig Type: #REF!

Remarks:

Sample		Depth		Sample Description and Lithology
From	To	From	To	
0	2	SB-7 @ 1010		
			(0 5)	~3' return
			0 2"	Topsoil - F blk silty SAND
			2" 1'	Brn A-F silty SAND
			1 2	Top A-F SAND - dump
			2 3	Att (tan/bn/ory) C clay SAND
				OTE gravel / frags @ 3' (5')
			25'	Dry no TMW

Additional Remarks:

Sample SB-7 (0-2') @ 1010

Boring Advancement

Start (date/time): 2/11

Finish (date/time):

Depth	Method

Well Construction

Screen:

Pack:

Seal:

Grout:

Casing:

Water Level Observations

First Encountered:

At Completion:

_____ feet, on _____ (date)

_____ feet, on _____ (date)

_____ feet, on _____ (date)

Water Loss From: To:

Water Loss (%):

Cave In: Depth:

Artesian: Height:

Boring Abandonment

Cuttings:

Grout: (write mixture below)

Well Constructed: (see back)

Bentonite Chips:

Sand:

Sheet: _____ of _____



Boring No.: SB-9

Project No.: 7051 #REF!

Project Name: #REF! Blytheood I.P.

Latitude:

Longitude:

Surface Elevation:

Offset(s):

Operator: #REF!

Logger:

Project Mgr.: #REF!

Rig No Rig Type: #REF!

Remarks:

Sample							Depth		Sample Description and Lithology
From	To	FID	FID Filtered	Corrected for Methane FID	PID	DTW	From	To	
							(0	5)	~4' return
0	2	SB-9 @		1120			0	0.5	Lt. brn/tan soft CLAY w/ organics - damp
							0.5	2	" " " "
							2		Dark frag.
							2	4	Tan, wht soft CLAY
							18		Refusal No TAW

Additional Remarks:

Sample SB-9 (0-2') @ 1120

pH = Actuals

Boring Advancement

Start (date/time): 2/11

Finish (date/time):

Depth Method

Well Construction

Screen:

Pack:

Seal:

Grout:

Casing:

Water Level Observations

First Encountered:

At Completion:

___ feet, on ___ (date)

___ feet, on ___ (date)

___ feet, on ___ (date)

Water Loss From: To:

Water Loss (%):

Cave In: Depth:

Artesian: Height:

Boring Abandonment

Cuttings:

Grout: (write mixture below)

Well Constructed: (see back)

Bentonite Chips:

Sand:

Sheet: ___ of ___



Boring No.: SB-10

Project No.: 7051

#REF!

Project Name: #REF! *Blithwood I.P.*

Latitude:

Longitude:

Surface Elevation:

Offset(s):

Operator:

#REF!

Logger:

Project Mgr.: #REF!

Rig No

Rig Type:

#REF!

Remarks:

Sample							Depth		Sample Description and Lithology
From	To	FID	FID Filtered	Corrected for Methane FID	PID	DTW	From	To	
							(0	5)	~3' return
0	2	SB-10 @		1155			6	2	M-QF Tan silty SAND - dump
							2	3	Auth. (org/red/bn) A sandy clay
							8		Revised on rock
									Revised
									No TAW

Additional Remarks:

Sample SB-10 (0-2') @ 1155

pH & Metals

Boring Advancement

Start (date/time): 2/11

Finish (date/time):

Depth

Method

Well Construction

Screen:

Pack:

Seal:

Grout:

Casing:

Water Level Observations

First Encountered:

At Completion:

_____ feet, on _____ (date)

_____ feet, on _____ (date)

_____ feet, on _____ (date)

Water Loss From: To:

Water Loss (%):

Cave In: Depth:

Artesian: Height:

Boring Abandonment

Cuttings:

Grout: (write mixture below)

Well Constructed: (see back)

Bentonite Chips:

Sand:

Sheet: _____ of _____



Boring No.: SB-11

Project No.: 7051 #REF!

Project Name: #REF! B'wood I. P.

Latitude:

Longitude:

Surface Elevation:

Offset(s):

Operator: #REF!

Logger:

Project Mgr.: #REF!

Rig No Rig Type: #REF!

Remarks:

Sample							Depth		Sample Description and Lithology
From	To	FID	FID Filtered	Corrected for Methane FID	PID	DTW	From	To	
1	3	SB-11 @		1245					Graded construction area Cannot access wetlands area due to silt function. Collect sample from low burn by silt lens. Potentially non-native, disturbed soil.
							(0 5)		~3' return
							0	1	Drk brn / blk A-F silty SAND w/ organics & wood frags
							1	3	tan / Lt brn A-F clay SAND
									9.5 Refusal No TAW

Additional Remarks:

sample SB-11 (1-3') @ 1245

excluded 0-1' due to wood/mulch in sample

Boring Advancement

Start (date/time): 2/11

Finish (date/time):

Depth Method

Well Construction

Screen:

Pack:

Seal:

Grout:

Casing:

Water Level Observations

First Encountered:

At Completion:

feet, on (date)

feet, on (date)

feet, on (date)

Water Loss From: To:

Water Loss (%):

Cave In: Depth:

Artesian: Height:

Boring Abandonment

Cuttings:

Grout: (write mixture below)

Well Constructed: (see back)

Bentonite Chips:

Sand:

Sheet: of



Boring No.: SB-12

Project No.: 7051 #REF!

Project Name: #REF! B'wood I. P.

Latitude:

Longitude:

Surface Elevation:

Offset(s):

Operator:

#REF!

Logger:

Project Mgr.: #REF!

Rig No

Rig Type:

#REF!

Remarks:

Sample							Depth		Sample Description and Lithology
From	To	FID	FID Filtered	Corrected for Methane FID	PID	DTW	From	To	
0	2	SB-12 @		1340			0	.25	1 Lt. bn clay SAND - Fill?
							.25	1	Thin s. sandy CLAY
							1	5	kaolin - fractured w/ bn & red (iron) staining

Additional Remarks:

Sample SB-12 (0-2') @ 1340
pH & Metals

Boring Advancement

Start (date/time): 2/11

Finish (date/time):

Depth	Method

Well Construction

Screen: _____

Pack: _____

Seal: _____

Grout: _____

Casing: _____

Water Level Observations

First Encountered: _____

At Completion: _____

_____ feet, on _____ (date)

_____ feet, on _____ (date)

_____ feet, on _____ (date)

Water Loss From: _____ To: _____

Water Loss (%): _____

Cave In: Depth: _____

Artesian: Height: _____

Boring Abandonment

Cuttings:

Grout: (write mixture below)

Well Constructed: (see back)

Bentonite Chips:

Sand:

Sheet: _____ of _____



**APPENDIX D –
ANALYTICAL REPORTS AND CHAIN OF CUSTODY**



ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Terracon Consultants
521 Clemson Rd.
Columbia SC 29229

ATTENTION

Walker Hinson

PROJECT ID

Blythewood Ind. Park

LABORATORY REPORT NUMBER

2202F25

DATE

February 18, 2022

Primary Data Review By

Chris Pafford

Project Manager, AES

Secondary Data Review By

Ashley Amick

Project Manager, Access Analytical
aamick@axs-inc.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.
- AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582
- AIHA-LAP,LLC Laboratory ID:100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination.
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 883.315.4243

Access Lab Report #: _____
 Sub Lab (if applicable): _____ / Sub Report #: _____
 Client Purchase Order #: _____
 Access Estimate #: _____



Access Analytical, Inc.
 15 Thames Valley Rd. ~ Irmo, SC 29063
 Phone: 803-781-4243 / Fax: 803-781-4303 / www.axs-inc.com
 SCDHEC Lab Certification # 32571
 NELAC Lab ID # E871145

Chain of Custody Record

2202F25

Client: TERRACON Preservatives (see codes): Ø

Attn: Walker Hinson Bottle Types (see codes): G

Address: 521 Clanson Rd

City: Columbia State: SC Zip Code: 29229

Phone: 803-729-7673 Fax: _____

Email: Walker.Hinson@TERRACON.COM

Project Name: Blythewood Ind. Park

Sampled By (Signature): [Signature]

Preservation Codes / Bottle Types:

*Preservative Codes:
 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2SiO3, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAC, 8 = H3PO4, 9 = cooled to ≤6°C, 10 = cooled to ≤10°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
 GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section)

*Program Area Codes:
 CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	C=Comp G=Grab	Matrix (see codes)	Program Area (see codes)	Total # Containers	REQUESTED LAB ANALYSIS:											
	SB-1	2/10/22	1210	C	S	SHW	1	pH, Metals *											
	SB-2	↓	1325	↓	↓	↓	1												
	SB-3	↓	1450	↓	↓	↓	1												

Notes / Comments

* Chromium, Cobalt, Nickel, Arsenic, Cadmium, Lead, Hg

Turnaround Time Requested: _____ Project Location: SC Relinquished By: [Signature] Received By: [Signature] Date: 2/10/22 Time (24hr): 1627 Samples Received on Ice: X Y ___ N ___ N/A

Standard: _____ Rush * X NC: _____ Other (Specify): _____ Date Required: 2/17/22 Rush data emailed/faxed by end of business day on date required. Standard TAT is 7-10 business days. Received in lab by: Colleen [Signature] Sample Temp. Received in Lab: 4.1 (°C)

Chain of Custody Page 1 of 1 Ref: RT1 Ref: RT2

Client: Terracon Consultants
Project: Blythewood Ind. Park
Lab ID: 2202F25

Case Narrative

pH Analysis by Method SW9045D:

Samples for pH analysis by Method SW9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes."

Client: Terracon Consultants	Client Sample ID: SB-1
Project Name: Blythewood Ind. Park	Collection Date: 2/10/2022 12:10:00 PM
Lab ID: 2202F25-001	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0451	U	0.104	0.0451	mg/Kg-dry	02/17/2022 08:59:00	02/17/2022 10:06	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.59	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:25	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.521	U	1.73	0.521	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:22	1
Cadmium	0.0809	U	1.73	0.0809	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:22	1
Chromium	2.13		1.73	0.640	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:22	1
Cobalt	0.435	I	1.73	0.0871	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:22	1
Lead	1.89	I	3.46	0.304	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:22	1
Nickel	0.213	U	3.46	0.213	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:22	1
PERCENT MOISTURE D2216								
Percent Moisture	4.01		0	0	wt%		02/13/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value

Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix

Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-2
Project Name: Blythewood Ind. Park	Collection Date: 2/10/2022 1:25:00 PM
Lab ID: 2202F25-002	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0477	U	0.110	0.0477	mg/Kg-dry	02/17/2022 08:59:00	02/17/2022 10:14	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.11	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:31	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.634	U	2.11	0.634	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:30	1
Cadmium	0.0985	U	2.11	0.0985	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:30	1
Chromium	3.97		2.11	0.780	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:30	1
Cobalt	0.372	I	2.11	0.106	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:30	1
Lead	3.31	I	4.21	0.370	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:30	1
Nickel	1.12	I	4.21	0.259	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:30	1
PERCENT MOISTURE D2216								
Percent Moisture	9.30		0	0	wt%		02/13/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-3
Project Name: Blythewood Ind. Park	Collection Date: 2/10/2022 2:50:00 PM
Lab ID: 2202F25-003	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0459	U	0.106	0.0459	mg/Kg-dry	02/17/2022 08:59:00	02/17/2022 10:22	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.18	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:33	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.512	U	1.70	0.512	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:33	1
Cadmium	0.0796	U	1.70	0.0796	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:33	1
Chromium	2.50		1.70	0.630	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:33	1
Cobalt	0.390	I	1.70	0.0857	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:33	1
Lead	2.53	I	3.40	0.298	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:33	1
Nickel	0.209	U	3.40	0.209	mg/Kg-dry	02/17/2022 07:55:00	02/17/2022 12:33	1
PERCENT MOISTURE D2216								
Percent Moisture	5.61		0	0	wt%		02/13/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: SB-1				Lab ID:	2202F25-001		
Collection Date: 2/10/2022 12:10:00 PM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			
pH	5.59	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL SW6010D				(SW3050B)			
Chromium	2.13		0.640	1.73	mg/Kg-dry	331030	1
Cobalt	0.435	J	0.0871	1.73	mg/Kg-dry	331030	1
Lead	1.89	J	0.304	3.46	mg/Kg-dry	331030	1
PERCENT MOISTURE D2216							
Percent Moisture	4.01		0	0	wt%	R477363	1
Client Sample ID: SB-2				Lab ID:	2202F25-002		
Collection Date: 2/10/2022 1:25:00 PM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			
pH	5.11	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL SW6010D				(SW3050B)			
Chromium	3.97		0.780	2.11	mg/Kg-dry	331030	1
Cobalt	0.372	J	0.106	2.11	mg/Kg-dry	331030	1
Lead	3.31	J	0.370	4.21	mg/Kg-dry	331030	1
Nickel	1.12	J	0.259	4.21	mg/Kg-dry	331030	1
PERCENT MOISTURE D2216							
Percent Moisture	9.30		0	0	wt%	R477363	1
Client Sample ID: SB-3				Lab ID:	2202F25-003		
Collection Date: 2/10/2022 2:50:00 PM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			
pH	5.18	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL SW6010D				(SW3050B)			
Chromium	2.50		0.630	1.70	mg/Kg-dry	331030	1
Cobalt	0.390	J	0.0857	1.70	mg/Kg-dry	331030	1
Lead	2.53	J	0.298	3.40	mg/Kg-dry	331030	1
PERCENT MOISTURE D2216							
Percent Moisture	5.61		0	0	wt%	R477363	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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Access Analytical, Inc

AES Work Order Number: 2202F25

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 4.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). HM 2/11/22

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials). CD 02/11/22

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* 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.

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

I certify that I have completed sections 28-30 (dated initials). CD 02/11/22

Locked

Client: Terracon Consultants
 Project Name: Blythewood Ind. Park
 Lab Order: 2202F25

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2202F25-001A	SB-1	2/10/2022 12:10:00PM	Soil	TOTAL METALS BY ICP		2/17/2022 7:55:00AM	02/17/2022
2202F25-001A	SB-1	2/10/2022 12:10:00PM	Soil	TOTAL METALS BY ICP		2/17/2022 7:55:00AM	02/17/2022
2202F25-001A	SB-1	2/10/2022 12:10:00PM	Soil	Mercury by SW7473		2/17/2022 8:59:00AM	02/17/2022
2202F25-001A	SB-1	2/10/2022 12:10:00PM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202F25-001A	SB-1	2/10/2022 12:10:00PM	Soil	PERCENT MOISTURE			02/13/2022
2202F25-002A	SB-2	2/10/2022 1:25:00PM	Soil	TOTAL METALS BY ICP		2/17/2022 7:55:00AM	02/17/2022
2202F25-002A	SB-2	2/10/2022 1:25:00PM	Soil	TOTAL METALS BY ICP		2/17/2022 7:55:00AM	02/17/2022
2202F25-002A	SB-2	2/10/2022 1:25:00PM	Soil	Mercury by SW7473		2/17/2022 8:59:00AM	02/17/2022
2202F25-002A	SB-2	2/10/2022 1:25:00PM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202F25-002A	SB-2	2/10/2022 1:25:00PM	Soil	PERCENT MOISTURE			02/13/2022
2202F25-003A	SB-3	2/10/2022 2:50:00PM	Soil	TOTAL METALS BY ICP		2/17/2022 7:55:00AM	02/17/2022
2202F25-003A	SB-3	2/10/2022 2:50:00PM	Soil	TOTAL METALS BY ICP		2/17/2022 7:55:00AM	02/17/2022
2202F25-003A	SB-3	2/10/2022 2:50:00PM	Soil	Mercury by SW7473		2/17/2022 8:59:00AM	02/17/2022
2202F25-003A	SB-3	2/10/2022 2:50:00PM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202F25-003A	SB-3	2/10/2022 2:50:00PM	Soil	PERCENT MOISTURE			02/13/2022

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202F25

ANALYTICAL QC SUMMARY REPORT

BatchID: 331000

Sample ID: LCS-331000	Client ID:	Units: pH Units	Prep Date: 02/16/2022	Run No: 477702							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 331000	Analysis Date: 02/16/2022	Seq No: 11033709							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 6.998 0.01 7.000 100.0 90 110

Sample ID: 2202F25-001ADUP	Client ID: SB-1	Units: pH Units	Prep Date: 02/16/2022	Run No: 477702							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 331000	Analysis Date: 02/16/2022	Seq No: 11033739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 5.536 0.01 5.589 0.953 10 H

Sample ID: 2202G57-001ADUP	Client ID:	Units: pH Units	Prep Date: 02/16/2022	Run No: 477702							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 331000	Analysis Date: 02/16/2022	Seq No: 11033714							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 4.983 0.01 5.069 1.71 10 H

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202F25

ANALYTICAL QC SUMMARY REPORT

BatchID: 331030

Sample ID: MB-331030	Client ID:	Units: mg/Kg	Prep Date: 02/17/2022	Run No: 477881							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 331030	Analysis Date: 02/17/2022	Seq No: 11038613							
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									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Cobalt	BRL	2.50									
Lead	BRL	5.00									
Nickel	BRL	5.00									

Sample ID: LCS-331030	Client ID:	Units: mg/Kg	Prep Date: 02/17/2022	Run No: 477881							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 331030	Analysis Date: 02/17/2022	Seq No: 11038614							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	45.50	2.50	50.00		91.0	80	120				
Cadmium	47.94	2.50	50.00		95.9	80	120				
Chromium	50.76	2.50	50.00		102	80	120				
Cobalt	50.53	2.50	50.00		101	80	120				
Lead	48.77	5.00	50.00		97.5	80	120				
Nickel	49.93	5.00	50.00		99.9	80	120				

Sample ID: 2202K43-001AMS	Client ID:	Units: mg/Kg	Prep Date: 02/17/2022	Run No: 477881							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 331030	Analysis Date: 02/17/2022	Seq No: 11038616							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	67.77	1.97	39.39	36.55	79.2	75	125				
Cadmium	38.74	1.97	39.39	5.019	85.6	75	125				
Chromium	75.53	1.97	39.39	42.74	83.2	75	125				
Cobalt	45.79	1.97	39.39	16.08	75.4	75	125				
Lead	3990	3.94	39.39	2446	3920	75	125				S
Nickel	102.5	3.94	39.39	75.43	68.9	75	125				S

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202F25

ANALYTICAL QC SUMMARY REPORT

BatchID: 331030

Sample ID: 2202K43-001AMSD	Client ID:	Units: mg/Kg	Prep Date: 02/17/2022	Run No: 477881
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 331030	Analysis Date: 02/17/2022	Seq No: 11038617

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	67.08	1.97	39.41	36.55	77.4	75	125	67.77	1.02	20	
Cadmium	39.33	1.97	39.41	5.019	87.1	75	125	38.74	1.50	20	
Chromium	79.59	1.97	39.41	42.74	93.5	75	125	75.53	5.23	20	
Cobalt	48.45	1.97	39.41	16.08	82.1	75	125	45.79	5.63	20	
Lead	2411	3.94	39.41	2446	-88.1	75	125	3990	49.3	20	SR
Nickel	97.59	3.94	39.41	75.43	56.2	75	125	102.5	4.96	20	S

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202F25

ANALYTICAL QC SUMMARY REPORT

BatchID: 331044

Sample ID: MB-331044	Client ID:	Units: mg/Kg	Prep Date: 02/17/2022	Run No: 477817							
SampleType: MBLK	TestCode: Total Mercury by SW7473	BatchID: 331044	Analysis Date: 02/17/2022	Seq No: 11037454							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: LCS-331044	Client ID:	Units: mg/Kg	Prep Date: 02/17/2022	Run No: 477817							
SampleType: LCS	TestCode: Total Mercury by SW7473	BatchID: 331044	Analysis Date: 02/17/2022	Seq No: 11037456							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.8676 0.100 1.000 86.8 80 120

Sample ID: 2202F25-003AMS	Client ID: SB-3	Units: mg/Kg-dry	Prep Date: 02/17/2022	Run No: 477817							
SampleType: MS	TestCode: Total Mercury by SW7473	BatchID: 331044	Analysis Date: 02/17/2022	Seq No: 11037481							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

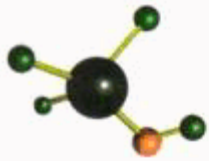
Mercury 0.8249 0.106 1.029 80.2 80 120

Sample ID: 2202F25-003AMSD	Client ID: SB-3	Units: mg/Kg-dry	Prep Date: 02/17/2022	Run No: 477817							
SampleType: MSD	TestCode: Total Mercury by SW7473	BatchID: 331044	Analysis Date: 02/17/2022	Seq No: 11037482							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.9833 0.106 1.029 95.6 80 120 0.8249 17.5 20

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

End of Report



ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Terracon Consultants
521 Clemson Rd.
Columbia SC 29229

ATTENTION

Walker Hinson

PROJECT ID

Blythewood Ind. Park

LABORATORY REPORT NUMBER

2202G57

DATE

February 18, 2022

Primary Data Review By

Chris Pafford

Project Manager, AES

Secondary Data Review By

Ashley Amick

Project Manager, Access Analytical
aamick@axs-inc.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.
- AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582
- AIHA-LAP,LLC Laboratory ID:100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination.
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 883.315.4243

Access Lab Report #: _____
 Sub Lab (if applicable): _____ / Sub Report #: _____
 Client Purchase Order #: _____
 Access Estimate #: 1004



Access Analytical, Inc.
 15 Thames Valley Rd. ~ Irmo, SC 29063
 Phone: 803-781-4243 / Fax: 803-781-4303 / www.axs-inc.com
 SCDHEC Lab Certification # 32571
 NELAC Lab ID # E871145

2202657
Chain of Custody Record

Client: TERRACON Preservatives (see codes): Ø

Attn: Walker Hinson Bottle Types (see codes): G

Address: 521 Clenson Rd

City: Columbia State: SC Zip Code: 29229

Phone: 803-729-7673 Fax: _____

Email: Walker.Hinson@Terracon.com

Project Name: Blytheood Trd. Park

Sampled By (Signature): [Signature]

REQUESTED LAB ANALYSIS:

* P.H. Metals

Preservation Codes / Bottle Types:

*Preservative Codes:
 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O8, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAC, 8 = H3PO4, 9 = cooled to ≤6°C, 10 = cooled to ≤10°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCL, 13 = EDA

*Matrix Codes:
 GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section)

*Program Area Codes:
 CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Notes / Comments

* Chromium, Cobalt, Nickel, Arsenic, Cadmium, Lead, Mercury

Lab ID:	Sample Name:	Date Collected:	Time Collected:	C=Comp G=Grab	Matrix (see codes)	Program Area (see codes)	Total # Containers	# Containers per Test >>
	SB-4	2/11/22	0715	C	S	SHW	1	1
	SB-5		0750				1	1
	SB-6		0905				1	1
	SB-7		1010				1	1
	SB-8		1050				1	1
	SB-9		1120				1	1
	SB-10		1155				1	1
	SB-11		1245				1	1
	SB-12		1340				1	1
								# Containers per Test >>

Turnaround Time Requested: _____ Project Location: SC Relinquished By: [Signature] Received By: [Signature] Date: 2/11/22 Time (24hr): 1520 Samples Received on Ice: X Y ___ N ___ N/A 1.2°C

Rush * X NC MEV FedEx 2/14/22 1700 ___ Y ___ N ___ N/A

*Date Required: 2-17-22 Other (Specify): _____ ___ Y ___ N ___ N/A

Rush data emailed/faxed by end of business day on date required. Standard TAT is 7-10 business days.

Chain of Custody Page 1 of 2

Received in lab by: Tashira Love 2/12/22 12:20

Sample Temp. Received in Lab: 2.0 (°C)
 Ref: RT1 Ref: RT2

White Copy: Lab original / Canary Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Access Lab Report #: _____
 Sub Lab (if applicable): _____ / Sub Report #: _____
 Client Purchase Order #: _____
 Access Estimate #: 1004



Access Analytical, Inc.
 15 Thames Valley Rd. ~ Irmo, SC 29063
 Phone: 803-781-4243 / Fax: 803-781-4303 / www.axs-inc.com
 SCDHCC Lab Certification # 32571
 NELAC Lab ID # E871145

2202687
Chain of Custody Record

Client: TERRACON
 Attn: Walter Hinson
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____
 Project Name: Blytheood Ind. Park
 Sampled By (Signature): [Signature]

Preservatives (see codes):	<u>0</u>	<u>2</u>	<u>3</u>						
Bottle Types (see codes):	<u>P</u>	<u>P</u>	<u>P</u>						

Preservation Codes / Bottle Types:
 *Preservative Codes:
 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O8, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAC, 8 = H3PO4, 9 = cooled to ≤6°C, 10 = cooled to ≤10°C, 11 = Amm.Cl, 12 = Ascorbic Acid / HCL, 13 = EDA
 *Matrix Codes:
 GW = ground water, WW = waste water, DW = drinking water, SW = surface/storm water, S = soil, SL = sludge, A = air, IW = industrial waste, O = other (specify in comments section)
 *Program Area Codes:
 CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)
 *Container Type: G = Glass, P = Plastic

Lab ID:	Sample Name:	Date Collected:	Time Collected:	C=Comp G=Grab	Matrix (see codes)	Program Area (see codes)	Total # Containers	REQUESTED LAB ANALYSIS:
	FSP-1	2/11/22	0800	G	GW	SHW	3	* pH, Fluoride ** Metals Ammonia
	FSP-2	↓	0900	↓	↓	↓	3	
	FSP-3	↓	0930	↓	↓	↓	3	
								# Containers per Test >>
								# Containers per Test >>
								# Containers per Test >>
								# Containers per Test >>
								# Containers per Test >>
								# Containers per Test >>
								# Containers per Test >>
								# Containers per Test >>

Notes / Comments

** Nickel, Cobalt, manganese

Turnaround Time Requested:	Project Location:	Relinquished By:	Received By:	Date:	Time (24hr):	Samples Received on Ice:
Standard	SC	<u>[Signature]</u>	<u>[Signature]</u>	2/11/22	1520	<u>XY</u> ___ N ___ N/A 1.2°C
Rush * <u>X</u>	NC	<u>MEV</u>	<u>FedEx</u>	2/14/22	1700	___ Y ___ N ___ N/A
*Date Required	Other (Specify):					___ Y ___ N ___ N/A
Rush data emailed/faxed by end of business day on date required. Standard TAT is 7-10 business days.						___ Y ___ N ___ N/A

Chain of Custody Page 2 of 2

Received in lab by: TG Smith Love 2/12/22 12:20

Sample Temp. Received in Lab: 2.0 (°C)
 Ref: RT1 Ref: RT2

White Copy: Lab original / Canary Copy: Client Copy

NOTE: Relinquishing samples via this Chain of Custody document constitutes client acceptance of Access Analytical terms and conditions.

Client: Terracon Consultants
Project: Blythewood Ind. Park
Lab ID: 2202G57

Case Narrative

pH Analysis by Method E150.1/SM4500 H+ B/SW9045D:

Samples for pH analysis by Method E150.1/SM4500 H+ B/SW9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes."

Client: Terracon Consultants	Client Sample ID: SB-4
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 7:15:00 AM
Lab ID: 2202G57-001	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0419	U	0.0969	0.0419	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 17:09	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.07	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 12:49	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.522	U	1.73	0.522	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:05	1
Cadmium	0.0810	U	1.73	0.0810	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:05	1
Chromium	2.27		1.73	0.641	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:05	1
Cobalt	0.156	I	1.73	0.0873	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:05	1
Lead	2.79	I	3.46	0.304	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:05	1
Nickel	0.405	I	3.46	0.213	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:05	1
PERCENT MOISTURE D2216								
Percent Moisture	12.2		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-5
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 7:50:00 AM
Lab ID: 2202G57-002	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0381	U	0.0880	0.0381	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 17:18	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	4.88	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 12:56	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.497	U	1.65	0.497	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:07	1
Cadmium	0.0772	U	1.65	0.0772	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:07	1
Chromium	1.71		1.65	0.611	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:07	1
Cobalt	0.109	I	1.65	0.0832	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:07	1
Lead	1.78	I	3.30	0.290	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:07	1
Nickel	0.215	I	3.30	0.203	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:07	1
PERCENT MOISTURE D2216								
Percent Moisture	12.1		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-6
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 9:05:00 AM
Lab ID: 2202G57-003	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0488	U	0.113	0.0488	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 17:26	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	4.89	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 12:59	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.464	U	1.54	0.464	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:10	1
Cadmium	0.0721	U	1.54	0.0721	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:10	1
Chromium	1.88		1.54	0.571	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:10	1
Cobalt	0.137	I	1.54	0.0776	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:10	1
Lead	2.18	I	3.08	0.271	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:10	1
Nickel	0.289	I	3.08	0.190	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:10	1
PERCENT MOISTURE D2216								
Percent Moisture	12.2		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-7
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 10:10:00 AM
Lab ID: 2202G57-004	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0395	U	0.0913	0.0395	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 17:34	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.00	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:01	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.496	U	1.65	0.496	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:13	1
Cadmium	0.0770	U	1.65	0.0770	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:13	1
Chromium	1.53	I	1.65	0.609	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:13	1
Cobalt	0.150	I	1.65	0.0829	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:13	1
Lead	1.84	I	3.29	0.289	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:13	1
Nickel	0.387	I	3.29	0.203	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:13	1
PERCENT MOISTURE D2216								
Percent Moisture	11.5		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-8
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 10:50:00 AM
Lab ID: 2202G57-005	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0386	U	0.0892	0.0386	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 18:01	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	4.99	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:04	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.497	U	1.65	0.497	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:16	1
Cadmium	0.0772	U	1.65	0.0772	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:16	1
Chromium	1.56	I	1.65	0.611	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:16	1
Cobalt	0.119	I	1.65	0.0831	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:16	1
Lead	1.84	I	3.30	0.290	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:16	1
Nickel	0.203	U	3.30	0.203	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:16	1
PERCENT MOISTURE D2216								
Percent Moisture	8.82		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-9
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 11:20:00 AM
Lab ID: 2202G57-006	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0470	U	0.109	0.0470	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 18:09	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	4.65	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:06	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.808	U	2.68	0.808	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:24	1
Cadmium	0.126	U	2.68	0.126	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:24	1
Chromium	5.34		2.68	0.993	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:24	1
Cobalt	0.325	I	2.68	0.135	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:24	1
Lead	5.70		5.36	0.471	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:24	1
Nickel	0.330	U	5.36	0.330	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:24	1
PERCENT MOISTURE D2216								
Percent Moisture	27.5		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-10
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 11:55:00 AM
Lab ID: 2202G57-007	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0377	U	0.0871	0.0377	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 18:17	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.04	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:09	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.473	U	1.57	0.473	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:27	1
Cadmium	0.0735	U	1.57	0.0735	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:27	1
Chromium	1.64		1.57	0.582	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:27	1
Cobalt	0.0886	I	1.57	0.0791	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:27	1
Lead	1.30	I	3.14	0.276	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:27	1
Nickel	0.193	U	3.14	0.193	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:27	1
PERCENT MOISTURE D2216								
Percent Moisture	8.52		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-11
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 12:45:00 PM
Lab ID: 2202G57-008	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0395	U	0.0912	0.0395	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 18:25	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.16	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:15	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	0.518	U	1.72	0.518	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:30	1
Cadmium	0.0806	U	1.72	0.0806	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:30	1
Chromium	3.38		1.72	0.638	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:30	1
Cobalt	0.328	I	1.72	0.0867	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:30	1
Lead	3.52		3.44	0.302	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:30	1
Nickel	0.801	I	3.44	0.212	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:30	1
PERCENT MOISTURE D2216								
Percent Moisture	12.1		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: SB-12
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 1:40:00 PM
Lab ID: 2202G57-009	Matrix: Soil

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Total Mercury by SW7473					(SW7473)			
Mercury	0.0559	I	0.110	0.0477	mg/Kg-dry	02/15/2022 10:39:10	02/15/2022 18:34	1
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.00	Q	0.01	0.01	pH Units	02/16/2022 09:05:00	02/16/2022 13:17	1
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	2.81		2.49	0.751	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:33	1
Cadmium	0.117	U	2.49	0.117	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:33	1
Chromium	22.2		2.49	0.924	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:33	1
Cobalt	0.391	I	2.49	0.126	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:33	1
Lead	6.12		4.99	0.438	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:33	1
Nickel	0.307	U	4.99	0.307	mg/Kg-dry	02/15/2022 08:11:00	02/15/2022 18:33	1
PERCENT MOISTURE D2216								
Percent Moisture	28.0		0	0	wt%		02/14/2022 00:00	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: FSP-1
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 8:00:00 AM
Lab ID: 2202G57-010	Matrix: Groundwater

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Nitrogen, Ammonia (as N) E350.1								
					(E350.1)			
Nitrogen, Ammonia (As N)	0.022		0.020	0.018	mg/L	02/17/2022 07:00:00	02/17/2022 13:29	1
ION SCAN SW9056A								
Fluoride	0.20	U	0.20	0.20	mg/L		02/16/2022 15:28	1
Hydrogen Ion (pH) by SM4500H+B								
pH	4.80	Q	0.0100	0.0100	pH Units		02/14/2022 16:41	1
METALS, TOTAL SW6010D								
					(SW3010A)			
Cobalt	0.0012	U	0.0200	0.0012	mg/L	02/15/2022 08:40:00	02/15/2022 19:41	1
Manganese	0.0054	I	0.0150	0.0012	mg/L	02/15/2022 08:40:00	02/15/2022 19:41	1
Nickel	0.0051	U	0.0200	0.0051	mg/L	02/15/2022 08:40:00	02/15/2022 19:41	1

FLDEP V Indicates that the analyte was detected in both the sample and the method blank J Estimated value
Qualifiers: U Indicates that the compound was analyzed for but not detected Q Sample held beyond the accepted holding time
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
AES Laboratory S Spike recovery outside limits due to matrix R RPD outside limits due to matrix
Qualifiers: > Greater than result value < Less than result value

Client: Terracon Consultants	Client Sample ID: FSP-2
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 9:00:00 AM
Lab ID: 2202G57-011	Matrix: Groundwater

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Nitrogen, Ammonia (as N) E350.1								
					(E350.1)			
Nitrogen, Ammonia (As N)	0.578		0.020	0.018	mg/L	02/17/2022 07:00:00	02/17/2022 13:31	1
ION SCAN SW9056A								
Fluoride	0.20	U	0.20	0.20	mg/L		02/16/2022 15:44	1
Hydrogen Ion (pH) by SM4500H+B								
pH	6.26	Q	0.0100	0.0100	pH Units		02/14/2022 16:47	1
METALS, TOTAL SW6010D								
					(SW3010A)			
Cobalt	0.0015	I	0.0200	0.0012	mg/L	02/15/2022 08:40:00	02/15/2022 19:44	1
Manganese	0.187		0.0150	0.0012	mg/L	02/15/2022 08:40:00	02/15/2022 19:44	1
Nickel	0.0085	I	0.0200	0.0051	mg/L	02/15/2022 08:40:00	02/15/2022 19:44	1

FLDEP	V	Indicates that the analyte was detected in both the sample and the method blank	J	Estimated value
Qualifiers:	U	Indicates that the compound was analyzed for but not detected	Q	Sample held beyond the accepted holding time
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit		
AES Laboratory	S	Spike recovery outside limits due to matrix	R	RPD outside limits due to matrix
Qualifiers:	>	Greater than result value	<	Less than result value

Client: Terracon Consultants	Client Sample ID: FSP-3
Project Name: Blythewood Ind. Park	Collection Date: 2/11/2022 9:30:00 AM
Lab ID: 2202G57-012	Matrix: Groundwater

Analyses	Result	Qual	Reporting Limit	MDL	Units	Prepared	Date Analyzed	DF
Nitrogen, Ammonia (as N) E350.1							(E350.1)	
Nitrogen, Ammonia (As N)	0.204		0.020	0.018	mg/L	02/17/2022 07:00:00	02/17/2022 13:34	1
ION SCAN SW9056A								
Fluoride	0.25		0.20	0.20	mg/L		02/16/2022 16:00	1
Hydrogen Ion (pH) by SM4500H+B								
pH	6.39	Q	0.0100	0.0100	pH Units		02/14/2022 16:50	1
METALS, TOTAL SW6010D							(SW3010A)	
Cobalt	0.0129	I	0.0200	0.0012	mg/L	02/15/2022 08:40:00	02/15/2022 19:47	1
Manganese	0.811		0.0150	0.0012	mg/L	02/15/2022 08:40:00	02/15/2022 19:47	1
Nickel	0.171		0.0200	0.0051	mg/L	02/15/2022 08:40:00	02/15/2022 19:47	1

FLDEP	V	Indicates that the analyte was detected in both the sample and the method blank	J	Estimated value
Qualifiers:	U	Indicates that the compound was analyzed for but not detected	Q	Sample held beyond the accepted holding time
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit		
AES Laboratory	S	Spike recovery outside limits due to matrix	R	RPD outside limits due to matrix
Qualifiers:	>	Greater than result value	<	Less than result value

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: SB-4				Lab ID:	2202G57-001		
Collection Date: 2/11/2022 7:15:00 AM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH)	SW9045D			(SW9045D)			
pH	5.07	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL	SW6010D			(SW3050B)			
Chromium	2.27		0.641	1.73	mg/Kg-dry	330880	1
Cobalt	0.156	J	0.0873	1.73	mg/Kg-dry	330880	1
Lead	2.79	J	0.304	3.46	mg/Kg-dry	330880	1
Nickel	0.405	J	0.213	3.46	mg/Kg-dry	330880	1
PERCENT MOISTURE	D2216						
Percent Moisture	12.2		0	0	wt%	R477366	1
Client Sample ID: SB-5				Lab ID:	2202G57-002		
Collection Date: 2/11/2022 7:50:00 AM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH)	SW9045D			(SW9045D)			
pH	4.88	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL	SW6010D			(SW3050B)			
Chromium	1.71		0.611	1.65	mg/Kg-dry	330880	1
Cobalt	0.109	J	0.0832	1.65	mg/Kg-dry	330880	1
Lead	1.78	J	0.290	3.30	mg/Kg-dry	330880	1
Nickel	0.215	J	0.203	3.30	mg/Kg-dry	330880	1
PERCENT MOISTURE	D2216						
Percent Moisture	12.1		0	0	wt%	R477366	1
Client Sample ID: SB-6				Lab ID:	2202G57-003		
Collection Date: 2/11/2022 9:05:00 AM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH)	SW9045D			(SW9045D)			
pH	4.89	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL	SW6010D			(SW3050B)			
Chromium	1.88		0.571	1.54	mg/Kg-dry	330880	1
Cobalt	0.137	J	0.0776	1.54	mg/Kg-dry	330880	1
Lead	2.18	J	0.271	3.08	mg/Kg-dry	330880	1
Nickel	0.289	J	0.190	3.08	mg/Kg-dry	330880	1
PERCENT MOISTURE	D2216						
Percent Moisture	12.2		0	0	wt%	R477366	1
Client Sample ID: SB-7				Lab ID:	2202G57-004		
Collection Date: 2/11/2022 10:10:00 AM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH)	SW9045D			(SW9045D)			
pH	5.00	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL	SW6010D			(SW3050B)			
Chromium	1.53	J	0.609	1.65	mg/Kg-dry	330880	1
Cobalt	0.150	J	0.0829	1.65	mg/Kg-dry	330880	1
Lead	1.84	J	0.289	3.29	mg/Kg-dry	330880	1
Nickel	0.387	J	0.203	3.29	mg/Kg-dry	330880	1
PERCENT MOISTURE	D2216						
Percent Moisture	11.5		0	0	wt%	R477366	1
Client Sample ID: SB-8				Lab ID:	2202G57-005		

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Collection Date: 2/11/2022 10:50:00 AM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			
pH	4.99	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL SW6010D				(SW3050B)			
Chromium	1.56	J	0.611	1.65	mg/Kg-dry	330880	1
Cobalt	0.119	J	0.0831	1.65	mg/Kg-dry	330880	1
Lead	1.84	J	0.290	3.30	mg/Kg-dry	330880	1
PERCENT MOISTURE D2216							
Percent Moisture	8.82		0	0	wt%	R477366	1
Client Sample ID: SB-9				Lab ID:	2202G57-006		
Collection Date: 2/11/2022 11:20:00 AM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			
pH	4.65	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL SW6010D				(SW3050B)			
Chromium	5.34		0.993	2.68	mg/Kg-dry	330880	1
Cobalt	0.325	J	0.135	2.68	mg/Kg-dry	330880	1
Lead	5.70		0.471	5.36	mg/Kg-dry	330880	1
PERCENT MOISTURE D2216							
Percent Moisture	27.5		0	0	wt%	R477366	1
Client Sample ID: SB-10				Lab ID:	2202G57-007		
Collection Date: 2/11/2022 11:55:00 AM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			
pH	5.04	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL SW6010D				(SW3050B)			
Chromium	1.64		0.582	1.57	mg/Kg-dry	330880	1
Cobalt	0.0886	J	0.0791	1.57	mg/Kg-dry	330880	1
Lead	1.30	J	0.276	3.14	mg/Kg-dry	330880	1
PERCENT MOISTURE D2216							
Percent Moisture	8.52		0	0	wt%	R477366	1
Client Sample ID: SB-11				Lab ID:	2202G57-008		
Collection Date: 2/11/2022 12:45:00 PM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			
pH	5.16	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL SW6010D				(SW3050B)			
Chromium	3.38		0.638	1.72	mg/Kg-dry	330880	1
Cobalt	0.328	J	0.0867	1.72	mg/Kg-dry	330880	1
Lead	3.52		0.302	3.44	mg/Kg-dry	330880	1
Nickel	0.801	J	0.212	3.44	mg/Kg-dry	330880	1
PERCENT MOISTURE D2216							
Percent Moisture	12.1		0	0	wt%	R477366	1
Client Sample ID: SB-12				Lab ID:	2202G57-009		
Collection Date: 2/11/2022 1:40:00 PM				Matrix:	Soil		
Total Mercury by SW7473				(SW7473)			
Mercury	0.0559	J	0.0477	0.110	mg/Kg-dry	330912	1
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: SB-12				Lab ID:	2202G57-009		
Collection Date: 2/11/2022 1:40:00 PM				Matrix:	Soil		
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)			
pH	5.00	H	0.01	0.01	pH Units	331000	1
METALS, TOTAL SW6010D				(SW3050B)			
Arsenic	2.81		0.751	2.49	mg/Kg-dry	330880	1
Chromium	22.2		0.924	2.49	mg/Kg-dry	330880	1
Cobalt	0.391	J	0.126	2.49	mg/Kg-dry	330880	1
Lead	6.12		0.438	4.99	mg/Kg-dry	330880	1
PERCENT MOISTURE D2216							
Percent Moisture	28.0		0	0	wt%	R477366	1
Client Sample ID: FSP-1				Lab ID:	2202G57-010		
Collection Date: 2/11/2022 8:00:00 AM				Matrix:	Groundwater		
Nitrogen, Ammonia (as N) E350.1				(E350.1)			
Nitrogen, Ammonia (As N)	0.022		0.018	0.020	mg/L	331040	1
Hydrogen Ion (pH) by SM4500H+B							
pH	4.80	H	0.0100	0.0100	pH Units	R477495	1
METALS, TOTAL SW6010D				(SW3010A)			
Manganese	0.0054	J	0.0012	0.0150	mg/L	330879	1
Client Sample ID: FSP-2				Lab ID:	2202G57-011		
Collection Date: 2/11/2022 9:00:00 AM				Matrix:	Groundwater		
Nitrogen, Ammonia (as N) E350.1				(E350.1)			
Nitrogen, Ammonia (As N)	0.578		0.018	0.020	mg/L	331040	1
Hydrogen Ion (pH) by SM4500H+B							
pH	6.26	H	0.0100	0.0100	pH Units	R477495	1
METALS, TOTAL SW6010D				(SW3010A)			
Cobalt	0.0015	J	0.0012	0.0200	mg/L	330879	1
Manganese	0.187		0.0012	0.0150	mg/L	330879	1
Nickel	0.0085	J	0.0051	0.0200	mg/L	330879	1
Client Sample ID: FSP-3				Lab ID:	2202G57-012		
Collection Date: 2/11/2022 9:30:00 AM				Matrix:	Groundwater		
Nitrogen, Ammonia (as N) E350.1				(E350.1)			
Nitrogen, Ammonia (As N)	0.204		0.018	0.020	mg/L	331040	1
ION SCAN SW9056A							
Fluoride	0.25		0.20	0.20	mg/L	R477806	1
Hydrogen Ion (pH) by SM4500H+B							
pH	6.39	H	0.0100	0.0100	pH Units	R477495	1
METALS, TOTAL SW6010D				(SW3010A)			
Cobalt	0.0129	J	0.0012	0.0200	mg/L	330879	1
Manganese	0.811		0.0012	0.0150	mg/L	330879	1
Nickel	0.171		0.0051	0.0200	mg/L	330879	1

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
N	Analyte not NELAC certified			F	Analyzed in the lab which is a deviation from the method		
B	Analyte detected in the associated method blank			<	Less than Result value		
>	Greater than Result value			J	Estimated value detected below Reporting Limit		

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **TERRACON** _____

AES Work Order Number: **2202G57** _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 2.0 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). CH 2/12/2022

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials). CH 2/12/2022

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* 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.

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

I certify that I have completed sections 28-30 (dated initials). CH 2/12/2022

Locked

Client: Terracon Consultants
 Project Name: Blythewood Ind. Park
 Lab Order: 2202G57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2202G57-001A	SB-4	2/11/2022 7:15:00AM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022
2202G57-001A	SB-4	2/11/2022 7:15:00AM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-001A	SB-4	2/11/2022 7:15:00AM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-001A	SB-4	2/11/2022 7:15:00AM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-002A	SB-5	2/11/2022 7:50:00AM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022
2202G57-002A	SB-5	2/11/2022 7:50:00AM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-002A	SB-5	2/11/2022 7:50:00AM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-002A	SB-5	2/11/2022 7:50:00AM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-003A	SB-6	2/11/2022 9:05:00AM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022
2202G57-003A	SB-6	2/11/2022 9:05:00AM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-003A	SB-6	2/11/2022 9:05:00AM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-003A	SB-6	2/11/2022 9:05:00AM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-004A	SB-7	2/11/2022 10:10:00AM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022
2202G57-004A	SB-7	2/11/2022 10:10:00AM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-004A	SB-7	2/11/2022 10:10:00AM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-004A	SB-7	2/11/2022 10:10:00AM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-005A	SB-8	2/11/2022 10:50:00AM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022
2202G57-005A	SB-8	2/11/2022 10:50:00AM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-005A	SB-8	2/11/2022 10:50:00AM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-005A	SB-8	2/11/2022 10:50:00AM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-006A	SB-9	2/11/2022 11:20:00AM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022
2202G57-006A	SB-9	2/11/2022 11:20:00AM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-006A	SB-9	2/11/2022 11:20:00AM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-006A	SB-9	2/11/2022 11:20:00AM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-007A	SB-10	2/11/2022 11:55:00AM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022
2202G57-007A	SB-10	2/11/2022 11:55:00AM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-007A	SB-10	2/11/2022 11:55:00AM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-007A	SB-10	2/11/2022 11:55:00AM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-008A	SB-11	2/11/2022 12:45:00PM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022

Client: Terracon Consultants
 Project Name: Blythewood Ind. Park
 Lab Order: 2202G57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2202G57-008A	SB-11	2/11/2022 12:45:00PM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-008A	SB-11	2/11/2022 12:45:00PM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-008A	SB-11	2/11/2022 12:45:00PM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-009A	SB-12	2/11/2022 1:40:00PM	Soil	TOTAL METALS BY ICP		2/15/2022 8:11:00AM	02/15/2022
2202G57-009A	SB-12	2/11/2022 1:40:00PM	Soil	Mercury by SW7473		2/15/2022 10:39:10AM	02/15/2022
2202G57-009A	SB-12	2/11/2022 1:40:00PM	Soil	Laboratory Hydrogen Ion (pH)		2/16/2022 9:05:00AM	02/16/2022
2202G57-009A	SB-12	2/11/2022 1:40:00PM	Soil	PERCENT MOISTURE			02/14/2022
2202G57-010A	FSP-1	2/11/2022 8:00:00AM	Groundwater	ION SCAN			02/16/2022
2202G57-010A	FSP-1	2/11/2022 8:00:00AM	Groundwater	Hydrogen Ion (pH) by SM4500 H+ B			02/14/2022
2202G57-010B	FSP-1	2/11/2022 8:00:00AM	Groundwater	TOTAL METALS BY ICP		2/15/2022 8:40:00AM	02/15/2022
2202G57-010C	FSP-1	2/11/2022 8:00:00AM	Groundwater	Nitrogen, Ammonia (as N)		2/17/2022 7:00:00AM	02/17/2022
2202G57-011A	FSP-2	2/11/2022 9:00:00AM	Groundwater	ION SCAN			02/16/2022
2202G57-011A	FSP-2	2/11/2022 9:00:00AM	Groundwater	Hydrogen Ion (pH) by SM4500 H+ B			02/14/2022
2202G57-011B	FSP-2	2/11/2022 9:00:00AM	Groundwater	TOTAL METALS BY ICP		2/15/2022 8:40:00AM	02/15/2022
2202G57-011C	FSP-2	2/11/2022 9:00:00AM	Groundwater	Nitrogen, Ammonia (as N)		2/17/2022 7:00:00AM	02/17/2022
2202G57-012A	FSP-3	2/11/2022 9:30:00AM	Groundwater	ION SCAN			02/16/2022
2202G57-012A	FSP-3	2/11/2022 9:30:00AM	Groundwater	Hydrogen Ion (pH) by SM4500 H+ B			02/14/2022
2202G57-012B	FSP-3	2/11/2022 9:30:00AM	Groundwater	TOTAL METALS BY ICP		2/15/2022 8:40:00AM	02/15/2022
2202G57-012C	FSP-3	2/11/2022 9:30:00AM	Groundwater	Nitrogen, Ammonia (as N)		2/17/2022 7:00:00AM	02/17/2022

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202G57

ANALYTICAL QC SUMMARY REPORT

BatchID: 330879

Sample ID: MB-330879	Client ID:	Units: mg/L	Prep Date: 02/15/2022	Run No: 477677							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 330879	Analysis Date: 02/15/2022	Seq No: 11034851							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cobalt	BRL	0.0200									
Manganese	BRL	0.0150									
Nickel	BRL	0.0200									

Sample ID: LCS-330879	Client ID:	Units: mg/L	Prep Date: 02/15/2022	Run No: 477677							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 330879	Analysis Date: 02/15/2022	Seq No: 11034854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cobalt	1.061	0.0200	1.000		106	80	120				
Manganese	1.057	0.0150	1.000		106	80	120				
Nickel	1.074	0.0200	1.000		107	80	120				

Sample ID: 2202F22-001BMS	Client ID:	Units: mg/L	Prep Date: 02/15/2022	Run No: 477677							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 330879	Analysis Date: 02/15/2022	Seq No: 11034856							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cobalt	1.070	0.0200	1.000	0.003780	107	75	125				
Manganese	1.068	0.0150	1.000	0.006540	106	75	125				
Nickel	1.080	0.0200	1.000		108	75	125				

Sample ID: 2202F22-001BMSD	Client ID:	Units: mg/L	Prep Date: 02/15/2022	Run No: 477677							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 330879	Analysis Date: 02/15/2022	Seq No: 11034857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cobalt	1.048	0.0200	1.000	0.003780	104	75	125	1.070	2.14	20	
Manganese	1.045	0.0150	1.000	0.006540	104	75	125	1.068	2.22	20	
Nickel	1.054	0.0200	1.000		105	75	125	1.080	2.40	20	

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202G57

ANALYTICAL QC SUMMARY REPORT

BatchID: 330880

Sample ID: MB-330880	Client ID:	Units: mg/Kg	Prep Date: 02/15/2022	Run No: 477669							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 330880	Analysis Date: 02/15/2022	Seq No: 11034785							
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									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Cobalt	BRL	2.50									
Lead	BRL	5.00									
Nickel	BRL	5.00									

Sample ID: LCS-330880	Client ID:	Units: mg/Kg	Prep Date: 02/15/2022	Run No: 477669							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 330880	Analysis Date: 02/15/2022	Seq No: 11034786							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	45.88	2.50	50.00		91.8	80	120				
Cadmium	47.65	2.50	50.00		95.3	80	120				
Chromium	50.79	2.50	50.00		102	80	120				
Cobalt	50.55	2.50	50.00		101	80	120				
Lead	49.01	5.00	50.00		98.0	80	120				
Nickel	51.10	5.00	50.00		102	80	120				

Sample ID: 2202C47-001BMS	Client ID:	Units: mg/Kg-dry	Prep Date: 02/15/2022	Run No: 477669							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 330880	Analysis Date: 02/15/2022	Seq No: 11034790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	34.03	2.08	41.68		81.7	75	125				
Cadmium	39.74	2.08	41.68	0.3797	94.4	75	125				
Chromium	51.20	2.08	41.68	7.890	104	75	125				
Cobalt	41.23	2.08	41.68	0.5497	97.6	75	125				
Lead	53.22	4.17	41.68	13.20	96.0	75	125				
Nickel	42.51	4.17	41.68	1.025	99.5	75	125				

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202G57

ANALYTICAL QC SUMMARY REPORT

BatchID: 330880

Sample ID: 2202C47-001BMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 02/15/2022	Run No: 477669							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 330880	Analysis Date: 02/15/2022	Seq No: 11034792							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	34.15	2.09	41.81		81.7	75	125	34.03	0.337	20	
Cadmium	40.15	2.09	41.81	0.3797	95.1	75	125	39.74	1.03	20	
Chromium	51.92	2.09	41.81	7.890	105	75	125	51.20	1.40	20	
Cobalt	41.68	2.09	41.81	0.5497	98.4	75	125	41.23	1.09	20	
Lead	52.72	4.18	41.81	13.20	94.5	75	125	53.22	0.943	20	
Nickel	43.02	4.18	41.81	1.025	100	75	125	42.51	1.20	20	

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202G57

ANALYTICAL QC SUMMARY REPORT

BatchID: 330912

Sample ID: MB-330912	Client ID:	Units: mg/Kg	Prep Date: 02/15/2022	Run No: 477632							
SampleType: MBLK	TestCode: Total Mercury by SW7473	BatchID: 330912	Analysis Date: 02/15/2022	Seq No: 11032252							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury

BRL 0.100

Sample ID: LCS-330912	Client ID:	Units: mg/Kg	Prep Date: 02/15/2022	Run No: 477632							
SampleType: LCS	TestCode: Total Mercury by SW7473	BatchID: 330912	Analysis Date: 02/15/2022	Seq No: 11032251							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury

0.8872 0.100 1.000 88.7 80 120

Sample ID: 2202B31-006AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 02/15/2022	Run No: 477632							
SampleType: MS	TestCode: Total Mercury by SW7473	BatchID: 330912	Analysis Date: 02/15/2022	Seq No: 11032271							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury

2.537 0.112 1.120 1.261 114 80 120

Sample ID: 2202B31-006AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 02/15/2022	Run No: 477632							
SampleType: MSD	TestCode: Total Mercury by SW7473	BatchID: 330912	Analysis Date: 02/15/2022	Seq No: 11032272							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury

1.774 0.112 1.120 1.261 45.8 80 120 2.537 35.4 20 SR

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202G57

ANALYTICAL QC SUMMARY REPORT

BatchID: 331000

Sample ID: LCS-331000	Client ID:	Units: pH Units	Prep Date: 02/16/2022	Run No: 477702							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 331000	Analysis Date: 02/16/2022	Seq No: 11033709							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 6.998 0.01 7.000 100.0 90 110

Sample ID: 2202F25-001ADUP	Client ID:	Units: pH Units	Prep Date: 02/16/2022	Run No: 477702							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 331000	Analysis Date: 02/16/2022	Seq No: 11033739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 5.536 0.01 5.589 0.953 10 H

Sample ID: 2202G57-001ADUP	Client ID: SB-4	Units: pH Units	Prep Date: 02/16/2022	Run No: 477702							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 331000	Analysis Date: 02/16/2022	Seq No: 11033714							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 4.983 0.01 5.069 1.71 10 H

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202G57

ANALYTICAL QC SUMMARY REPORT

BatchID: 331040

Sample ID: MB-331040	Client ID:	Units: mg/L	Prep Date: 02/17/2022	Run No: 477761							
SampleType: MBLK	TestCode: Nitrogen, Ammonia (as N) E350.1	BatchID: 331040	Analysis Date: 02/17/2022	Seq No: 11037577							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) BRL 0.020

Sample ID: LCS-331040	Client ID:	Units: mg/L	Prep Date: 02/17/2022	Run No: 477761							
SampleType: LCS	TestCode: Nitrogen, Ammonia (as N) E350.1	BatchID: 331040	Analysis Date: 02/17/2022	Seq No: 11037578							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 0.4992 0.020 0.5000 99.8 90 110

Sample ID: 2202C51-001AMS	Client ID:	Units: mg/L	Prep Date: 02/17/2022	Run No: 477761							
SampleType: MS	TestCode: Nitrogen, Ammonia (as N) E350.1	BatchID: 331040	Analysis Date: 02/17/2022	Seq No: 11037614							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 0.5127 0.020 0.5000 103 90 110

Sample ID: 2202C75-004AMS	Client ID:	Units: mg/L	Prep Date: 02/17/2022	Run No: 477761							
SampleType: MS	TestCode: Nitrogen, Ammonia (as N) E350.1	BatchID: 331040	Analysis Date: 02/17/2022	Seq No: 11037619							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 0.5480 0.020 0.5000 0.04340 101 90 110

Sample ID: 2202C51-001AMSD	Client ID:	Units: mg/L	Prep Date: 02/17/2022	Run No: 477761							
SampleType: MSD	TestCode: Nitrogen, Ammonia (as N) E350.1	BatchID: 331040	Analysis Date: 02/17/2022	Seq No: 11037617							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 0.5151 0.020 0.5000 103 90 110 0.5127 0.467 30

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202G57

ANALYTICAL QC SUMMARY REPORT

BatchID: R477495

Sample ID: LCS-R477495	Client ID:	Units: pH Units	Prep Date:	Run No: 477495							
SampleType: LCS	TestCode: Hydrogen Ion (pH) by SM4500H+B	BatchID: R477495	Analysis Date: 02/14/2022	Seq No: 11027884							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.010 0.0100 7.000 100 90 110

Sample ID: 2202C37-001ADUP	Client ID:	Units: pH Units	Prep Date:	Run No: 477495							
SampleType: DUP	TestCode: Hydrogen Ion (pH) by SM4500H+B	BatchID: R477495	Analysis Date: 02/14/2022	Seq No: 11027891							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 10.50 0.0100 10.51 0.048 20

Sample ID: 2202G57-010ADUP	Client ID: FSP-1	Units: pH Units	Prep Date:	Run No: 477495							
SampleType: DUP	TestCode: Hydrogen Ion (pH) by SM4500H+B	BatchID: R477495	Analysis Date: 02/14/2022	Seq No: 11027931							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 4.769 0.0100 4.795 0.544 20

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

Client: Terracon Consultants
Project Name: Blythewood Ind. Park
Workorder: 2202G57

ANALYTICAL QC SUMMARY REPORT

BatchID: R477806

Sample ID: MB-R477806	Client ID:	Units: mg/L	Prep Date:	Run No: 477806							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R477806	Analysis Date: 02/16/2022	Seq No: 11036673							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Fluoride BRL 0.20

Sample ID: LCS-R477806	Client ID:	Units: mg/L	Prep Date:	Run No: 477806							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R477806	Analysis Date: 02/16/2022	Seq No: 11036671							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Fluoride 4.942 0.20 5.000 98.8 90 110

Sample ID: 2202G57-011AMS	Client ID: FSP-2	Units: mg/L	Prep Date:	Run No: 477806							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R477806	Analysis Date: 02/16/2022	Seq No: 11036701							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Fluoride 5.153 0.20 5.000 103 90 110

Sample ID: 2202G57-011AMSD	Client ID: FSP-2	Units: mg/L	Prep Date:	Run No: 477806							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R477806	Analysis Date: 02/16/2022	Seq No: 11036708							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Fluoride 5.258 0.20 5.000 105 90 110 5.153 2.02 20

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

End of Report



ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT:

Terracon
521 Clemson Road
Columbia, SC 29229

PROJECT:

Blythewood Industries

REPORT DATE:

02.17.22

REPORT APPROVED BY:

Bryant W. Boyd
Laboratory Manager

bryant@axs-inc.com

Any questions related to this report should be directed to Access Analytical, Inc. via phone at 803.781.4243 or via email at the address listed above.

- South Carolina DHEC state lab certification #: 32571001
- Florida – DOH national NELAP lab accreditation #: E871145



Access Analytical, Inc.
15 Thames Valley Rd. ~ Irmo, SC 29063
PHONE: 803.781.4243 ~ FAX: 803.781.4303 ~ WEB: www.axs-inc.com



Report of Analysis

Lab ID #: 41544-001

Project: Blythewood Industries

Sample Name: SW-1

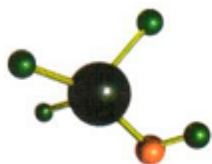
Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 10:30

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	36.0	20	mg/L	HACH 8000 (1979)		2/16/2022 14:01	AMM
pH	4.44	None	SU	SM 4500 HB-2011	H	2/16/2022 13:34	MML



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Report of Analysis

Lab ID #: 41544-002

Project: Blythewood Industries

Sample Name: SW-2

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 10:35

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	19	20	mg/L	HACH 8000 (1979)	J	2/16/2022 14:01	AMM
pH	5.12	None	SU	SM 4500 HB-2011	H	2/16/2022 13:37	MML



Report of Analysis

Lab ID #: 41544-003

Project: Blythewood Industries

Sample Name: SW-4

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 11:20

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	17	20	mg/L	HACH 8000 (1979)	J	2/16/2022 14:01	AMM
pH	3.93	None	SU	SM 4500 HB-2011	H	2/16/2022 13:45	MML



Report of Analysis

Lab ID #: 41544-004

Project: Blythewood Industries

Sample Name: SW-5

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 12:00

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	31.0	20	mg/L	HACH 8000 (1979)		2/16/2022 14:01	AMM
pH	3.98	None	SU	SM 4500 HB-2011	H	2/16/2022 13:52	MML



Report of Analysis

Lab ID #: 41544-005

Project: Blythewood Industries

Sample Name: SW-6

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 12:00

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	17	20	mg/L	HACH 8000 (1979)	J	2/16/2022 14:01	AMM
pH	4.69	None	SU	SM 4500 HB-2011	H	2/16/2022 13:55	MML



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Report of Analysis

Lab ID #: 41544-006

Project: Blythewood Industries

Sample Name: SW-7

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 12:15

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	19	20	mg/L	HACH 8000 (1979)	J	2/16/2022 14:01	AMM
pH	4.01	None	SU	SM 4500 HB-2011	H	2/16/2022 14:00	MML



Report of Analysis

Lab ID #: 41544-007

Project: Blythewood Industries

Sample Name: SW-8

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 12:05

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	0.0175	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	26.0	20	mg/L	HACH 8000 (1979)		2/16/2022 14:01	AMM
pH	4.99	None	SU	SM 4500 HB-2011	H	2/16/2022 14:05	MML



ACCESS
ANALYTICAL, INC.

Report of Analysis

Lab ID #: 41544-008

Project: Blythewood Industries

Sample Name: SW-9

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 12:20

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	19	20	mg/L	HACH 8000 (1979)	J	2/16/2022 14:01	AMM
pH	4.26	None	SU	SM 4500 HB-2011	H	2/16/2022 14:30	MML



ACCESS
ANALYTICAL, INC.

Report of Analysis

Lab ID #: 41544-009

Project: Blythewood Industries

Sample Name: SW-10

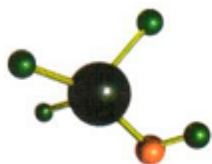
Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 12:35

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	33.0	20	mg/L	HACH 8000 (1979)		2/16/2022 14:01	AMM
pH	4.11	None	SU	SM 4500 HB-2011	H	2/16/2022 14:35	MML



Report of Analysis

Lab ID #: 41544-010

Project: Blythewood Industries

Sample Name: SW-11

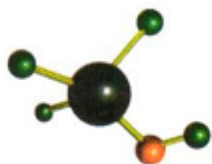
Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 12:40

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	0.0871	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	26.0	20	mg/L	HACH 8000 (1979)		2/16/2022 14:01	AMM
pH	5.36	None	SU	SM 4500 HB-2011	H	2/16/2022 14:40	MML



ACCESS
ANALYTICAL, INC.

Report of Analysis

Lab ID #: 41544-011

Project: Blythewood Industries

Sample Name: SW-12

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 12:45

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	19	20	mg/L	HACH 8000 (1979)	J	2/16/2022 14:01	AMM
pH	3.95	None	SU	SM 4500 HB-2011	H	2/16/2022 13:30	MML



Report of Analysis

Lab ID #: 41544-012

Project: Blythewood Industries

Sample Name: SW-3

Client ID #:

Matrix: Waste Water

Collected: 2/10/2022 @ 11:45

Date Received: 2/10/2022 @ 14:20

Parameter	Result	MRL *	Units	Method Reference	Data Flag *	Date/Time of Analysis	Analyst
% Solids	<1	None	%	SM 2540 G		2/11/2022 11:29	JRS
Ammonia-N	<0.015	0.1	mg/L	SM 4500-NH3 D-2011	J	2/15/2022 9:59	AMM
COD	24.0	20	mg/L	HACH 8000 (1979)		2/16/2022 14:01	AMM
pH	4.38	None	SU	SM 4500 HB-2011	H	2/16/2022 14:45	MML



Laboratory Endorsement / Definitions

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency, Standard Methods or other recognized agencies.

*** Common abbreviations that may be utilized in this report:**

ND	Indicates the result was Not Detected at the specified reporting limit
"<"	Indicated the result as less than the indicated amount
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous to Count
SUB	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
DF	Dilution Factor
MRL	The minimum reporting limit (MRL) is defined as the minimum quantifiable concentration of a given analyte in a sample.
MDL	Calculated minimum detection limit
PQL	Practical Quantitation Limit
RE	Re-analysis

*** Reporting flags that may be utilized in this report:**

J	Indicates the result is between the MDL and MRL and considered to be an estimated result
MB	Indicates the analyte was detected in the associated Method Blank
H	Indicates the recommended holding time was exceeded
*	Indicates a non-compliant or not applicable QC recovery or RPD
A	BOD or CBOD GGA check value for this sample did not meet acceptance criteria.
B	BOD or CBOD blank depletion did not meet acceptance criteria.
C	Indicates the spike % recovery was not acceptable.
D	Indicates the duplicate % difference was not acceptable.
E	Toxicity is apparent in the sample.

Sample receipt at Access Analytical is documented through the attached chain of custody. In accordance with laboratory protocol, this report shall be reproduced only in full and with the written permission of Access Analytical, Inc.. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the attached report and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.



Sample Receipt

Were samples received on ice?	YES
Were samples received within required temperature limits?	YES
Are the number of samples the same as stated on the chain of custody?	YES
Are samples submitted with a correct and complete chain of custody?	YES
Are bottle caps tight and securely in place, coolers and samples intact?	YES
Are the correct sample containers provided?	YES
Were samples within the holding time for requested test(s)?	YES
Is the volume of sample submitted sufficient for the requested test(s)?	YES
Is there sufficient air space in bottle for bacteriological analysis?	n/a
Were samples received with applicable preservative?	YES

Login Comments

Sample 41544-001:

pH received out of 15 minute hold time. Proceed with analysis.



Chain of Custody Record																																																																																									
Access Lab Report #: <u>41544</u> Sub Lab (if applicable): _____ / Sub Report #: _____ Client Purchase Order #: _____ Access Estimate #: _____	Access Analytical, Inc. 15 Thames Valley Rd. ~ Irmo, SC 29063 Phone: 803-781-4243 / Fax: 803-781-4303 / www.axs-inc.com SCDHEC Lab Certification # 32571 NELAC Lab ID # E871145																																																																																								
Client: <u>Terracon Consultants, Inc.</u> Attn: <u>Walker Hinson</u> Address: <u>521 Clemson Rd</u> City: <u>Columbia</u> State: <u>SC</u> Zip Code: <u>29229</u> Phone: <u>803-729-7673</u> Fax: _____ Email: _____ Project Name: <u>Walker, Hinson & Termon, com</u> Blytheood Industrial Sampled By (Signature): <u>[Signature]</u>	Preservatives (see codes): Bottle Types (see codes): REQUESTED LAB ANALYSIS: _____																																																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample Name</th> <th>Date Collected</th> <th>Time Collected</th> <th>Co-Comp (Count)</th> <th>Matrix (See Code)</th> <th>Program Area (See Code)</th> <th>Total # Containers</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>SW-1</td> <td>2/10/22</td> <td>1030</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>002</td> <td>SW-2</td> <td>2/10/22</td> <td>1035</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>003</td> <td>SW-3</td> <td>2/10/22</td> <td>1055</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>004</td> <td>SW-4</td> <td>2/10/22</td> <td>1120</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>005</td> <td>SW-5</td> <td>2/10/22</td> <td>1200</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>006</td> <td>SW-6</td> <td>2/10/22</td> <td>1200</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>007</td> <td>SW-7</td> <td>2/10/22</td> <td>1215</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>008</td> <td>SW-8</td> <td>2/10/22</td> <td>1205</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>009</td> <td>SW-9</td> <td>2/10/22</td> <td>1220</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> <tr> <td>010</td> <td>SW-10</td> <td>2/10/22</td> <td>1235</td> <td>6</td> <td>SW</td> <td>SW</td> <td>3</td> </tr> </tbody> </table>	Lab ID	Sample Name	Date Collected	Time Collected	Co-Comp (Count)	Matrix (See Code)	Program Area (See Code)	Total # Containers	001	SW-1	2/10/22	1030	6	SW	SW	3	002	SW-2	2/10/22	1035	6	SW	SW	3	003	SW-3	2/10/22	1055	6	SW	SW	3	004	SW-4	2/10/22	1120	6	SW	SW	3	005	SW-5	2/10/22	1200	6	SW	SW	3	006	SW-6	2/10/22	1200	6	SW	SW	3	007	SW-7	2/10/22	1215	6	SW	SW	3	008	SW-8	2/10/22	1205	6	SW	SW	3	009	SW-9	2/10/22	1220	6	SW	SW	3	010	SW-10	2/10/22	1235	6	SW	SW	3	Preservative Codes: 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = HNO3, 5 = HNO3, 6 = Method 3005 set, 7 = HNO3, 8 = HNO3, 9 = HNO3, 10 = HNO3, 11 = HNO3, 12 = Ascorbic Acid, 13 = EDN Matrix Codes: 0 = Ground water, 1 = Water, 2 = Drinking water, 3 = Surface water, 4 = Storm water, 5 = Soil, 6 = Sludge, 7 = Air, 8 = Industrial waste, 9 = Other (Specify in comments section) Program Area Codes: 0 = Clean Water Act (for drinking water), 1 = SWMA - Solid and Hazardous Wastes (for soils, ground water and waste samples) Container Type: G = Glass, P = Plastic
Lab ID	Sample Name	Date Collected	Time Collected	Co-Comp (Count)	Matrix (See Code)	Program Area (See Code)	Total # Containers																																																																																		
001	SW-1	2/10/22	1030	6	SW	SW	3																																																																																		
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004	SW-4	2/10/22	1120	6	SW	SW	3																																																																																		
005	SW-5	2/10/22	1200	6	SW	SW	3																																																																																		
006	SW-6	2/10/22	1200	6	SW	SW	3																																																																																		
007	SW-7	2/10/22	1215	6	SW	SW	3																																																																																		
008	SW-8	2/10/22	1205	6	SW	SW	3																																																																																		
009	SW-9	2/10/22	1220	6	SW	SW	3																																																																																		
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Turnaround Time Requested: _____ Project Location: SC / NC / Other (Specify): _____ Relinquished By: <u>[Signature]</u>	Date: _____ Time (24hr): _____ Samples Received on Ice: Y ___ N ___ / N/A ___ / N/A ___ / N/A ___																																																																																								
Standard: _____ Rush: * _____ Date Required: <u>2/17/2022</u> <small>Rush date is valid if based by end of business day on date required. Standard TAT is 7-10 business days.</small>	Received in lab by: <u>[Signature]</u> Sample Temp. Received in Lab: <u>0.5</u> (°C) Ref: RTI Ref: RTZ																																																																																								
Chain of Custody Page <u>1</u> of <u>2</u>																																																																																									
White Copy: Lab original / Canary Copy: Client Copy																																																																																									
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Chain of Custody Record	
Access Analytical, Inc. 15 Thames Valley Rd. ~ Irmo, SC 29063 Phone: 803-781-4243 / Fax: 803-781-4303 / www.axs-inc.com SCDHEC Lab Certification # 32571 NELAC Lab ID # EB71145	Access Analytical, Inc. 15 Thames Valley Rd. ~ Irmo, SC 29063 Phone: 803-781-4243 / Fax: 803-781-4303 / www.axs-inc.com SCDHEC Lab Certification # 32571 NELAC Lab ID # EB71145
Client: <u>Thoreen Consultants, Inc.</u> Attn: <u>Walker Hinson</u> Address: _____ City: _____ State: _____ Zip Code: _____ Phone: _____ Fax: _____ Email: _____ Project Name: <u>Blytheview Industrial</u> Sampled By (Signature): <u>[Signature]</u>	Preservatives (see codes): <u>0 3 3</u> Bottle Types (see codes): <u>P P P</u> REQUESTED LAB ANALYSIS: <u>PH + TS</u> Notes / Comments: <u>CG</u>
Lab ID: <u>010 SW-11</u> <u>011 SW-12</u> <u>012 SW-3</u>	Date Collected: <u>2/10/22</u> <u>2/10/22</u> <u>2/10/22</u>
Matrix: <u>SW</u> <u>SW</u> <u>SW</u>	Program Area (see codes): <u>SHW</u> <u>SHW</u> <u>SHW</u>
Containers per Test: <u>3</u> <u>3</u> <u>3</u>	Containers per Test: <u>3</u> <u>3</u> <u>3</u>
Turnaround Time Requested: _____ Project Location: <u>SC</u> <u>NC</u> Other (Specify): _____	Relinquished By: <u>[Signature]</u> Received By: _____ Date: _____ Time (24hr): _____ Samples Received on Ice: <u>Y N N/A</u> <u>Y N N/A</u> <u>Y N N/A</u> <u>Y N N/A</u>
Standard: _____ Rush: _____ *Date Required: <u>2/17/2022</u> <small>Rush date established by end of business day on date required. Standard TAT is 7-10 business days.</small>	Sample Temp. Received in Lab: <u>0.5</u> (°C) Ref: <u>RTI</u>
Chain of Custody Page <u>2</u> of <u>2</u>	
White Copy: Lab original / Canary Copy: Client Copy	
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**APPENDIX E –
COMMON ACRONYMS and ABBREVIATIONS**

ACRONYMS AND ABBREVIATIONS

µmhos/cm	micromhos per centimeter
AAI	All Appropriate Inquiry
ACM	Asbestos-Containing Material
AHERA	Asbestos Hazard Emergency Response Act
AICP	American Institute of Certified Planners
AIHA	American Industrial Hygiene Association
ARARs	Applicable or Relevant and Appropriate Requirements
ASAP	As Soon As Possible
AST	Aboveground Storage Tank
bgs	below ground surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CAD	Computer-Aided Drafting
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CFR	Code of Federal Regulations
CIH	Certified Industrial Hygienist
CORRACTS	RCRA TSD Corrective Action Facilities
CSM	Conceptual Site Model
CWM	Clear Wide Mouth Glass Jar
DNAPL	Dense Non-Aqueous Phase Liquid
DQO	Data Quality Objective
EDR	Environmental Data Resources, Inc.
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
ESC	Environmental Science Corporation
eV	electron-volt
f/cc	fibers per cubic centimeter of air
FOIA	Freedom of Information Act
GC	Gas Chromatograph
GIS	Geographical Information System
GPS	Geographical Positioning System
GRO	Ground water Remediation Objective
HCl	Hydrochloric Acid
HNO ₃	Nitric Acid
HUD	United States Department of Housing and Urban Development
IDW	Investigation Derived Waste
IMPDMENT	Impoundment
L	liter
LBP	Lead-Based Paint
LCS	Laboratory Control Sample
LNAPL	Light Non-Aqueous Phase Liquid
LQAP	Laboratory Quality Assurance Programs
LUST	Leaking Underground Storage Tank
mg/kg	milligrams per kilogram
mL	milliliter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NaOH	Sodium Hydroxide

ACRONYMS AND ABBREVIATIONS

NELAC	National Environmental Laboratory Accreditation Conference
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NFR	No Further Remediation
NIST	National Institute of Standards and Technology
NLLAP	National Lead Laboratory Accreditation Program
NTU	Nephelometric Turbidity Units
NVLAP	National Voluntary Laboratory Accreditation Program
OSHA	Occupational Health and Safety Administration
OVM	Organic Vapor Meter
oz	ounce
PAH	Polycyclic Aromatic Hydrocarbon
PARCCS	Precision, Accuracy, Representativeness, Completeness, Comparability, and Sensitivity
PCB	Polychlorinated Biphenyl
PE	Professional Engineer
PG	Professional Geologist
PLM	Polarized Light Microscopy
PQL	Practical Quantitation Limit
PVC	Polyvinyl Chloride
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RA	Remedial Applicant
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RO	Remediation Objective
RPD	Relative Percent Difference
SCDHEC	South Carolina Department of Health and Environmental Control
SIR	Site Investigation Report
SPLP	Synthetic Precipitation Leaching Procedure
SQG	Small Quantity Generator
SRO	Soil Remediation Objective
SRP	Site Remediation Program
Stat Analysis	Stat Analysis Corporation
SVOC	Semivolatile Organic Compound
TACO	Tiered Approach to Corrective Action Objectives
TCLP	Toxicity Characteristic Leaching Procedure
TSD	Treatment, Storage, and Disposal
TSOP	Terracon Standard Operating Procedure
UAS	United Analytical Services, Inc.
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound
VSP	Visual Sample Plan
XRF	X-Ray Fluorescence