HILLIS-CARNES
CAPITOL SERVICES

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DC CBE #LZ59057062019

March 6, 2020

Ms. Barbara Price
Coakley Williams Construction
7475 Wisconsin Avenue
Bethesda, Maryland 20814

RE: Subsurface Investigation
St. Elizabeth's Shelter Relocation
Sycamore Street, SE, DC 20032
Project No. A20009

Ms. Price:

Hillis-Carnes Capitol Services, PLLC (HCCS) has performed a Subsurface Investigation for Coakley Williams Construction ("Client"). The investigation was performed to further delineate the subsurface conditions in association with the St. Elizabeth's Shelter Relocation at the above-referenced property ("Site").

The Site is undeveloped and no structures are currently located on the Site. The Site generally consists of undeveloped and wooded land. Historically, the site vicinity was used as a landfill that reportedly consisted of storm sewer cleanings, street sweepings, road construction debris, and incinerator fly ash. Portions of the landfill area were closed in 1983, 1987, 1988, and the remaining area closed in 1989.

The proposed development of the Site includes the construction of a multi-level (five stories maximum) building with a partial basement to be utilized as a housing assistance center. The proposed building construction also includes deeper excavation for grade beams beneath the building and a deep foundation system. The future on-site building will be connected to the municipal water source. This construction plan will include the excavation of soils at the Site. The depth of excavation is variable across the Site. Generally, the depth of excavation ranges from relatively shallow to 30 feet, and may include deeper depths associated with the deep foundation system.

Background

Prior environmental assessments have been conducted at the Site, including Phase I Environmental Site Assessments (ESAs) in 2012 (by others) and 2018 and a Phase II ESA in 2018 (by HCCS). A summary of the major components of the findings is as follows:

Sampling in the vicinity of the fill area was conducted in 1984 and 1985, which resulted in the detection of Chlorinated Dioxins and Furans in the ash fill and PCB-1260 in the pond sediments. It is our understanding that the pond is not located within the proposed boundaries of the site redevelopment. Additionally, one composite soil sample was collected from the fill ash in 2008. The results of the 2008 sample were reportedly below the RCRA hazardous waste limits for the metals and Semi-Volatile Organic Compounds that were analyzed.

During the Phase II ESA, soil samples were collected and analyzed for various parameters including volatile organic compounds (VOCs), Semi-VOCs, total petroleum hydrocarbons for diesel and gasoline range organics (TPH-DRO and TPH-GRO), Priority Pollutant Heavy Metals, hexavalent chromium, total cyanide, Polychlorinated Biphenyls (PCBs), Dioxins and Furans, and full Toxicity Characteristic Leaching Procedure (TCLP) including VOCs, SVOCs, Chlorinated Pesticides, Chlorinated Herbicides, and Priority Pollutant Metals.

Evidence of impacted soils was not apparent during the probing activity (i.e., no odors or staining were observed). In addition, no Photoionization Detector (PID) readings above background levels were detected in the soil intervals observed. Further, laboratory analyses of the soil samples did not reveal the presence of TPH-GRO, VOCs, PCBs, and TCLP SVOCs, TCLP VOCs, TCLP pesticides, and TCLP herbicides at concentrations exceeding the laboratory's practical quantitation limits.

Certain Priority Pollutant Metals, including Hexavalent Chromium, certain TCLP Metals, certain SVOCs, Total Cyanide, and Dioxins and Furans were detected in one or more of the soil samples analyzed. With the exception of Hexavalent Chromium, TPH-DRO, and certain Dioxins, the detected concentrations were below the applicable screening level standards. The concentrations of Hexavalent Chromium in boring P-2, TPH-DRO in borings P-3 and P-4, and certain Dioxins in borings P-3 and P-4 were above the applicable screening level standards

Scope of Work

HCCS conducted a subsurface exploration consisting of four Standard Penetration Test (SPT) soil borings to depths of up to 35 feet below existing grade. In addition to the subsurface investigation, in-situ infiltration testing was performed at six locations. The in-situ testing was performed using SPT soil borings to a depth of up to 10 feet below existing grade. Soil samples were collected from seven of the ten boring locations. Soil samples were not collected from three of the boring locations due to their close proximity to sample locations collected during the 2018 Phase II ESA. The boring identification and sampling depths for each of the borings is as follows:

Subsurface Exploration (up to 35 ft)

- 1124 – 2.5 ft, 13.5 ft, and 23.5 ft
- 1127 – 8.5 ft, 18.5 ft, and 28.5 ft
- 1128 – 2.5 ft, 13.5 ft, and 32.0 ft
- 1129 – 8.5 ft, 18.5 ft, and 28.5 ft

In-Situ Testing (up to 10 ft)

- 1125 – 3-4 ft and 7-8 ft
- 1134 – 3-4 ft and 8-9 ft
- 1135 – 3-4 ft and 7-8 ft

The eighteen (18) soil samples were collected using a split barrel sampler and placed in laboratory provided glassware. The split barrel was cleaned prior to each sample interval. The samples were placed on ice in a cooler and delivered to a laboratory for analyses.

Laboratory Analyses

As previously reported, eighteen samples were collected for laboratory analyses. Based on the results of the 2018 Phase II ESA, the samples were analyzed for Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO) via EPA Method 8015, Hexavalent Chromium via EPA Method 7196, and Dioxins/Furans. It should be noted that at the time of completion of this letter, the results for the dioxins/furans have not been received from the laboratory.

According to the laboratory report (see attachment), hexavalent chromium was not detected in any of the soil samples. TPH-DRO was not detected in four of the eighteen samples. Concentrations of TPH-DRO was detected in the remaining fourteen samples. TPH-DRO was detected at concentrations greater than the Residential Regional Screening Levels (RSL) of 100 parts per million (ppm) in eight of the soil samples.

It is anticipated that impacted soils will be encountered during site excavation activity associated with the redevelopment project. The results of this subsurface investigation will be used to delineate both the horizontal and vertical extents of impacted soils at the Site.

If you have any questions regarding the report, the terms of reliance, or any other matter, please do not hesitate to contact me at 410-880-4788.

Sincerely,
HILLIS-CARNES ENGINEERING ASSOCIATES, INC.

Robert W. Pushman
Environmental Project Manager
rpushman@hcea.com

Keith M. Progin
Senior Environmental Project Manager
kprogin@hcea.com

Attachment – Laboratory Report

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
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March 4, 2020

Mr. Keith Progin
Hillis-Carnes Engineering Associates
10975 Guilford Road
Suite A
Annapolis Junction, MD 20701

Certificate of Analysis

Project Name:	**2020-St. Elizabeth**	Workorder:	**3087059**
Purchase Order:	**18344C**	Workorder ID:	**2020-St. Elizabeth**

Dear Mr. Progin:

Enclosed are the analytical results for samples received by the laboratory on Monday, February 17, 2020.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Denise Price

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Ms. Sarah S Leung
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3087059 2020-St. Elizabeth

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3087059001	1124 2.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059002	1124 13.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059003	1124 23.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059004	1125 3'-4'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059005	1125 7'-8'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059006	1127 8.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059007	1127 18.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059008	1127 28.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059009	1128 2.5'	Solid	2/10/2020 00:00	2/17/2020 21:00	Collected by Client
3087059010	1128 13.5'	Solid	2/10/2020 00:00	2/17/2020 21:00	Collected by Client
3087059011	1128 32'	Solid	2/10/2020 00:00	2/17/2020 21:00	Collected by Client
3087059012	1129 8.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059013	1129 18.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059014	1129 28.5'	Solid	2/12/2020 00:00	2/17/2020 21:00	Collected by Client
3087059015	1134 3'-4'	Solid	2/13/2020 00:00	2/17/2020 21:00	Collected by Client
3087059016	1134 8'-9'	Solid	2/13/2020 00:00	2/17/2020 21:00	Collected by Client
3087059017	1135 3'-4'	Solid	2/13/2020 00:00	2/17/2020 21:00	Collected by Client
3087059018	1135 7'-8'	Solid	2/13/2020 00:00	2/17/2020 21:00	Collected by Client

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SAMPLE SUMMARY

Workorder: 3087059 2020-St. Elizabeth

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
-- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059001** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1124 2.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
PETROLEUM HC's										
Diesel Range Organics C10-C28	34.5		mg/kg	16.3	SW846 8015D	2/19/20 08:10	LEH	2/20/20 05:05	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	60.3		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 05:05	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	3.0	SW846 7196A	2/18/20 18:30	VLM	2/18/20 23:45	VLM	B
Moisture	35.2		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	64.8	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

Ms. Sarah S Leung
Project Coordinator

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059002** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1124 13.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	65.9		mg/kg	13.2	SW846 8015D	2/19/20 08:10	LEH	2/20/20 05:36	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	47.8		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 05:36	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.5	SW846 7196A	2/18/20 18:30	VLM	2/18/20 23:45	VLM	B
Moisture	21.6		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	78.4	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059003** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1124 23.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
PETROLEUM HC's										
Diesel Range Organics C10-C28	142		mg/kg	13.4	SW846 8015D	2/19/20 08:10	LEH	2/20/20 06:07	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	64.4		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 06:07	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.5	SW846 7196A	2/18/20 18:30	VLM	2/18/20 23:45	VLM	B
Moisture	21.3		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	78.7	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059004** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1125 3'-4'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
PETROLEUM HC's										
Diesel Range Organics C10-C28	306	2	mg/kg	115	SW846 8015D	2/19/20 08:10	LEH	2/21/20 06:26	BS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	21.1		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/21/20 06:26	BS	B
o-Terphenyl (S)	48.1		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 06:38	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.1	SW846 7196A	2/18/20 18:30	VLM	2/18/20 23:45	VLM	B
Moisture	8.5		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	91.5	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059005** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1125 7'-8'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	177		mg/kg	12.3	SW846 8015D	2/19/20 08:10	LEH	2/20/20 07:09	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	65		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 07:09	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.4	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	15.1		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	84.9	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059006** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1127 8.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	118		mg/kg	12.1	SW846 8015D	2/19/20 08:10	LEH	2/20/20 07:40	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	65		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 07:40	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.3	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	12.4		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	87.6	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059007** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1127 18.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	18.4		mg/kg	12.4	SW846 8015D	2/19/20 08:10	LEH	2/20/20 08:11	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	55.9		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 08:11	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.4	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	18.5		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	81.5	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059008** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1127 28.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	ND		mg/kg	12.2	SW846 8015D	2/19/20 08:10	LEH	2/20/20 09:13	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	61.1		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 09:13	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.3	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	14.0		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	86.0	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059009** Date Collected: 2/10/2020 00:00 Matrix: Solid

Sample ID: **1128 2.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	ND		mg/kg	11.7	SW846 8015D	2/19/20 08:10	LEH	2/20/20 03:32	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	69.1		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 03:32	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.3	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	13.4		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	86.6	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059010** Date Collected: 2/10/2020 00:00 Matrix: Solid

Sample ID: **1128 13.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
PETROLEUM HC's										
Diesel Range Organics C10-C28	20.4		mg/kg	13.1	SW846 8015D	2/19/20 08:10	LEH	2/20/20 04:03	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	62.7		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 04:03	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.4	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	19.2		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	80.8	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059011** Date Collected: 2/10/2020 00:00 Matrix: Solid

Sample ID: **1128 32'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	15.0		mg/kg	14.9	SW846 8015D	2/19/20 08:10	LEH	2/20/20 04:34	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	62.3		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 04:34	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.8	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	28.9		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	71.1	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059012** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1129 8.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
PETROLEUM HC's										
Diesel Range Organics C10-C28	41.8		mg/kg	12.2	SW846 8015D	2/19/20 08:10	LEH	2/20/20 09:44	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	62.9		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 09:44	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.4	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	17.5		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	82.5	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059013** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1129 18.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	ND		mg/kg	12.4	SW846 8015D	2/19/20 08:10	LEH	2/20/20 10:15	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	63.3		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 10:15	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.3	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	15.4		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	84.6	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059014** Date Collected: 2/12/2020 00:00 Matrix: Solid

Sample ID: **1129 28.5'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	ND		mg/kg	12.7	SW846 8015D	2/19/20 08:10	LEH	2/20/20 10:45	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	48.8		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 10:45	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.4	SW846 7196A	2/20/20 17:15	VLM	2/20/20 23:05	VLM	B
Moisture	16.3		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	83.7	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059015** Date Collected: 2/13/2020 00:00 Matrix: Solid

Sample ID: **1134 3'-4'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Diesel Range Organics C10-C28	170		mg/kg	12.8	SW846 8015D	2/19/20 08:10	LEH	2/20/20 11:17	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	62.2		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 11:17	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.4	SW846 7196A	2/25/20 09:10	MXF	2/25/20 12:00	MXF	B
Moisture	17.2		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	82.8	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059016** Date Collected: 2/13/2020 00:00 Matrix: Solid

Sample ID: **1134 8'-9'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
PETROLEUM HC's										
Diesel Range Organics C10-C28	185		mg/kg	12.3	SW846 8015D	2/19/20 08:10	LEH	2/20/20 11:48	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	56.3		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 11:48	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.4	SW846 7196A	2/25/20 09:10	MXF	2/25/20 12:00	MXF	B
Moisture	15.9		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	84.1	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059017** Date Collected: 2/13/2020 00:00 Matrix: Solid

Sample ID: **1135 3'-4'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
PETROLEUM HC's										
Diesel Range Organics C10-C28	312	2	mg/kg	62.9	SW846 8015D	2/19/20 08:10	LEH	2/21/20 06:57	BS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	62.4		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/21/20 06:57	BS	B
o-Terphenyl (S)	64.8		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 12:18	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.4	SW846 7196A	2/25/20 09:10	MXF	2/25/20 12:00	MXF	B
Moisture	18.4		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	81.6	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

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PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

Lab ID: **3087059018** Date Collected: 2/13/2020 00:00 Matrix: Solid

Sample ID: **1135 7'-8'** Date Received: 2/17/2020 21:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
PETROLEUM HC's										
Diesel Range Organics C10-C28	108		mg/kg	12.7	SW846 8015D	2/19/20 08:10	LEH	2/20/20 13:20	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
o-Terphenyl (S)	63.8		%	36 - 122	SW846 8015D	2/19/20 08:10	LEH	2/20/20 13:20	EGO	B
WET CHEMISTRY										
Hexavalent Chromium	ND		mg/kg	2.3	SW846 7196A	2/25/20 09:10	MXF	2/25/20 12:00	MXF	B
Moisture	16.2		%	0.1	S2540G-11			2/26/20 12:40	AXD	B
Total Solids	83.8	1	%	0.1	S2540G-11			2/26/20 12:40	AXD	B

Ms. Sarah S Leung
Project Coordinator

PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3087059001	1	1124 2.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059002	1	1124 13.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059003	1	1124 23.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059004	1	1125 3'-4'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059004	2	1125 3'-4'	SW846 8015D	Diesel Range Organics C10-C28
This sample was analyzed at a dilution in the 8015 diesel range organics analysis due to the level of analyte detected. Reporting limits were adjusted accordingly.				
3087059005	1	1125 7'-8'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059006	1	1127 8.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059007	1	1127 18.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059008	1	1127 28.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059009	1	1128 2.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059010	1	1128 13.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059011	1	1128 32'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059012	1	1129 8.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059013	1	1129 18.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059014	1	1129 28.5'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059015	1	1134 3'-4'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059016	1	1134 8'-9'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059017	1	1135 3'-4'	S2540G-11	Total Solids
Analyte was analyzed past the 7 day holding time.				
3087059017	2	1135 3'-4'	SW846 8015D	Diesel Range Organics C10-C28
This sample was analyzed at a dilution in the 8015 diesel range organics analysis due to the level of analyte detected. Reporting limits were adjusted accordingly.				

PRELIMINARY RESULTS

Workorder: 3087059 2020-St. Elizabeth

3087059018	1	1135 7'-8'	S2540G-11	Total Solids

Analyte was analyzed past the 7 day holding time.

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3087059 2020-St. Elizabeth

Lab ID	Sample ID	Analysis Method	Prep Method
3087059001	1124 2.5'	S2540G-11	
3087059001	1124 2.5'	SW846 7196A	SW846 3060A
3087059001	1124 2.5'	SW846 8015D	SW846 3546
3087059002	1124 13.5'	S2540G-11	
3087059002	1124 13.5'	SW846 7196A	SW846 3060A
3087059002	1124 13.5'	SW846 8015D	SW846 3546
3087059003	1124 23.5'	S2540G-11	
3087059003	1124 23.5'	SW846 7196A	SW846 3060A
3087059003	1124 23.5'	SW846 8015D	SW846 3546
3087059004	1125 3'-4'	S2540G-11	
3087059004	1125 3'-4'	SW846 7196A	SW846 3060A
3087059004	1125 3'-4'	SW846 8015D	SW846 3546
3087059005	1125 7'-8'	S2540G-11	
3087059005	1125 7'-8'	SW846 7196A	SW846 3060A
3087059005	1125 7'-8'	SW846 8015D	SW846 3546
3087059006	1127 8.5'	S2540G-11	
3087059006	1127 8.5'	SW846 7196A	SW846 3060A
3087059006	1127 8.5'	SW846 8015D	SW846 3546
3087059007	1127 18.5'	S2540G-11	
3087059007	1127 18.5'	SW846 7196A	SW846 3060A
3087059007	1127 18.5'	SW846 8015D	SW846 3546
3087059008	1127 28.5'	S2540G-11	
3087059008	1127 28.5'	SW846 7196A	SW846 3060A
3087059008	1127 28.5'	SW846 8015D	SW846 3546
3087059009	1128 2.5'	S2540G-11	
3087059009	1128 2.5'	SW846 7196A	SW846 3060A
3087059009	1128 2.5'	SW846 8015D	SW846 3546
3087059010	1128 13.5'	S2540G-11	
3087059010	1128 13.5'	SW846 7196A	SW846 3060A
3087059010	1128 13.5'	SW846 8015D	SW846 3546
3087059011	1128 32'	S2540G-11	
3087059011	1128 32'	SW846 7196A	SW846 3060A
3087059011	1128 32'	SW846 8015D	SW846 3546
3087059012	1129 8.5'	S2540G-11	
3087059012	1129 8.5'	SW846 7196A	SW846 3060A
3087059012	1129 8.5'	SW846 8015D	SW846 3546
3087059013	1129 18.5'	S2540G-11	
3087059013	1129 18.5'	SW846 7196A	SW846 3060A
3087059013	1129 18.5'	SW846 8015D	SW846 3546
3087059014	1129 28.5'	S2540G-11	
3087059014	1129 28.5'	SW846 7196A	SW846 3060A
3087059014	1129 28.5'	SW846 8015D	SW846 3546
3087059015	1134 3'-4'	S2540G-11	
3087059015	1134 3'-4'	SW846 7196A	SW846 3060A
3087059015	1134 3'-4'	SW846 8015D	SW846 3546
3087059016	1134 8'-9'	S2540G-11	

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3087059 2020-St. Elizabeth

Lab ID	Sample ID	Analysis Method	Prep Method
3087059016	1134 8'-9'	SW846 7196A	SW846 3060A
3087059016	1134 8'-9'	SW846 8015D	SW846 3546
3087059017	1135 3'-4'	S2540G-11	
3087059017	1135 3'-4'	SW846 7196A	SW846 3060A
3087059017	1135 3'-4'	SW846 8015D	SW846 3546
3087059018	1135 7'-8'	S2540G-11	
3087059018	1135 7'-8'	SW846 7196A	SW846 3060A
3087059018	1135 7'-8'	SW846 8015D	SW846 3546

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Middletown, PA 17057
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F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier:

Tracking #:

3087059

Co. Name: HCEA

Contact (Report to): KEITH PROGIN

Phone: 410-880-4788

Address: 10975 GUILFORD RD, SUITE A ANNAPOLIS JUNCTION, MD 20701

Bill to (if different than Report to):

PO#:

Project Name/#: ST. ELIZABETH / 183446

ALS Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required:

Approved By:

Email? [X] -Y kprogin@hcea.com

Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	TPH-DRO	Hexavalent Chromium	Dioxins / Furans							
***Container Type				CG											
***Container Size				4oz											
*** Preservative															
1 1124 2.5'				G	SO	X2	X	X							
2 1124 13.5'						X	X	X							
3 1124 23.5'						X	X	X							
4 1125 3'-4'						X	X	X							
5 1125 7'-8'						X	X	X							
6 1127 8.5'						X	X	X							
7 1127 18.5'						X	X	X	QJ						
8 1127 28.5'						X	X	X	2/18/2020						

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Analysis

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
Y	Y	Y	Y	Y	
N	N	N	N	N	

	Custody seals Present?	(if present) Seals intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
Y	Y	Y	Y	Y	
N	N	N	N	N	

Cooler Temp: 6

Therm. ID: 404

No. of Coolers:

Notes:

(completed by Sample Receiving) Performed by: INITIAL HERE

SAMPLED BY (Please Print):

Project Comments: * no date/time on COC or samples QJ 2/18/2020

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 HCEA	2/17/20	1415	2 ALS COURIER	2/17	1415
3 ALS COURIER	2/17		4		
5			6	2/18/2020	210
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

DOD Criteria Required?

SDWA Forms? yes

State Samples Collected In? MD NJ NY PA

Other

EDT: PWSID No.

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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ALS

Wednesday, March 04, 2020 9:31:56 AM

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier:

Tracking #: 3098985-9

Co. Name: HCEA

Contact (Report to): KEITH PROGIN Phone: 410-880-4788

Address: 10975 GUILFORD RD, SUITE A ANNAPOLIS JUNCTION, MD 20701

Bill to (if different than Report to): PO#:

Project Name/#: ST. ELIZABETH / 18344C ALS Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. Date Required:
[ ] Rush-Subject to ALS approval and surcharges. Approved By:

Email? [X] -Y kprogin@hcea.com

Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	TPH-DRO	Hexavalent Chromium	Dioxins/Furans								
***Container Type						LG										
***Container Size						4oz										
*** Preservative																
1 1128 25'				G	SO	X2	←	→								
2 1128 13.5'						X	X	X								
3 1128 32.0'						X	X	X								
4 1129 8.5'						X	X	X								
5 1129 18.5'						X	X	X								
6 1129 28.5'						X	X	X								
7 1134 3'-4'						X	X	X								
8 1134 8'-9'						X	X	X	2/18/2020							

Enter Number of Containers Per Analysis

ANALYSES/METHOD REQUESTED

Receipt Information (completed by Sample Receiving)

Performed by: INITIAL HERE

Cooler Temp: 6

Therm. ID: 404

No. of Coolers:

Notes:

Circle appropriate Y or N.	Container in good condition?	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?
	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N

SAMPLED BY (Please Print):

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 HCEA	2/17/20	1415	2 COMMON COURIER / ALS COURIER	2/17	1415
3 COMMON COURIER / ALS COURIER	2/17				
5			6	2/18/20	0900
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] new

EDDs Required? [ ] If yes, format type:

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

CLIENT PWSID No.

DOD Criteria Required?

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier:
Tracking #:

3-8[illegible]59

Co. Name: HCEA
Contact (Report to): KEITH PROGIN
Phone: 410-880-4788
Address: 10975 GUILFORD RD, SUITE A ANNAPOLIS JUNCTION, MD 20701

Bill to (if different than Report to):
PO#:

Project Name/#: ST. ELIZABETH / 18344C
ALS Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required:
Approved By:

Email? [X] -Y kprogin@hcea.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	TPH-DRO	HEXAVALENT CHROMIUM	DIOXINS/FURANS								
***Container Type				G	G											
***Container Size				4oz	4oz											
*** Preservative																
1 1135 3'-4'				G	SO	x2	A	B								
2 1135 7'-8'				G	SO	x1	X	X	(B) 2/18/2020							
3																
4																
5																
6																
7																
8																

Enter Number of Containers Per Analysis

ANALYSES/METHOD REQUESTED

Receipt Information (completed by Sample Receiving)
Performed by: INITIAL HERE
Cooler Temp: 6
Therm. ID: 4M4
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on ice?	(if present) Seals intact?	Custody seals Present?	Headspace/Volatiles?	Correct preservation?	Correct sample volume?	Correct containers?
N	Y	N	N	Y	N	N	N	N	N
Y									

SAMPLED BY (Please Print):

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 HCEA	2/17/20	1415	2 [illegible]	2/17	1415
3 [illegible] ALS COURIER	2/17		4 [illegible] ALS COURIER	2/17/2020	2105
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other:
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
PERMIT/WSID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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ALS

Wednesday, March 04, 2020 9:31:56 AM
Page 29 of 30

3087059

Sarah Leung

From: Ben Nelson <bnelson@hcea.com>
Sent: Tuesday, February 18, 2020 1:33 PM
To: Sarah Leung
Cc: Keith Progin
Subject: [EXTERNAL] - RE: St. Elizabeth

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Sarah,

Below are the collection dates for the St. Elizabeth site:

February 10, 2020
1128 2.5'
1128 13.5'
1128 32.5'

February 12, 2020
1124 2.5'
1124 13.5'
1124 23.5'
1125 3'-4'
1125 7'-8'
1127 8.5'
1127 18.5'
1127 28.5'
1129 8.5'
1129 18.5'
1129 28.5'

February 13, 2020
1134 3'-4'
1134 8'-9'
1135 3'-4'
1135 7'-8'

ALS

301 Fulling Mill Road
Middletown, PA 17057
P: (717) 944-5541
F: (717) 944-1430

Condition of Sample Receipt Form

Client:	Work Order #:	Initials:	Date:
Hillis Carnes	3087059	gw	2/18/2020

1. Were airbills / tracking numbers present and recorded?	(NONE)	YES	NO
Tracking number: _____			
2. Are Custody Seals on shipping containers intact?	NONE	(YES)	NO
3. Are Custody Seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present?		(YES)	NO
5. Are the COC and bottle labels complete, legible and in agreement?		(YES)	NO
5a. Does the COC contain sample locations?		(YES)	NO
5b. Does the COC contain date and time of sample collection for all samples? no date/time coc/samples		YES	(NO)
5c. Does the COC contain sample collectors name? collected by client		YES	(NO)
5d. Does the COC note the type(s) of preservation for all bottles?		(YES)	NO
5e. Does the COC note the number of bottles submitted for each sample? added to coc		YES	(NO)
5f. Does the COC note the type of sample, composite or grab?		(YES)	NO
5g. Does the COC note the matrix of the sample(s)?		(YES)	NO
6. Are all aqueous samples requiring preservation preserved correctly?[1]	(N/A)	YES	NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?		(YES)	NO
8. Are all samples within holding times for the requested analyses?		YES ?	NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)		(YES)	NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?	(N/A)	YES	NO
11. Were the samples received on ice?		(YES)	NO
12. Were sample temperatures measured at 0.0-6.0°C		(YES)	NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below		YES	(NO)
13a. Are the samples required for SDWA compliance reporting?	(N/A)	YES	NO
13b. Did the client provide a SDWA PWS ID#?	(N/A)	YES	NO
13c. Are all aqueous unpreserved SDWA samples pH 5-9?	(N/A)	YES	NO
13d. Did the client provide the SDWA sample location ID/Description?	(N/A)	YES	NO
13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?	(N/A)	YES	NO

Cooler #:								
Temperature (°C):	6							
Thermometer ID:	441							
Radiological (µCi):								

COMMENTS (Required for all NO responses above and any sample non-conformance):

[1]Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Rev 1/20/2020