Adelaide
Environmental Health Associates, Inc.

1511 Route 22, Suite C24
Brewster, NY 10509 845.278.7710

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LEAD, COPPER, CHLORINE, E. COLI AND TOTAL COLIFORM IN WATER SURVEY

PERFORMED AT:

Purchase College – State University of New York
735 Anderson Hill Road
Purchase, New York 10577
Adelaide Project# SP:16011.07-WA

PREPARED FOR:

Mr. Edward Musal
Environmental Health and Safety Officer
Purchase College – State University of New York
735 Anderson Hill Road
Purchase, New York 10577

PREPARED BY:
Jason Fullum
September 20, 2016

REVIEWED BY:

Stephanie Soter
President

LEAD, COPPER, CHLORINE, E. COLI AND TOTAL COLIFORM IN WATER SURVEY

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APPENDICES

1.0 BACKGROUND/PURPOSE

Adelaide Environmental Health Associates, Inc. (Adelaide) was retained by Purchase College – State University of New York to perform a lead, copper, chlorine, E. coli and total Coliform in water survey at Purchase College – State University of New York in Purchase, New York. This water survey was based on the scope of work provided by the college to test five buildings at specific locations.

The following procedures were followed for sampling the water sources as requested by the college and as required for specific testing at each location:

- A first draw was taken from the designated source for lead and copper testing. A two hundred and fifty milliliter plastic sample bottle was utilized with nitric acid as a preservative. Using gloved hands, the cold water source was turned on the first draw of water was collected then sealed, labeled and made ready for transport to the laboratory. After all of the first draw samples were collected they were sent to York Analytical Laboratories, Inc. for analysis. The samples were analyzed using EPA Method 200.8.
- A second sample was taken from the designated source for E. coli and total Coliform using a one hundred milliliter, sealed, plastic bottle. The water was run for thirty seconds after the first sample was taken. After the thirty second flush, using gloved hands, the water sample was taken then sealed, labeled and made ready for transport to the laboratory. After all of the second samples were collected they were sent to Environmental Labworks, Inc. The samples were analyzed using method SM18-22 9223B(-97) (Colilert).
- A third sample was taken from the designated source for chlorine using a two hundred and fifty milliliter plastic sample bottle. Using gloved hands, the cold water was turned on and the sample was collected then sealed, labeled and made ready for transport to the laboratory. The chlorine samples were sent directly to York Analytical Laboratories, Inc. for analysis. The samples were analyzed using method SM 4500 Cl-G.

The inspection was performed on August 18, 2016 by Adelaide representatives Jason Fullum and Philip Page.

The following areas were sampled for E. coli and total Coliform:

- Alumni Village – ALU – 10 – Service Tap
- Alumni Village – 10-6 – Kitchen Sink
- Alumni Village – ALU – 1 – Service Tap
- The Olde – Service – Main Tap
- The Olde – H-6-1 – Kitchen Sink
- Main Dining Hall – Right Sink Adjacent to Freezer
- Dormitory – Service Room

The following areas were sampled for chlorine:

- Main Dining Hall – Right Sink Adjacent to Freezer
- The Olde – Service – Main Tap
- The Olde – H-6-1 – Kitchen Sink
- Alumni Village – ALU – 10 – Service Tap
- Alumni Village – 10-6 – Kitchen Sink

- Alumni Village – ALU – 1 – Service Tap
- Dormitory – Service Room

The following areas were sampled for copper and lead:

- The Olde – Service – Main Tap
- Dormitory – Service Room
- Main Dining Hall – Right Sink Adjacent to Freezer

The following areas were sampled for lead:

- Crossroads – Room D338 - Kitchen

2.0 EXECUTIVE SUMMARY OF INSPECTION RESULTS

Following the procedures that were given to us, Adelaide sampled the sources mentioned above. Adelaide collected three (3) water samples for lead and copper, one (1) sample for lead only, seven (7) samples for chlorine and seven (7) samples for E. coli and total Coliform from the above mentioned areas.

One (1) sample showed the presence of total Coliforms.

The chlorine samples ranged from Not Detected to 0.7 milligrams per liter (mg/L).

Two (2) samples collected were above the lead in water EPA action level of fifteen (15) parts per billion (ppb) and the Lead and Copper Rule level of twenty (20) parts per billion (ppb).

Zero (0) samples collected were above the copper in water EPA action level of one thousand three hundred (1,300) parts per billion (ppb).

Please note that parts per billion (ppb) and micrograms per liter (ug/L) are the same.

Summary of Lead, Copper, Chlorine, E. Coli and Total Coliforms in Water Samples:

Sample #	Room Sampled	Copper (ppb) First Draw	Lead (ppb) First Draw	E. Coli	Total Coliforms	Chlorine (mg/L)
ALU-1 ALU-1C	ALU-10 – Service Tap			Absent	Absent	0.30
ALU-2 ALU-2C	10-6 – Kitchen			Absent	***Present***	ND
ALU-3 ALU-3C	ALU-1 – Service Tap			Absent	Absent	0.30
OLD-1 OLD-1A OLD-1C	Service – Main Tap	574	***71.6***	Absent	Absent	0.70
OLD-2 OLD-2C	H-6-1 – Kitchen Sink			Absent	Absent	ND
DIN-1 DIN-1A DIN-1C	Right Sink Adjacent To Freezer	179	10.1	Absent	Absent	ND
DOR-1 DOR-1A DOR-1C	Service Room – Cold	116	***76.7***	Absent	Absent	0.10
CRO-1A	Room D338 – Kitchen Sink		ND			

Building Abbreviations:

- COM – The Commons, ALU – Alumni Village, GYM – Gymnasium, CRO – Crossroads, FAR – Farside, OUT – Outback, OLD – The Olde, HUM – Humanities, STU – Student Services, CCS – CCS, MUS – Museum, VIS – Visual Arts, FOR – Fort Awesome, CCN – CCN, SOC – Social Science, DAN – Dance, MUC – Music, PAC – PAC, BUT - Butler

3.0 CONCLUSIONS AND RECOMMENDATIONS

The samples that are above the limit of 20 parts per billion (ppb) for lead and have total Coliforms present should have further inspection to detect the source of the lead in the water. These water sources should be restricted until further analysis can be completed.

4.0 REPORT CERTIFICATIONS

Adelaide Environmental Health Associates certifies that the information contained herein is based on the physical and visual inspections conducted by Adelaide and data collected during the inspection survey.

APPENDIX A

LEAD AND COPPER IN WATER RESULTS

Technical Report

prepared for:

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0811

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0811

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 18, 2016 and listed below. The project was identified as your project: **SP: 16011.07-WA.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16H0811-01	OLD 1A/FD/Service Bldg.-Main Tap-Cold	Drinking Water	08/18/2016	08/18/2016

General Notes for York Project (SDG) No.: 16H0811

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 08/19/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: OLD 1A/FD/Service Bldg.-Main Tap-Cold **York Sample ID:** 16H0811-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0811	SP: 16011.07-WA	Drinking Water	August 18, 2016 12:00 am	08/18/2016

Copper by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	574		ug/L	0.066	1.00	1	EPA 200.8	08/19/2016 06:51	08/19/2016 12:41	ALD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Lead by EPA 200.8

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	71.6		ug/L	0.065	1.00	1	EPA 200.8	08/19/2016 06:51	08/19/2016 12:41	ALD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Notes and Definitions

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Adelaide Environmental
1511 Rt 22, Suite C24
Brewster, NY 10509
adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

*** Test First Draw ***

York Project Number: 1610811

Date: 8/18/16

Inspector: J. Follum

Site: SUNY Purchase
735 Anderson Hill
Purchase, NY

Lead in Drinking Water
Turn around time: ~~**Standard (5 to 7 days)**~~ 24 Hr.
Adelaide Project # SP:16011.07-WA

Sample ID	FD-First Draw	Sample Location	Analysis	Matrix	Container
OLD 1A	FD	Service Bldg. - Main Tap - Cold	Lead & Copper	Drinking Water	250 ml Bottle
OLD 2A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 3A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 4A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 5A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 6A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 7A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 8A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 9A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 10A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 11A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 12A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 13A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 14A	FD		Lead & Copper	Drinking Water	250 ml Bottle
OLD 15A	FD		Lead & Copper	Drinking Water	250 ml Bottle

Samples taken by: [signature] 8/18/16
Signature / Date

Samples relinquished by: [signature] 8/18/16
Signature / Date

Samples received by: [signature] 8/18/16 1046 23.8°
Signature / Date

Technical Report

prepared for:

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0818

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0818

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

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The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16H0818-01	)R 1A/FD/Service Room-1st Floor-Cold Water M:	Drinking Water	08/18/2016	08/18/2016

General Notes for York Project (SDG) No.: 16H0818

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
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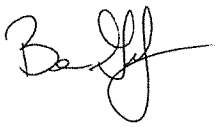
Approved By: 

Date: 08/19/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: DOR 1A/FD/Service Room-1st Floor-Cold Water Main **York Sample ID:** 16H0818-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0818	SP: 16011.07-WA	Drinking Water	August 18, 2016 12:00 am	08/18/2016

Copper by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	116		ug/L	0.066	1.00	1	EPA 200.8	08/19/2016 06:51	08/19/2016 12:41	ALD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Lead by EPA 200.8

Log-in Notes:

Sample Notes:

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For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Adelaide Environmental
1511 Rt 22, Suite C24
Brewster, NY 10509
adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

*** Test First Draw ***

York Project Number: 16H0818

Date: 8/18/16

Inspector: T. Fuller

Site: SUNY Purchase
735 Anderson Hill
Purchase, NY

Lead in Drinking Water
Turn around time: ~~Standard (5 to 7 days)~~ 24 HR
Adelaide Project # SP:16011.07-WA

Sample ID	FD-First Draw	Sample Location	Analysis	Matrix	Container
DOR 1A	FD	Service Room - 1st Floor - Cold Water Main	Lead & Copper	Drinking Water	250 ml Bottle
DOR 2A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 3A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 4A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 5A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 6A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 7A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 8A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 9A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 10A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 11A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 12A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 13A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 14A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DOR 15A	FD		Lead & Copper	Drinking Water	250 ml Bottle

Samples taken by: T. Fuller 8/18/16
Signature / Date

Samples relinquished by: 8/18/16
Signature / Date

Samples received by: 8/18/16 1046 24.5°
Signature / Date

Technical Report

prepared for:

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0808

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0808

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 18, 2016 and listed below. The project was identified as your project: **SP: 16011.07-WA.**

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The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16H0808-01	DIN 1A/FD/Right Sink-Adj. to Freezer-Cold	Drinking Water	08/18/2016	08/18/2016

General Notes for York Project (SDG) No.: 16H0808

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
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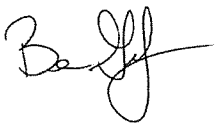
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 08/19/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: DIN 1A/FD/Right Sink-Adj. to Freezer-Cold **York Sample ID:** 16H0808-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0808	SP: 16011.07-WA	Drinking Water	August 18, 2016 12:00 am	08/18/2016

Copper by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	179		ug/L	0.066	1.00	1	EPA 200.8	08/19/2016 06:51	08/19/2016 12:41	ALD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Lead by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	10.1		ug/L	0.065	1.00	1	EPA 200.8	08/19/2016 06:51	08/19/2016 12:41	ALD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Notes and Definitions

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Adelaide Environmental
1511 Rt 22, Suite C24
Brewster, NY 10509
adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

*** Test First Draw ***

York Project Number: 16H0808

Date: 8/18/16

Inspector: L. Follum

Site: SUNY Purchase
735 Anderson Hill
Purchase, NY

Lead in Drinking Water
Turn around time: ~~**Standard (5 to 7 days)**~~ 24 HR.
Adelaide Project # SP:16011.07-WA

Sample ID	FD-First Draw	Sample Location	Analysis	Matrix	Container
DIN 1A	FD	Right Sink - Adj. To Freezer - Cold	Lead & Copper	Drinking Water	250 ml Bottle
DIN 2A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 3A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 4A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 5A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 6A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 7A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 8A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 9A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 10A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 11A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 12A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 13A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 14A	FD		Lead & Copper	Drinking Water	250 ml Bottle
DIN 15A	FD		Lead & Copper	Drinking Water	250 ml Bottle

Samples taken by: 8/18/16
Signature / Date

Samples relinquished by: 8/18/16
Signature / Date

Samples received by: 8/18/16 1046 24.7°
Signature / Date

Technical Report

prepared for:

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0817

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0817

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 18, 2016 and listed below. The project was identified as your project: **SP: 16011.07-WA.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16H0817-01	CRO 1A/FD/Room D338-Kitchen	Drinking Water	08/18/2016	08/18/2016

General Notes for York Project (SDG) No.: 16H0817

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 08/19/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: CRO 1A/FD/Room D338-Kitchen **York Sample ID:** 16H0817-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0817	SP: 16011.07-WA	Drinking Water	August 18, 2016 12:00 am	08/18/2016

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	0.065	1.00	1	EPA 200.8	08/19/2016 06:51	08/19/2016 12:41	ALD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Notes and Definitions

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
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If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Adelaide Environmental
1511 Rt 22, Suite C24
Brewster, NY 10509
adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

*** Test First Draw ***

Page ______ of ______

York Project Number: 16H0817

Date: 8/18/16

Inspector: J. Fuller & P.J. Page

Site: SUNY Purchase
735 Anderson Hill
Purchase, NY

Lead in Drinking Water
Turn around time: ~~**Standard (5 to 7 days)**~~ 24HR TA
Adelaide Project # SP:16011.07-WA

Sample ID	FD-First Draw	Sample Location	Analysis	Matrix	Container
CRO 1A	FD	Room D338 - Kitchen	Lead & ~~Copper~~	Drinking Water	250 ml Bottle
~~CRO 2A~~	~~FD~~	~~Service Room - 1st Floor - Cold Water Main~~	Lead & Copper	Drinking Water	250 ml Bottle
CRO 3A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 4A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 5A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 6A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 7A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 8A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 9A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 10A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 11A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 12A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 13A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 14A	FD		Lead & Copper	Drinking Water	250 ml Bottle
CRO 15A	FD		Lead & Copper	Drinking Water	250 ml Bottle

Samples taken by: [signature] 8/18/16
Signature / Date

Samples relinquished by: [signature] 8/18/16
Signature / Date

Samples received by: [signature] 8/18/2016 1046 24.6°
Signature / Date

APPENDIX B

E. COLI AND TOTAL COLIFORM IN WATER RESULTS

PO Box 733
Marlboro, NY 12542
Phone 845-236-7823
Fax 845-236-3911
ELAP #10824

ENVIRONMENTAL LABWORKS, INC.

August 19, 2016

Jason Fullum
Adelaide Environmental
1151 Route 22, Ste. C24
Brewster, NY 10509

Dear Jason,

The following are results of the analyses performed on samples from **SUNY Purchase** received at the laboratory on 08/18/16.

Sample Location: Alumni Village
Date/Time Collected: 08/18/16 9:17-9:30am
Collected By: J. Fullum
Date/Time Analyzed: 08/18/16 2:30pm TAL
Sample ID: 08181603D-1-3

ID	LOCATION	PARAMETER	RESULTS	METHOD
ALU-1	ALU-10 Service Tap	Total Coliforms/100ml	ABSENT	SM18-22 9223B(-97)
		E.coli/100ml	ABSENT	(Colilert)
ALU-2	10-6 Kitchen	Total Coliforms/100ml	**PRESENT**	SM18-22 9223B(-97)
		E.coli/100ml	ABSENT	(Colilert)
ALU-3	ALU-1 Service Tap	Total Coliforms/100ml	ABSENT	SM18-22 9223B(-97)
		E.coli/100ml	ABSENT	(Colilert)

These results indicate that the ALU-2 water **WAS NOT** of satisfactory sanitary quality (NYS Dept. of Health Part 5, subpart 5-1 PWS Ed. 11/9/11) in respect to the above test, when the sample was analyzed.

The data contained in this report were obtained using EPA or other approved methodologies. The results in this report apply to the samples received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report may only be reproduced in its entirety.

If you have any questions, or require any additional services, please do not hesitate to call us at 845-236-7823.

Thank you,

Trudie Lund, for
Anthony J. Falco
Laboratory Director

ENVIRONMENTAL LABWORKS, INC ELAP ID# 10824

1348 Route 9W
Marlboro, NY 12542
Phone: 845-236-7823
Fax: 845-236-3911

CHAIN OF CUSTODY

Turnaround Time: Standard [X]
RUSH [ ] (Surcharge applies)
Email:environmental.labworks@gmail.com

Please refrigerate samples after collection.

Sample ID# 081816 03-D
Pmt Method:
Receipt No:
Date/Initials:

Client Information		Sample Information
Name: Adelaide Environmental	Phone: 845-278-7710	Project/Facility Name: SUNY Purchase 16011.07
Mailing Address: 1511 Route 22, Suite C24	Fax: 845-278-7750	Location/ Sample Address: Alumni Village
Bill To: Brewster, NY 10509 Mail Hardcopy? Y [ ] N [ ]	Email: adelaidelabresults@adelaidellc.com	PWS Fed ID No.:

	Sample Identification & Sample Point	Sampled Date	Sampled Time	Grab	Comp # hrs	First Draw	Cl Res	Matrix	Analysis Requested	Preservative	Pres. At Lab Y/N	Reserved for Laboratory use only
ALU -1	ALU-10- Service Tap	8/18	9:17						Total Coliform E-Coli			
ALU -2	10-6- Kitchen	8/18	9:23						Total Coliform ~~E-Coli~~			
ALU -3	ALU-1- Service Tap	8/18	9:30						Total Coliform E-Coli			
-4									Total Coliform E-Coli			
-5									Total Coliform E-Coli			
-6									Total Coliform E-Coli			
-7									Total Coliform E-Coli			
-8									Total Coliform E-Coli			
-9												
-10												

LAB USE ONLY Delivered by _____ Temperature Upon Receipt 24.1 ºC Arrival on Ice Y / N

Sampled by(name) J. Fullam **Affiliation:** Adelaide **I affirm that the information above is true and complete to the best of my knowledge.**

Sample Relinquished by: _____ Received by: _____ Date: _____ Time: _____

Sample Relinquished by: _____ Received at Lab by: _____ Date: 8/18/16 Time: 11:11

Notes:

COC-001 - Rev 3, 4/14

PO Box 733
Marlboro, NY 12542
Phone 845-236-7823
Fax 845-236-3911
ELAP #10824

ENVIRONMENTAL LABWORKS, INC.

August 19, 2016

Jason Fullum
Adelaide Environmental
1151 Route 22, Ste. C24
Brewster, NY 10509

Dear Jason,

The following are results of the analyses performed on samples from **SUNY Purchase** received at the laboratory on 08/18/16.

Sample Location: The Olde
Date/Time Collected: 08/18/16 9:05am
Collected By: J. Fullum
Date/Time Analyzed: 08/18/16 2:30pm TAL
Sample ID: 08181603C-1-2

ID	LOCATION	PARAMETER	RESULTS	METHOD
OLD-1	Service - Main Tap	Total Coliforms/100ml	ABSENT	SM18-22 9223B(-97)
		E.coli/100ml	ABSENT	(Colilert)
OLD-2	H-6-1 Kitchen	Total Coliforms/100ml	ABSENT	SM18-22 9223B(-97)
		E.coli/100ml	ABSENT	(Colilert)

These results indicate that the water **WAS** of satisfactory sanitary quality (NYS Dept. of Health Part 5, subpart 5-1 PWS Ed. 11/9/11) in respect to the above test, when the sample was analyzed.

The data contained in this report were obtained using EPA or other approved methodologies. The results in this report apply to the samples received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report may only be reproduced in its entirety.

If you have any questions, or require any additional services, please do not hesitate to call us at 845-236-7823.

Thank you,

Trudie Lund, for
Anthony J. Falco
Laboratory Director

ENVIRONMENTAL LABWORKS, INC ELAP ID# 10824

1348 Route 9W
Marlboro, NY 12542
Phone: 845-236-7823
Fax: 845-236-3911

CHAIN OF CUSTODY

Turnaround Time: Standard [X]
RUSH [ ] (Surcharge applies)
Email:environmental.labworks@gmail.com

Please refrigerate samples after collection.

Sample ID# 08181603-C
Pmt Method:
Receipt No:
Date/Initials:

Client Information		Sample Information
Name: Adelaide Environmental	Phone: 845-278-7710	Project/Facility Name: SUNY Purchase 16011.07
Mailing Address: 1511 Route 22, Suite C24	Fax: 845-278-7750	Location/ Sample Address: Olde
Bill To: Brewster, NY 10509 Mail Hardcopy? Y [ ] N [ ]	Email: adelaidelabresults@adelaidellc.com	PWS Fed ID No.:

	Sample Identification & Sample Point	Sampled Date	Sampled Time	Grab	Comp # hrs	First Draw	Cl-Res	Matrix	Analysis Requested	Preservative	Pres. At Lab Y/N	Reserved for Laboratory use only
OLD -1	Service - Main Typ	8/18	9:05						Total Coliform E-Coli			
OLD -2	H-C-1-Kitchen	8/18							Total Coliform ~~E-Coli~~			
-3									Total Coliform E-Coli			
-4									Total Coliform E-Coli			
-5									Total Coliform E-Coli			
-6									Total Coliform E-Coli			
-7									Total Coliform E-Coli			
-8									Total Coliform E-Coli			
-9												
-10												

LAB USE ONLY Delivered by _____ Temperature Upon Receipt 24.1 ºC Arrival on Ice Y / N

Sampled by(name) J. Fullum **Affiliation:** Adelaide **I affirm that the information above is true and complete to the best of my knowledge.**

Sample Relinquished by: _____ Received by: _____ Date: _____ Time: _____

Sample Relinquished by: _____ Received at Lab by: _____ Date: 8/18/16 Time: 11:11

Notes:

PO Box 733
Marlboro, NY 12542
Phone 845-236-7823
Fax 845-236-3911
ELAP #10824

ENVIRONMENTAL LABWORKS, INC.

August 19, 2016

Jason Fullum
Adelaide Environmental
1151 Route 22, Ste. C24
Brewster, NY 10509

Dear Jason,

The following are results of the analyses performed on samples from **SUNY Purchase** received at the laboratory on 08/18/16.

Sample Location: Main Dining Hall
Date/Time Collected: 08/18/16 8:55am
Collected By: J. Fullum
Date/Time Analyzed: 08/18/16 2:30pm TAL
Sample ID: 08181603A-1

ID	LOCATION	PARAMETER	RESULTS	METHOD
DIN-1	Right Sink adj Freezer	Total Coliforms/100ml	ABSENT	SM18-22 9223B(-97)
		E.coli/100ml	ABSENT	(Colilert)

These results indicate that the water **WAS** of satisfactory sanitary quality (NYS Dept. of Health Part 5, subpart 5-1 PWS Ed. 11/9/11) in respect to the above test, when the sample was analyzed.

The data contained in this report were obtained using EPA or other approved methodologies. The results in this report apply to the samples received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report may only be reproduced in its entirety.

If you have any questions, or require any additional services, please do not hesitate to call us at 845-236-7823.

Thank you,

Trudie Lund, for
Anthony J. Falco
Laboratory Director

ENVIRONMENTAL LABWORKS, INC ELAP ID# 10824

1348 Route 9W
Marlboro, NY 12542
Phone: 845-236-7823
Fax: 845-236-3911

CHAIN OF CUSTODY

Turnaround Time: Standard [X]
RUSH [ ] (Surcharge applies)
Email:environmental.labworks@gmail.com

Please refrigerate samples after collection.

Sample ID# 081816.03-A
Pmt Method:
Receipt No:
Date/Initials:

Client Information		Sample Information
Name: Adelaide Environmental	Phone: 845-278-7710	Project/Facility Name: SUNY Purchase 16011.07
Mailing Address: 1511 Route 22, Suite C24	Fax: 845-278-7750	Location/ Sample Address: Main Dining Hall
Bill To: Brewster, NY 10509 Mail Hardcopy? Y [ ] N [ ]	Email: adelaidelabresults@adelaidellc.com	PWS Fed ID No.:

	Sample Identification & Sample Point	Sampled Date	Sampled Time	Grab	Comp # hrs	First Draw	Cl-Res	Matrix	Analysis Requested	Preservative	Pres. At Lab Y/N	Reserved for Laboratory use only
DW -1	Right Sink - Adj. to Freezer	8/18	8:55A						Total Coliform E-Coli			
-2									Total Coliform E-Coli			
-3									Total Coliform E-Coli			
-4									Total Coliform E-Coli			
-5									Total Coliform E-Coli			
-6									Total Coliform E-Coli			
-7									Total Coliform E-Coli			
-8									Total Coliform E-Coli			
-9												
-10												

LAB USE ONLY Delivered by _____ Temperature Upon Receipt 24.1 ºC Arrival on Ice Y / N

Sampled by(name) J. Fullum **Affiliation:** Adelaide **I affirm that the information above is true and complete to the best of my knowledge.**

Sample Relinquished by: Robert A Sec Received by: _____ Date: _____ Time: _____

Sample Relinquished by: _____ Received at Lab by: [signature] Date: 8/18/16 Time: 11:11

Notes:

COC-001 - Rev 3, 4/14

PO Box 733
Marlboro, NY 12542
Phone 845-236-7823
Fax 845-236-3911
ELAP #10824

ENVIRONMENTAL LABWORKS, INC.

August 19, 2016

Jason Fullum
Adelaide Environmental
1151 Route 22, Ste. C24
Brewster, NY 10509

Dear Jason,

The following are results of the analyses performed on samples from **SUNY Purchase** received at the laboratory on 08/18/16.

Sample Location: Dormitory
Date/Time Collected: 08/18/16 8:43am
Collected By: J. Fullum
Date/Time Analyzed: 08/18/16 2:30pm TAL
Sample ID: 08181603B-1

ID	LOCATION	PARAMETER	RESULTS	METHOD
DOR-1	Service Room Cold	Total Coliforms/100ml	ABSENT	SM18-22 9223B(-97)
		E.coli/100ml	ABSENT	(Colilert)

These results indicate that the water **WAS** of satisfactory sanitary quality (NYS Dept. of Health Part 5, subpart 5-1 PWS Ed. 11/9/11) in respect to the above test, when the sample was analyzed.

The data contained in this report were obtained using EPA or other approved methodologies. The results in this report apply to the samples received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report may only be reproduced in its entirety.

If you have any questions, or require any additional services, please do not hesitate to call us at 845-236-7823.

Thank you,

Trudie Lund, for
Anthony J. Falco
Laboratory Director

ENVIRONMENTAL LABWORKS, INC ELAP ID# 10824

1348 Route 9W
Marlboro, NY 12542
Phone: 845-236-7823
Fax: 845-236-3911

CHAIN OF CUSTODY

Turnaround Time: Standard [X]
RUSH [ ] (Surcharge applies)
Email:environmental.labworks@gmail.com

Please refrigerate samples after collection.

Sample ID# 081816.03-B
Pmt Method:
Receipt No:
Date/Initials:

Client Information		Sample Information
Name: Adelaide Environmental	Phone: 845-278-7710	Project/Facility Name: SUNY Purchase 16011.07
Mailing Address: 1511 Route 22, Suite C24	Fax: 845-278-7750	Location/ Sample Address: Dormitory
Bill To: Brewster, NY 10509 Mail Hardcopy? Y [ ] N [ ]	Email: adelaidelabresults@adelaidellc.com	PWS Fed ID No.:

	Sample Identification & Sample Point	Sampled Date	Sampled Time	Grab	Comp # hrs	First Draw	Cl-Res	Matrix	Analysis Requested	Preservative	Pres. At Lab Y/N	Reserved for Laboratory use only
DoR -1	Service Rm-Cold	8/18	8:43						Total Coliform E-Coli			
-2									Total Coliform E-Coli			
-3									Total Coliform E-Coli			
-4									Total Coliform E-Coli			
-5									Total Coliform E-Coli			
-6									Total Coliform E-Coli			
-7									Total Coliform E-Coli			
-8									Total Coliform E-Coli			
-9												
-10												

LAB USE ONLY Delivered by _____ Temperature Upon Receipt 24.1 ºC Arrival on Ice Y / N

Sampled by(name) J. Fallon **Affiliation:** Adelaide **I affirm that the information above is true and complete to the best of my knowledge.**

Sample Relinquished by: Robert Doe Received by: _____ Date: _____ Time: _____

Sample Relinquished by: _____ Received at Lab by: [signature] Date: 8/18/16 Time: 11:11

Notes:

COC-001 - Rev 3, 4/14

APPENDIX C

CHLORINE IN WATER RESULTS

Technical Report

prepared for:

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0807

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0807

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 18, 2016 and listed below. The project was identified as your project: **SP: 16011.07-WA.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16H0807-01	DIN 1C/FD/Right Sink-Adj. To Freezer-Cold	Water	08/18/2016	08/18/2016

General Notes for York Project (SDG) No.: 16H0807

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 08/19/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: DIN 1C/FD/Right Sink-Adj. To Freezer-Cold **York Sample ID:** 16H0807-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0807	SP: 16011.07-WA	Water	August 18, 2016 12:00 am	08/18/2016

Chlorine, Residual

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chlorine, Residual	ND	HT-CL	mg/L	0.050	0.050	1	SM 4500 Cl-G	08/19/2016 10:06	08/19/2016 11:51	PAM
								Certifications:			

Notes and Definitions

HT-CL HOLDING TIME EXCEEDED. Samples for Residual Chlorine determination should be grab samples and must be tested immediately in the Field.

---

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Adelaide Environmental
1511 Rt 22, Suite C24
Brewster, NY 10509
adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

*** Test First Draw ***

Page ~~1~~ 1 of _____

York Project Number: 16H0807

Date: 8/18/16

Inspector: J. Fullam

Site: SUNY Purchase
735 Anderson Hill
Purchase, NY

Lead in Drinking Water
Turn around time: ~~Standard (5 to 7 days)~~ 24 HR
Adelaide Project # SP:16011.07-WA

Sample ID	FD-First Draw	Sample Location	Analysis	Matrix	Container
DIN 1C	FD	Right Sink - Adj. To Freezer - to Cold	Chlorine	Drinking Water	250 ml Bottle
DIN 2C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 3C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 4C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 5C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 6C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 7C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 8C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 9C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 10C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 11C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 12C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 13C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 14C	FD		Chlorine	Drinking Water	250 ml Bottle
DIN 15C	FD		Chlorine	Drinking Water	250 ml Bottle

Samples taken by: _____ 8/18/16
Signature / Date

Samples relinquished by: _____ 8/18/16
Signature / Date

Samples received by: _____ 8/18/16 1046 24.8°
Signature / Date

Technical Report

prepared for:

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0804

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0804

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 18, 2016 and listed below. The project was identified as your project: **SP: 16011.07-WA**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

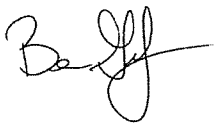
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16H0804-01	OLD 1C/FD/Service Bldg.-Main Tap-Cold	Water	08/18/2016	08/18/2016
16H0804-02	OLD 2C/FD/H-6-1-Kitchen-Cold	Water	08/18/2016	08/18/2016

General Notes for York Project (SDG) No.: 16H0804

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 08/19/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: OLD 1C/FD/Service Bldg.-Main Tap-Cold **York Sample ID:** 16H0804-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0804	SP: 16011.07-WA	Water	August 18, 2016 12:00 am	08/18/2016

Chlorine, Residual

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Chlorine, Residual**	**0.70**	HT-CL	mg/L	0.050	0.050	1	SM 4500 Cl-G Certifications:	08/19/2016 10:06	08/19/2016 11:51	PAM

Sample Information

Client Sample ID: OLD 2C/FD/H-6-1-Kitchen-Cold **York Sample ID:** 16H0804-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0804	SP: 16011.07-WA	Water	August 18, 2016 12:00 am	08/18/2016

Chlorine, Residual

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chlorine, Residual	ND	HT-CL	mg/L	0.050	0.050	1	SM 4500 Cl-G Certifications:	08/19/2016 10:06	08/19/2016 11:51	PAM

Notes and Definitions

HT-CL HOLDING TIME EXCEEDED. Samples for Residual Chlorine determination should be grab samples and must be tested immediately in the Field.

---

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
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If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

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Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

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Adelaide Environmental
1511 Rt 22, Suite C24
Brewster, NY 10509
adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

*** Test First Draw ***

York Project Number: 1610804

Date: 8/18/16

Inspector: J. Fullum

Site: SUNY Purchase
735 Anderson Hill
Purchase, NY

Lead in Drinking Water
Turn around time: ~~**Standard (5 to 7 days)**~~ 24 HR
Adelaide Project # SP:16011.07-WA

Sample ID	FD-First Draw	Sample Location	Analysis	Matrix	Container
OLD 1C	FD	Service Bldg. - Main Tap - Cold.	Chlorine	Drinking Water	250 ml Bottle
OLD 2C	FD	H-6-1 - Kitchen - Cold	Chlorine	Drinking Water	250 ml Bottle
OLD 3C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 4C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 5C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 6C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 7C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 8C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 9C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 10C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 11C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 12C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 13C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 14C	FD		Chlorine	Drinking Water	250 ml Bottle
OLD 15C	FD		Chlorine	Drinking Water	250 ml Bottle

Samples taken by: J. Fullum 8/18/16
Signature / Date

Samples relinquished by: 8/18/16
Signature / Date

Samples received by: 8/18/16 1046 24.0°
Signature / Date

Technical Report

prepared for:

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0805

Report Date: 08/19/2016
Client Project ID: SP: 16011.07-WA
York Project (SDG) No.: 16H0805

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 18, 2016 and listed below. The project was identified as your project: **SP: 16011.07-WA.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

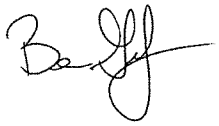
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16H0805-01	ALU 1C/FD/Alumni-10-Service Rm.-Cold-Main	Water	08/18/2016	08/18/2016
16H0805-02	ALU 2C/FD/Apt. 10-6-Kitchen-Cold	Water	08/18/2016	08/18/2016
16H0805-03	ALU 3C/FD/Alumni-1-Service Rm-Cold-Main	Water	08/18/2016	08/18/2016

General Notes for York Project (SDG) No.: 16H0805

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 08/19/2016

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: ALU 1C/FD/Alumni-10-Service Rm.-Cold-Main **York Sample ID:** 16H0805-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0805	SP: 16011.07-WA	Water	August 18, 2016 12:00 am	08/18/2016

Chlorine, Residual **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chlorine, Residual	0.30	HT-CL	mg/L	0.050	0.050	1	SM 4500 Cl-G Certifications:	08/19/2016 10:06	08/19/2016 11:51	PAM

Sample Information

Client Sample ID: ALU 2C/FD/Apt. 10-6-Kitchen-Cold **York Sample ID:** 16H0805-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0805	SP: 16011.07-WA	Water	August 18, 2016 12:00 am	08/18/2016

Chlorine, Residual **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chlorine, Residual	ND	HT-CL	mg/L	0.050	0.050	1	SM 4500 Cl-G Certifications:	08/19/2016 10:06	08/19/2016 11:51	PAM

Sample Information

Client Sample ID: ALU 3C/FD/Alumni-1-Service Rm-Cold-Main **York Sample ID:** 16H0805-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0805	SP: 16011.07-WA	Water	August 18, 2016 12:00 am	08/18/2016

Chlorine, Residual **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chlorine, Residual	0.30	HT-CL	mg/L	0.050	0.050	1	SM 4500 Cl-G Certifications:	08/19/2016 10:06	08/19/2016 11:51	PAM

Notes and Definitions

HT-CL	HOLDING TIME EXCEEDED. Samples for Residual Chlorine determination should be grab samples and must be tested immediately in the Field.

---

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Adelaide Environmental
1511 Rt 22, Suite C24
Brewster, NY 10509
adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

*** Test First Draw ***

York Project Number: 16H0805

Date: 8/18/16

Inspector: J. Follin

Site: SUNY Purchase
735 Anderson Hill
Purchase, NY

Lead in Drinking Water
Turn around time: ~~**Standard (5 to 7 days)**~~ 24 HR.
Adelaide Project # SP:16011.07-WA

Sample ID	FD-First Draw	Sample Location	Analysis	Matrix	Container
ALU 1C	FD	Alumni - 10 - Service Rm. - Cold - Main	Chlorine	Drinking Water	250 ml Bottle
ALU 2C	FD	Apt. 10-6 - Kitchen - Cold	Chlorine	Drinking Water	250 ml Bottle
ALU 3C	FD	Alumni - 1 - Service Rm - Cold - Main	Chlorine	Drinking Water	250 ml Bottle
ALU 4C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 5C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 6C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 7C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 8C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 9C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 10C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 11C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 12C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 13C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 14C	FD		Chlorine	Drinking Water	250 ml Bottle
ALU 15C	FD		Chlorine	Drinking Water	250 ml Bottle

Samples taken by: _____ 8/18/16
Signature / Date

Samples relinquished by: _____ 8/18/16
Signature / Date

Samples received by: _____ 8/18/16 1046 23.9°
Signature / Date

Technical Report

prepared for:

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Report Date: 08/19/2016
Client Project ID: SP:16011.07-WA
York Project (SDG) No.: 16H0801

Report Date: 08/19/2016
Client Project ID: SP:16011.07-WA
York Project (SDG) No.: 16H0801

Adelaide Environmental Health Associates, Inc.
1511 Route 22, Suite C24
Brewster NY, 10509
Attention: Mr. John Soter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 18, 2016 and listed below. The project was identified as your project: **SP:16011.07-WA.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16H0801-01	)R 1C/FD/Service Room-1st Floor-Cold Water M:	Water	08/18/2016	08/18/2016

General Notes for York Project (SDG) No.: 16H0801

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 08/19/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: DOR 1C/FD/Service Room-1st Floor-Cold Water Main **York Sample ID:** 16H0801-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16H0801	SP:16011.07-WA	Water	August 18, 2016 12:00 am	08/18/2016

Chlorine, Residual

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Chlorine, Residual**	**0.10**	HT-CL	mg/L	0.050	0.050	1	SM 4500 Cl-G	08/19/2016 10:06	08/19/2016 11:51	PAM
								Certifications:			

Notes and Definitions

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Brewster, NY 10509
adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

*** Test First Draw ***

York Project Number: 16H0801

Site: SUNY Purchase
735 Anderson Hill
Purchase, NY

Lead in Drinking Water
Turn around time: ~~Standard (5 to 7 days)~~ 24 HR
Adelaide Project # SP:16011.07-WA

Date: 8/18/16

Inspector: J. Fallon

Sample ID	FD-First Draw	Sample Location	Analysis	Matrix	Container
DOR 1C	FD	Service Room - 1st Floor - Cold Water Main	Chlorine	Drinking Water	250 ml Bottle
DOR 2C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 3C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 4C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 5C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 6C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 7C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 8C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 9C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 10C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 11C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 12C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 13C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 14C	FD		Chlorine	Drinking Water	250 ml Bottle
DOR 15C	FD		Chlorine	Drinking Water	250 ml Bottle

Samples taken by: _____ 8/18/16
Signature / Date

Samples relinquished by: _____ 8/18/16
Signature / Date

Samples received by: _____ 8/18/16 1096 23.9°
Signature / Date

APPENDIX D

LABORATORY CERTIFICATIONS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2017
Issued April 01, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Fuel Additives	
Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2
Metals I	
Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Metals II	
Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II	
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Metals III	
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4
Non-Metals	
Alkalinity	SM 18-22 2320B (-97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
Color	SM 18-22 2120B (-01)
Nitrate (as N)	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 300.0 Rev. 2.1
Orthophosphate (as P)	EPA 300.0 Rev. 2.1
	SM 18-22 4500-P E (-99)
Solids, Total Dissolved	SM 18-22 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982

Serial No.: 54046

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2017
Issued April 01, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Non-Metals	
Sulfate (as SO4)	EPA 300.0 Rev. 2.1
Trihalomethanes	
Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Volatile Aromatics	
1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
Volatile Aromatics	
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2
Volatile Halocarbons	
1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2

Serial No.: 54046

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2017
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STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Volatile Halocarbons

Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

Serial No.: 54046

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2017
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MR. ANTHONY J. FALCO
ENVIRONMENTAL LABWORKS INC
1348 ROUTE 9W
MARLBORO, NY 12542

NY Lab Id No: 10824

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Bacteriology	
Coliform, Total / E. coli (Qualitative)	SM 18-22 9223B (-97) (Colilert)
E. coli (Enumeration)	SM 18-22 9223B (-97) (Colilert)
Heterotrophic Plate Count	SM 18-22 9215B (-00)
Miscellaneous	
Turbidity	EPA 180.1 Rev. 2.0
Non-Metals	
Alkalinity	SM 18-22 2320B (-97)
Calcium Hardness	SM 18-22 2340C (-97)

Serial No.: 54033