



DEPARTMENT OF THE NAVY
NAVAL AIR STATION
22268 CEDAR POINT ROAD
PATUXENT RIVER, MARYLAND 20670-1154

8090
Ser N45/208
JUL 29 2019

Mr. DuWayne Potter
St. Mary's County Metropolitan Commission
Pretreatment Coordinator
Industrial Pretreatment Section
43990 Commerce Ave.
Hollywood, MD 20636


Dear Mr. Potter:

Enclosed is the Industrial Wastewater Discharge Monitoring Report for the period of April 1, 2019 to June 30, 2019 as required by the St. Mary's County Metropolitan Commission Wastewater Contribution Permit No. 16-WP-001.

On this monitoring report, Naval Air Station (NAS) Patuxent River did encounter a drop below acceptable limits for the pH at Outfall 002. Therefore, NAS Patuxent River will retake the pH reading at this outfall after recalibrating the instrument. We are confident that we will have a result that is within compliance.

If you have questions please contact the Naval Facilities Engineering Command Washington, Public Works Department, Environmental Division, point of contact Mr. Trenton London, Clean Water Program Manager, at 301-757-3093.

Sincerely,


G. H. WATANABE
Commander, CEC, USN
Public Works Officer
By direction of the
Commanding Officer

- Enclosures:
1. Discharge Monitoring Report Outfall 001
 2. Discharge Monitoring Report Outfall 002
 3. Laboratory Data Outfall 001
 4. Laboratory Data Outfall 002

St. Mary's County Metropolitan Commission
Industrial Wastewater Discharge Monitoring Report

1. Company Name: NAS Patuxent River
 Mailing Address: 22445 Peary Road Bldg 504
 Facility Address: Patuxent River, MD 20670
 Telephone Number: (301) 342-3093
2. Permit Number: 16-WP-001
3. Monitoring Period: From: 01 April 2019 to 31 June 2019
4. Outfall Number: **Outfall #001 – Effluent from the Flow Equalization Basin**

Parameter	Results	Units	Frequency of Analysis	Sample Type	Number of Ex	Permit Requirement
BOD5	34	mg/l	1/quarter	24h composite		300 mg/L
TSS	51	mg/l	1/quarter	24h composite		300 mg/L
MBAS	0.175	mg/l	1/quarter	24h composite		20mg/L
Oil & Grease	7.8	mg/l	1/quarter	Grab		100mg/L
Arsenic	<0.02	N/A	1/quarter	24h composite		(1)
Cadmium	<0.02	N/A	1/quarter	24h composite		(1)
Chromium	ND	N/A	1/quarter	24h composite		(1)
Copper	<0.02	N/A	1/quarter	24h composite		(1)
Cyanide (Total)	<0.005	N/A	1/quarter	Grab		(1)
Lead	ND	N/A	1/quarter	24h composite		(1)
Mercury	ND	N/A	1/quarter	24h composite		(1)
Nickel	ND	N/A	1/quarter	24h composite		(1)
Silver	ND	N/A	1/quarter	24h composite		(1)
Zinc	0.035	N/A	1/quarter	24h composite		(1)
pH	7.63	SU	1/quarter	Grab		6.0-10.0 SU
Flow	960,000	gpd	Daily (Average)	Measured		(1)

(1) Monitoring required without limitations

5. Certified Statement: Pretreatment standards for this facility are X are not being met on a consistent basis. The reason(s) for noncompliance and additional operational and maintenance required to comply is as follows:

6. Comments:

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


 Signature of Authorized Representative

26 JUL 2019
 Date

CDR G.H. WATANABE CEC USN
 Typed/Printed Signature

ENCLOSURE (1)

St. Mary's County Metropolitan Commission
Industrial Wastewater Discharge Monitoring Report

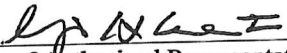
1. Company Name: NAS Patuxent River
 Mailing Address: 22445 Peary Road Bldg 504
 Facility Address: Patuxent River, MD 20670
 Telephone Number: (301) 342-3093
2. Permit Number: 16-WP-001
3. Monitoring Period: From: 01 April 2019 to 31 June 2019
4. Outfall Number: **Outfall #002 – Landfill Leachate**

Parameter	Results	Units	Frequency of Analysis	Sample Type	Number of Ex	Permit Requirement
BOD5	<4	mg/l	1/quarter	24h composite		300 mg/L
TSS	58	mg/l	1/quarter	24h composite		300 mg/L
MBAS	<0.1	mg/l	1/quarter	24h composite		20mg/L
Oil & Grease	ND	mg/l	1/quarter	Grab		100mg/L
Arsenic	<0.02	N/A	1/quarter	24h composite		(1)
Cadmium	ND	N/A	1/quarter	24h composite		(1)
Chromium	ND	N/A	1/quarter	24h composite		(1)
Copper	ND	N/A	1/quarter	24h composite		(1)
Cyanide (Total)	ND	N/A	1/quarter	Grab		(1)
Lead	ND	N/A	1/quarter	24h composite		(1)
Mercury	ND	N/A	1/quarter	24h composite		(1)
Nickel	ND	N/A	1/quarter	24h composite		(1)
Silver	ND	N/A	1/quarter	24h composite		(1)
Thallium	ND	N/A	1/quarter	24h composite		(1)
Zinc	ND	N/A	1/quarter	24h composite		(1)
pH	5.91	SU	1/quarter	Grab		6.0-10.0 SU
Flow	57,000	gpd	Daily (Average)	Measured		(1)

(1) Monitoring required without limitations

5. Certified Statement: Pretreatment standards for this facility are are not being met on a consistent basis.
6. Comments: The pH reading was low (5.91). PAX will calibrate the pH meter and take another reading.

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


 Signature of Authorized Representative

26 JUL 2019
 Date

CDR G.H. WATANABE CEC USN
 Typed/Printed Signature

ENCLOSURE (1)

July 16, 2019

Mr. Kosala DeSilva
Inspection Experts, Inc.
8711 Arrowtip Lane
Lewis Center, OH 43035

Certificate of Analysis

Project Name:	2019-PAX RIVER - WW - CLIENT COLLECTS	Workorder:	3042217
Purchase Order:		Workorder ID:	1511-0036-001-001

Dear Mr. DeSilva:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 26, 2019.

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: Mr. George Tsamoulales



Ms. Sarah S Leung
Project Coordinator

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

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 3042217 1511-0036-001-001

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 performed 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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ANALYTICAL RESULTS

Workorder: 3042217 1511-0036-001-001

Lab ID: **3042217002**
Sample ID: **Outfall 001-C-FB**

Date Collected: 6/26/2019 11:55 Matrix: Waste Water
Date Received: 6/26/2019 22:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Arsenic, Total	ND		mg/L	0.0030	EPA 200.8	7/1/19 12:35	AHI	7/11/19 21:09	MSA	A1
Cadmium, Total	ND		mg/L	0.00040	EPA 200.8	7/1/19 12:35	AHI	7/11/19 21:09	MSA	A1
Chromium, Total	ND		mg/L	0.0020	EPA 200.8	7/1/19 12:35	AHI	7/11/19 21:09	MSA	A1
Copper, Total	0.011		mg/L	0.0036	EPA 200.8	7/15/19 11:15	AHI	7/15/19 21:49	MO	A2
Lead, Total	ND		mg/L	0.0020	EPA 200.8	7/1/19 12:35	AHI	7/11/19 21:09	MSA	A1
Mercury, Total	ND		mg/L	0.00020	EPA 245.1	7/2/19 11:25	AHI	7/3/19 02:17	MSA	A
Nickel, Total	ND		mg/L	0.0036	EPA 200.8	7/15/19 11:15	AHI	7/15/19 21:49	MO	A2
Silver, Total	ND		mg/L	0.0010	EPA 200.8	7/1/19 12:35	AHI	7/11/19 21:09	MSA	A1
Zinc, Total	0.16		mg/L	0.0050	EPA 200.8	7/1/19 12:35	AHI	7/11/19 21:09	MSA	A1

Ms. Sarah S Leung
Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3042217 1511-0036-001-001

Lab ID	Sample ID	Analysis Method	Prep Method
3042217001	Outfall 001-C	EPA 200.8	EPA TRMD
3042217001	Outfall 001-C	EPA 245.1	EPA 245.1
3042217001	Outfall 001-C	S2540D-11	
3042217001	Outfall 001-C	S5210B-11	
3042217001	Outfall 001-C	SM5540C-2011	
3042217002	Outfall 001-C-FB	EPA 200.8	EPA TRMD
3042217002	Outfall 001-C-FB	EPA 245.1	EPA 245.1

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

Condition of Sample Receipt Form

Client: Inspection Experts Work Order #: 3042217 Initials: gq Date: 6/27/19

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

Cooler #: _____

Temperature (°C): 0 °C

Thermometer ID: 525

Radiological (µCi): _____

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

FB bottle count added to COC



July 10, 2019

Mr. Kosala DeSilva
Inspection Experts, Inc.
8711 Arrowtip Lane
Lewis Center, OH 43035

Certificate of Analysis

Project Name:	2019-PAX RIVER - WW - CLIENT COLLECTS	Workorder:	3042218
Purchase Order:		Workorder ID:	1511-0036-001-001

Dear Mr. DeSilva:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 26, 2019.

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.

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

CC: Mr. George Tsamoulales

Ms. Sarah S Leung
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3042218 1511-0036-001-001

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 performed 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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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3042218 1511-0036-001-001

Lab ID	Sample ID	Analysis Method	Prep Method
3042218001	Outfall 001-G	EPA 1664B	
3042218001	Outfall 001-G	KELADA-01	
3042218001	Outfall 001-G	SM4500CN G-2011	335/4500/9012B

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Condition of Sample Receipt Form

Client: Inspection Experts Work Order #: 3042218 Initials: GW Date: 6/27/19

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

Cooler #: _____
 Temperature (°C): 1°C
 Thermometer ID: 525
 Radiological (µCi): _____

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

date/time added from samples





July 16, 2019

Mr. Kosala DeSilva
Inspection Experts, Inc.
8711 Arrowtip Lane
Lewis Center, OH 43035

Certificate of Analysis

Project Name:	2019-PAX RIVER - WW - CLIENT COLLECTS	Workorder:	3042237
Purchase Order:		Workorder ID:	2019-PAX RIVER - WW - CLIENT C

Dear Mr. DeSilva:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 26, 2019.

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: Mr. George Tsamoulales

Ms. Sarah S Leung
Project Coordinator

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

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SAMPLE SUMMARY

Workorder: 3042237 2019-PAX RIVER - WW - CLIENT C

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 performed 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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ANALYTICAL RESULTS

Workorder: 3042237 2019-PAX RIVER - WW - CLIENT C

Lab ID: **3042237002**
Sample ID: **Outfall 002-C-FB**

Date Collected: 6/26/2019 13:30 Matrix: Waste Water
Date Received: 6/26/2019 22:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Arsenic, Total	ND		mg/L	0.0015	EPA 200.8	7/1/19 12:35	AHI	7/11/19 19:54	MSA	A1
Cadmium, Total	ND		mg/L	0.00020	EPA 200.8	7/1/19 12:35	AHI	7/11/19 19:54	MSA	A1
Chromium, Total	ND		mg/L	0.0010	EPA 200.8	7/1/19 12:35	AHI	7/11/19 19:54	MSA	A1
Copper, Total	0.016		mg/L	0.0025	EPA 200.8	7/15/19 11:15	AHI	7/15/19 22:03	MO	A2
Lead, Total	ND		mg/L	0.0010	EPA 200.8	7/1/19 12:35	AHI	7/11/19 19:54	MSA	A1
Mercury, Total	ND		mg/L	0.00020	EPA 245.1	7/2/19 11:25	AHI	7/3/19 01:49	MSA	A
Nickel, Total	ND		mg/L	0.0025	EPA 200.8	7/15/19 11:15	AHI	7/15/19 22:03	MO	A2
Silver, Total	ND		mg/L	0.00050	EPA 200.8	7/1/19 12:35	AHI	7/11/19 19:54	MSA	A1
Thallium, Total	ND		mg/L	0.00050	EPA 200.8	7/1/19 12:35	AHI	7/11/19 19:54	MSA	A1
Zinc, Total	ND		mg/L	0.0025	EPA 200.8	7/1/19 12:35	AHI	7/11/19 19:54	MSA	A1

Ms. Sarah S Leung
Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3042237 2019-PAX RIVER - WW - CLIENT C

Lab ID	Sample ID	Analysis Method	Prep Method
3042237001	Outfall 002-C	EPA 200.8	EPA TRMD
3042237001	Outfall 002-C	EPA 245.1	EPA 245.1
3042237001	Outfall 002-C	S2540D-11	
3042237001	Outfall 002-C	S5210B-11	
3042237001	Outfall 002-C	SM5540C-2011	
3042237002	Outfall 002-C-FB	EPA 200.8	EPA TRMD
3042237002	Outfall 002-C-FB	EPA 245.1	EPA 245.1

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

Condition of Sample Receipt Form

Client: Inspection Experts Work Order #: 304 2237 Initials: QU Date: 6/27/19

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

Cooler #: _____

Temperature (°C): 0°C

Thermometer ID: S25

Radiological (µCi): _____

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

Rev. 4/29/2019



July 10, 2019

Mr. Kosala DeSilva
Inspection Experts, Inc.
8711 Arrowtip Lane
Lewis Center, OH 43035

Certificate of Analysis

Project Name:	2019-PAX RIVER - WW - CLIENT COLLECTS	Workorder:	3042238
Purchase Order:		Workorder ID:	1511-0036-001-001

Dear Mr. DeSilva:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 26, 2019.

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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.

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

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SAMPLE SUMMARY

Workorder: 3042238 1511-0036-001-001

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.
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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3042238 1511-0036-001-001

Lab ID	Sample ID	Analysis Method	Prep Method
3042238001	Outfall 002-G	EPA 1664B	
3042238001	Outfall 002-G	KELADA-01	
3042238001	Outfall 002-G	SM4500CN G-2011	335/4500/9012B

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Cooler #: _____

Temperature (°C): 0°C _____

Thermometer ID: S25 _____

Radiological (µCi): _____

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

Rev. 4/29/2019

