UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

March 4, 2016

Mr. Michael D. Harris
Environmental Compliance Manager
New Castle County Department of Special Services
187-A Old Churchman's Road
New Castle, Delaware 19720

Re: Pretreatment Program
NPDES No. DE0050547

Dear Mr. Harris:

Thank you for the timely and generally complete submission of the County's annual pretreatment report for calendar year 2015. For future reports, please include an email address with your contact information. We typically notify POTWs by email of new regulations or other activity in the pretreatment program and want to try to ensure that we have current email addresses for each program.

In reviewing the 2014 annual reports, EPA has continued the program in which specific pretreatment implementation items for each approved program are being tracked. For calendar year 2015, no significant changes were made to the measures. Enclosed is a sheet that summarizes the data for the New Castle County pretreatment program based on your annual report for calendar year 2015, as well as a sheet that provides some additional information on each of the categories listed in the summary. An "Instruction Sheet" that provides more detail on each measure is also enclosed. Generally, the category ratings were not designed to be a direct measure of compliance, but "Category 1" would be considered the best rating for each measure. Finally, a summary of all of the POTW data collected so far for calendar year 2014 has been included to allow you to compare your program to the ratings achieved by POTWs in calendar year 2014.

Measure 1 (influent data) is listed in category 3 for total kjeldahl nitrogen and silver. For both pollutants, the one result submitted for calendar year 2015 exceeded the goal. Note that for pollutants such as total kjeldahl nitrogen, if the POTW conducts routine influent monitoring, we generally request that monthly average influent results be submitted rather than the individual daily results. Use of the monthly average result will often eliminate small exceedances such as those that the County experiences for total kjeldahl nitrogen. Monthly average results would also be appropriate for BOD_5, phosphorus, and total suspended solids. For all other pollutants, individual daily results should be submitted.

Measure 2 (effluent data) is listed in category 2 for silver. The one result submitted for calendar year 2015 was reported as non-detectable, but with a detection level above the goal. The County should talk to its lab to ensure that a test method with a lower detection level is used for future analysis. It is noted that the County has reported data using a lower detection level in

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Customer Service Hotline: 1-800-438-2474

Lovell, John

From: Lovell, John
Sent: Friday, March 04, 2016 10:31 AM
To: 'Bowie, David'
Subject: RE: 2015 Annual Report

Categories: EZ Record - Shared

Thanks Dave.

John Lovell
Pretreatment Coordinator
USEPA Region 3
1650 Arch Street
Philadelphia, PA 19103-2029
215-814-5790
215-814-2318 (fax)

From: Bowie, David [mailto:DGBowie@nccde.org]
Sent: Friday, March 04, 2016 10:15 AM
To: Lovell, John <Lovell.John@epa.gov>
Subject: RE: 2015 Annual Report

Thanks John

Typo

Please see the sheet attached

DAVE

From: Lovell, John [mailto:Lovell.John@epa.gov]
Sent: Friday, March 04, 2016 9:04 AM
To: Bowie, David
Subject: 2015 Annual Report

I started looking at your 2015 annual report and have a question about the effluent data that you have listed on the printout of the influent effluent monitoring data spreadsheet. For BOD you have <0.002 mg/l listed and have a blank for arsenic. Should the <0.002 mg/l be arsenic and should there be a different value for BOD? Also, if you could email me a copy of the spreadsheet that would be helpful.

Thanks.

John Lovell
Pretreatment Coordinator
USEPA Region 3
1650 Arch Street
Philadelphia, PA 19103-2029
215-814-5790
215-814-2318 (fax)

THOMAS P. GORDON
COUNTY EXECUTIVE

J. WAYNE MERRITT
ACTING GENERAL MANAGER

DEPARTMENT OF SPECIAL SERVICES

January 8, 2016

John Lovell
Pretreatment Program Coordinator
US EPA REGION III
1650 ARCH STREET
PHILADELPHIA, PA 19103

RE: Annual Pretreatment Report for 2015

Dear Mr. Lovell:

Please find enclosed the annual pretreatment report for the 2015 reporting year as required per Special Condition A-2. b of the NPDES permit DE0050547. The report includes the activities of the New Castle County pretreatment program in relation to the regulated industries in the MOT service area.

The County no longer accepts wastewater from the portion of the Middletown sewer system that served the facilities listed in the 2002 pretreatment report. Because these facilities no longer discharge to the MOT treatment plant, the County did revoke those facilities pretreatment permits effective October 3, 2002. The County will continue to maintain the MOT pretreatment program with the applicable local limits and actively screen business and industry in the MOT service area.

Should you have any questions or require further information on this matter, please contact David Bowie at (302) 395-5728.

Sincerely,

Michael D. Harris

Michael D. Harris
Environmental Compliance Manager

cc: Glenn Davis, DNREC, encl.
David Bowie, NCC, encl.

file:c:\pretreatment\wac\mot\2015prtrtltr.doc

187-A OLD CHURCHMANS ROAD, NEW CASTLE, DE 19720 PHONE: 302-395-5700 FAX: 302-395-5802

NEW CASTLE COUNTY
DEPARTMENT OF SPECIAL SERVICES
ENGINEERING AND ENVIRONMENTAL COMPLIANCE

PRETREATMENT ANNUAL REPORT
MOT WATER FARM # 1
(JANUARY 2014– DECEMBER 2014)

SUBMITTED TO:

EPA REGION III
1650 ARCH STREET
PHILADELPHIA, PA 19103

AND

DNREC, DIVISION OF WATER RESOURCES
89 KINGS HIGHWAY
DOVER, DE 19903

January 8, 2016

PART A. MOT WATER FARM # 1 PRETREATMENT PERFORMANCE SUMMARY

I. GENERAL INFORMATION

1. Control Authority Name: New Castle County
   Address: 187-A Old Churchman's Road
   City, State, Zip: New Castle, DE 19720
   Contact Person: Michael D. Harris
   Contact Title: Environmental Compliance Manager
   Telephone Number: 302-395-5806
   NPDES Permit No.: DE0050547
   Permit Issuance Date: October 3, 2012 Expiration Date: October 2, 2016
2. Reporting Period: January 1 - December 31, 2015
3. Total Categorical IUs (CIUs): 0
4. Total " Middle Tier" CIUs (MTCIUs): 0
5. Total NonsignifigantCIUs (NSCIUS): 0
6. Total Significant Noncategorical IUs (SNIUs): 0
7. Attachments for Section I – N/A

II. COMPLIANCE MONITORING PROGRAM

1. No. of SIUs with current Control Documents..... 0
2. No. of SIU Facilities Inspected..... 0
3. No. of SIU Facilities Sampled..... 0
4. No. of SIUs submitting self-monitoring reports..... 0
5. Attachments for Section II - N/A

III. SIGNIFICANT INDUSTRIAL USER COMPLIANCE

1. No. of SIUs violating a compliance schedule/No. on a schedule... 0/0
2. No. of SIUs in SNC for the July to December period..... 0
3. No. of SIUs in SNC at any time during the calendar year..... 0
4. No. of SIUs that were also in SNC during the previous calendar year..... 0
5. No. of NSCIUs that violated any standards or requirements 0
6. Attachments for Section III - N/A

IV. ENFORCEMENT ACTIONS

1. Notices/Letters of Violation issued to SIUs..... 0
2. Enforcecable Compliance Schedules issued to SIUs..... . 0
3. Civil suits filed..... 0
4. Criminal Suits filed..... 0
5. No. of SIUs from which penalties have been collected.... 0
6. Other actions (sewer bans, etc.)..... 0
7. Attachments for Section IV - N/A

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge.

Michael D. Harris
Name of Authorized Representative

Environmental Compliance Manager
Title

Michael D Harris
Signature

January 8, 2016
Date

ATTACHMENT 1. GENERAL INFORMATION

1.1 List of Categorical Users:
NONE

1.1a List of New Categorical Users:
NONE

1.2. List of Significant non-categorical users:
NONE

1.4 Changes in Industrial Listing since 01/01/15:

I. ADDITIONS: NONE

II. NAME CHANGES: NONE

III. DELETIONS: NONE

ATTACHMENT II. COMPLIANCE MONITORING PROGRAM

2.1 List of issuance and expiration dates for SIU control documents:
NONE

Control mechanism used – PRETREATMENT PERMITS

2.2 Sampling and inspection summary for reporting period:

LIST OF CATEGORICAL USERS INSPECTED, SAMPLED, AND MONITORED DURING 2015

NONE

LIST OF SIGNIFICANT NONCATEGORICAL USERS INSPECTED, SAMPLED, AND MONITORED DURING 2015:

NONE

LIST OF NONSIGNIFICANT NONCATEGORICAL USERS INSPECTED, SAMPLED, AND MONITORED DURING 2015:

NONE

2.4 List of Facilities not inspected:

N/A

2.5 List of Facilities not sampled:

N/A

2.6 Facilities submitting less than 2 self-monitoring reports

N/A

ATTACHMENT III. SIGNIFICANT INDUSTRIAL USER COMPLIANCE

3.1. List of significant users in SNC at any time during reporting period and reason for SNC:

None

3.2 List of facilities that were in SNC for this reporting year that were also in SNC for the last reporting year:

None

3.3 List of significant users on FORMAL COMPLIANCE SCHEDULES:

None

3.4 List of users on INFORMAL COMPLIANCE SCHEDULES:

None

3.5 Copy of newspaper listing of SIUs in SNC during the calendar year:

None

ATTACHMENT IV ENFORCEMENT ACTIONS

4.1 List of significant users that have received written notices of violation and number of notices issued:

NONE

4.2 List of significant users that have received administrative orders:

None

4.3 List of users assessed penalties:

None

4.4 List of users that have been sued:

None

4.5 Description of all actions included as "Administrative Orders":

None

4.6 Description of any "Other Actions":

None

4.7 List of SIUs which had violations but were not subject to enforcement, and the reason for no action:

None

PART B: PRETREATMENT DEVELOPMENTS

I. SUMMARY OF POTW OPERATIONS

1. Plant Interference, upset, pass-through and permit violations.
In 2015 the facility treated 126.815 MGPY through stream discharge and 137.542 MGPY through spray land application. The following are the permit violations for the facility.

MOT Stream

Missed sample due to mechanical failure in SBR

MOT Spray – NO VIOLATIONS REPORTED FOR 2015

1. a. Influent and Effluent Metals Summaries (Annual average, mg/L):

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter			
Parameter	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent 9/3/15	Effluent 9/3/15	RDL	Unit
TSS							131	ND	4	mg/l
CBOD							160	ND	2.0	mg/l
Ammonia							29.58	ND	0.2	mg/l
TKN							41.98	ND	0.2	mg/l
Total Phosphorus							6.16	0.51	0.05	mg/l
Cyanide							ND	ND	0.02	mg/l
Arsenic							ND	ND	0.0041	mg/l
Cadmium							ND	ND	0.00019	mg/l
Chromium							ND	ND	0.0050	mg/l
Hexavalent Chromium							ND	ND	0.0024	mg/l
Copper							0.061	ND	0.005	mg/l
Lead							0.005	ND	0.00430	mg/l
Mercury							0.0002	ND	0.000047	mg/l
Molybdenum							ND	ND	0.0045	mg/l
Nickel							ND	ND	0.00066	mg/l
Selenium							ND	ND	0.00470	mg/l
Silver							ND	ND	0.000940	mg/l
Zinc							0.21	ND	0.005	mg/l
Phenols							0.00654	ND	**0.00549/0.005**	mg/l
PCBs							ND	ND	**0.00018/0.0004**	mg/l
Pesticides							ND	ND	0.5-2.5	mg/l

ND = Non Detectable NT = Not Taken N/A = Not applicable

PART B: PRETREATMENT DEVELOPMENTS Cont.

2. a. DEWATERED SLUDGE QUALITY DATA (Annual average, mg/kg dry weight)

The MOT facility uses an Aerobic Digester to stabilize the waste sludge generated from the activated sludge SBR BNR system on site. Stabilized Sludge from the Aerobic Digester is pumped to the # 2 lagoon on site for long term storage. The sludge is not analyzed for constituent content.

3 Summary of Trucked or hauled wastewater accepted at plant or in MOT system.

The MOT facility does not accept hauled or trucked wastewater at the plant or in the MOT service area.

4. **ORGANIC PRIORITY POLLUTANTS:**

Samples were taken from the influent and effluent of the plant and analyzed for Organic Priority Pollutants in the reporting year 2015.

NOTES: a. MDL - Minimum Detection Limit. Varied depending on sample type and parameter.
b. Units for values shown in parentheses are identified next to the sample type.

INFLUENT WASTE WATER SAMPLES RESULTS: SAMPLES in **ug/L**

1. VOLATILE detected at > MDL ***EPA 624***
   a. None Detected

2. ACID/BASE COMPOUNDS detected at > MDL ***EPA 625***

   a. Phenol ***6.54 ug/l @ RL of 5.43 ug/l***

   b. Bis(2-Ethylhexyl) phthalate ***5.49 ug/l @ RL of 5.43 ug/l***

3. PESTICIDES / PCBs detected at > MDL ***EPA 608***
   a. ***None Detected***

EFFLUENT WASTEWATER SAMPLES RESULTS: SAMPLES in **ug/L**

1. VOLATILE detected at > MDL ***EPA 624***

   a. ***None Detected***

2. ACIDS/BASE COMPOUNDS detected at > MDL ***EPA 625***
   a. ***None Detected***

3. PESTICIDES /PCBs detected at > MDL ***EPA 608***
   a. ***None Detected***

II. PRETREATMENT PROGRAM CHANGES
NONE

III. MISCELLANEOUS DEVELOPMENTS
NONE

	Total Influent	Average Influent	Total Stream	Average Stream	Discharge Days	Effluent Max.	Total Spray
January-15	25,360,522	818,081	10,756,000	346,968	31	614,000	0
February-15	22,002,951	785,820	3,654,000	365,400	10	657,000	0
March-15	28,321,617	913,601	6,938,000	408,118	17	462,000	8,641,799
April-15	26,965,534	898,851	11,219,000	373,967	30	538,000	13,954,636
May-15	26,726,182	862,135	11,423,000	368,484	31	499,000	19,504,300
June-15	24,588,371	819,612	12,164,000	405,467	30	519,000	12,502,109
July-15	24,071,338	776,495	8,583,000	317,889	27	429,000	15,486,380
August-15	22,493,910	725,610	10,858,000	350,258	31	408,000	20,118,153
September-15	22,371,770	745,726	8,882,000	296,067	30	345,000	11,918,195
October-15	23,723,746	765,282	11,596,000	374,065	31	639,000	13,732,601
November-15	22,928,213	764,274	11,615,000	387,167	30	541,000	12,649,746
December-15	26,007,867	838,963	19,127,000	617,000	31	934,000	9,034,423
Totals	**295,562,021**	**809,759**	**126,815,000**	**385,456**	**329**		**137,542,342**

Facility Name:	NEW CASTLE COUNTY									
Facility ID:	DEP050547	**UNITS:**	MG/L							
Location:	**INFLUENT**			Date	Date	Date	Date	Date	Date	Date
	Pollutant	Goals	Frequency	9/3/2015						
01002	ARSENIC- TOTAL	0.06	1	<0.002						
00310	BOD- 5-DAY	207.434	1	160						
01027	CADMIUM- TOTAL	0.0133	1	<0.002						
01032	CHROMIUM- HEXAVALENT	0.0533	1	<0.01						
01034	CHROMIUM- TOTAL	15.8103	1	<0.005						
01042	COPPER- TOTAL	0.1586	1	0.0619						
00720	CYANIDE- TOTAL	0.0306	1	<0.02						
01051	LEAD- TOTAL	0.8721	1	0.0054						
71900	MERCURY- TOTAL	0.0002	1	<0.0002						
01062	MOLYBDENUM- TOTAL	No Goal	0	0.0478						
01067	NICKEL- TOTAL	0.2538	1	0.005						
00625	NITROGEN- KJELDAHL TOTAL	41.7266	1	41.98						
04166	PCB- TOTAL	0.0001	1	<0.0001						
00665	PHOSPHORUS- TOTAL	11.0312	1	6.16						
01147	SELENIUM- TOTAL	Monitor	1	0.002						
01077	SILVER- TOTAL	0.0071	1	0.01						
00530	SOLIDS- TOTAL SUSPENDED	250.12	1	131						
01092	ZINC- TOTAL	0.2958	1	0.2						

Facility Name:	NEW CASTLE COUNTY									
Facility ID:	DEP050547	**UNITS:**	MG/L							
Location:	**EFFLUENT**			Date	Date	Date	Date	Date	Date	Date
	Pollutant	Goals	Frequency	9/3/2015						
01002	ARSENIC- TOTAL	0.05	1	~~<0.002~~						
00310	BOD- 5-DAY	No Goal	0	<0.002						
01027	CADMIUM- TOTAL	0.01	1	<0.002						
01032	CHROMIUM- HEXAVALENT	0.016	1	<0.01						
01034	CHROMIUM- TOTAL	4	1	<0.005						
01042	COPPER- TOTAL	0.046	1	<0.005						
00720	CYANIDE- TOTAL	0.022	0	<0.02						
01051	LEAD- TOTAL	0.15	1	<0.002						
71900	MERCURY- TOTAL	0.0001	1	<0.0002						
01062	MOLYBDENUM- TOTAL	No Goal	0	0.03						
01067	NICKEL- TOTAL	0.1	1	<0.005						
00625	NITROGEN- KJELDAHL TOTAL	No Goal	0	0.25						
04166	PCB- TOTAL	0.0001	1	<0.0001						
00665	PHOSPHORUS- TOTAL	No Goal	0	0.51						
01147	SELENIUM- TOTAL	No Goal	0	<0.002						
01077	SILVER- TOTAL	0.0009	1	<0.01						
00530	SOLIDS- TOTAL SUSPENDED	No Goal	0	<1						
01092	ZINC- TOTAL	0.276	1	0.032						

New Castle County
Department of Special Services
Environmental Laboratory

RESULTS SUMMARY

Printed 12/21/2015

Job Description

Sampling/Site Group	MOT REGIONAL WWTP	Received Date	9/3/15
Program/Project Name	WWTP OPERATIONS/DMR	Received Time	9:20 AM
Client/Recipient	DAVID BOWIE	Job Number	5039

Summarized Results

Client Name	MOT Regional WWTP	Start Date/Time	9/3/15	7:30 AM
Sample Name	MOT influent	End Date/Time	9/3/15	7:30 AM
Lab Log Number	22786			

Parameter	Result	Limit	Units	Test Meth Ref	Start Date	Start Time	Finish Date	Finish Time	Analyst
AMMONIA	29.58	2.00	MG/L		9/4/15	7:50 AM	9/4/15	10:45 AM	JRH
BOD, 5 DAY	160.00	1.00	MG/L	SM 5210 B	9/3/15	12:20 PM	9/8/15	12:30 PM	JRH
NITRITE 0.02 RANGE	ND	0.02			9/3/15	10:00 AM	9/3/15	2:09 PM	VD
Nitrogen, nitrate	ND	2.00	MG/L	SM 4500-NO3 D	9/3/15	10:00 AM	9/3/15	1:20 PM	VD
Phosphorus, total	6.16	0.10	MG/L	SM 4500-P E	9/15/15	7:15 AM	9/17/15	9:25 AM	JRH
TKN	41.98	2.00	MG/L	SM 4500-Norg C	9/8/15	8:00 AM	9/9/15	2:45 PM	JRH
TSS	131.00	1.00	MG/L	SM 2540 D	9/9/15	9:50 AM	9/10/15	7:30 AM	JRH

Reviewed By:_____

Review Date:_____

Note: ND = Non Detected

187 A Old Churchmans Rd., New Castle DE 19720

Phone (302) 395-5728 Fax (302) 323-2616

New Castle County
Department of Special Services
Environmental Laboratory

RESULTS SUMMARY

Printed 12/21/2015

Job Description

Sampling/Site Group	MOT REGIONAL WWTP	Received Date	9/3/15
Program/Project Name	WWTP OPERATIONS/DMR	Received Time	9:20 AM
Client/Recipient	DAVID BOWIE	Job Number	5040

Summarized Results

Client Name	MOT Regional WWTP	Start Date/Time	9/2/15	7:30 AM
Sample Name	MOT effluent	End Date/Time	9/3/15	7:30 AM
Lab Log Number	22787			

Parameter	Result	Limit	Units	Test Meth Ref	Start Date	Start Time	Finish Date	Finish Time	Analyst
AMMONIA	ND	2.00	MG/L		9/4/15	7:50 AM	9/4/15	10:45 AM	JRH
CBOD, 5 Day	1.00	1.00	MG/L	SM 5210 B	9/3/15	12:20 PM	9/8/15	12:30 PM	JRH
NITRITE 0.02 RANGE	ND	0.02			9/3/15	10:00 AM	9/3/15	2:09 PM	VD
Nitrogen, nitrate	6.49	2.00	MG/L	SM 4500-NO3 D	9/3/15	10:00 AM	9/3/15	1:20 PM	VD
Phosphorus, total	0.51	0.10	MG/L	SM 4500-P E	9/15/15	7:15 AM	9/17/15	9:25 AM	JRH
TKN (contract lab)	0.25	0.20	MG/L	EPA 351.2	9/3/15	2:35 PM	9/18/15	10:54 AM	ACL
TSS	ND	1.00	MG/L	SM 2540 D	9/9/15	9:50 AM	9/10/15	7:30 AM	JRH

Reviewed By:_____

Review Date:_____

Note: ND = Non Detected

187 A Old Churchmans Rd., New Castle DE 19720

Phone (302) 395-5728 Fax (302) 323-2616

eurofins | QC

Analytical Report

Serialized: 09/16/2015 04:41pm QC36

DAVID BOWIE
NEW CASTLE COUNTY SPECIAL SERVICES ENGIN
ROBERT W. O'BRIEN ENVIRONMENTAL LAB
187A OLD CHURCHMANS ROAD
NEW CASTLE,DE 19720

Regarding:

NEW CASTLE COUNTY SPECIAL SERVICES ENGIN
ROBERT W. O'BRIEN ENVIRONMENTAL LAB
187A OLD CHURCHMANS ROAD
NEW CASTLE, DE 19720

PROJECT ID:

AL0148

JOB ID:

PRIORITY POLLUTANT

LABORATORY REPORT NUMBER:

L5803039

PO NUMBER:

PO 166059

NELAP ACCREDITED TNI LABORATORY

Authorized by: Oommen V. Kappil, QA Director

EQC Accreditations: Eurofins QC, Inc - Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Eurofins QC, Inc - Delaware Division: State ID's: DE 00011, MD 138
Eurofins QC, Inc - Vineland Division: State ID: NJ 06005; Eurofins QC, Inc - Reading Div: State ID: PA 06-03543
Eurofins QC, Inc - Wind Gap Division: State ID's: PA 48-01334, NJ PA001
Eurofins QC, Inc - E. Rutherford Division: State ID: NJ 02015

Eurofins QC, Inc.

Analytical Report

Printed 09/16/15 16:41 QC36

DAVID BOWIE
NEW CASTLE COUNTY SPECIAL SERVICES ENGIN
ROBERT W. O'BRIEN ENVIRONMENTAL LAB
187A OLD CHURCHMANS ROAD
NEW CASTLE, DE 19720

Regarding:
DAVID BOWIE
NEW CASTLE COUNTY SPECIAL SERVICES ENGIN
ROBERT W. O'BRIEN ENVIRONMENTAL LAB
187A OLD CHURCHMANS ROAD
NEW CASTLE, DE 19720

Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN

P.O. No:PO 166059

Inv. No: 1734253 PI
PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-1	22786 MOT INFLUENT COMP	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Total Recoverable Phenolics	0.0870	0.0313	mg/l	EPA 420.1	6.25		09/15/15 08:30AM MRP
Chromium, hexavalent	ND	0.0100	mg/l	SM 3500CR B	1		09/03/15 08:10PM NMW
METALS							
Aluminum	0.820	0.0200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Antimony	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Beryllium	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Cadmium	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Chromium	ND	0.00500	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Copper	0.0619	0.00500	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Lead	0.00540	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Molybdenum	0.0478	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Nickel	ND	0.00500	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Selenium	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Silver	ND	0.0100	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Thallium	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Zinc	0.211	0.00500	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 10:09AM GJH
Mercury	ND	0.000200	mg/l	EPA 245.1 Rev 3.0	1		09/10/15 02:50PM RMP

PIN: 22289

Serial Number: 5043375

Eurofins QC, Inc.

Analytical Report

Printed 09/16/15 16:41

Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN P.O. No:PO 166059 Inv. No: 1734253 PI
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-1	22786 MOT INFLUENT COMP	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; SEMI-VOLATILES							
1,2,4-Trichlorobenzene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
1,2-Diphenylhydrazine	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2,4,6-Trichlorophenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2,4-Dichlorophenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2,4-Dimethylphenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2,4-Dinitrophenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2,4-Dinitrotoluene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2,6-Dinitrotoluene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2-Chloronaphthalene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2-Chlorophenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
2-Nitrophenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
3,3'-Dichlorobenzidine	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
4,6-Dinitro-2-methylphenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
4-Bromophenyl phenyl ether	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
4-Chloro-3-methylphenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
4-Chlorophenyl phenyl ether	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
4-Nitrophenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Acenaphthene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Acenaphthylene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Anthracene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Benzidine	ND	21.7	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Benzo(a)anthracene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Benzo(a)pyrene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Benzo(b)fluoranthene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Benzo(g,h,i)perylene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Benzo(k)fluoranthene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
bis(2-Chloroethoxy)methane	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
bis(2-Chloroethyl) ether	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
bis(2-Chloroisopropyl) ether	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
bis(2-Ethylhexyl) phthalate	5.79	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Butyl benzyl phthalate	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Chrysene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Di-n-Butylphthalate	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Di-n-Octylphthalate	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Dibenz(a,h)anthracene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Diethylphthalate	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Dimethylphthalate	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Dioxin Screen	ND			EPA 625			09/09/15 06:04AM BJL
Fluoranthene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Fluorene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Hexachlorobenzene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Hexachlorobutadiene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL

PIN: 22289 Serial Number: 5043375

Eurofins QC, Inc.

Analytical Report

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Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN P.O. No:PO 166059 Inv. No: 1734253 PI
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-1	22786 MOT INFLUENT COMP	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; SEMI-VOLATILES continued							
Hexachlorocyclopentadiene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Hexachloroethane	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Indeno(1,2,3-cd)pyrene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Isophorone	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
N-Nitroso-di-n-propylamine	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
N-Nitrosodimethylamine	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
N-Nitrosodiphenylamine	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Naphthalene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Nitrobenzene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Pentachlorophenol	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Phenanthrene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Phenol	6.54	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
Pyrene	ND	5.43	ug/l	EPA 625	1		09/09/15 04:13AM BJL
GAS CHROMATOGRAPHY							
4,4'-DDD	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
4,4'-DDE	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
4,4'-DDT	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Aldrin	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
alpha-BHC	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Aroclor 1016	ND	0.500	ug/l	EPA 608	1		09/09/15 06:03PM GMP
Aroclor 1221	ND	0.500	ug/l	EPA 608	1		09/09/15 06:03PM GMP
Aroclor 1232	ND	0.500	ug/l	EPA 608	1		09/09/15 06:03PM GMP
Aroclor 1242	ND	0.500	ug/l	EPA 608	1		09/09/15 06:03PM GMP
Aroclor 1248	ND	0.500	ug/l	EPA 608	1		09/09/15 06:03PM GMP
Aroclor 1254	ND	0.500	ug/l	EPA 608	1		09/09/15 06:03PM GMP
Aroclor 1260	ND	0.500	ug/l	EPA 608	1		09/09/15 06:03PM GMP
beta-BHC	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Chlordane	ND	0.200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
delta-BHC	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Dieldrin	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Endosulfan I	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Endosulfan II	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Endosulfan sulfate	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Endrin	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Endrin aldehyde	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
gamma-BHC (Lindane)	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Heptachlor	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Heptachlor epoxide	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Methoxychlor	ND	0.0200	ug/l	EPA 608	1		09/10/15 05:48AM GMP
Toxaphene	ND	0.500	ug/l	EPA 608	1		09/10/15 05:48AM GMP

PIN: 22289 Serial Number: 5043375

Eurofins QC, Inc.

Analytical Report

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Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN P.O. No:PO 166059 Inv. No: 1734253 PI
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-1	22786 MOT INFLUENT COMP	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
SUBCONTRACT							
Asbestos Water	ATTACHED						

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-2	22787 MOT EFFLUENT COMP	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Total Recoverable Phenolics	0.00800	0.00500	mg/l	EPA 420.1	1		09/15/15 08:30AM MRP
Chromium, hexavalent	ND	0.0100	mg/l	SM 3500CR B	1		09/03/15 08:10PM NMW
METALS							
Aluminum	0.121	0.0200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Antimony	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Beryllium	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Cadmium	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Chromium	ND	0.00500	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Copper	ND	0.00500	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Lead	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Molybdenum	0.0303	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Nickel	ND	0.00500	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Selenium	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Silver	ND	0.0100	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Thallium	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Zinc	0.0320	0.00500	mg/l	EPA 200.8 Rev 5.4	1		09/15/15 09:54AM GJH
Mercury	ND	0.000200	mg/l	EPA 245.1 Rev 3.0	1		09/10/15 02:51PM RMP

PIN: 22289 Serial Number: 5043375

Eurofins QC, Inc.

Analytical Report

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Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN

P.O. No:PO 166059

Inv. No: 1734253 PI
PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-2	22787 MOT EFFLUENT COMP	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; SEMI-VOLATILES							
1,2,4-Trichlorobenzene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
1,2-Diphenylhydrazine	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2,4,6-Trichlorophenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2,4-Dichlorophenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2,4-Dimethylphenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2,4-Dinitrophenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2,4-Dinitrotoluene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2,6-Dinitrotoluene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2-Chloronaphthalene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2-Chlorophenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
2-Nitrophenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
3,3'-Dichlorobenzidine	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
4,6-Dinitro-2-methylphenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
4-Bromophenyl phenyl ether	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
4-Chloro-3-methylphenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
4-Chlorophenyl phenyl ether	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
4-Nitrophenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Acenaphthene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Acenaphthylene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Anthracene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Benzidine	ND	20.0	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Benzo(a)anthracene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Benzo(a)pyrene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Benzo(b)fluoranthene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Benzo(g,h,i)perylene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Benzo(k)fluoranthene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
bis(2-Chloroethoxy)methane	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
bis(2-Chloroethyl) ether	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
bis(2-Chloroisopropyl) ether	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
bis(2-Ethylhexyl) phthalate	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Butyl benzyl phthalate	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Chrysene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Di-n-Butylphthalate	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Di-n-Octylphthalate	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Dibenz(a,h)anthracene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Diethylphthalate	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Dimethylphthalate	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Dioxin Screen	ND			EPA 625			09/10/15 08:09AM BJL
Fluoranthene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Fluorene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Hexachlorobenzene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Hexachlorobutadiene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL

PIN: 22289

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Analytical Report

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Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN P.O. No:PO 166059 Inv. No: 1734253 PI
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-2	22787 MOT EFFLUENT COMP	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; SEMI-VOLATILES continued							
Hexachlorocyclopentadiene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Hexachloroethane	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Indeno(1,2,3-cd)pyrene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Isophorone	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
N-Nitroso-di-n-propylamine	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
N-Nitrosodimethylamine	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
N-Nitrosodiphenylamine	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Naphthalene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Nitrobenzene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Pentachlorophenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Phenanthrene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Phenol	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
Pyrene	ND	5.00	ug/l	EPA 625	1		09/09/15 01:01AM BJL
GAS CHROMATOGRAPHY							
4,4'-DDD	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
4,4'-DDE	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
4,4'-DDT	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Aldrin	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
alpha-BHC	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Aroclor 1016	ND	0.500	ug/l	EPA 608	1		09/09/15 06:22PM GMP
Aroclor 1221	ND	0.500	ug/l	EPA 608	1		09/09/15 06:22PM GMP
Aroclor 1232	ND	0.500	ug/l	EPA 608	1		09/09/15 06:22PM GMP
Aroclor 1242	ND	0.500	ug/l	EPA 608	1		09/09/15 06:22PM GMP
Aroclor 1248	ND	0.500	ug/l	EPA 608	1		09/09/15 06:22PM GMP
Aroclor 1254	ND	0.500	ug/l	EPA 608	1		09/09/15 06:22PM GMP
Aroclor 1260	ND	0.500	ug/l	EPA 608	1		09/09/15 06:22PM GMP
beta-BHC	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Chlordane	ND	0.200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
delta-BHC	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Dieldrin	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Endosulfan I	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Endosulfan II	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Endosulfan sulfate	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Endrin	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Endrin aldehyde	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
gamma-BHC (Lindane)	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Heptachlor	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Heptachlor epoxide	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Methoxychlor	ND	0.0200	ug/l	EPA 608	1		09/10/15 06:09AM GMP
Toxaphene	ND	0.500	ug/l	EPA 608	1		09/10/15 06:09AM GMP

PIN: 22289 Serial Number: 5043375

Eurofins QC, Inc.

Analytical Report

Printed 09/16/15 16:41

Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN

P.O. No:PO 166059

Inv. No: 1734253 PI
PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-2	22787 MOT EFFLUENT COMP	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
SUBCONTRACT							
Asbestos Water	ATTACHED						

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-3	22786 MOT INF GRAB	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Cyanide, total	ND	0.0200	mg/l	SM 4500CN C,E	1		09/15/15 01:00PM JG
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
1,1,1-Trichloroethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,1,2,2-Tetrachloroethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,1,2-Trichloroethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,1-Dichloroethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,1-Dichloroethene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,2-Dichlorobenzene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,2-Dichloroethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,2-Dichloropropane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,3-Dichlorobenzene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
1,4-Dichlorobenzene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
2-Chloroethyl vinyl ether	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Benzene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Bromodichloromethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Bromoform	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Bromomethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Carbon tetrachloride	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Chlorobenzene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Chloroethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Chloroform	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Chloromethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
cis-1,3-Dichloropropene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Dibromochloromethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Ethylbenzene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Methylene chloride	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD

PIN: 22289

Serial Number: 5043375

Eurofins QC, Inc.

Analytical Report

Printed 09/16/15 16:41

Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN P.O. No:PO 166059 Inv. No: 1734253 PI
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-3	22786 MOT INF GRAB	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued							
Tetrachloroethene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Toluene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
trans-1,2-Dichloroethene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
trans-1,3-Dichloropropene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Trichloroethene	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Trichlorofluoromethane	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD
Vinyl chloride	ND	5.00	ug/l	EPA 624	5		09/04/15 06:25PM JAD

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-4	22787 MOT EFFLUENT GRAB	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Cyanide, total	ND	0.0200	mg/l	SM 4500CN C,E	1		09/15/15 01:00PM JG
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
1,1,1-Trichloroethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,1,2,2-Tetrachloroethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,1,2-Trichloroethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,1-Dichloroethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,1-Dichloroethene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,2-Dichlorobenzene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,2-Dichloroethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,2-Dichloropropane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,3-Dichlorobenzene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
1,4-Dichlorobenzene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
2-Chloroethyl vinyl ether	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Benzene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Bromodichloromethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Bromoform	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Bromomethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Carbon tetrachloride	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Chlorobenzene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Chloroethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Chloroform	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD

PIN: 22289 Serial Number: 5043375

Eurofins QC, Inc.

Analytical Report

Printed 09/16/15 16:41

Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN P.O. No:PO 166059 Inv. No: 1734253 PI
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5803039-4	22787 MOT EFFLUENT GRAB	09/03/15 07:30am NA C	Customer

Satellite Received Temp 10.3 C Iced (Y/N): Y
Exceeds recommended temperature for chemical testing.
Received Date/Time/Temp 09/03/15 02:35pm 3.3 C Iced (Y/N): Y

Parameter	Result	RL	Units	Method	DF	Qual	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued							
Chloromethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
cis-1,3-Dichloropropene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Dibromochloromethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Ethylbenzene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Methylene chloride	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Tetrachloroethene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Toluene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
trans-1,2-Dichloroethene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
trans-1,3-Dichloropropene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Trichloroethene	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Trichlorofluoromethane	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD
Vinyl chloride	ND	1.00	ug/l	EPA 624	1		09/04/15 05:59PM JAD

Sample Comments | Result Qualifiers:

L5803039-1 :

Samples for chemical testing were received at the laboratory outside of the allowed temperature range of just above 0 to 6 degrees C.
Consult your regulatory agency for further guidance on the use of this data.
Asbestos samples subcontracted to Batta Laboratories, Newark, DE.

For 608 Pesticides analysis, the recoveries of Alpha BHC (117% in CCV1, 120% in CCV2), Delta BHC (125% in CCV1, 128% in CCV2), Gamma BHC (122% in CCV1, 125% in CCV2), Heptachlor (120% in CCV1, 127% in CCV2), 4,4 DDD (118% in CCV2), 4,4 DDT (117% in CCV1), Endrin Aldehyde (117% in CCV1, 118% in CCV2), Endosulfan Sulfate (116% in CCV1), Methoxychlor (117% in CCV1), and Endosulfan II (120% in CCV1, 121% in CCV2) in the bracketing continuing calibration verification standards (CCVs) were above the method control limits of 85 to 115%. No target analytes were detected in the sample.

L5803039-2 :

Samples for chemical testing were received at the laboratory outside of the allowed temperature range of just above 0 to 6 degrees C.
Consult your regulatory agency for further guidance on the use of this data.
For 608 Pesticides analysis, the recoveries of Alpha BHC (117% in CCV1, 120% in CCV2), Delta BHC (125% in CCV1, 128% in CCV2), Gamma BHC (122% in CCV1, 125% in CCV2), Heptachlor (120% in CCV1, 127% in CCV2), 4,4 DDD (118% in CCV2), 4,4 DDT (117% in CCV1), Endrin Aldehyde (117% in CCV1, 118% in CCV2), Endosulfan Sulfate (116% in CCV1), Methoxychlor (117% in CCV1), and Endosulfan II (120% in CCV1, 121% in CCV2) in the bracketing continuing calibration verification standards (CCVs) were above the method control limits of 85 to 115%. No target analytes were detected in the sample.

L5803039-3 :

Samples for chemical testing were received at the laboratory outside of the allowed temperature range of just above 0 to 6 degrees C.
Consult your regulatory agency for further guidance on the use of this data.

PIN: 22289 Serial Number: 5043375

Eurofins QC, Inc.

Analytical Report

Printed 09/16/15 16:41

Account No:AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN P.O. No:PO 166059 Inv. No: 1734253 PI
Project No: AL0148, NEW CASTLE COUNTY SPECIAL SERVICES ENGIN PWSID No:

L5803039-4 :

Samples for chemical testing were received at the laboratory outside of the allowed temperature range of just above 0 to 6 degrees C.
Consult your regulatory agency for further guidance on the use of this data.

PIN: 22289 Serial Number: 5043375

DEFINITIONS

Eurofins QC, Inc. (EQC) ***The following terms or abbreviations are used in this report:***

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor (For Microbiology, DF = volume of sample tested)
POS	Positive	QUAL	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The analyte was not detected at a concentration above the RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
Q	Indicates this analyte did not meet quality control requirements.
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the EQC Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the EQC facility in Horsham (702 Electronic Drive, Horsham, PA 19044).
- The test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. EQC's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Karen Battista (Food Micro), Jonathan Decenzi (Food Chemistry), Sue Abbott (EQC Delaware).

EQC Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QCL
QC LABORATORIES

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 1 of 1

Client/Acct. No. Newcastle County
Address
City/State/Zip
Phone/Fax
Client Contact Bowie 395-5728

Bill to/Report to: (if different)

Sampling Site Address: (if different) 2015 MOT Prior Pollut

P.O. No.

QC Contact

Lab LIMS No: L5803039

LAB USE ONLY:

___ Ascorbic/HCl Vials # 6 HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
2 HNO_3 pH <2 2 250 ml
2 H_2SO_4 pH <2 2 250 ml
2 NaOH pH >12 2 250 ml
8 Unpreserved 4-40ml, 4-250 ml
___ Hcl pH
3.3 Temp control 2015 ID# 1212D

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

Field pH, Temp (C or F), ~~DO, Cl_2, S, Cond. etc.~~

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	Number of Containers	ANALYSIS REQUESTED
22786 MOT Inf	9/3/15	730		✓	WW		Various bottles/preserv	Priority pollutants + Asbestos Dioxin Screen Hex Chrom Molybdenum Thallium Antimony Beryllium
22787 MOT Eff	↓	730		✓	W			
*VOC'S Grabs								

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms
☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

	DATE	TIME		DATE	TIME
RELINQUISHED BY SAMPLER 1	9/3/15	1530	RECEIVED BY 1	9/3/15	14:35
RELINQUISHED BY 2	9/3/15	16:00	RECEIVED BY 2 Cooler # 479	9/3/15	16:00
RELINQUISHED BY 3 479	9/3/15	1820	RECEIVED BY 3	9/3/15	1820
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS: 10.3 °C PODEICED

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

Eurofins QC, Inc.

1205 Industrial Highway, Southampton, PA 18966

DELAWARE-SOUTHAMPTON

Inter-Laboratory Transport Form: DS090315

Coolers for Transport

To be completed by person sealing coolers					Complete Section Upon Delivery	
Cooler ID No.	Custody Seal No.	Date	Time	Initials	Temp °C	Iced Y/N
115	090315-1	9-3-15	16:00	PD	2.5	Y
479	090315-2	9-3-15	16:30	PD	3.3	Y
~~938~~	~~090315-3~~	~~9/3/15~~	~~1600~~	~~[illegible]~~	~~2.4~~	~~Y~~
48	090315-4	9-3-15	16:50	PD	2.9	Y
1563	090315-5	9-3-15	16:50	PD	2.4	Y

Please Note the Following:

Individual sample chains of custody must accompany this form.

Once a cooler is sealed, custody seals may not be broken until samples are received at the designated EQC laboratory.

Laboratory use only

Custody Seals intact upon receipt? (Y) / N Initials: MJ

List ID of any seal found broken upon receipt below:

A full legal signature is required. Record all times in military time (24-HR Clock 4:00 PM=1600)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	9-3-15	16:50	[signature]	9-3-15	1650
[signature]	9-3-15	1820	[signature]	9/3/15	1820

Dedicated to a Cleaner Environment Since 1982

batta LABORATORIES

BATTA LABORATORIES, INC.
A Certified MBE Company

Delaware Industrial Park - 6 Garfield Way - Newark, DE 19713-5817
(302) 737-3376 - Fax (302) 737-5764
Web: www.battaenv.com E-mail: battaenv@battaenv.com

E.P.A. LAB ID# DE004

A.I.H.A./NLLAP #100448

NVLAP

CERTIFICATE OF TEM WATER ANALYSIS

Batch ID#: T5904
Revision#: 1

Test Method: EPA 600/R-94/134 (100.2)

Report Date: 9/16/2015

Sampling Data

Instrument Data: Model: JEM1200EXII Magnification: 19x-1000
Analyzer: Kevex Det. Window: 0.008 mm

BLI Project #: L539207
Project Name: QC Laboratories - Eurofins QC Del
Project Location: NCC
Date Sampled: 8/3/2015
Sampled By: CLIENT
Date Received: 9/9/2015

Analytical Parameters

Effective Area (mm^2): 914.48
Media: MCE
Pore Size (µm): 0.22
Grid Area (mm^2): 0.013
Date Prepped: 9/14/2015
Prepped By: J XU
Date Analyzed: 9/15/2015
Analyzed By: JX

Lab Sample #	Client-Supplied Data: Client Sample#	Client-Supplied Data: Sample Location	Analytical Data: # of Asbestos Fibers <10um	Analytical Data: # of Asbestos Fibers >10um	Analytical Data: Amt of Sample Used (mls)	Analytical Data: Total Filter Area Analyzed (mm^2)	Analytical Data: Analytical Sensitivity (MFL)	Analytical Data: 95% Confidence Limit Millions of fibers per liter (lower)	Analytical Data: 95% Confidence Limit Millions of fibers per liter (upper)	Reported Results: Mean Concentration of Asbestos Fibers * (Millions of Fibers per Liter)	
837821	L5803039-1	influent	0	0	5	0.143	1.28 **	0.00	0.00	Non-Detected***	< 1.28
837822	L5803039-2	effluent	0	0	40	0.312	0.07	0.00	0.00	Non-Detected***	< 0.07

* In calculating the mean concentration of millions of fibers per liter (MFL), only the identified fibers greater than 10 microns in length were used.

** This sample set contains sample(s) with Analytical Sensitivities (AS) >0.2 MFL. The EPA method requires AS for drinking water samples to be <0.2 MFL. The AS could not be practically achieved due to serial dilutions.

***Non-Detected applies only to fibers longer than 10 microns for the number of grids actually analyzed. This cannot be interpreted as no asbestos present for the entire sample.

ANALYST: J. Xu

REVIEWED BY:

This report does not constitute endorsement by the EPA or other U.S. government agencies. Test data pertains only to items tested. No assumptions/conclusions should be made to materials or samples not analyzed. Furthermore, BATTA Laboratories assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

CHAIN OF CUSTODY

Page _____ of _____

QC LABORATORIES
Industrial Blvd.
Hampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

Client/Acct. No. Eurofins QC Del.
Address
City/State/Zip
Phone/Fax
Client Contact Ruth P.
PROJECT NCC

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:
____ Ascorbic/HCl Vials # ____ HCl Vials
____ $Na_2S_2O_3$
____ NaOH/Zn acetate pH
____ HNO_3 pH
____ NaOH pH
____ H_2SO_4 pH
____ Unpreserved
____ Temp control ____ IDX

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	Number of Containers: H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S, Cond. etc.
L5803039-1 influent	8/3/15			✓	WW										TEM	Reg IAV
-2 effluent	"			✓	WW										"	

MATRIX CODES
DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

SAMPLED BY: (Name/Company)

Verbal/fax data due: ____/____/____
Hardcopy due: ____/____/____

Report Format: ☐ Standard ☐ Forms
☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
Tim M	9/9/15	1122	[signature]	9/9/15	1123
RELINQUISHED BY 1	DATE	TIME	RECEIVED BY 2	DATE	TIME
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER _____

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT