## Strang, John (DEC)

**From:** Rosemary J. McCormick
**Sent:** Friday, September 02, 2016 4:07 PM
**To:** Nathan J. Shaffer
**Subject:** FW: ALCO - Partial Water Sampling Laboratory Results
**Attachments:** 15060592_Level_2_Partials.pdf; ALCO-Partial SOUTH-01 Sample.xlsx

**Rosemary J McCormick**
**Barton & Loguidice, D.P.C.**

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**From:** Rosemary J. McCormick
**Sent:** Friday, June 26, 2015 11:21 AM
**To:** Joyce E. Edwards
**Cc:** Nathan J. Shaffer; DiSiena, Austin; Andrew Barber
**Subject:** ALCO - Partial Water Sampling Laboratory Results

Good morning,

Please find attached the results for the sample of groundwater collected at the southern end of the ALCO site.

Please note the attached analysis is partial as the laboratory is still analyzing for mercury and total phenolic. The full/finalized results should be in this afternoon. We will forward along the full results when we receive them.

Thank you,

**Rosemary McCormick**
Hydrogeologist I
**Barton & Loguidice, D.P.C.**
Engineers, Environmental Scientists, Planners, Landscape Architects
10 Airline Drive ♦ Suite 200 ♦ Albany, NY 12205 ♦ Phone: (518) 218-1801
www.bartonandloguidice.com

Date Issued: June 25, 2015

# *Pace Analytical e-Report*

**Report prepared for:**
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

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**Project ID:** ALCO
**Sampling Date(s):** June 23, 2015
**Lab Report ID:** 15060592
**Client Service Contact:** Chelsea Farmer (518) 346-4592 ext. 3843

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**Analysis Included:**
PCB Analysis
EPA 624 - SUB Phoenix
EPA 625 - Sub
Cyanide - Subcontracted
Metals Analysis
Oil and Grease
Hexavalent Chromium (7196A)
pH
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith
Technical Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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# Table of Contents

# QUALIFIERS

## Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<15060592P1>

150605921

: 1 of 1

1817189

**Section A**
**Required** Client Information:

Company: Barton + Loguidice DPC
Address: 10 AIRLINE DRIVE
SUITE 200 ALBANY NY 12205
Email To: RMCCORMICK@BARTONANDLOGUIDICE.COM
Phone: (518) 218-1801 Fax: (518) 218-1805
Requested Due Date/TAT: ~~24 HOUR~~

**Section B**
**Required** Project Information:

Report To: ANDY BARBER
Copy To: ROSEMARY MCCORMICK
NATHAN SHAFFER
Purchase Order No.:
Project Name: ALCO
Project Number: 13368.001.001

**Section C**
Invoice Information:

Attention: ACCOUNTS PAYABLE
Company Name: BARTON + LOGUIDICE DPC.
Address: 290 ELWOOD DAVIS RD SYRACUSE NY
Pace Quote Reference: 05019909
Pace Project Manager: NICHOLAS NICHOLAS
Pace Profile #:

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER NYSDEC

Site Location STATE: NY

**Section D**
**Required** Client Information

**SAMPLE ID**
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

**Matrix Codes**
MATRIX / CODE

| | |
|---|---|
| Drinking Water | DW |
| Water | WT |
| Waste Water | WW |
| Product | P |
| Soil/Solid | SL |
| Oil | OL |
| Wipe | WP |
| Air | AR |
| Tissue | TS |
| Other | OT |

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N: Phenols by 420.4 | PCB by 8082 | Hex. Chrome / pH | TSS | EPA 624 | EPA 625 | Cyanide | Metals by 200.7 ICP | Oil & Grease by 1664 | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SOUTH-01 | WT | G | | | 6/23/15 | 14:20 | | 11 | X | X | X | X | X | | | | X | X | X | X | X | X | X | X | X | AS14688 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| | [signature] / BL | 6/23/15 | 14:55 | [signature] | 6/23/15 | 14:55 | → 2190(k) Y/N N |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ORIGINAL

**SAMPLER NAME AND SIGNATURE**
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical

# Sample Condition Upon Receipt

CLIENT NAME: Barton & Loguidice

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐

ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☒ IR Gun 03 ☐ #122087967 ☐

COOLER TEMPERATURE (°C): 21.9

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

COMMENTS:

| | | | | |
|---|---|---|---|---|
| Chain of Custody Present: | ☒Yes | ☐No | | 1. |
| Chain of Custody Filled Out: | ☒Yes | ☐No | | 2. |
| Chain of Custody Relinquished: | ☒Yes | ☐No | | 3. |
| Sampler Name / Signature on COC: | ☐Yes | ☒No | | 4. |
| Samples Arrived within Hold Time: | ☒Yes | ☐No | | 5. |
| Short Hold Time Analysis (<72hr): | ☒Yes | ☐No | | 6. Hex Chrome, pH |
| Rush Turn Around Time Requested: | ☒Yes | ☐No | | 7. 24 hour |
| Sufficient Volume: | ☒Yes | ☐No | | 8. |
| Correct Containers Used: | ☒Yes | ☐No | | 9. |
| - Pace Containers Used: | ☒Yes | ☐No | | |
| Containers Intact: | ☒Yes | ☐No | | 10. |
| Filtered volume received for Dissolved tests: | ☐Yes | ☐No | ☒N/A | 11. |
| Sample Labels match COC: - Includes date/time/ID/Analysis | ☒Yes | ☐No | | 12. |
| All containers needing preservation have been checked: | ☐Yes | ☐No | ☒N/A | 13. Sample preservation of subcontract analyses not verified at Schenectady |
| All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA | ☐Yes | ☐No | ☒N/A | Initial when completed: N/A — Lot # of added preservative: N/A |
| Headspace in VOA Vials (>6mm): | ☐Yes | ☒No | ☐N/A | 14. |
| Trip Blank Present: | ☐Yes | ☐No | ☒N/A | 15. |
| Trip Blank Custody Seals Present: | ☐Yes | ☐No | ☐N/A | |
| Pace Trip Blank Lot #: N/A | | | | |

**Sample Receipt form filled in:** KAC 6/24/15

**Line-Out** (Includes Copying Shipping Documents and verifying sample pH): CLF 6/23/15

**Log In** (Includes notifying PM of any discrepacies and documenting in LIMS): CLF 6/23/15

**Labeling** (Includes Scanning Bottles and entering LAB IDs into pH logbook): CLF 6/23/15

# SAMPLE RECEIPT

# SAMPLE RECEIPT REPORT
# 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**CLIENT:** BARTON AND LOGUIDICE
**PROJECT:** ALCO
**LRF:** 15060592
**REPORT:** ANALYTICAL REPORT
**EDD:** YES
**LRF TAT:** *2 DAY*

**RECEIVED DATE:** 06/23/2015 14:55
**SHIPPED VIA:** DROP OFF [1,2]
**SHIPPING ID:** R. MCCORMICK/BAR-AL [3]
**NUMBER OF COOLERS:** 1
**CUSTODY SEAL INTACT:** NA
**COOLER STATUS:** CHILLED
**TEMPERATURE(S):** [5] 21.9 °C

**SAMPLE SEALS INTACT:** NA
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES
**SAMPLES REC'D IN HOLDTIME:** YES
**DISPOSAL:** BY LAB (45 DAYS)
**COC DISCREPANCY:** NO

**COMMENTS:**

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| CLIENT ID (LAB ID) | TAT-DUE Date [4] | DATE-TIME SAMPLED | MATRIX | METHOD | TEST DESCRIPTION | QC REQUEST |
|---|---|---|---|---|---|---|
| SOUTH-01 (AS14688) | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | | Cyanide - Subcontracted | |
| | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | | Total Phenolics by 420.4 - Subcontracted | |
| | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | EPA 624 | EPA 624 - SUB Phoenix | |
| | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | EPA 625 | EPA 625 - Sub | |
| | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | EPA 7196A | Hexavalent Chromium (7196A) | |
| | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | EPA 8082A | PCB Analysis | |
| | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | EPA 9040C | pH | |
| | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | Oil and Grease | Oil and Grease | |
| | *2 DAY* 06-25-15 | 06/23/2015 14:20 | Water | SM 2540 D-97,-11 | Total Suspended Solids | |

[1]The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
[6]Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

## Reporting Parameters and Lists

EPA 7196A - Hexavalent Chromium (7196A) - (mg/L)
- Hexavalent Chromium

EPA 8082A - PCB Analysis - (ug/L)
- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount

EPA 9040C - pH - (°C)
- pH
- Temperature °C

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)
- Total Suspended Solids

# GC - PCB

Pace Analytical®

# Analytical Sample Results

**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** SOUTH-01
**Lab Sample ID:** 15060592-01 (AS14688)

**Collection Date:** 06/23/2015 14:20
**Sample Matrix:** WATER
**Received Date:** 06/23/2015 14:55
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | GC28F-1654-11 | SW-846 Method 8082A | 06/25/2015 09:29 | KLL | NA | NA | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: | 31179 | EPA 3535A | 06/24/2015 08:31 | ER | 1070 mL | 10.0 mL | NA |

| Analyte | CAS No. | Result (ug/L) | PQL | Dilution Factor | Flags | File ID |
|---|---|---|---|---|---|---|
| Aroclor 1016 | 12674-11-2 | ND | 0.0500 | 1.00 | U | GC28F-1654-11 |
| Aroclor 1221 | 11104-28-2 | ND | 0.0500 | 1.00 | U | GC28F-1654-11 |
| Aroclor 1232 | 11141-16-5 | ND | 0.0500 | 1.00 | U | GC28F-1654-11 |
| Aroclor 1242 | 53469-21-9 | ND | 0.0500 | 1.00 | U | GC28F-1654-11 |
| Aroclor 1248 | 12672-29-6 | ND | 0.0500 | 1.00 | U | GC28F-1654-11 |
| Aroclor 1254 | 11097-69-1 | ND | 0.0500 | 1.00 | U | GC28F-1654-11 |
| Aroclor 1260 | 11096-82-5 | ND | 0.0500 | 1.00 | U | GC28F-1654-11 |
| Total PCB Amount | 1336-36-3 | ND | | 1.00 | U | GC28F-1654-11 |

| Surrogate | CAS No. | % Recovery | Limits (%) | Q[1] | File ID |
|---|---|---|---|---|---|
| Tetrachloro-meta-xylene | 877-09-8 | 74.3 | 47.0-123 | | GC28F-1654-11 |
| Decachlorobiphenyl | 2051-24-3 | 83.6 | 35.0-153 | | GC28F-1654-11 |

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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# Wet Chemistry - pH

Pace Analytical®

## Analytical Sample Results

**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** SOUTH-01
**Lab Sample ID:** 15060592-01 (AS14688)

**Collection Date:** 06/23/2015 14:20
**Sample Matrix:** WATER
**Received Date:** 06/23/2015 14:55
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 1592 | SW-846 9040C | 06/24/2015 12:16 | QKM | NA | NA | NA |

| Analyte | CAS No. | Result | PQL | Dilution Factor | Flags | File ID |
|---|---|---|---|---|---|---|
| pH | NA | **7.02** | 0.00 | 1.00 | | 1592 |
| Temperature °C | NA | **18.0** | 0.00 | 1.00 | | 1592 |

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: The pH analysis was performed as soon as possible after sample receipt at the laboratory. Transit time from sample collection to delivery at the laboratory routinely exceeds 15 minutes. pH is not a certified parameter by NYS-DOH ELAP.

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# Wet Chemistry - TSS

Pace Analytical®

## Analytical Sample Results

**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** SOUTH-01
**Lab Sample ID:** 15060592-01 (AS14688)

**Collection Date:** 06/23/2015 14:20
**Sample Matrix:** WATER
**Received Date:** 06/23/2015 14:55
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 2140 | SM 2540D | 06/24/2015 09:10 | QKM | NA | NA | NA |

| Analyte | CAS No. | Result (mg/L) | PQL | Dilution Factor | Flags | File ID |
|---|---|---|---|---|---|---|
| Total Suspended Solids | WQ001 | **232** | 11.1 | 11.10 | | 2140 |

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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# Wet Chemistry - Hexavalent Chromium

Pace Analytical®

## Analytical Sample Results

**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** SOUTH-01
**Lab Sample ID:** 15060592-01 (AS14688)

**Collection Date:** 06/23/2015 14:20
**Sample Matrix:** WATER
**Received Date:** 06/23/2015 14:55
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 154 | SW-846 7196A | 06/24/2015 09:53 | JLM | NA | NA | NA |

| Analyte | CAS No. | Result (mg/L) | PQL | Dilution Factor | Flags | File ID |
|---|---|---|---|---|---|---|
| Hexavalent Chromium | 18540-29-9 | ND | 0.0400 | 1.00 | U | 154 |

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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# Quality Control Samples (Field)

Pace Analytical®

# Quality Control Results
## Duplicate Sample
**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** SOUTH-01 DUP
**Lab Sample ID:** 15060592-01D (AS14688D)

**Collection Date:** N/A
**Sample Matrix:** WATER
**Received Date:** N/A
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 2140 | SM 2540D | 06/24/2015 09:10 | QKM | NA | NA | NA |

| Analyte | CAS No. | Result (mg/L) | PQL | Dilution Factor | Flags | File ID |
|---|---|---|---|---|---|---|
| Total Suspended Solids | WQ001 | **285** | 12.5 | 12.50 | | 2140 |

| | | | Precision | | | |
|---|---|---|---|---|---|---|
| Analyte | CAS No. | Duplicate (mg/L) | Sample (mg/L) | RPD | Q[1] | Limits (%) |
| Total Suspended Solids | WQ001 | 285 | 232 | 20.4 | * | 20 |

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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# Quality Control Samples (Lab)

Pace Analytical®

# Quality Control Results
## Method Blank

**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** Method Blank (AS14688BRR1)
**Lab Sample ID:** PBLK-24

**Collection Date:** N/A
**Sample Matrix:** WATER
**Received Date:** N/A
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | GC28F-1654-9 | SW-846 Method 8082A | 06/25/2015 09:02 | KLL | NA | NA | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: | 31179 | EPA 3535A | 06/24/2015 08:31 | ER | 1000 mL | 10.0 mL | NA |

| Analyte | CAS No. | Result (ug/L) | PQL | Dilution Factor | Flags | File ID |
|---|---|---|---|---|---|---|
| Aroclor 1016 | 12674-11-2 | ND | 0.0500 | 1.00 | U | GC28F-1654-9 |
| Aroclor 1221 | 11104-28-2 | ND | 0.0500 | 1.00 | U | GC28F-1654-9 |
| Aroclor 1232 | 11141-16-5 | ND | 0.0500 | 1.00 | U | GC28F-1654-9 |
| Aroclor 1242 | 53469-21-9 | ND | 0.0500 | 1.00 | U | GC28F-1654-9 |
| Aroclor 1248 | 12672-29-6 | ND | 0.0500 | 1.00 | U | GC28F-1654-9 |
| Aroclor 1254 | 11097-69-1 | ND | 0.0500 | 1.00 | U | GC28F-1654-9 |
| Aroclor 1260 | 11096-82-5 | ND | 0.0500 | 1.00 | U | GC28F-1654-9 |
| Total PCB Amount | 1336-36-3 | ND | | 1.00 | U | GC28F-1654-9 |

| Surrogate | CAS No. | % Recovery | Limits (%) | Q[1] | File ID |
|---|---|---|---|---|---|
| Tetrachloro-meta-xylene | 877-09-8 | 83.9 | 47.0-123 | | GC28F-1654-9 |
| Decachlorobiphenyl | 2051-24-3 | 101 | 35.0-153 | | GC28F-1654-9 |

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical®

# Quality Control Results
## Lab Control Sample (LCS)
**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** Lab Control Sample (AS14688LRR1)
**Lab Sample ID:** LCS-24

**Collection Date:** N/A
**Sample Matrix:** WATER
**Received Date:** N/A
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | GC28F-1654-10 | SW-846 Method 8082A | 06/25/2015 09:15 | KLL | NA | NA | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: | 31179 | EPA 3535A | 06/24/2015 08:31 | ER | 1000 mL | 10.0 mL | NA |

| Analyte Spiked | CAS No. | Added (ug/L) | LCS (ug/L) | LCS % Rec. | Q[1] | Limits (%) |
|---|---|---|---|---|---|---|
| Aroclor 1242 | 53469-21-9 | 0.500 | 0.476 | 95.3 | | 70.0-130 |

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

| Surrogate | CAS No. | % Recovery | Limits (%) | Q[1] | File ID |
|---|---|---|---|---|---|
| Tetrachloro-meta-xylene | 877-09-8 | 90.7 | 47.0-123 | | GC28F-1654-10 |
| Decachlorobiphenyl | 2051-24-3 | 102 | 35.0-153 | | GC28F-1654-10 |

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

9

Pace Analytical®

# Quality Control Results
## Method Blank

**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** Method Blank (AS13797B)
**Lab Sample ID:** BLANK-95

**Collection Date:** N/A
**Sample Matrix:** WATER
**Received Date:** N/A
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 2140 | SM 2540D | 06/24/2015 09:10 | QKM | NA | NA | NA |

| Analyte | CAS No. | Result (mg/L) | PQL | Dilution Factor | Flags | File ID |
|---|---|---|---|---|---|---|
| Total Suspended Solids | WQ001 | ND | 1.00 | 1.00 | U | 2140 |

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

9

Pace Analytical®

# Quality Control Results
## Lab Control Sample (LCS)

**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** Lab Control Sample (AS13797L)
**Lab Sample ID:** LCS-95

**Collection Date:** N/A
**Sample Matrix:** WATER
**Received Date:** N/A
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 2140 | SM 2540D | 06/24/2015 09:10 | QKM | NA | NA | NA |

| Analyte Spiked | CAS No. | Added (mg/L) | LCS (mg/L) | LCS % Rec. | Q[1] | Limits (%) |
|---|---|---|---|---|---|---|
| Total Suspended Solids | WQ001 | 100 | 92.4 | 92.4 | | 85.0-115 |

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

9

Pace Analytical®

# Quality Control Results
## Lab Control Sample - Duplicate (LCSD)
**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** Lab Control Sample - Duplicate (AS13797LCD)
**Lab Sample ID:** LCSD-95

**Collection Date:** N/A
**Sample Matrix:** WATER
**Received Date:** N/A
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 2140 | SM 2540D | 06/24/2015 09:10 | QKM | NA | NA | NA |

| Analyte Spiked | CAS No. | Added (mg/L) | LCSD (mg/L) | LCSD % Rec. | Q[1] | Limits (%) | Precision: LCS % Rec. | Precision: RPD | Precision: Q[1] | Precision: Limits (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | WQ001 | 100 | 97.5 | 97.5 | | 85.0-115 | 92.4 | 5.36 | | 20 |

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

9

Pace Analytical®

# Quality Control Results
## Method Blank

**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** Method Blank (AS14688B)
**Lab Sample ID:** BLANK-37

**Collection Date:** N/A
**Sample Matrix:** WATER
**Received Date:** N/A
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 154 | SW-846 7196A | 06/24/2015 09:52 | JLM | NA | NA | NA |

| Analyte | CAS No. | Result (mg/L) | PQL | Dilution Factor | Flags | File ID |
|---|---|---|---|---|---|---|
| Hexavalent Chromium | 18540-29-9 | ND | 0.0400 | 1.00 | U | 154 |

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

9

Pace Analytical®

# Quality Control Results
## Lab Control Sample (LCS)
**Job Number:** 15060592

**Pace Analytical Services, Inc.**
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

**Client:** BARTON AND LOGUIDICE
**Project:** ALCO
**Client Sample ID:** Lab Control Sample (AS14688L)
**Lab Sample ID:** LCS-37

**Collection Date:** N/A
**Sample Matrix:** WATER
**Received Date:** N/A
**Percent Solid:** N/A

| | Batch ID | Method | Date | Analyst | Init Wt./Vol. | Final Vol. | Column |
|---|---|---|---|---|---|---|---|
| Analysis 1: | 154 | SW-846 7196A | 06/24/2015 09:53 | JLM | NA | NA | NA |

| Analyte Spiked | CAS No. | Added (mg/L) | LCS (mg/L) | LCS % Rec. | Q[1] | Limits (%) |
|---|---|---|---|---|---|---|
| Hexavalent Chromium | 18540-29-9 | 0.200 | 0.203 | 101 | | 90.0-110 |

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

9

# Subcontract Analysis

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

June 25, 2015

FOR: Attn: Ms. Chelsea Farmer
Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | LIQUID | Collected by: | | 06/23/15 | 14:20 |
| Location Code: | NEASTANY | Received by: | LB | 06/24/15 | 20:00 |
| Rush Request: | 24 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBJ36517
Phoenix ID: BJ36517

Project ID: 15060592
Client ID: SOUTH 01

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Arsenic | 0.011 | 0.004 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Barium | 0.171 | 0.002 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Beryllium | < 0.001 | 0.001 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Cadmium | < 0.001 | 0.001 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Chromium | 0.015 | 0.001 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Copper | 0.047 | 0.005 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Molybdenum | < 0.005 | 0.005 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Nickel | 0.033 | 0.001 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Lead | 0.053 | 0.002 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Selenium | < 0.010 | 0.010 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Zinc | 0.114 | 0.002 | | mg/L | 1 | 06/25/15 | LK | SW6010C |
| Oil and Grease by EPA 1664 | 9.9 | 1.4 | | mg/L | 1 | 06/25/15 | MSF | E1664A |
| Total Cyanide | < 0.01 | 0.01 | | mg/L | 1 | 06/24/15 | O/B/E | SW9010C/SW9012B |
| Semi-Volatile Extraction | Completed | | | | | 06/24/15 | L | SW3520C |
| Total Metals Digestion | Completed | | | | | 06/24/15 | AG | SW3050B |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,1,2,2-tetrachloroethane | ND | 0.50 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,1-Dichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |
| 1,4-Dichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 |

Project ID: 15060592
Client ID: SOUTH 01

Phoenix I.D.: BJ36517

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Bromodichloromethane | ND | 0.50 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Bromomethane | ND | 1.0 | 0.50 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Chlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Chloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Chloroform | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Chloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Dibromochloromethane | ND | 0.50 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| m&p-Xylenes | ND | 1.0 | 0.50 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | 1 |
| Methylene chloride | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| o-Xylene | ND | 1.0 | 0.45 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Toluene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| trans-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 06/25/15 | RM | E624 | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | | % | 1 | 06/25/15 | RM | 70 - 130 % | |
| % Bromofluorobenzene | 104 | | | % | 1 | 06/25/15 | RM | 70 - 130 % | |
| % Dibromofluoromethane | 99 | | | % | 1 | 06/25/15 | RM | 70 - 130 % | |
| % Toluene-d8 | 100 | | | % | 1 | 06/25/15 | RM | 70 - 130 % | |

## Base Neutrals & Acid Compounds

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | 1.5 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 1,2-Dichlorobenzene | ND | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | 1 |
| 1,2-Diphenylhydrazine | ND | 5.0 | 5.0 | ug/L | 1 | 06/25/15 | DD | E625 | 1 |
| 1,3-Dichlorobenzene | ND | 5.0 | 1.5 | ug/L | 1 | 06/25/15 | DD | E625 | 1 |
| 1,4-Dichlorobenzene | ND | 5.0 | 1.5 | ug/L | 1 | 06/25/15 | DD | E625 | 1 |
| 2,4,6-Trichlorophenol | ND | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 2,4-Dichlorophenol | ND | 5.0 | 1.8 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 2,4-Dimethylphenol | ND | 5.0 | 1.2 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 2,4-Dinitrophenol | ND | 5.0 | 3.5 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 2,4-Dinitrotoluene | ND | 5.0 | 2.0 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 2,6-Dinitrotoluene | ND | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 2-Chloronaphthalene | ND | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 2-Chlorophenol | ND | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 2-Nitrophenol | ND | 5.0 | 3.2 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 3,3-Dichlorobenzidine | ND | 20 | 20 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 4,6-Dinitro-2-methylphenol | ND | 5.0 | 5.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 1.5 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 4-Chloro-3-methylphenol | ND | 5.0 | 1.8 | ug/L | 1 | 06/25/15 | DD | E625 | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 1.7 | ug/L | 1 | 06/25/15 | DD | E625 | |

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Project ID: 15060592
Client ID: SOUTH 01

Phoenix I.D.: BJ36517

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | | 5.0 | 2.3 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Acenaphthene | ND | | 5.0 | 1.5 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Acenaphthylene | ND | | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Anthracene | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Benz(a)anthracene | ND | | 5.0 | 1.7 | ug/L | 1 | 06/25/15 | DD | E625 | B |
| Benzidine | ND | | 20 | 2.9 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Benzo(a)pyrene | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Benzo(b)fluoranthene | ND | | 5.0 | 1.7 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Benzo(ghi)perylene | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Benzo(k)fluoranthene | ND | | 5.0 | 1.7 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Benzyl butyl phthalate | 4.1 | J | 5.0 | 1.3 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Bis(2-chloroethoxy)methane | ND | | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Bis(2-chloroethyl)ether | ND | | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Bis(2-chloroisopropyl)ether | ND | | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Bis(2-ethylhexyl)phthalate | ND | | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | B |
| Chrysene | ND | | 5.0 | 1.7 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Dibenz(a,h)anthracene | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Diethyl phthalate | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Dimethylphthalate | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Di-n-butylphthalate | 28 | | 5.0 | 1.3 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Di-n-octylphthalate | ND | | 5.0 | 1.3 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Fluoranthene | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Fluorene | ND | | 5.0 | 1.7 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Hexachlorobenzene | ND | | 5.0 | 1.5 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Hexachlorobutadiene | ND | | 5.0 | 1.8 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Hexachlorocyclopentadiene | ND | | 5.0 | 1.5 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Hexachloroethane | ND | | 5.0 | 1.5 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Indeno(1,2,3-cd)pyrene | ND | | 5.0 | 1.7 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Isophorone | ND | | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Naphthalene | ND | | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Nitrobenzene | ND | | 5.0 | 1.8 | ug/L | 1 | 06/25/15 | DD | E625 | |
| N-Nitrosodimethylamine | ND | | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| N-Nitrosodiphenylamine | ND | | 5.0 | 1.9 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Pentachlorophenol | ND | | 5.0 | 1.9 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Phenanthrene | 5.0 | J | 5.0 | 1.4 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Phenol | ND | | 5.0 | 1.6 | ug/L | 1 | 06/25/15 | DD | E625 | |
| Pyrene | 1.8 | J | 5.0 | 1.7 | ug/L | 1 | 06/25/15 | DD | E625 | |
| **QA/QC Surrogates** | | | | | | | | | | |
| % 2,4,6-Tribromophenol | 63 | | | | % | 1 | 06/25/15 | DD | 15 - 110 % | |
| % 2-Fluorobiphenyl | 86 | | | | % | 1 | 06/25/15 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 36 | | | | % | 1 | 06/25/15 | DD | 15 - 110 % | |
| % Nitrobenzene-d5 | 64 | | | | % | 1 | 06/25/15 | DD | 30 - 130 % | |
| % Phenol-d5 | 24 | | | | % | 1 | 06/25/15 | DD | 15 - 110 % | |
| % Terphenyl-d14 | 88 | | | | % | 1 | 06/25/15 | DD | 30 - 130 % | |

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| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

## Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for th calibration of 1,2-Diphenylhydrazine.

624 Analyses:
Acrylonitrile, 2-Chloroethyl vinyl ether and Acrolein could not be analyzed due to HCL preserved vial, these compounds can only be analyzed on an AS IS vial.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.


**Phyllis Shiller, Laboratory Director**
**June 25, 2015**

10

# Sample Criteria Exceedences Report

## GBJ36517 - NEASTANY



Criteria: None

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Phoenix

2 w/c + IP

# CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

## Pace Analytical Services, Inc.

2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 15060592
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival.
Call for details.

| CLIENT (REPORTS TO BE SENT TO) | PROJECT#/PROJECT NAME: |
|---|---|
| PACE | 15060592 |
| PROJECT MANAGER: | LOCATION (CITY/STATE) ADDRESS: |
| Chelsea Farmer | NY |
| Project: 1368.001 | REQUIRED TURN AROUND TIME: RUSH! 6/25/2015 (IF POSSIBLE) |
| Notes: SAMPLE PRESERVATION NOT VERIFIED AT SCHENECTADY LAB. METALS: AS,BA,BE,CD,CR CL,PB,MO,NI,SE,AG,ZN | NAME OF COURIER (IF USED): |

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - Ice; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

| ELECTRONIC RESULTS | Chelsea.Farmer@pacelabs.com; Nicole.Johnson@pacelabs.com | | | | LAB | PRESERVATIVE CODE: | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | GRAB/ | SAMPLE ID | BOTTLE TYPE: | | | | | | | | |
| SAMPLE ID | DATE | TIME | MATRIX | COMP | (LAB USE ONLY) | BOTTLE SIZE: | | | | | | | | |
| | | | | | | NUMBER OF CONTAINERS | 624 3 vials | 625 1 Amber | CN 1 Naoh | SELECT METALS (200.7) 1 HNO3 | OP & GREASE (1664) 1 Amber | | | REMARKS: |
| SOUTH-01 | 6/23/15 | 14:20 | L | GRAB | AS14688 | 7 | X | X | X | X | X | | | 36517 |

| AMBIENT OR CHILLED | TEMP | COC TAPE: Y N | PROPERLY PRESERVED Y N | OTHER NOTES: Analytical Report (LEVEL-2) EDD: EQUIS-DEC-DE |
|---|---|---|---|---|
| RECEIVED BROKEN OR LEAKING: Y N | | COC DISCREPANCIES: Y N | RECOMMENDED TIMES Y N | |

| RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | RECEIVED BY |
|---|---|---|---|---|---|
| SIGNATURE: [signature] | SIGNATURE: [signature] | SIGNATURE: [signature] | SIGNATURE: | SIGNATURE: | SIGNATURE: [signature] |
| PRINTED NAME: D.B. Butler | PRINTED NAME: Geoffrey Whittle | PRINTED NAME: Geoffrey Whittle | PRINTED NAME: | PRINTED NAME: | PRINTED NAME: |
| COMPANY: PACE | COMPANY: Phoenix Environmental | COMPANY: Phoenix Environmental | COMPANY: | COMPANY: | COMPANY: |
| DATE/TIME: 6/24/15 15:00 | DATE/TIME: 24 June 2015 1500 | DATE/TIME: 24 June 2015 1900 | DATE/TIME: | DATE/TIME: | DATE/TIME: 6/24/15 20:00 |

© [illegible]

| | | | Sample ID | SOUTH-01 | |
|---|---|---|---|---|---|
| | | | Matrix | Water | |
| | | | Lab Sample ID | AS10250 | |
| | | | Date Sampled | 6/23/2015 | |
| TEST | COMPOUND | Sewer Discharge | UNIT | AMOUNT | NOTE |
| 9040C | pH | 5.5-9.5 | | **7.02** | |
| 9040C | Temperature °C | - | °C | **18** | |
| EPA Method 624 | 1,1,1-Trichloroethane | 100 | ug/L | ND | |
| EPA Method 624 | 1,1,2,2-Tetrachloroethane | - | ug/L | ND | |
| EPA Method 624 | 1,1,2-Trichloroethane | - | ug/L | ND | |
| EPA Method 624 | 1,1-Dichloroethane | - | ug/L | ND | |
| EPA Method 624 | 1,1-Dichloroethene | - | ug/L | ND | |
| EPA Method 624 | 1,2-Dichlorobenzene | - | ug/L | ND | |
| EPA Method 624 | 1,2-Dichloroethane | - | ug/L | ND | |
| EPA Method 624 | 1,2-Dichloropropane | - | ug/L | ND | |
| EPA Method 624 | 1,3-Dichlorobenzene | - | ug/L | ND | |
| EPA Method 624 | 1,4-Dichlorobenzene | - | ug/L | ND | |
| EPA Method 624 | Benzene | 100 | ug/L | ND | |
| EPA Method 624 | Bromodichloromethane | - | ug/L | ND | |
| EPA Method 624 | Bromoform | - | ug/L | ND | |
| EPA Method 624 | Bromomethane | - | ug/L | ND | |
| EPA Method 624 | Carbon tetrachloride | - | ug/L | ND | |
| EPA Method 624 | Chlorobenzene | - | ug/L | ND | |
| EPA Method 624 | Chloroethane | - | ug/L | ND | |
| EPA Method 624 | Chloroform | - | ug/L | ND | |
| EPA Method 624 | Chloromethane | - | ug/L | ND | |
| EPA Method 624 | cis-1,2-Dichloroethene | 100 | ug/L | ND | |
| EPA Method 624 | cis-1,3-Dichloropropene | - | ug/L | ND | |
| EPA Method 624 | Dibromochloromethane | - | ug/L | ND | |
| EPA Method 624 | Ethylbenzene | 100 | ug/L | ND | |
| EPA Method 624 | Methylene chloride | 100 | ug/L | ND | |
| EPA Method 625 | o-Xylene | - | ug/L | ND | |
| EPA Method 626 | m&p-Xylenes | 100 | ug/L | ND | |
| EPA Method 624 | Methyl t-butyl ether | - | ug/L | ND | |
| EPA Method 624 | Tetrachloroethene | - | ug/L | ND | |
| EPA Method 624 | Toluene | 100 | ug/L | ND | |
| EPA Method 624 | trans-1,2-Dichloroethene | - | ug/L | ND | |
| EPA Method 624 | trans-1,3-Dichloropropene | - | ug/L | ND | |
| EPA Method 624 | Trichloroethene | 100 | ug/L | ND | |
| EPA Method 624 | Trichlorofluoromethane | 100 | ug/L | ND | |
| EPA Method 624 | Vinyl chloride | - | ug/L | ND | |
| EPA 1664B | Oil & Grease | 200 | mg/L | **9.9** | |
| EPA Method 7196A | Hexavalent Chromium | - | mg/L | ND | U |
| SM 2540D | Total Suspended Solids | 350 | mg/L | **232** | |
| Cyanide | Cyanide | 0.65 | mg/L | <0.1 | |

| 420.4 | Phenolics, total | 4 | mg/L | | |
|---|---|---|---|---|---|
| 7470A | Mercury | 0.05 | mg/L | | |
| EPA 200.7 | Arsenic | 0.2 | mg/L | **0.011** | |
| EPA 200.7 | Barium | 4 | mg/L | **0.171** | |
| EPA 200.7 | Beryllium | - | mg/L | <0.001 | |
| EPA 200.7 | Cadmium | 0.4 | mg/L | <0.001 | |
| EPA 200.7 | Chromium | 4 | mg/L | **0.015** | |
| EPA 200.7 | Copper | - | mg/L | **0.047** | |
| EPA 200.7 | Lead | 0.2 | mg/L | **0.053** | |
| EPA 200.7 | Molybdenum | 1 | mg/L | <0.005 | |
| EPA 200.7 | Nickel | 4 | mg/L | **0.033** | |
| EPA 200.7 | Selenium | 1 | mg/L | <0.010 | |
| EPA 200.7 | Silver | - | mg/L | <0.001 | |
| EPA 200.7 | Zinc | 2 | mg/L | **0.114** | |
| SW846-8082A | Aroclor 1016 | - | ug/L | ND | U |
| SW846-8082A | Aroclor 1221 | - | ug/L | ND | U |
| SW846-8082A | Aroclor 1232 | - | ug/L | ND | U |
| SW846-8082A | Aroclor 1242 | - | ug/L | ND | U |
| SW846-8082A | Aroclor 1248 | - | ug/L | ND | U |
| SW846-8082A | Aroclor 1254 | - | ug/L | ND | U |
| SW846-8082A | Aroclor 1260 | - | ug/L | ND | U |
| SW846-8082A | Total PCB Amount | 1000 | ug/L | ND | U |
| EPA Method 625 | 1,2,4-Trichlorobenzene | - | ug/L | ND | |
| EPA Method 625 | 1,2-Dichlorobenzene | - | ug/L | ND | |
| EPA Method 625 | 1,2-Diphenylhydrazine | - | ug/L | ND | |
| EPA Method 625 | 1,3-Dichlorobenzene | - | ug/L | ND | |
| EPA Method 625 | 1,4-Dichlorobenzene | - | ug/L | ND | |
| EPA Method 625 | 2,4,6-Trichlorophenol | - | ug/L | ND | |
| EPA Method 625 | 2,4-Dichlorophenol | - | ug/L | ND | |
| EPA Method 625 | 2,4-Dimethylphenol | - | ug/L | ND | |
| EPA Method 625 | 2,4-Dinitrophenol | - | ug/L | ND | |
| EPA Method 625 | 2,4-Dinitrotoluene | - | ug/L | ND | |
| EPA Method 625 | 2,6-Dinitrotoluene | - | ug/L | ND | |
| EPA Method 625 | 2-Chloronaphthalene | - | ug/L | ND | |
| EPA Method 625 | 2-Chlorophenol | - | ug/L | ND | |
| EPA Method 625 | 2-Nitrophenol | - | ug/L | ND | |
| EPA Method 625 | 3,3-Dichlorobenzidine | - | ug/L | ND | |
| EPA Method 625 | 4,6-Dinitro-2-methylphenol | - | ug/L | ND | |
| EPA Method 625 | 4-Bromophenyl phenyl ether | - | ug/L | ND | |
| EPA Method 625 | 4-Chloro-3-methylphenol | - | ug/L | ND | |
| EPA Method 625 | 4-Chlorophenyl phenyl ether | - | ug/L | ND | |
| EPA Method 625 | 4-Nitrophenol | - | ug/L | ND | |
| EPA Method 625 | Acenaphthene | - | ug/L | ND | |
| EPA Method 625 | Acenaphthylene | - | ug/L | ND | |
| EPA Method 625 | Anthracene | - | ug/L | ND | |
| EPA Method 625 | Benz(a)anthracene | - | ug/L | ND | |

| | | | | | |
|---|---|---|---|---|---|
| EPA Method 625 | Benzidine | - | ug/L | ND | |
| EPA Method 625 | Benzo(a)pyrene | - | ug/L | ND | |
| EPA Method 625 | Benzo(b)fluoranthene | - | ug/L | ND | |
| EPA Method 625 | Benzo(ghi)perylene | - | ug/L | ND | |
| EPA Method 625 | Benzo(k)fluoranthene | - | ug/L | ND | |
| EPA Method 625 | Benzyl butyl phthalate | - | ug/L | **4.1** | J |
| EPA Method 625 | Bis(2-chloroethoxy)methane | - | ug/L | ND | |
| EPA Method 625 | Bis(2-chloroethyl)ether | - | ug/L | ND | |
| EPA Method 625 | Bis(2-chloroisopropyl)ether | - | ug/L | ND | |
| EPA Method 625 | Bis(2-ethylhexyl)phthalate | - | ug/L | ND | |
| EPA Method 625 | Chrysene | - | ug/L | ND | |
| EPA Method 625 | Dibenz(a,h)anthracene | - | ug/L | ND | |
| EPA Method 625 | Diethyl phthalate | - | ug/L | ND | |
| EPA Method 625 | Dimethylphthalate | - | ug/L | ND | |
| EPA Method 625 | Di-n-butylphthalate | - | ug/L | **28** | |
| EPA Method 625 | Di-n-octylphthalate | - | ug/L | ND | |
| EPA Method 625 | Fluoranthene | - | ug/L | ND | |
| EPA Method 625 | Fluorene | - | ug/L | ND | |
| EPA Method 625 | Hexachlorobenzene | - | ug/L | ND | |
| EPA Method 625 | Hexachlorobutadiene | | ug/L | ND | |
| EPA Method 625 | Hexachlorocyclopentadiene | - | ug/L | ND | |
| EPA Method 625 | Hexachloroethane | - | ug/L | ND | |
| EPA Method 625 | Indeno(1,2,3-cd)pyrene | - | ug/L | ND | |
| EPA Method 625 | Isophorone | - | ug/L | ND | |
| EPA Method 625 | Naphthalene | 100 | ug/L | ND | |
| EPA Method 625 | Nitrobenzene | - | ug/L | ND | |
| EPA Method 625 | N-Nitrosodimethylamine | - | ug/L | ND | |
| EPA Method 625 | N-Nitrosodi-n-propylamine | - | ug/L | ND | |
| EPA Method 625 | N-Nitrosodiphenylamine | - | ug/L | ND | |
| EPA Method 625 | Pentachlorophenol | 100 | ug/L | ND | |
| EPA Method 625 | Phenanthrene | - | ug/L | **5** | J |
| EPA Method 625 | Phenol | - | ug/L | ND | |
| EPA Method 625 | Pyrene | - | ug/L | **1.8** | J |

## Strang, John (DEC)

**From:** Rosemary J. McCormick
**Sent:** Wednesday, July 08, 2015 5:14 PM
**To:** PLafond@schenectadyny.gov
**Cc:** Joyce E. Edwards; Andrew Barber; Nathan J. Shaffer; DiSiena, Austin
**Subject:** ALCO-Laboratory Results

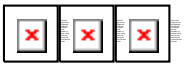
Good afternoon,

Please find attached the results for the sample of groundwater collected from the containment area at the southern end of the ALCO site.
Please note the attached analysis is now complete as the laboratory has analyzed for mercury and total phenolics. I have reviewed the results and found no exceedances of the parameters provided in the discharge permit.

Feel free to contact me with any questions or concerns.

**Rosemary McCormick**
Hydrogeologist I
**Barton & Loguidice, D.P.C.**
Engineers, Environmental Scientists, Planners, Landscape Architects
10 Airline Drive ♦ Suite 200 ♦ Albany, NY 12205 ♦ Phone: (518) 218-1801
www.bartonandloguidice.com





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## Strang, John (DEC)

**From:** Joyce E. Edwards <JEdwards@schenectadyny.gov>
**Sent:** Friday, June 26, 2015 12:15 PM
**To:** Rosemary J. McCormick
**Subject:** RE: ALCO - Partial Water Sampling Laboratory Results

So far, so good.

Joyce E. Edwards
Laboratory Manager / IPP Coordinator
City of Schenectady WPCP
300 Anthony Street
Schenectady, NY 12308
Tel: 518.631.0073
email: jedwards@schenectadyny.gov

---

**From:** Rosemary J. McCormick [mailto:rmccormick@bartonandloguidice.com]
**Sent:** Friday, June 26, 2015 11:21 AM
**To:** Joyce E. Edwards
**Cc:** Nathan J. Shaffer; DiSiena, Austin; Andrew Barber
**Subject:** ALCO - Partial Water Sampling Laboratory Results

Good morning,

Please find attached the results for the sample of groundwater collected at the southern end of the ALCO site.

Please note the attached analysis is partial as the laboratory is still analyzing for mercury and total phenolic. The full/finalized results should be in this afternoon. We will forward along the full results when we receive them.

Thank you,

**Rosemary McCormick**
Hydrogeologist I
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## Strang, John (DEC)

**From:** Nathan J. Shaffer
**Sent:** Friday, August 29, 2014 9:33 AM
**To:** Joyce E. Edwards
**Cc:** Andrew Barber; Paul Lafond
**Subject:** ALCO - Tank 01 - Water Sampling Laboratory Results

Joyce,

Please find attached the water sampling results from the first FRAC tank at the ALCO site. I compared the detected analytes with the City Water Pollution Control Plant Discharge limits and the results are well within the limits.

Please let me know if you need a comparison table created or if the attached laboratory report is sufficient.

If no further table is necessary please notify us with the results of your review.

Thank you,

**Nathan J. Shaffer, I.E.**
Engineer III

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Engineers, Environmental Scientists, Planners, Landscape Architects

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www.bartonandloguidice.com



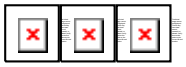

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        image003.png   (2.7KB)

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## Strang, John (DEC)

**From:** Joyce E. Edwards <JEdwards@schenectadyny.gov>
**Sent:** Friday, August 29, 2014 12:27 PM
**To:** Nathan J. Shaffer
**Subject:** RE: ALCO - Tank 01 - Water Sampling Laboratory Results

Hi Nathan,

Upon review of the results, everything is in compliance with City SUO limits. The lab report is sufficient.

Thank you,
Joyce

Joyce E. Edwards
Laboratory Manager / IPP Coordinator
City of Schenectady WPCP
300 Anthony Street
Schenectady, NY 12308
Tel: 518.631.0073
email: jedwards@schenectadyny.gov

---

**From:** Nathan J. Shaffer [mailto:nshaffer@bartonandloguidice.com]
**Sent:** Friday, August 29, 2014 9:33 AM
**To:** Joyce E. Edwards
**Cc:** Andrew Barber; Paul Lafond
**Subject:** ALCO - Tank 01 - Water Sampling Laboratory Results

Joyce,

Please find attached the water sampling results from the first FRAC tank at the ALCO site. I compared the detected analytes with the City Water Pollution Control Plant Discharge limits and the results are well within the limits.

Please let me know if you need a comparison table created or if the attached laboratory report is sufficient.

If no further table is necessary please notify us with the results of your review.

Thank you,

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Engineer III

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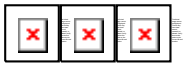



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## Strang, John (DEC)

**From:** Nathan J. Shaffer
**Sent:** Friday, October 03, 2014 12:53 PM
**To:** Joyce E. Edwards
**Cc:** Andrew Barber
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Joyce,
Please see attached revised results for Tank-02 for your review.

Thanks,

**Nathan J. Shaffer, I.E.**
**Barton & Loguidice, D.P.C.**

---

**From:** Joyce E. Edwards [mailto:JEdwards@schenectadyny.gov]
**Sent:** Friday, October 03, 2014 9:19 AM
**To:** Nathan J. Shaffer
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Thank you.

Joyce E. Edwards
Laboratory Manager / IPP Coordinator
City of Schenectady WPCP
300 Anthony Street
Schenectady, NY 12308
Tel: 518.631.0073
email: jedwards@schenectadyny.gov

---

**From:** Nathan J. Shaffer [mailto:nshaffer@bartonandloguidice.com]
**Sent:** Thursday, October 02, 2014 5:37 PM
**To:** Joyce E. Edwards
**Cc:** Andrew Barber
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Joyce,
Just to let you know we are still waiting for the revised lab results for the sampling referenced below. I will forward along once received.

Thanks,

**Nathan J. Shaffer, I.E.**
**Barton & Loguidice, D.P.C.**

---

**From:** Joyce E. Edwards [mailto:JEdwards@schenectadyny.gov]
**Sent:** Wednesday, October 01, 2014 9:46 AM
**To:** Nathan J. Shaffer
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Hi Nathan,

Thank you for the results from Alco Tank-02. Upon review, all results are in the range required by the City's SUO. I did note that **mercury** and **chloroform** were missing from the parameters. Will you check on those please?

Thank you,
Joyce

Joyce E. Edwards
Laboratory Manager / IPP Coordinator
City of Schenectady WPCP
300 Anthony Street
Schenectady, NY 12308
Tel: 518.631.0073
email: jedwards@schenectadyny.gov

---

**From:** Nathan J. Shaffer [mailto:nshaffer@bartonandloguidice.com]
**Sent:** Tuesday, September 30, 2014 4:49 PM
**To:** Joyce E. Edwards
**Cc:** Andrew Barber; Paul Lafond
**Subject:** ALCO - Tank 02 - Water Sampling Laboratory Results

Joyce,

Please find attached the water sampling results from the second FRAC tank (Tank-02) at the ALCO site. I compared the detected analytes with the City Water Pollution Control Plant Discharge limits and the results are within the limits.

Please notify us with the results of your review.

Thank you,

**Nathan J. Shaffer, I.E.**
Engineer III

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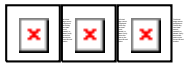

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        image003.gif   (1.3KB)

        (3.5MB)
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## Strang, John (DEC)

**From:** Joyce E. Edwards <JEdwards@schenectadyny.gov>
**Sent:** Friday, October 03, 2014 2:16 PM
**To:** Nathan J. Shaffer
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Looks fine. Thank you for the update.

Joyce

Joyce E. Edwards
Laboratory Manager / IPP Coordinator
City of Schenectady WPCP
300 Anthony Street
Schenectady, NY 12308
Tel: 518.631.0073
email: jedwards@schenectadyny.gov

---

**From:** Nathan J. Shaffer [mailto:nshaffer@bartonandloguidice.com]
**Sent:** Friday, October 03, 2014 12:53 PM
**To:** Joyce E. Edwards
**Cc:** Andrew Barber
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Joyce,
Please see attached revised results for Tank-02 for your review.

Thanks,

**Nathan J. Shaffer, I.E.**
**Barton & Loguidice, D.P.C.**

---

**From:** Joyce E. Edwards [mailto:JEdwards@schenectadyny.gov]
**Sent:** Friday, October 03, 2014 9:19 AM
**To:** Nathan J. Shaffer
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Thank you.

Joyce E. Edwards
Laboratory Manager / IPP Coordinator
City of Schenectady WPCP
300 Anthony Street
Schenectady, NY 12308
Tel: 518.631.0073
email: jedwards@schenectadyny.gov

---

**From:** Nathan J. Shaffer [mailto:nshaffer@bartonandloguidice.com]
**Sent:** Thursday, October 02, 2014 5:37 PM
**To:** Joyce E. Edwards

**Cc:** Andrew Barber
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Joyce,
Just to let you know we are still waiting for the revised lab results for the sampling referenced below. I will forward along once received.

Thanks,

**Nathan J. Shaffer, I.E.**
**Barton & Loguidice, D.P.C.**

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**Sent:** Wednesday, October 01, 2014 9:46 AM
**To:** Nathan J. Shaffer
**Subject:** RE: ALCO - Tank 02 - Water Sampling Laboratory Results

Hi Nathan,

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Thank you,
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**Sent:** Tuesday, September 30, 2014 4:49 PM
**To:** Joyce E. Edwards
**Cc:** Andrew Barber; Paul Lafond
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Please notify us with the results of your review.

Thank you,

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Engineer III

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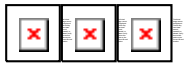



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                image002.gif    (1.3KB)
                image003.gif    (1.3KB)

                (3.8KB)
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## Strang, John (DEC)

**From:** Nathan J. Shaffer
**Sent:** Wednesday, November 12, 2014 4:29 PM
**To:** JEdwards@schenectadyny.gov
**Cc:** Andrew Barber
**Subject:** Fwd: Project ALCO- (14101008)

Joyce,

As mentioned yesterday. Please find attached the full finalized report for the most recent frac tank analysis.

Thank you,

Nathan Shaffer

Sent from my iPhone

Begin forwarded message:

> **From:** "Kelly Miller" <Kelly.Miller@pacelabs.com>
> **To:** "Andrew Barber" <ABarber@bartonandloguidice.com>, "Nathan J. Shaffer" <nshaffer@bartonandloguidice.com>
> **Subject: Project ALCO- (14101008)**
>
> Please see attached analytical data for project, "ALCO- (14101008)". Feel free to contact me with any questions.
>
> ***Please Note:*** *Pace Analytical Services, Schenectady will be closed Thursday November 27 and Friday November 28, 2014 in observance of the Thanksgiving Holiday. Please keep this in mind when planning your sampling schedules and contact your Project Manager in advance if you will require sample receiving services on Saturday November 29, 2014.*
>
> *Kelly Miller*
> Project Manager
>
> Pace Analytical Services, Inc.
> 2190 Technology Drive
> Schenectady, NY 12308
> Phone: (518) 346-4592
> Direct Line: (518) 688-3844
> Fax:(518) 381-6055
>
> Email: Kelly.Miller@pacelabs.com
> www.pacelabs.com

notified that any disclosure, copying distribution or the taking of any action in reliance on the contents of this information is strictly prohibited. If you have received this in error, please immediately notify us by telephone (1.888.990.PACE) to arrange for return of the original documents.

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        ATT00001.htm   (0.3KB)
        14101008_Rev00.csv     (4.6KB)
        ATT00002.htm   (0.2KB)

        (3.7MB)
 >>
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## Strang, John (DEC)

**From:** Joyce E. Edwards <JEdwards@schenectadyny.gov>
**Sent:** Thursday, November 13, 2014 11:38 AM
**To:** Nathan J. Shaffer
**Subject:** RE: Project ALCO- (14101008)

Thank you Nathan. Looks okay.

Joyce E. Edwards
Laboratory Manager / IPP Coordinator
City of Schenectady WPCP
300 Anthony Street
Schenectady, NY 12308
Tel: 518.631.0073
email: jedwards@schenectadyny.gov
-----Original Message-----
From: Nathan J. Shaffer [mailto:nshaffer@bartonandloguidice.com]
Sent: Wednesday, November 12, 2014 4:29 PM
To: Joyce E. Edwards
Cc: Andrew Barber
Subject: Fwd: Project ALCO- (14101008)

Joyce,

As mentioned yesterday. Please find attached the full finalized report for the most recent frac tank analysis.

Thank you,

Nathan Shaffer

Sent from my iPhone

Begin forwarded message:

From: "Kelly Miller" <Kelly.Miller@pacelabs.com<mailto:Kelly.Miller@pacelabs.com>>
To: "Andrew Barber" <ABarber@bartonandloguidice.com<mailto:ABarber@bartonandloguidice.com>>, "Nathan J. Shaffer" <nshaffer@bartonandloguidice.com<mailto:nshaffer@bartonandloguidice.com>>
Subject: Project ALCO- (14101008)

Please see attached analytical data for project, "ALCO- (14101008)". Feel free to contact me with any questions.

Please Note: Pace Analytical Services, Schenectady will be closed Thursday November 27 and Friday November 28, 2014 in observance of the Thanksgiving Holiday. Please keep this in mind when planning your sampling schedules and contact your Project Manager in advance if you will require sample receiving services on Saturday November 29, 2014.

Kelly Miller

Project Manager

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: (518) 346-4592
Direct Line: (518) 688-3844
Fax:(518) 381-6055
Email: Kelly.Miller@pacelabs.com<mailto:Kelly.Miller@pacelabs.com>
www.pacelabs.com<http://www.pacelabs.com/>

WATER DEPARTMENT
CITY OF SCHENECTADY
NEW YORK
ROOM 206, CITY HALL
105 Jay Street
Schenectady, New York 12305
(518) 382-5023
FAX (518) 382-5100

August 18, 2014

Steve Luciano
**Maxon ALCO Holdings LLC.**
301 Nott Street
Schenectady, New York 12305

**RE: Temporary Discharge Permit**
**Maxon ALCO Holdings LLC.**
**301 Nott Street**
**SCHENECTADY, NY**

Dear Mr. Luciano,

We have reviewed the request to temporarily discharge treated groundwater to the City's sanitary sewer system from an excavation dewatering site located at 301 Nott Street. As noted in your permit request, treatment will be oil–water separating baffles and oil skimmed off top prior to discharge.

In accordance with our Sewer Use Ordinance Section 220-31, we have established the following criteria for the discharge of treated groundwater to the City of Schenectady sanitary sewer from the above referenced site:

1. There will be a $100.00 administrative fee made payable to the City of Schenectady to discharge treated groundwater to the City's system prior to the commencement of discharge.

2. There will be a $200.00 permit fee made payable to the City of Schenectady to discharge treated groundwater to the City's system.

3. The City will be reimbursed $25.00 per 1,000 gallons of wastewater discharged to the City's sanitary system, as measured by a reputable flow device.

4. Discharge of treated groundwater shall be made directly to the sanitary sewer without runoff from the site surging onto the affected street or adjacent properties.

5. This temporary discharge permit will be valid for a period of **ninety days** from the date of this letter.

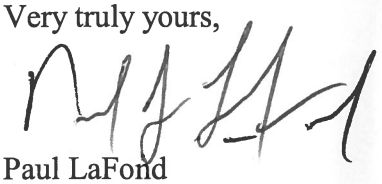
6. The applicant will abide by and conform with the City of Schenectady's Sewer Use Ordinance at all times during the discharge event. If any noticeable change in wastewater characteristic or operational difficulties are experienced, the City reserves the right to reverse the above-mentioned decision.

7. Monitoring samples should be analyzed once per FRAC tank, with the results reported to Joyce Edwards at the City of Schenectady WPCP. Upon review of acceptable analytical results, discharge will be approved. The attached table identifies the monitoring requirements.

8. Notification to Joyce Edwards at the City of Schenectady WPCP, upon completion of the temporary discharge, is required for no further fees.

Should you have any questions, or require any additional information, please feel free to call Joyce Edwards, at (518) 631-0073.

Very truly yours,



Paul LaFond
Director of Water and Wastewater

cc: John Polster, Corporation Counsel
Carl Olsen, Commissioner of General Services
Joyce Edwards, Industrial Pretreatment Coordinator

# City of Schenectady
# Water Pollution Control Facility

| Effluent Parameter | | Discharge Limitations | Units | Monitoring Frequency | Reference |
|---|---|---|---|---|---|
| Biochemical Oxygen Demand | | 300 | mg/L | Startup / Shutdown | COS/SUO |
| Total Suspended Solids | | 350 | mg/L | Startup / Shutdown | COS/SUO |
| pH | | 5.5 – 9.5 | s.u. | Startup / Shutdown | COS/SUO |
| Oil and Grease | | 200 | mg/L | Startup / Shutdown | COS/SUO |
| Arsenic | | 0.2 | mg/L | Startup / Shutdown | COS/SUO |
| Barium | | 4.0 | mg/L | Startup / Shutdown | COS/SUO |
| Cadmium | | 0.4 | mg/L | Startup / Shutdown | COS/SUO |
| Chromium (total) | | 4.0 | mg/L | Startup / Shutdown | COS/SUO |
| Copper | | 0.5 | mg/L | Startup / Shutdown | COS/SUO |
| Cyanide (total) | | 0.65 | mg/L | Startup / Shutdown | COS/SUO |
| Lead | | 0.2 | mg/L | Startup / Shutdown | COS/SUO |
| Mercury | | 0.05 | mg/L | Startup / Shutdown | COS/SUO |
| Molybdenum | | 1.0 | mg/L | Startup / Shutdown | COS/SUO |
| Nickel | | 4.0 | mg/L | Startup / Shutdown | COS/SUO |
| Selenium | | 1.0 | mg/L | Startup / Shutdown | COS/SUO |
| Zinc | | 2.0 | mg/L | Startup / Shutdown | COS/SUO |
| Phenolic compounds (total) | | 4.0 | mg/L | Startup / Shutdown | COS/SUO |
| Polychlorinated Biphenyls | | 1.0 | mg/L | Startup / Shutdown | COS/SUO |
| Bis(2-Ethylhexyl)phthalate | | 8.0 | mg/L | Startup / Shutdown | COS/SUO |
| Benzene | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Ethylbenzene | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Sum of Xylenes | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Toluene | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| 1,3,5-trimethylbenzene | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| 1,2,4-trimethylbenzene | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Cis 1,2-Dichloroethene | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| 1,1,1-Trichloroethane | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Trichloroethene | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Trichlorofluoromethane | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Methylene chloride | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Napthalene | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |
| Pentachlorophenol | | 100 | µg/L | Startup / Shutdown | NYSDEC/DOW |

COS – City of Schenectady
SUO – Sewer Use Ordinance
NYSDEC/DOW – New York State Department of Environmental Conservation / Department of Water

# CITY OF SCHENECTADY
## NEW YORK
ROOM 206, CITY HALL
105 Jay Street
Schenectady, New York 12305
(518) 382-5023
FAX (518) 382-5100


May 5, 2015

Steve Luciano
**Maxon ALCO Holdings LLC.**
695 Rotterdam Industrial Park
Schenectady, New York 12306

**RE: Temporary Discharge Permit**
**Maxon ALCO Holdings LLC.**
**301 Nott Street**
**SCHENECTADY, NY**

Dear Mr. Luciano,

We have reviewed the request to renew the temporary permit to discharge treated groundwater to the City's sanitary sewer system from an excavation dewatering site located at 301 Nott Street. As noted in your permit request, treatment will be oil–water separating baffles and oil skimmed off top prior to discharge. The point for the discharge to the sanitary would be at a manhole near the east end of former building 332.

In accordance with our Sewer Use Ordinance Section 220-31, we have established the following criteria for the discharge of treated groundwater to the City of Schenectady sanitary sewer from the above referenced site:

1. There will be a $100.00 administrative fee made payable to the City of Schenectady to discharge treated groundwater to the City's system prior to the commencement of discharge.

2. There will be a $200.00 permit fee made payable to the City of Schenectady to discharge treated groundwater to the City's system.

3. The City will be reimbursed $25.00 per 1,000 gallons of wastewater discharged to the City's sanitary system, as measured by a reputable flow device.

4. Discharge of treated groundwater shall be made directly to the sanitary sewer without runoff from the site surging onto the affected street or adjacent properties.

5. This temporary discharge permit will be valid for a period of eighteen (18) months from the date of this letter.

6. The applicant will abide by and conform with the City of Schenectady's Sewer Use Ordinance at all times during the discharge event. If any noticeable change in wastewater characteristic or operational difficulties are experienced, the City reserves the right to reverse the above-mentioned decision.

7. Monitoring samples should be analyzed once per FRAC tank, with the results reported to Joyce Edwards at the City of Schenectady WPCP. Upon review of acceptable analytical results, discharge will be approved. The attached table identifies the monitoring requirements.

8. Notification to Joyce Edwards at the City of Schenectady WPCP, upon completion of the temporary discharge, is required for no further fees.

Should you have any questions, or require any additional information, please feel free to contact Mrs. Joyce Edwards, at (518) 631-0073.

Very truly yours,

Paul LaFond
Director of Water and Wastewater

cc: Carl G. Falotico, Corporation Counsel
William Winkler, Commissioner of General Services
Joyce Edwards, Industrial Pretreatment Coordinator

# City of Schenectady
# Water Pollution Control Facility

| Effluent Parameter | | Discharge Limitations | Units | Monitoring Frequency | Reference |
|---|---|---|---|---|---|
| Biochemical Oxygen Demand | | 300 | mg/L | 1 / FRAC Tank | COS/SUO |
| Total Suspended Solids | | 350 | mg/L | 1 / FRAC Tank | COS/SUO |
| pH | | 5.5 – 9.5 | s.u. | 1 / FRAC Tank | COS/SUO |
| Oil and Grease | | 200 | mg/L | 1 / FRAC Tank | COS/SUO |
| Arsenic | | 0.2 | mg/L | 1 / FRAC Tank | COS/SUO |
| Barium | | 4.0 | mg/L | 1 / FRAC Tank | COS/SUO |
| Beryllium | | 20.0 | mg/L | 1 / FRAC Tank | COS/SUO |
| BEHP | | 2.8 | mg/L | 1 / FRAC Tank | COS/SUO |
| Cadmium | | 0.1 | mg/L | 1 / FRAC Tank | COS/SUO |
| Chloroform | | 20.0 | mg/L | 1 / FRAC Tank | COS/SUO |
| Chromium (hexavalent) | | 0.2 | mg/L | 1 / FRAC Tank | COS/SUO |
| Chromium (total) | | 4.0 | mg/L | 1 / FRAC Tank | COS/SUO |
| Copper | | 0.5 | mg/L | 1 / FRAC Tank | COS/SUO |
| Cyanide (total) | | 1.6 | mg/L | 1 / FRAC Tank | COS/SUO |
| Lead | | 0.2 | mg/L | 1 / FRAC Tank | COS/SUO |
| Mercury | | 0.05 | mg/L | 1 / FRAC Tank | COS/SUO |
| Molybdenum | | 0.5 | mg/L | 1 / FRAC Tank | COS/SUO |
| Nickel | | 3.5 | mg/L | 1 / FRAC Tank | COS/SUO |
| Selenium | | 1.6 | mg/L | 1 / FRAC Tank | COS/SUO |
| Silver | | 0.2 | mg/L | 1 / FRAC Tank | COS/SUO |
| Zinc | | 2.0 | mg/L | 1 / FRAC Tank | COS/SUO |
| Phenolic compounds (total) | | 4.0 | mg/L | 1 / FRAC Tank | COS/SUO |
| Polychlorinated Biphenyls | | 1.0 | mg/L | 1 / FRAC Tank | COS/SUO |
| Benzene | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Ethylbenzene | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Sum of Xylenes | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Toluene | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| 1,3,5-trimethylbenzene | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| 1,2,4-trimethylbenzene | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Cis 1,2-Dichloroethene | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| 1,1,1-Trichloroethane | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Trichloroethene | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Trichlorofluoromethane | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Methylene chloride | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Napthalene | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |
| Pentachlorophenol | | 100 | µg/L | 1 / FRAC Tank | NYSDEC/DOW |

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