Members of the Board

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Director
Finance
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Jeanne K. Clark
Director
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Julie Motley-Williams
Director
Administration

September 1, 2023

CONTRACT NO. 1787

MISCELLANEOUS TANK DEMOLITION AND REPLACEMENT PROJECT

ADDENDUM NO. 1

All bidders bidding Contract No. 1787 shall read and take note of this Addendum No. 1. The Contract Documents for **Contract No. 1787 Miscellaneous Tank Demolition and Replacement Project** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1787 Addendum No. 1

The Acknowledgement attached to Addendum No. 1 is to be signed and returned immediately via **email** to Kathleen Uniatowski at Kathleen.Uniatowski@alcosan.org **and** acknowledged with Bidder's Proposal.

Kimberly Kennedy, P.E.
Director – Engineering and Construction

3300 Preble Avenue • Pittsburgh, PA 15233-1092 • ph: 412.766.4810
www.alcosan.org

ACKNOWLEDGEMENT OF

CONTRACT NO. 1787

MISCELLANEOUS TANK DEMOLITION AND REPLACEMENT PROJECT

ADDENDUM NUMBER 1

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

SEPTEMBER 1, 2023

CONTRACT NO. 1787

MISCELLANEOUS TANK DEMOLITION AND REPLACEMENT PROJECT

ADDENDUM NO. 1

SEPTEMBER 1, 2023

CONTRACT NO. 1787

MISCELLANEOUS TANK DEMOLITION AND REPLACEMENT PROJECT

ADDENDUM NO. 1

A. Contract Documents – Volume 1

1. *(No Items)*

B. Contract Specifications – Volume 2

1. *(No Items)*

C. Contract Drawings – Volume 3

1. *Sheet 400-CDM-01*
    a. **General Note #5 and #6 are not applicable to the removal of the hydrogen peroxide tank.**

2. *Sheet 401-CDM-01*
    a. **General Note #5 and #6 are not applicable to the removal of the lime silos.**

3. *Sheet 860-CDM-01*
    a. **General Note #4 and #5 are not applicable to the removal of the defoamer tank.**

D. Questions

1. *Article 2.15 states that a lead paint survey was performed, and that the report is included in the reference information. We have been unable to locate this information. Please provide.*

a. **Response: The lead paint survey is included as attachment "Paint Sampling Test" and "Summary Paint Analysis" to this addendum. In addition the asbestos survey is included as attachment "Building 401 Asbestos Survey Report".**

2. *400-CDM-01: Can the storage cabinet and/or the waste oil system be removed to access the peroxide tank?*
    a. **Response: Per General Note 4, ALCOSAN will relocate this item. Contractor to give ALCOSAN 1 week timeframe before demolition work to start.**

3. *410-CDM-01, 860-CDM-01: On note two please quantify materials to be salvaged and provide a storage location that the salvaged materials will need delivered to. Upon delivery, who is responsible to unload?*
    a. **Response: This shall be determined by Owner and Contractor during the site walk through. ALCOSAN to provide a list of items to be salvaged, where the items should be delivered, and who is responsible for unloading them after the site walk through.**

4. *With whom should future site visits be coordinated?*
    a. **Response: All site visits are to be coordinated with John Findley – ALCOSAN Project Manager.**

5. *Would you be able to provide any information on the weights of the silo's on the Roof?*
    a. **Response: The only shop drawing for the silos lists a shipping weight of 17,150 lbs per tank, however the shop drawing has a note that says to "revise". ALCOSAN does not have a final shop drawing for the silos.**

Attachments:

Specifications:

Other:

- Pre-bid meeting agenda
- Sign-in sheets
- Paint Sampling Test
- Summary Paint Analysis
- Building 401 Asbestos Survey Report

*** * * * END OF ADDENDUM NO. 1* * * ***

CONTRACT 1787
MISCELLANEOUS TANK DEMOLITION AND REPLACEMENT PROJECT
PRE-BID AGENDA

Tuesday, August 22, 2023 @ 11:00 AM
ALCOSAN Teams Meeting

John Findley – ALCOSAN Consultant
Robert Dengler – Gannett Fleming Senior Project Manager

1. Introduction
   a. All attendees shall sign the pre-bid meeting attendance roster.
   b. Opening comments from ALCOSAN Project Manager.
   c. Encourage a target goal of WBE/MBE participation. (10% to 25% of contract value). Suzanne Thomas – Chief Procurement Officer

2. Legal Notice
   a. All bids to be submitted to Alcosan Engineering Department clerks on or before bid opening date and time. If the bid package is sent to ALCOSAN by land courier (UPS, FedEx, etc.), allow sufficient time for delivery to the clerks. *Must submit bid in the official manila envelope that was furnished with the bid documents.*
   b. Bid opening on **Friday, September 8, 2023** at **11:00 A.M** .
   c. Anticipation of award at the September 28th ALCOSAN Board meeting. Notice to proceed expected in early November 2023.
   d. All questions about contract documents shall be submitted **in writing** to Robert Dengler via email at **rdengler@GFNET.com.** Any questions by phone are considered informal and without legal or binding effect on the contract or to the Owner. Last day for questions is **Thursday, August 31, 2023**, by **4:00 P.M.** local (Pittsburgh) time.
   e. Pre-bid meeting is **not** mandatory for bidders.

3. Bidding Documents [Article One]
   a. Bid Form: Complete as required. Specifically, on page 1-2, fill in the total base bid. All bids submitted with all bid forms complete and signed by authorized representative of the Company. Bid Security - Certified check or Bid Bond in the amount of at least ten percent (10%) of bid price shall accompany the bid.
   b. Certificate of MBE/WBE Participation, plus statements. (page 1-14)
   c. Non-collusion Affidavit (page 1-17)
   d. Certificate of Compliance with the Pennsylvania Steel Products Procurement Act (page 1-19)
   e. Contractor's Qualification Statements (page 1-21)
   f. Certificate of Safety Procedures Compliance (page 1-23)

4. Information for Bidders [Article 2]

a. Submission and Opening of Bids (page 2-2)
b. Questions regarding contract documents (page 2-8) [Deadline for questions as listed above.]
c. Acknowledgement of Addenda (page 2-14)
d. Pennsylvania State Sales Tax Exemption (page 2-14)
e. Bid Security (page 2-15)
f. Qualifications and Experience of Bidders (page 2-17)
g. MBE & WBE Participation (page 2-18)
h. Project Labor Agreement, Letter of Assent (page 2-20)

NOTE: Signed letter of assent shall be furnished WITH the bid !!! (page 2A-17)

5. General Contract Conditions [Article Three]

a. These are the details/particulars of the contract.

6. Contract Agreement [Article Four]

a. Construction Milestones:

Construction Milestone	Contract Time (Calendar Days)
Substantial Completion	**356**
Final Completion	**390**

b. Liquidated Damages:

Construction Milestone	Liquidated Damages
Substantial Completion	**$1,000 / Calendar day**
Final Completion	**$500 / Calendar day**

7. Bonds, Certificates and Statements [Article Five]

a. Performance Bond (100% of the total contract value) (page 5-1)
b. Labor and Material Payment Bond (100% of total contract value) (page 5-11)
c. Maintenance Bond (100% of total contract value) (page 5-22)

8. Brief summary of work [more detail in Article 6]

a. Demolition of a 7,000 gallon aboveground horizontal steel Hydrogen Peroxide tank. The tank is currently not in use. Demolition includes the tank, all associated piping which extends into the dewatering facility by roughly 7 feet, the steel supports, and the concrete pad located underneath. The existing area shall be patched and restored to match the concrete drive. In addition, the conduit and receptacle mounted to the tank support shall be relocated to an area chosen by ALCOSAN. The contractor is responsible for properly disposing of any residual liquid leftover in the tank.

b. Demolition of (3) large steel silos that used to store lime, located on the lime building's roof. The lime silos are not currently in use. In addition, new structural steel shall be added to where the openings used to be located and the entire roof decking, roof membrane, drains, and vents shall be replaced.

c. Demolition of a 6,000 gallon vertical fiberglass defoamer tank. This storage tank is currently in service. Demolition includes the tank, all associated piping, CMU block containment walls, and the concrete pad located underneath.

d. Demolition of a 250,000 gallon aboveground vertical steel No. 2 Fuel Oil tank. This DEP registered storage tank is currently not in use. Demolition includes the tank, all fill piping, and the recirculation and supply piping up to the fuel pumps located just inside the energy recovery facility. The recirculation and supply piping lines shall not be removed until the new No. 2 Storage tank is installed, tested, and accepted. The contractor is responsible for properly disposing of any residual fuel, liquid, or sludge leftover in the tank which is estimated to be about 8,500 gallons.

e. Demolition of a 12,000 gallon aboveground horizontal steel Diesel / Temporary No. 2 Fuel oil tank. This DEP registered storage tank is currently in use. This tank previously stored diesel fuel but has recently been changed over to store the temporary No. 2 Fuel Oil. Demolition includes the tank, all temporary piping which connects to the existing 250,000 gallon tank's permanent piping, the steel supports, and the concrete pad located underneath. This demolition shall not occur until the new No. 2 Storage tank is installed, tested, and accepted. The contractor is responsible for pumping any remaining No. 2 Fuel Oil to the new No. 2 Fuel Oil Storage Tank.

f. Modification of the existing containment area that housed the 250,000 gallon No. 2 Fuel Oil Tank along with the 12,000 gallon Diesel / Temporary No. 2 Fuel Oil Storage Tank. These modifications include partial demolition to the walls, footers, and containment slab. Any area where the containment slab is removed shall be back filled with compacted 2a to bring the area back up to match the existing grade.

g. Installation of a new 12,000 gallon aboveground horizontal double containment steel No. 2 Fuel Oil tank. This includes the tank with all required accessories, a new concrete support pad, new recirculation supply and fill lines, new tank level / alarm panels, and all required electrical power. This tank shall be installed, tested, registered with the PADEP, and accepted before being brought online.

h. All work performed on PADEP registered tanks must be performed by certified installers.

9. Open Discussion and wrap-up of Pre-bid Meeting

♦ ♦ ♦ ♦ ♦ END OF AGENDA ♦ ♦ ♦ ♦ ♦

1787-Miscellaneous Tank Demolition and Replacement
PRE-BID MEETING ATTENDANCE ~ MICROSOFT TEAMS

August 22, 2023 at 11:00 AM ~ PM: John Findley

Summary

Meeting title	**PRE-BID MEETING:** 1787-Miscellaneous Tank Demolition and Replacement
Attended	21
Start time	8/22/23, 10:50:16 AM
End time	8/22/23, 11:22:31 AM
Meeting duration	32m 15s
Average attendance time	20m 35s

Full Name	Company	Email	User Action
Kathleen P. Uniatowski	ALCOSAN	kathleen.uniatowski@alcosan.org	8/22/23, 10:53:19 AM
Ben Briston	Gannett Fleming	bbriston@GFNET.com	8/22/23, 10:55:27 AM
Noah H. Harvey	Gannett Fleming	nharvey@GFNET.com	8/22/23, 11:30:58 AM
Robert Dengler	Gannett Fleming	rdengler@GFNET.com	8/22/23, 10:55:57 AM
Jim Zwick	Hayes Mechanical, Inc	jzwick@hayesmechanical.com	8/22/23, 11:00:34 AM
Alex Mahon	Industrial Ex	amahon@indexc.com	8/22/23, 10:56:37 AM
Field Conf Room	Kennedy Tank	FieldConfTV@kennedytank.com	8/22/23, 10:56:37 AM
Tom Crawford	Kokosing	tmc@kokosing.biz	8/22/23, 10:56:57 AM
Bryan Skinner	Kokosing	bas@kokosing.biz	8/22/23, 10:58:25 AM
Matt Fleury	Mascaro Construction, Inc.	mfleury@mascaroconstruction.com	8/22/23, 10:56:18 AM
Renato Ruzzini	Mascaro Construction, Inc.	Rruzzini@mascaroconstruction.com	8/22/23, 10:57:33 AM
David DeChicchis	Mascaro Construction, Inc.	ddechicchis@mascaroconstruction.com	8/22/23, 10:59:51 AM
Steve McMannis	Mele & Mele	smcmannis@meleinc.com	8/22/23, 10:58:03 AM
Dan Kelly	Multivista	d.kelly@multivista.com	8/22/23, 10:55:32 AM
Fred Neumeyer	Neumeyer Environmental	fred@neumeyerenvironmental.com	8/22/23, 10:58:03 AM
Office Manager	Shiloh Industrial contractors, Inc	officemanager@shilohind.com	8/22/23, 11:05:56 AM
Michael Janusey	Shiloh Industrial contractors, Inc	mjanusey@shilohind.com	8/22/23, 10:58:09 AM
Robin Lewis	Simakas	robyn.lewis@simakas.com	8/22/23, 10:58:09 AM
Greg Greiner	Simakas	greg.greiner@simakas.com	8/22/23, 10:58:09 AM

IN PERSON ATTENDANCE

Ray Stasny	ALCOSAN	raymond.stasny@alcosan.org
John Findley	ALCOSAN	John.Findley@alcosan.org
Kathleen P. Uniatowski	ALCOSAN	Kathleen.Uniatowski@alcosan.org
Dan Nichols	Dore & Associates, Inc.	Dcdan4@comcast.net :

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 21, 2023

Eric Oldroyd
Professional Service Industrie
850 Poplar Street
Pittsburgh, PA 15220

RE: Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Dear Eric Oldroyd:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

(Greensburg PA) - Revision 1 - This report replaces the February 14, 2023 report. This project was revised on March 8, 2023 to report the results on a dry weight basis.

(Greensburg PA) - Revision 2 - This report replaces the March 8, 2023 report. This project was revised on March 21, 2023 to report TCLP lead results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

David A. Pichette
david.pichette@pacelabs.com
(724)850-5617
Project Manager

Enclosures

cc: Dave Christner, Professional Service Industries, Inc
Michael Kopar, Professional Service Industries, Inc

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Beaver
225 Industrial Park Road, Beaver, WV 25813
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM
North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

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Greensburg, PA 15601
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SAMPLE SUMMARY

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30559644001	**P-01**	Solid	02/04/23 00:00	02/06/23 10:25
30559644002	**P-02**	Solid	02/04/23 00:00	02/06/23 10:25
30559644003	**P-03**	Solid	02/04/23 00:00	02/06/23 10:25

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30559644001	**P-01**	EPA 6010D	AGB	7	PASI-BV
		EPA 6010D	MFC	1	PASI-BV
		EPA 7471B	JLH	1	PASI-BV
		SM 2540G-2015	AK1	1	PASI-PA
30559644002	**P-02**	EPA 6010D	AGB	7	PASI-BV
		EPA 6010D	MFC	1	PASI-BV
		EPA 7471B	JLH	1	PASI-BV
		SM 2540G-2015	AK1	1	PASI-PA
30559644003	**P-03**	EPA 6010D	AGB	7	PASI-BV
		EPA 6010D	MFC	1	PASI-BV
		EPA 7471B	JLH	1	PASI-BV
		SM 2540G-2015	AK1	1	PASI-PA

PASI-BV = Pace Analytical Services - Beaver
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Method: **EPA 6010D**
Description: BVR 6010D MET ICP,Solid,3050B
Client: Professional Service Industries, Inc.
Date: March 21, 2023

General Information:
3 samples were analyzed for EPA 6010D by Pace Analytical Services Beaver. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 565156

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30558924024

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2743961)
  - Barium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Method: **EPA 6010D**
Description: BVR 6010D MET ICP, TCLP, 3010A
Client: Professional Service Industries, Inc.
Date: March 21, 2023

General Information:
3 samples were analyzed for EPA 6010D by Pace Analytical Services Beaver. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- P-01 (Lab ID: 30559644001)
- P-02 (Lab ID: 30559644002)
- P-03 (Lab ID: 30559644003)

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Method: **EPA 7471B**
Description: BVR 7471B Mercury
Client: Professional Service Industries, Inc.
Date: March 21, 2023

General Information:
3 samples were analyzed for EPA 7471B by Pace Analytical Services Beaver. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-01 **Lab ID: 30559644001** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-38-2	
Barium	**398**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-39-3	
Cadmium	ND	mg/kg	10.1	5	02/07/23 08:06	02/08/23 09:24	7440-43-9	
Chromium	**1630**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-47-3	
Lead	**65.4**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7439-92-1	
Selenium	ND	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7782-49-2	
Silver	ND	mg/kg	25.2	5	02/07/23 08:06	02/08/23 09:24	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 5.85 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:30	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	**0.14**	mg/kg	0.099	1	02/07/23 15:03	02/08/23 19:29	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**0.93**	%	0.10	1		03/02/23 10:17		H1

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-02 **Lab ID: 30559644002** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-38-2	
Barium	**133**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-39-3	
Cadmium	ND	mg/kg	1.3	1	02/07/23 08:06	02/07/23 14:59	7440-43-9	
Chromium	**492**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-47-3	
Lead	**35.5**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7439-92-1	
Selenium	ND	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7782-49-2	
Silver	ND	mg/kg	3.2	1	02/07/23 08:06	02/07/23 14:59	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 6.34 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:32	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	**0.65**	mg/kg	0.099	1	02/07/23 15:03	02/08/23 19:32	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**0.96**	%	0.10	1		03/02/23 10:17		H1

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ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-03 **Lab ID: 30559644003** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-38-2	
Barium	**205**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-39-3	
Cadmium	ND	mg/kg	6.4	5	02/07/23 08:06	02/08/23 09:26	7440-43-9	
Chromium	**2090**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-47-3	
Lead	**73.4**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7439-92-1	
Selenium	ND	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7782-49-2	
Silver	ND	mg/kg	16.0	5	02/07/23 08:06	02/08/23 09:26	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 4.85 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:34	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	ND	mg/kg	0.10	1	02/07/23 15:03	02/08/23 19:34	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**2.2**	%	0.10	1		03/02/23 10:17		H1

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QUALITY CONTROL DATA

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

QC Batch: 565156
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: BVR 6010D MET ICP,Solid,3050B
Laboratory: Pace Analytical Services - Beaver
Associated Lab Samples: 30559644001, 30559644002, 30559644003

METHOD BLANK: 2743958 Matrix: Solid
Associated Lab Samples: 30559644001, 30559644002, 30559644003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	5.0	02/07/23 14:50	
Barium	mg/kg	ND	5.0	02/07/23 14:50	
Cadmium	mg/kg	ND	1.0	02/07/23 14:50	
Chromium	mg/kg	ND	5.0	02/07/23 14:50	
Lead	mg/kg	ND	5.0	02/07/23 14:50	
Selenium	mg/kg	ND	5.0	02/07/23 14:50	
Silver	mg/kg	ND	2.5	02/07/23 14:50	

LABORATORY CONTROL SAMPLE: 2743959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	85.7	86	80-120	
Barium	mg/kg	100	99.4	99	80-120	
Cadmium	mg/kg	50	46.9	94	80-120	
Chromium	mg/kg	100	100	100	80-120	
Lead	mg/kg	100	92.1	92	80-120	
Selenium	mg/kg	100	90.1	90	80-120	
Silver	mg/kg	25	24.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2743960 2743961

Parameter	Units	30558924024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	ND	123	123	120	141	93	110	75-125	16	20	
Barium	mg/kg	77.1	123	123	219	243	115	135	75-125	10	20	M1
Cadmium	mg/kg	ND	61.4	61.4	60.4	70.8	98	115	75-125	16	20	
Chromium	mg/kg	15.9	123	123	146	170	106	125	75-125	15	20	
Lead	mg/kg	8.8	123	123	129	151	98	116	75-125	16	20	
Selenium	mg/kg	ND	123	123	105	124	86	101	75-125	17	20	
Silver	mg/kg	ND	30.7	30.7	32.7	34.0	106	111	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

QC Batch: 574171
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET ICP, TCLP, 3010A
Laboratory: Pace Analytical Services - Beaver
Associated Lab Samples: 30559644001, 30559644002, 30559644003

METHOD BLANK: 2787357 Matrix: Water
Associated Lab Samples: 30559644001, 30559644002, 30559644003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.25	03/16/23 15:54	

LABORATORY CONTROL SAMPLE: 2788592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	10	10.4	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2788593 2788594

Parameter	Units	30569168001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	ND	10	10	10.4	10.3	104	103	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

QC Batch: 565209
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: BVR 7471B Mercury
Laboratory: Pace Analytical Services - Beaver
Associated Lab Samples: 30559644001, 30559644002, 30559644003

METHOD BLANK: 2744100 Matrix: Solid
Associated Lab Samples: 30559644001, 30559644002, 30559644003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	02/08/23 18:46	

LABORATORY CONTROL SAMPLE: 2744101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.55	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2744103 2744104

Parameter	Units	30559292017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.047J	0.57	0.57	0.64	0.65	103	106	80-120	3	20	H1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

QC Batch: 571017
QC Batch Method: SM 2540G-2015
Analysis Method: SM 2540G-2015
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30559644001, 30559644002, 30559644003

SAMPLE DUPLICATE: 2772833

Parameter	Units	30559644001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.93	ND		10	H1

SAMPLE DUPLICATE: 2772834

Parameter	Units	30559644002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.96	ND		10	H1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H2	Extraction or preparation conducted outside EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30559644001	**P-01**	EPA 3050B	565156	EPA 6010D	565317
30559644002	**P-02**	EPA 3050B	565156	EPA 6010D	565317
30559644003	**P-03**	EPA 3050B	565156	EPA 6010D	565317
30559644001	**P-01**	EPA 3010A	574171	EPA 6010D	574334
30559644002	**P-02**	EPA 3010A	574171	EPA 6010D	574334
30559644003	**P-03**	EPA 3010A	574171	EPA 6010D	574334
30559644001	**P-01**	EPA 7471B	565209	EPA 7471B	565493
30559644002	**P-02**	EPA 7471B	565209	EPA 7471B	565493
30559644003	**P-03**	EPA 7471B	565209	EPA 7471B	565493
30559644001	**P-01**	SM 2540G-2015	571017		
30559644002	**P-02**	SM 2540G-2015	571017		
30559644003	**P-03**	SM 2540G-2015	571017		

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WO# : 30559644

30559644

Pace Analytical
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CHAIN-OF-CUST

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

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: PSI	Report To: Eric Olroyd	Attention: Same
Address: 850 Poplar St	Copy To:	Company Name:
Pittsburgh, PA		Address:
Email To: eric.oldroyd@intertek.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Alcosan Bld 401	Pace Project Manager:
Requested Due Date/TAT: 2 day	Project Number: 08165545	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: PA

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	Dry Weight - See Notes	TCLP - Lead, Pb	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	P-01D	SL		2-27					1	X								X	X			001
2	P-02D	SL		2-27					1	X								X	X			002
3	P-03D	SL		2-27					1	X								X	X			003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

From previous Pace project # 30559644 See David Pichette Revise Previous Report

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Eric Olroyd	2-28-23			3/1/23	455	2.3.4	N	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Project Name: Alcosan – Bld 401 Date: 2-1-23

Project Location: _____ Project Number: 08165545

Sample ID#	Substrate Type	Paint Color	Sample Location	Dry Weight (for previous results correction) And TCLP - Pb
P-01D	M	Beige	Vertical Columns	
P-02D	M	White	Supporting Columns	
P-03D	M	White	Roof Tanks	

Substrate Type: M = Metal C = Concrete W = Wood
P = Plaster D = Drywall B = Brick

Page _____ of _____

DC#_Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt-Pittsburgh

Effective Date: 02/03/2023

WO# : 30559644

PM: DAP **Due Date: 03/03/23**

CLIENT: PSI PGH

Client Name: PSI

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 7714 3242 8105

Examined By	JS
Labeled By	JS
Temped By	JS

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☑ No

Thermometer Used: 18 **Type of Ice:** Wet Blue (None)

Cooler Temperature: Observed Temp 22.6 °C Correction Factor: +0.7 °C Final Temp: 23.4 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 1002221 / D.P.D. Residual Chlorine Lot #
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:		✓		5.
-Includes date/time/ID Matrix:	SL			Samples missing dates + times
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:		✓	JS 3/1/23	9. low volume
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dechlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:			✓	16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, (non-aqueous matrix)				
All containers meet method preservation requirements:	✓			Initial when completed JS / Date/Time of Preservation / Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Trip Blank Present:		✓		Trip blank custody seal present? YES or NO
Rad Samples Screened <0.5 mrem/hr.	✓			Initial when completed JS / Date: ~~3/1/23~~ JS 3/1/23 / Survey Meter SN:

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 21, 2023

Eric Oldroyd
Professional Service Industrie
850 Poplar Street
Pittsburgh, PA 15220

RE: Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Dear Eric Oldroyd:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

(Greensburg PA) - Revision 1 - This report replaces the February 14, 2023 report. This project was revised on March 8, 2023 to report the results on a dry weight basis.

(Greensburg PA) - Revision 2 - This report replaces the March 8, 2023 report. This project was revised on March 21, 2023 to report TCLP lead results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

David A. Pichette
david.pichette@pacelabs.com
(724)850-5617
Project Manager

Enclosures

cc: Dave Christner, Professional Service Industries, Inc
Michael Kopar, Professional Service Industries, Inc

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ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-01 **Lab ID: 30559644001** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-38-2	
Barium	**398**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-39-3	
Cadmium	ND	mg/kg	10.1	5	02/07/23 08:06	02/08/23 09:24	7440-43-9	
Chromium	**1630**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-47-3	
Lead	**65.4**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7439-92-1	
Selenium	ND	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7782-49-2	
Silver	ND	mg/kg	25.2	5	02/07/23 08:06	02/08/23 09:24	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 5.85 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:30	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	**0.14**	mg/kg	0.099	1	02/07/23 15:03	02/08/23 19:29	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**0.93**	%	0.10	1		03/02/23 10:17		H1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-02 **Lab ID: 30559644002** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-38-2	
Barium	**133**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-39-3	
Cadmium	ND	mg/kg	1.3	1	02/07/23 08:06	02/07/23 14:59	7440-43-9	
Chromium	**492**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-47-3	
Lead	**35.5**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7439-92-1	
Selenium	ND	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7782-49-2	
Silver	ND	mg/kg	3.2	1	02/07/23 08:06	02/07/23 14:59	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 6.34 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:32	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	**0.65**	mg/kg	0.099	1	02/07/23 15:03	02/08/23 19:32	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**0.96**	%	0.10	1		03/02/23 10:17		H1

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-03 **Lab ID: 30559644003** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-38-2	
Barium	**205**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-39-3	
Cadmium	ND	mg/kg	6.4	5	02/07/23 08:06	02/08/23 09:26	7440-43-9	
Chromium	**2090**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-47-3	
Lead	**73.4**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7439-92-1	
Selenium	ND	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7782-49-2	
Silver	ND	mg/kg	16.0	5	02/07/23 08:06	02/08/23 09:26	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 4.85 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:34	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	ND	mg/kg	0.10	1	02/07/23 15:03	02/08/23 19:34	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**2.2**	%	0.10	1		03/02/23 10:17		H1

REPORT OF LABORATORY ANALYSIS

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intertek
psi

WO# : 30559644

PM: DAP Due Date: 03/03/23
CLIENT: PSI PGH

Project Name: Alcosan – Bld 401 Date: 2-1-23

Project Location: _____ Project Number: 08165545

Sample ID#	Substrate Type	Paint Color	Sample Location	Dry Weight (for previous results correction) And TCLP - Pb
P-01D	M	Beige	Vertical Columns	
P-02D	M	White	Supporting Columns	
P-03D	M	White	Roof Tanks	

Substrate Type: M = Metal C = Concrete W = Wood
P = Plaster D = Drywall B = Brick

Page _____ of _____

Intertek-PSI
850 Poplar Street
Pittsburgh, PA 15220

Tel +1 412.922.4001
Fax +1 412.922.4014
intertek.com/building

April 5, 2023

ALCOSAN
3300 Preble Avenue
Pittsburgh, Pennsylvania 15233

Attention: Dylan Thomas
Safety Specialist

Subject: **Asbestos Survey and Paint Coating Testing**
401 Building
3300 Preble Avenue
Pittsburgh, Pennsylvania 15233
PSI Project 08165545-1

Dear Mr. Thomas

Professional Service Industries, Inc. (PSI), an Intertek company, performed the Asbestos Survey and Limited Lead Paint Survey that you requested at the facility referenced above.

INTRODUCTION

As per the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for demolition or renovation, a survey for asbestos-containing materials (ACM) was performed; in addition, a limited paint survey was also conducted.

The subject site consists of building #401, planned for demolition, located on the campus of the Allegheny County Sanitary Authority (ALCOSAN) wastewater treatment facility at 3300 Preble Avenue, Pittsburgh Pennsylvania. The subject structure was occupied during the inspection.

Authorization to conduct the investigation and sampling was given via ALCOSAN's Purchase Order, No. 13122 in reference to PSI proposal number 816-392037.

SCOPE OF SERVICES

The scope of services for this project consisted of conducting an Asbestos Survey of accessible and exposed suspect materials and a limited survey for metals in the painted surfaces. The investigation included a visual inspection of the subject area(s), sample collection, PLM and lead sample analysis, quantification of ACMs, and report preparation & review.

This survey was intended to identify all suspect ACM that will be disturbed by the scheduled renovations as required by the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP), OSHA and the State of Pennsylvania.

INSPECTION, SAMPLING & ANALYTICAL METHODOLOGY

Asbestos

Inspection and sampling procedures were performed in general accordance with the guidelines published by the EPA. The inspection and survey described below was performed by Eric Oldroyd (#057180) an EPA accredited and Pennsylvania licensed inspector. An initial individual building structure walkthrough was conducted to determine the presence of suspect asbestos-containing materials that were accessible and/or exposed in the areas defined within the scope of work.

Following the walkthrough, the Inspector collected samples of suspect materials. EPA guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous sampling area. While an effort was made to collect samples randomly, samples were taken preferentially from areas already damaged or areas which were the least visible to minimize disturbance of the material.

All layers of the material were extracted in placed into a sample container for transport to the laboratory. Sample containers were sealed and labeled with a unique sample identification number. Where appropriate, sampled materials were sealed with an encapsulant or covered with tape after sampling. PSI is not responsible for restoring the sampled areas to their pre-sampled condition.

Although PSI made an attempt to identify all suspect building materials, an exhaustive investigation of void or hidden spaces was not included in the scope of services for this project. There may exist conditions which were unable to be identified within the scope of this survey.

The bulk samples were analyzed for asbestos by polarized light microscopy (PLM) in accordance with the "U.S. EPA Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116 July, 1993). The microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample, using a stereoscope. All samples were analyzed at PSI's Asbestos Laboratory, Inc. located at 850 Poplar Street, Pittsburgh, Pennsylvania 15220. The PSI Pittsburgh Asbestos Laboratory is a National Voluntary Laboratory Accreditation Program (NVLAP) Accredited (#101350-0) and an American Industrial Hygiene Association (AIHA) Accredited (#8222) Laboratory.

Limited Paint Survey

The scope of work for the paint survey was limited in nature and included the collection of paint chip samples from accessible and exposed interior painted building components from the subject structure. Paint chip samples were collected to provide the client with a general idea of the presence of metals in the painted surfaces. The sampling was not intended to be an exhaustive survey of all paints in the building, but a representation of the type of materials and components painted.

The metals tested for included Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver and Mercury. In addition, analysis lead was also analyzed using the Toxic Characteristic Leaching Procedure (TCLP) prep method.

Metals Analysis

Samples were sent to Pace Analytical Laboratories in Greensburg, PA for analysis.

FINDINGS

Asbestos

A total of six (6) samples were collected from three (3) suspect homogenous materials during the asbestos survey.

The following ACMs (>1% asbestos) were identified during this investigation:

- **None**

TABLE 1 – SUSPECT ACMs SAMPLED

Sample Numbers	Material Description	Material Location	F/NF[1]	% Asbestos & Type[2]	EPA NESHAP Cat [3]	Estimated Quantity
01 (2)	Caulking, beige	Between Vertical Support Columns and Block walls	F	NAD	NA	NA
02 (2)	Adhesive, black	Lime Annex Roof, Adhesive on EPDM Roofing	F	NAD	NA	NA
03 (2)	Adhesive, black	Lime Annex Roof, Roof Parapet Wall Cap Fasteners	NF	NAD	NA	NA

1 F = Friable; NF = Non-friable
2 NAD = No Asbestos Detected, Assumed = Not sampled and assumed to contain asbestos
3 NESHAP Category - Regulated ACM (RACM),Cat I NF=Category I Non-Friable ACM, Ca II NF= Category II Non-Friable ACM.

Paint Analysis Results

A total of three (3) paint chip samples were collected as part of this limited lead paint survey. See the tables below for the summary results.

Table #2 – PAINT CHIP SAMPLE LOCATIONS					
SAMPLE #	COMPONENT	SUBSTRATE	COLOR	LOCATION	CONDITION
Pb-01D	Vertical Columns	Metal	Beige	Bld. #401, Interior	Fair
Pb-02D	Supporting Columns	Metal	White	Bld. #401, Interior	Fair
P-03D	Holding Tanks	Metal	White	Bld. #401, Roof	Poor

Table #3 – PAINT CHIP RESULTS						
Metal	Results					
	Sample P-01D		Sample P-02D		Sample P-03D	
	Mg/kg	% by weight	Mg/kg	% by weight	Mg/kg	% by weight
Arsenic	ND	ND	ND	ND	ND	ND
Barium	398	0.0398%	133	0.0133%	205	0.0205%
Cadmium	ND	ND	ND	ND	ND	ND
Chromium	1,630	0.1630%	492	0.0492%	2,090	0.2090%
Lead	65.4	0.00654%	35.5	0.00355%	73.4	0.00734%
Selenium	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND
Mercury	0.14	0.000014%	0.65	0.000065%	ND	ND
Percent Moisture		93%		0.96%		2.2%
Lead, TCLP Prep	ND – Mg/L		ND – Mg/L		ND – Mg/L	

In accordance with the OSHA Construction Standard for Lead (29 CFR 1926.62), it is the contractors' responsibility to protect their workers when an employee may be occupationally exposed to lead. In addition, contractors may be required to have the proper training in accordance with the EPA's RRP Rule. This rule applies to all target housing (pre-1978) and child occupied facilities.

OSHA does not define the amount of lead in paint to a regulatory requirement; rather the activities or task define when the regulation is in effect. The industry has interpreted this to mean that any detectable amount of lead is regulated. Both Federal and state standards use the term "trigger task" activities. In the workplace, employers must initially perform a negative exposure assessment to comply with the regulations based on the level of disturbance rather than the leaded paint level. For example, employees who perform trigger tasks (such as manual demolition) are required to receive employer provided training, air monitoring, protective clothing, respirators, and hand washing facilities. In addition, there are standard work practices required such as the use of wet methods and HEPA vacuums.

CONCLUSIONS

Asbestos-containing materials were NOT identified within the materials analyzed.

No Lead-Based Paint (LBP) was identified during this limited survey.

Lead Containing Paint (LCP) was identified during this limited survey.

RECOMMENDATIONS

Asbestos

ACMs should be maintained in a good non-damaged condition and periodically inspected through use of an Operations and Maintenance (O&M) program. Damaged or significantly damaged ACMs should be repaired, encapsulated, enclosed or removed.

Most jurisdictions allow Category I non-friable ACM and some Category II non-friable materials in good condition to remain in place during demolition.

If Category I non-friable ACM is not removed prior to demolition, the generated debris cannot be recycled or used as clean-fill, but in most instances can be disposed of at a construction and demolition debris landfill.

If any suspect ACM materials that were not sampled as part of this inspection are encountered during demolition or renovation activities; they must be treated as ACM until sampling and analysis prove otherwise.

Prior to the initiation of a project that would involve abatement, a detailed engineering cost estimate and project design is recommended. The engineering cost estimate will incorporate such variables as scheduling and phasing of the project, the size and extent of the project, seasonal factors, operational factors and other restrictions, respiratory protection, alternate abatement options, and type of replacement material. An engineering cost estimate would also include professional fees, such as for project design and management, and other expenses, such as on-site air monitoring and construction supervision.

Lead Paint

All untested paint from buildings constructed before 1978 should be considered to contain lead.

OSHA regulates workers exposure to lead paint concentrations in any amount; therefore, in order to satisfy OSHA requirements, worker protection and exposure monitoring may be required for work activities that disturb paints that contain lead in any amount. In accordance with the OSHA Construction Standard for Lead (29 CFR 1926.62), it is the contractors' responsibility to protect their workers when an employee may be occupationally exposed to lead.

WARANTY

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of accessible and/or exposed suspect ACM and lead paint for the building structure. PSI warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The survey and analytical methods have been used to provide the client with information regarding the presence of accessible and/or exposed suspect ACM and lead paint existing at the time of the inspection. Test results are valid only for the material(s) tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study or which were not apparent during the site visit. This inspection covered only those areas that were exposed and/or physically accessible to the Inspector. The study is also limited to the information available from the client at the time it was conducted.

No other warranties are implied or expressed.

LIMITATIONS

Items or materials such as furniture, appliances, personal items, below-grade exterior materials or uninstalled building materials were not included in the survey.

PSI thanks you for choosing us as your consultant for this project and would be pleased to continue our role as your consultant for future projects. If we can be of any further assistance, or if you have any questions regarding this report, please feel free to contact us at (412) 922-4000.

Respectfully Submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Eric Oldroyd
Project Manager

Attachments:

- Report of Bulk Sample Analysis for Asbestos and Metals
- Bulk Sample Log/Chain of Custody
- Sample Location Maps
- Photographs
- Inspector Accreditations

CC: Clark Yannotti, Denver Jones

REPORT OF BULK SAMPLE ANALYSIS FOR ASBESTOS

TESTED FOR: PSI, Inc.
850 Poplar Street
Pittsburgh, PA 15220
Attn: Eric Oldroyd

Project ID: 08165545
Alcosan - Bld 401

Date Received: 2/6/2023 **Date Completed:** 2/7/2023 **Date Reported:** 2/7/2023

Analyst: Chris Kopar **Work Order:** 2302110 **Page:** 1 of 1

Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) *Analyst's Comment*	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
1-1	001A	(1) Beige, Caulking, Homogeneous	NO ASBESTOS DETECTED	None Reported
1-2	002A	(1) Beige, Caulking, Homogeneous	NO ASBESTOS DETECTED	None Reported
2-1	003A	(1) Black, Adhesive, Homogeneous	NO ASBESTOS DETECTED	15% Cellulose Fiber
2-2	004A	(1) Black, Adhesive, Homogeneous	NO ASBESTOS DETECTED	15% Cellulose Fiber
3-1	005A	(1) Black, Adhesive, Homogeneous	NO ASBESTOS DETECTED	None Reported
3-2	006A	(1) Black, Adhesive, Homogeneous	NO ASBESTOS DETECTED	None Reported

Report Notes: **(PT) Point Count Results**

Quantitation is based on a visual estimation of the relative area of bulk sample components, unless otherwise noted in the "Comments" section of this report. The results are valid only for the item tested as received. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Method used: E.P.A. Interim Method for the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). Polarized Light Microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos containing. Samples will be disposed of within 30 days unless notified in writing by the client. No part of this report may reproduced, except in full, without written permission of the laboratory. The reporting limit is 1% by weight. NVLAP Lab Code 101350-0.

Respectfully submitted,
PSI, Inc.

George Skarupa

Approved Signatory
George Skarupa

CHAIN OF CUSTODY - ASB/LEAD/IH 2302110(2)

Project Information	
Project Name:	Alcosan – Bld 401
Project No:	08165545
PO Number:	

psi Information To Build On
Engineering • Consulting • Testing

IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 228/425

Send Results To:	
Company:	PSI
Attn:	Eric Oldroyd
Address:	850 Poplar St., Pittsburgh
Telephone:	
Email:	eric.oldroyd@intertek.com

Send Invoice To:	
Company:	PSI - Dept 0816
Attn:	
Address:	
Telephone:	
Email:	

Requested Turnaround Time:			
Same Day	1-2 Day	3-5 Day	Requested Date:
☐	☑	☐	2-7-23

Stop at First Positive	
Y	N
☐	☑

Laboratory Use Only	Y	N
All Samples In Acceptable Condition:	✓	
Comments:		
Shipping Charges Apply:		✓

Parameter																										
Sample ID:	Number of Samples	PLM Bulk	Point Count (400)	Point Count (1000)	Lead Wipe	Lead Air	Lead Soil	Lead Paint Chip	Lead TCLP	PCM	PCM "B Rules"	TEM AHERA	TEM 7402	TEM Chatfield	TEM Vacuum	TEM Wipe	NY PLM Friable/NOB	NY TEM NOB	NY SOF-V	Total Nuisance Dust	Respirable Dust	Cadmium	Zinc	Total Chromium	Other:
1-3	6	X																							

Relinquished by	Date/Time	Received by	Date/Time
Eric Oldroyd		[signature]	2/6/2023
			11:00AM

Analyst Name:		Analyst Signature:	

Special Instructions / Comments:	See attached for samples

intertek
psi

230210

Project Name: Alcosan – Bld 401 Date: 2-1-23

Project Location: _____ Project Number: 08165545

ID#	1,2,3…	# of Layers	Material Description
01	1&2	1	Caulking, beige pliable
02	1&2	1	Adhesive on EPDM roofing
03	1&2	1	Adhesive, black, parapet wall cap fasteners

CV 2/6/2023 11:00 AM

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 21, 2023

Eric Oldroyd
Professional Service Industrie
850 Poplar Street
Pittsburgh, PA 15220

RE: Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Dear Eric Oldroyd:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

(Greensburg PA) - Revision 1 - This report replaces the February 14, 2023 report. This project was revised on March 8, 2023 to report the results on a dry weight basis.

(Greensburg PA) - Revision 2 - This report replaces the March 8, 2023 report. This project was revised on March 21, 2023 to report TCLP lead results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

David A. Pichette
david.pichette@pacelabs.com
(724)850-5617
Project Manager

Enclosures

cc: Dave Christner, Professional Service Industries, Inc
Michael Kopar, Professional Service Industries, Inc

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Beaver
225 Industrial Park Road, Beaver, WV 25813
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM
North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30559644001	**P-01**	Solid	02/04/23 00:00	02/06/23 10:25
30559644002	**P-02**	Solid	02/04/23 00:00	02/06/23 10:25
30559644003	**P-03**	Solid	02/04/23 00:00	02/06/23 10:25

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30559644001	**P-01**	EPA 6010D	AGB	7	PASI-BV
		EPA 6010D	MFC	1	PASI-BV
		EPA 7471B	JLH	1	PASI-BV
		SM 2540G-2015	AK1	1	PASI-PA
30559644002	**P-02**	EPA 6010D	AGB	7	PASI-BV
		EPA 6010D	MFC	1	PASI-BV
		EPA 7471B	JLH	1	PASI-BV
		SM 2540G-2015	AK1	1	PASI-PA
30559644003	**P-03**	EPA 6010D	AGB	7	PASI-BV
		EPA 6010D	MFC	1	PASI-BV
		EPA 7471B	JLH	1	PASI-BV
		SM 2540G-2015	AK1	1	PASI-PA

PASI-BV = Pace Analytical Services - Beaver
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Method: **EPA 6010D**
Description: BVR 6010D MET ICP,Solid,3050B
Client: Professional Service Industries, Inc.
Date: March 21, 2023

General Information:
3 samples were analyzed for EPA 6010D by Pace Analytical Services Beaver. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 565156

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30558924024

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2743961)
  - Barium

Additional Comments:

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PROJECT NARRATIVE

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Method: **EPA 6010D**
Description: BVR 6010D MET ICP, TCLP, 3010A
Client: Professional Service Industries, Inc.
Date: March 21, 2023

General Information:
3 samples were analyzed for EPA 6010D by Pace Analytical Services Beaver. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- P-01 (Lab ID: 30559644001)
- P-02 (Lab ID: 30559644002)
- P-03 (Lab ID: 30559644003)

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Method: **EPA 7471B**
Description: BVR 7471B Mercury
Client: Professional Service Industries, Inc.
Date: March 21, 2023

General Information:
3 samples were analyzed for EPA 7471B by Pace Analytical Services Beaver. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-01 **Lab ID: 30559644001** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-38-2	
Barium	**398**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-39-3	
Cadmium	ND	mg/kg	10.1	5	02/07/23 08:06	02/08/23 09:24	7440-43-9	
Chromium	**1630**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7440-47-3	
Lead	**65.4**	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7439-92-1	
Selenium	ND	mg/kg	50.5	5	02/07/23 08:06	02/08/23 09:24	7782-49-2	
Silver	ND	mg/kg	25.2	5	02/07/23 08:06	02/08/23 09:24	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 5.85 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:30	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	**0.14**	mg/kg	0.099	1	02/07/23 15:03	02/08/23 19:29	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**0.93**	%	0.10	1		03/02/23 10:17		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-02 **Lab ID: 30559644002** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-38-2	
Barium	**133**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-39-3	
Cadmium	ND	mg/kg	1.3	1	02/07/23 08:06	02/07/23 14:59	7440-43-9	
Chromium	**492**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7440-47-3	
Lead	**35.5**	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7439-92-1	
Selenium	ND	mg/kg	6.3	1	02/07/23 08:06	02/07/23 14:59	7782-49-2	
Silver	ND	mg/kg	3.2	1	02/07/23 08:06	02/07/23 14:59	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 6.34 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:32	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	**0.65**	mg/kg	0.099	1	02/07/23 15:03	02/08/23 19:32	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**0.96**	%	0.10	1		03/02/23 10:17		H1

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ANALYTICAL RESULTS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Sample: P-03 **Lab ID: 30559644003** Collected: 02/04/23 00:00 Received: 02/06/23 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver							
Arsenic	ND	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-38-2	
Barium	**205**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-39-3	
Cadmium	ND	mg/kg	6.4	5	02/07/23 08:06	02/08/23 09:26	7440-43-9	
Chromium	**2090**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7440-47-3	
Lead	**73.4**	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7439-92-1	
Selenium	ND	mg/kg	31.9	5	02/07/23 08:06	02/08/23 09:26	7782-49-2	
Silver	ND	mg/kg	16.0	5	02/07/23 08:06	02/08/23 09:26	7440-22-4	
BVR 6010D MET ICP, TCLP, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 03/15/23 10:30 Initial pH: ; Final pH: 4.85 Pace Analytical Services - Beaver							
Lead, *TCLP*	ND	mg/L	0.25	1	03/16/23 08:00	03/16/23 16:34	7439-92-1	H2
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver							
Mercury	ND	mg/kg	0.10	1	02/07/23 15:03	02/08/23 19:34	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg							
Percent Moisture	**2.2**	%	0.10	1		03/02/23 10:17		H1

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QUALITY CONTROL DATA

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

QC Batch: 565156
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: BVR 6010D MET ICP,Solid,3050B
Laboratory: Pace Analytical Services - Beaver
Associated Lab Samples: 30559644001, 30559644002, 30559644003

METHOD BLANK: 2743958 Matrix: Solid
Associated Lab Samples: 30559644001, 30559644002, 30559644003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	5.0	02/07/23 14:50	
Barium	mg/kg	ND	5.0	02/07/23 14:50	
Cadmium	mg/kg	ND	1.0	02/07/23 14:50	
Chromium	mg/kg	ND	5.0	02/07/23 14:50	
Lead	mg/kg	ND	5.0	02/07/23 14:50	
Selenium	mg/kg	ND	5.0	02/07/23 14:50	
Silver	mg/kg	ND	2.5	02/07/23 14:50	

LABORATORY CONTROL SAMPLE: 2743959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	85.7	86	80-120	
Barium	mg/kg	100	99.4	99	80-120	
Cadmium	mg/kg	50	46.9	94	80-120	
Chromium	mg/kg	100	100	100	80-120	
Lead	mg/kg	100	92.1	92	80-120	
Selenium	mg/kg	100	90.1	90	80-120	
Silver	mg/kg	25	24.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2743960 2743961

Parameter	Units	30558924024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	ND	123	123	120	141	93	110	75-125	16	20	
Barium	mg/kg	77.1	123	123	219	243	115	135	75-125	10	20	M1
Cadmium	mg/kg	ND	61.4	61.4	60.4	70.8	98	115	75-125	16	20	
Chromium	mg/kg	15.9	123	123	146	170	106	125	75-125	15	20	
Lead	mg/kg	8.8	123	123	129	151	98	116	75-125	16	20	
Selenium	mg/kg	ND	123	123	105	124	86	101	75-125	17	20	
Silver	mg/kg	ND	30.7	30.7	32.7	34.0	106	111	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

QC Batch: 574171
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET ICP, TCLP, 3010A
Laboratory: Pace Analytical Services - Beaver
Associated Lab Samples: 30559644001, 30559644002, 30559644003

METHOD BLANK: 2787357 Matrix: Water
Associated Lab Samples: 30559644001, 30559644002, 30559644003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.25	03/16/23 15:54	

LABORATORY CONTROL SAMPLE: 2788592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	10	10.4	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2788593 2788594

Parameter	Units	30569168001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	ND	10	10	10.4	10.3	104	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

QC Batch: 565209
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: BVR 7471B Mercury
Laboratory: Pace Analytical Services - Beaver
Associated Lab Samples: 30559644001, 30559644002, 30559644003

METHOD BLANK: 2744100 Matrix: Solid
Associated Lab Samples: 30559644001, 30559644002, 30559644003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	02/08/23 18:46	

LABORATORY CONTROL SAMPLE: 2744101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.55	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2744103 2744104

Parameter	Units	30559292017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.047J	0.57	0.57	0.64	0.65	103	106	80-120	3	20	H1

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QUALITY CONTROL DATA

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

QC Batch: 571017
QC Batch Method: SM 2540G-2015
Analysis Method: SM 2540G-2015
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30559644001, 30559644002, 30559644003

SAMPLE DUPLICATE: 2772833

Parameter	Units	30559644001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.93	ND		10	H1

SAMPLE DUPLICATE: 2772834

Parameter	Units	30559644002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.96	ND		10	H1

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QUALIFIERS

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H2	Extraction or preparation conducted outside EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alcosan-Bld 401-Revised Report
Pace Project No.: 30559644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30559644001	**P-01**	EPA 3050B	565156	EPA 6010D	565317
30559644002	**P-02**	EPA 3050B	565156	EPA 6010D	565317
30559644003	**P-03**	EPA 3050B	565156	EPA 6010D	565317
30559644001	**P-01**	EPA 3010A	574171	EPA 6010D	574334
30559644002	**P-02**	EPA 3010A	574171	EPA 6010D	574334
30559644003	**P-03**	EPA 3010A	574171	EPA 6010D	574334
30559644001	**P-01**	EPA 7471B	565209	EPA 7471B	565493
30559644002	**P-02**	EPA 7471B	565209	EPA 7471B	565493
30559644003	**P-03**	EPA 7471B	565209	EPA 7471B	565493
30559644001	**P-01**	SM 2540G-2015	571017		
30559644002	**P-02**	SM 2540G-2015	571017		
30559644003	**P-03**	SM 2540G-2015	571017		

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WO# : 30559644

30559644

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CHAIN-OF-CUST

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

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: PSI	Report To: Eric Olroyd	Attention: Same
Address: 850 Poplar St	Copy To:	Company Name:
Pittsburgh, PA		Address:
Email To: eric.oldroyd@intertek.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Alcosan Bld 401	Pace Project Manager:
Requested Due Date/TAT: 2 day	Project Number: 08165545	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: PA

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	Dry Weight - See Notes	TCLP - Lead, Pb	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	P-01D	SL		2-27					1	X								X	X			001
2	P-02D	SL		2-27					1	X								X	X			002
3	P-03D	SL		2-27					1	X								X	X			003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

From previous Pace project # 30559644 See David Pichette Revise Previous Report

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Eric Olroyd	2-28-23			3/1/23	455	2.3.4	N	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Project Name: Alcosan – Bld 401 Date: 2-1-23

Project Location: _____ Project Number: 08165545

Sample ID#	Substrate Type	Paint Color	Sample Location	Dry Weight (for previous results correction) And TCLP - Pb
P-01D	M	Beige	Vertical Columns	
P-02D	M	White	Supporting Columns	
P-03D	M	White	Roof Tanks	

Substrate Type: M = Metal C = Concrete W = Wood
P = Plaster D = Drywall B = Brick

Page _____ of _____

DC#_Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt-Pittsburgh

Effective Date: 02/03/2023

WO# : 30559644

PM: DAP **Due Date: 03/03/23**

CLIENT: PSI PGH

Client Name: PSI

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 7714 3242 8105

Examined By	JS
Labeled By	JS
Temped By	JS

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☑ No

Thermometer Used: 18 **Type of Ice:** Wet Blue (None)

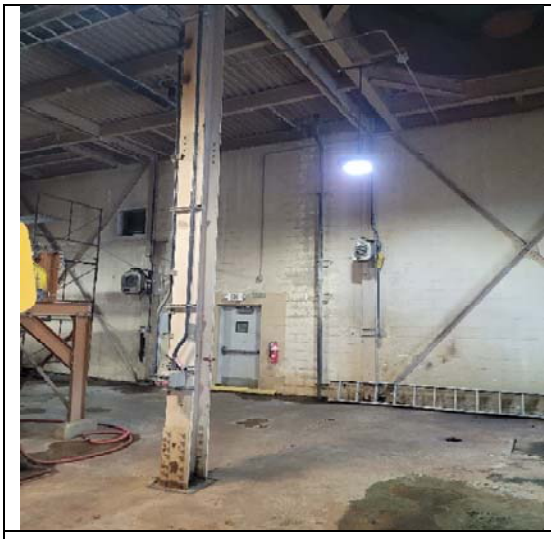
Cooler Temperature: Observed Temp 22.6 °C Correction Factor: +0.7 °C Final Temp: 23.4 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 1002221 / D.P.D. Residual Chlorine Lot #
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:		✓		5.
-Includes date/time/ID Matrix:	SL			Samples missing dates + times
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:		✓	JS 3/1/23	9. low volume
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dechlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:			✓	16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, (non-aqueous matrix)				
All containers meet method preservation requirements:	✓			Initial when completed JS / Date/Time of Preservation / Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Trip Blank Present:		✓		Trip blank custody seal present? YES or NO
Rad Samples Screened <0.5 mrem/hr.	✓			Initial when completed JS / Date: ~~3/1/23~~ JS 3/1/23 / Survey Meter SN:

Comments:

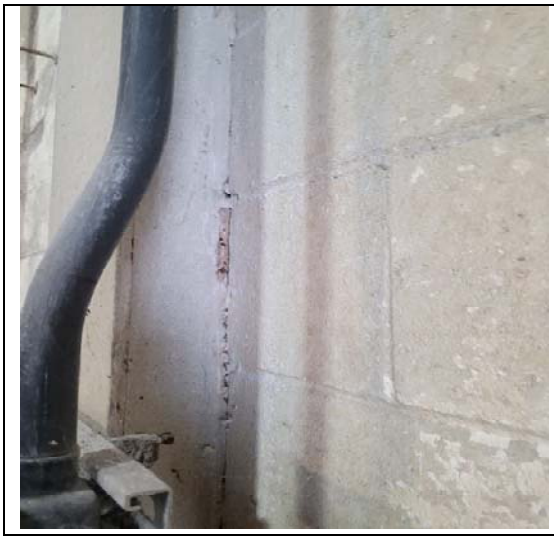
Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.



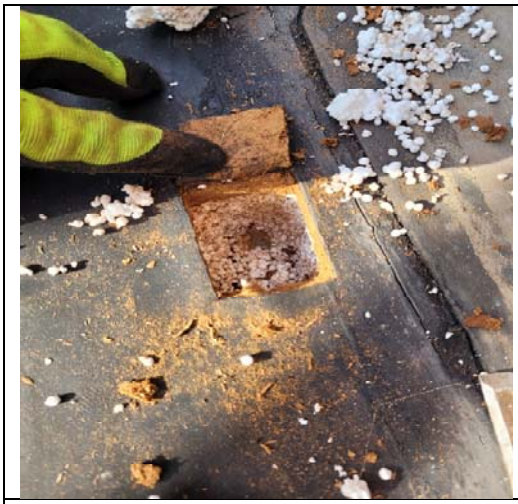
Bld 401 Interior

Bld 401 Interior

Holding tanks on Roof

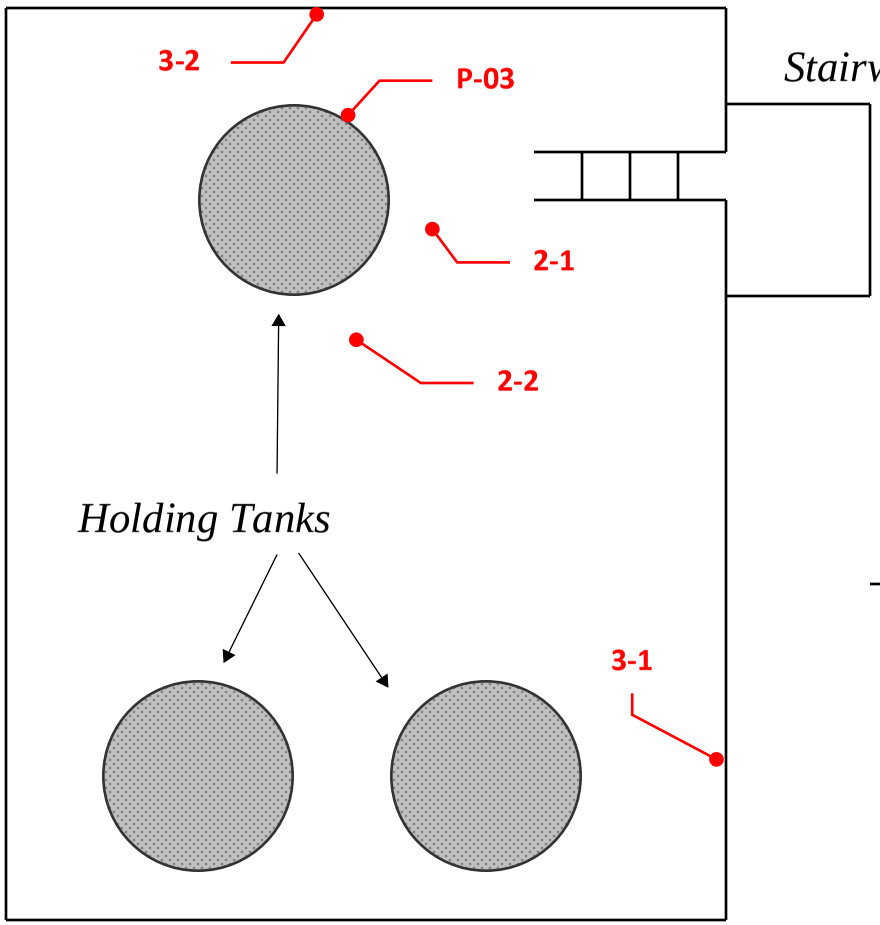


HA #01 Caulking

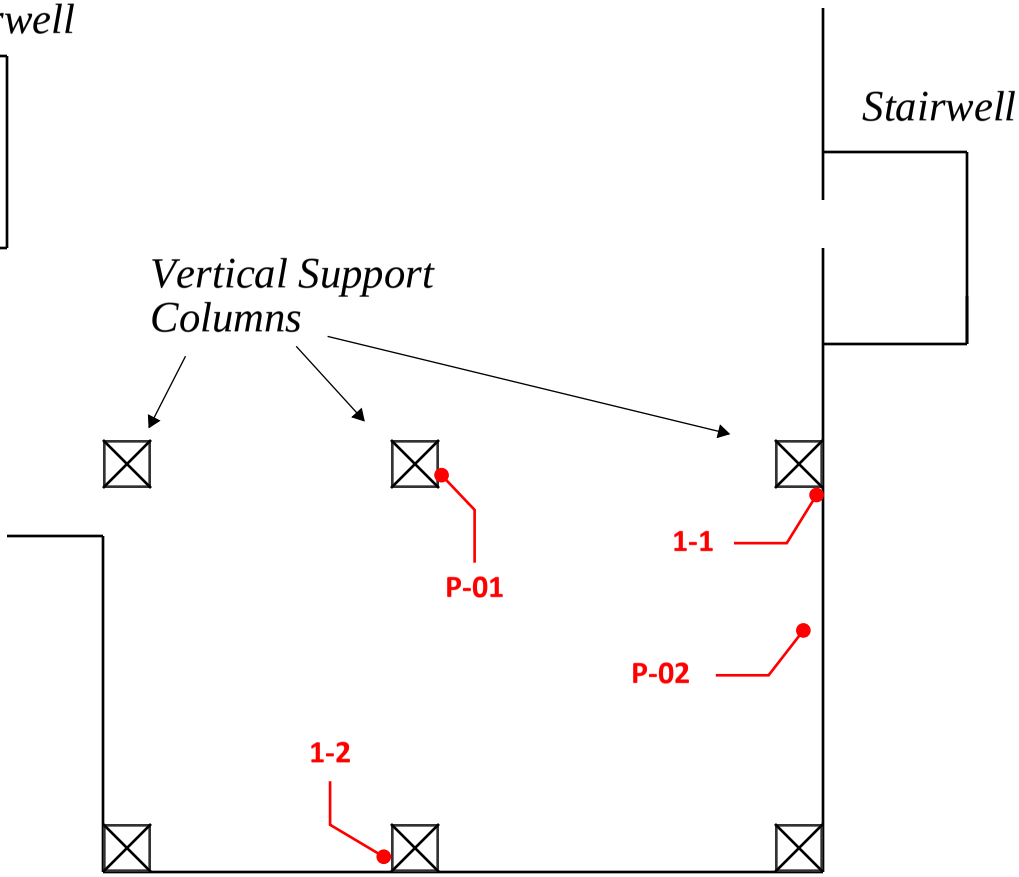


HA #02, Adhesive on Roof

HA #03, Adhesive on Roof Wall Cap Fasteners



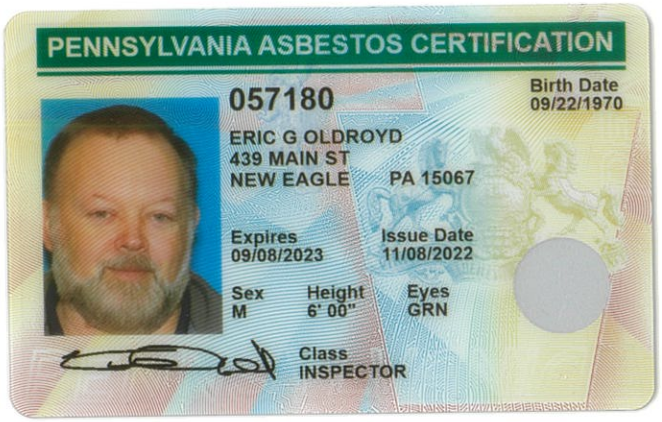
Lime Annex Roof

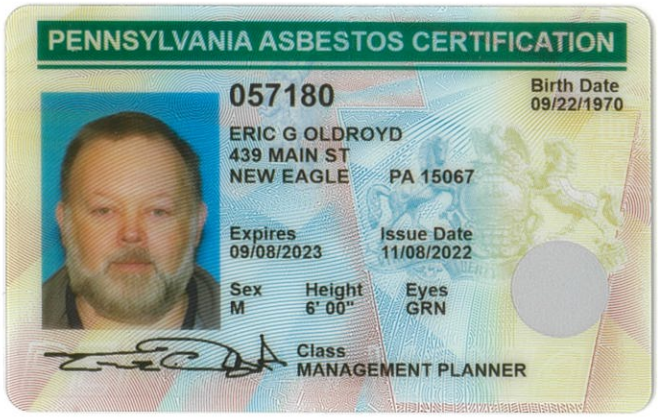


Building 401
Dewatering Conveyor to Lime Bld. Floor

Sample ID# & Location

Date: 2-1-23	Project No.: 08165545	intertek psi
Map Name: Bld. 401		
Location: ALCOSAN		Drawing No. 1


PENNSYLVANIA ASBESTOS CERTIFICATION
057180
Birth Date
09/22/1970
ERIC G OLDROYD
439 MAIN ST
NEW EAGLE PA 15067
Expires
09/08/2023
Issue Date
11/08/2022
Sex
M
Height
6' 00"
Eyes
GRN
Class
INSPECTOR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