

MEETING DATE: 1/7/2025

DEPARTMENT: Public Works

AGENDA ITEM: Resolution 1438, Approving Change Order No. 1 to RFP 23-11, Water Treatment Plant Residuals Cleanout with Richards Construction

REQUESTED BOARD ACTION:

A motion to approve Resolution 1438, approving Change Order No. 1 to RFP 23-11 Water Treatment Plant Residuals Cleanout with Richards Construction Company.

SUMMARY: The water treatment process includes adding lime to the raw water which is drawn from the lake. Lime acts as a coagulant and settles particulates in the raw water. The water is sent through filters to draw the sediments out of the water. The filters are backwashed, and the sediments are sent to lagoons where the liquid evaporates and the sediments remain in the bottom of the lagoon. The lagoons have to be cleaned out periodically to maintain capacity. The lagoons were last cleaned in 2014 and are full, needing to be cleaned out. Included in the 2024 budget was \$400,000 for the residuals cleanout project.

The City received 2 bids, Richards Construction provided the best bid in the amount of \$188,000.00. The Board approved Resolution 1299 awarding the bid in an amount of \$188,000 plus an additional force account in an amount of \$50,000 for a total project cost of \$238,000 on January 16, 2024.

The project was bid per dry ton of residuals removed. The dry tons of solids residuals were estimated at 786 DT. Richards Construction removed 1,265.16 dry tons of material for a final total cost of \$264,465.67. Change order #1 is for the additional amount of \$26,463.95.

The 2024 budget included \$400,000 for this project. The project was completed after the 2025 budget was adopted and a budget amendment is needed for the full amount of \$264,465.67.

PREVIOUS ACTION:

None

POLICY ISSUE:

Facility / infrastructure maintenance

FINANCIAL CONSIDERATIONS: The 2024 budget included \$400,000 for this expense. The budget amendment earlier on this agenda provides FY2025 funding.

ATTACHMENTS:

 \Box Ordinance

 \boxtimes Resolution

□ Contract□ Plans

□ Minutes

□ Staff Report

☑ Other: Engineers explanation / recommendation

RESOLUTION 1438

A RESOLUTION APPROVING CHANGE ORDER NO. 1 TO RFP 23-11, WATER TREATMENT PLANT RESIDUALS CLEANOUT WITH RICHARDS CONSTRUCTION COMPANY

WHEREAS, Bids were opened and read aloud on December 4, 2023, for RFP 23-11, Water Treatment Plant Residuals Cleanout; and

WHEREAS, Richards Construction Company submitted the most responsive bid in the amount of \$188,000; and

WHEREAS, on January 16, 2024, the Board approved Resolution 1299 awarding the bid to Richards Construction with a Force Account of \$50,000 for a total project cost of \$238,000; and

WHEREAS, Richards Construction Company has completed the work and the final quantities are in the amount of \$264,465.95.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF SMITHVILLE, MISSOURI, AS FOLLOWS:

Approving change order #1 with Richards Construction Company in the amount of \$26,463.95 for RFP 23-11, Water Treatment Plant Residuals Cleanout.

PASSED AND ADOPTED by the Board of Aldermen and **APPROVED** by the Mayor of the City of Smithville, Missouri, the 7th day of January 2025.

Damien Boley, Mayor

ATTEST:

Linda Drummond, City Clerk



City of Smithville, MO | WTP Residual Cleanout Overage Explanation

Derek A. Patrick, PE

Project Manager HDR Engineering, Inc. 10450 Holmes Road, Suite 600 Kansas City, MO 64131-3471

December 17, 2024

Chuck Soules Public Works Director City of Smithville, MO 107 W Main Street Smithville, MO 64089

Subject: Overage Explanation for Authorization 99 – Smithville WTP Residual Cleanout Project

Dear Mr. Soules,

The purpose of this letter is to provide an explanation of the change in the final contract price of the Smithville WTP Residual Cleanout Project. This Project was awarded to Richards Construction Company, Inc. in December 2023, and commenced work in October 2024. Over the course of this project unforeseen conditions within the lagoon solids concentration led to a budget overage.

During the design phase of the Project, HDR sampled the lagoons and found solids concentrations ranging from 10-15%. Based on experience from the 2013 WTP Residual Cleanout Project, it was anticipated that solids concentrations would increase near the bottom of the lagoons. Accordingly, HDR and the City utilized a 20% solids concentration assumption for the basis of design, which resulted in an estimated total of 786 dry tons (DT) within the Lagoons.

Upon commencement of construction, the actual lagoons solids concentrations deviated from the basis of design. In Lagoon 1, the solids concentration averaged 40.6%, much higher than anticipated, resulting in the removal of 850.9 DT. Lagoon 2, however, aligned more closely with the basis of design, with an average solids concentration of 19.4%, resulting in the removal of 414.25 DT. In total, 1,265.16 DT were removed from the two lagoons - exceeding the estimated 786 DT.

Richards Construction Company, Inc., initially bid the project at \$188,000, but the unexpected increase in solids quantities has led to a total project cost of \$264,465.95. HDR has reviewed documentation provided by Richards and recommends approval of the final payment application which includes a \$76,465.95 overage.

Attached to this letter is a summary of the solids removed from the lagoons along with the PACE Laboratory data that substantiates the quantities.

Sincerely,

Derek A. Patrick, PE Project Manager HDR Engineering, Inc.

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Load Log Summary for Smithville, MO

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| | | _ | _ | | | |
|------------------------|------------|------------|--------------------|--------------------|--------------------|--------|
| Project Total Dry Tons | | 296.12 | 530.94 | 725.75 | | 850.91 |
| Field Total Dry Tons | 145.86 | 296.12 | 530.94 | 725.75 | 850.91 | 850.91 |
| Site | SMF1 | SMF1 | SMF1 | SMF1 | SMF1 | |
| Dry Tons | 145.86 | 150.26 | 234.83 | 194.81 | 125.16 | 850.91 |
| Percent Solids | 37.4 | 37.1 | | 48.1 | 15 29.8 | |
| Tons/Load | 15 | 15 | 15 | 15 | | |
| Loads | 26 | 27 | 31 | 27 | 28 | 139 |
| Cell | West | West | West | West | West | |
| Date | 10/15/2024 | 10/16/2024 | 10/17/2024 West 31 | 10/18/2024 West 27 | 10/22/2024 West 28 | TOTAL |

| | 1,265.16 | | 1,265.16 | | | 285 | | Project Totals |
|-------------------------------------|----------------------|------|----------|----------------|-----------|-------|------|-----------------------|
| 1,265.16 | 414.26 | | 414.26 | | | 146 | | TOTAL |
| | | | | | | | | |
| 92.16 SMF1 414.26 1,265.16 1,265.16 | 414.26 | SMF1 | 92.16 | 25.6 | 24 15 | 24 | East | 11/15/2024 East 24 |
| 1,173.00 | 322.10 | SMF1 | 45.05 | 15 23.1 | 15 | 13 | East | 11/14/2024 |
| 1,127.96 | 277.05 | SMF1 | 65.69 | 15.1 | 15 | 29 | East | 11/12/2024 East 29 15 |
| 1,062.27 | 211.37 | SMF1 | 47.61 | 13.8 | 15 | | East | 11/11/2024 |
| SMF1 163.76 1,014.66 | 163.76 | SMF1 | 120.50 | 15 27.7 120.50 | 15 | 29 | East | 11/8/2024 East 29 |
| 894.17 | 43.26 | SMF1 | 43.26 | 10.3 | 15 | 28 | East | 11/7/2024 |
| Project Total Dry Tons | Field Total Dry Tons | Site | Dry Tons | Percent Solids | Tons/Load | Loads | Cell | Date |



November 01, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO Pace Project No.: 60462646

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on October 16, 2024. 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 - Kansas City

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

Sincerely,

May Ingol

Ryan N. Brumfield ryan.brumfield@pacelabs.com (913)599-5665 Project Manager

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: SMITHVILLE, MO Pace Project No.: 60462646

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project:SMITHVILLE, MOPace Project No.:60462646

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60462646001 | | Solid | 10/15/24 16:00 | 10/16/24 11:25 |



SAMPLE ANALYTE COUNT

Project: SMITHVILLE, MO Pace Project No.: 60462646

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60462646001 | 10-15 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO

Pace Project No.: 60462646

| Sample: 10-15 Results reported on a "dry weigh | Lab ID: 6046 ht" basis and are adiu | | | 24 16:00 mple si | | | latrix: Solid | |
|---|--|-------|--------------|---------------------|----------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Meth Pace Analytical | | | | | | | |
| Percent Moisture | 62.6 | % | 0.50 | 1 | | 10/17/24 16:24 | | |
| 2540G Total Percent Solids | Analytical Meth Pace Analytical | | | | | | | |
| Total Solids | 37.4 | % | 0.10 | 1 | | 10/17/24 16:24 | | |



QUALITY CONTROL DATA

| Project: | SMITHVILLE, MO | | | | | | |
|--------------------|--------------------|-------|---------------|--------------|----------------------|----------------|------------|
| Pace Project No.: | 60462646 | | | | | | |
| QC Batch: | 912926 | | Analysis Meth | hod: SI | M 2540G | | |
| QC Batch Method: | SM 2540G | | Analysis Des | cription: 25 | 40G Total Solids | | |
| | | | Laboratory: | Pa | ace Analytical Servi | ces - Kansas (| City |
| Associated Lab Sar | mples: 60462646001 | | | | | | |
| METHOD BLANK: | 3614432 | | Matrix: | Solid | | | |
| Associated Lab Sar | mples: 60462646001 | | | | | | |
| | | | Blank | Reporting | | | |
| Parar | neter | Units | Result | Limit | Analyzed | Qualifiers | |
| Total Solids | | % | ND | 0.10 | 10/17/24 16:23 | | _ |
| | | | | | | | |
| SAMPLE DUPLICA | TE: 3614433 | | | | | | |
| | | | 60462523008 | Dup | | Max | |
| Parar | meter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | | % | 27.1 | 27.3 | 0 | 8 | |

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.



QUALIFIERS

Project: SMITHVILLE, MO

Pace Project No.: 60462646

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SMITHVILLE, MO Pace Project No.: 60462646

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60462646001 | 10-15 | ASTM D2974 | 912931 | | |
| 60462646001 | 10-15 | SM 2540G | 912926 | | |

| DC#_Title: ENV-FRM- | LENE-0009 Sam | |
|--|-----------------------|---|
| | | WO#:60462646 |
| | ective Date: 01/12/2 | |
| Client Name: | | 60462646 |
| Courier: FedEx UPS VIA Clay | PEX 🗆 ECI 🗆 | |
| Tracking #: Pac | ce Shipping Label Use | nd? Yes 🗹 No 🗆 🖌 |
| Custody Seal on Cooler/Box Present: Yes/ No 🗆 | Seals intact: Yes | Ź No∕□ |
| Packing Material: Bubble Wrap , Bubble Bags I | 🗆 Foam 🖵 | None 🖞 Other 🛛 |
| Ma AA d | fice: Wet Blue (No | ing |
| Cooler Temperature (°C): As-read 5-6 Corr. Fact | tor Correc | ted Date and initials of person |
| Temperature should be above freezing to 6°C | | |
| Chain of Custody present: | Yes No N/A | |
| Chain of Custody relinguished: | | |
| Samples arrived within holding time: | | |
| Short Hold Time analyses (<72hr): | Yes No N/A | |
| Rush Turn Around Time requested: 3 d M | ØŸès □No □N/A | (6) |
| Sufficient volume: | Yes No N/A | |
| Correct containers used: | | |
| Pace containers used: | | |
| Containers intact: | Yes DNO DN/A | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | □Yes No □N/A | |
| Filtered volume received for dissolved tests? | Yes No N/A | |
| Sample labels match COC: Date / time / ID / analyses | Yes No N/A | |
| Samples contain multiple phases? Matrix: | Yes No N/A | |
| Containers requiring pH preservation in compliance? | □Yes □No N/A | List sample IDs, volumes, lot #'s of preservative and the |
| (HNO₃, H₂SO₄, HCI<2; NaOH>9 Sulfide, NaOH>10 Cyanide) | | date/time added. |
| (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT# Cyanide water sample checks: | | - |
| Lead acetate strip turns dark? (Record only) | □Yes □No | |
| Potassium iodide test strip turns blue/purple? (Preserve) | □Yes □No | |
| | | |
| Trip Blank present: | | |
| Headspace in VOA vials (>6mm): | 1 | |
| Samples from USDA Regulated Area: State: V V | | |
| Additional labels attached to 5035A / TX1005 vials in the field | | |
| Client Notification/ Resolution: Copy COC to | | Field Data Required? Y / N |
| Person Contacted: Date/T | - ime: | |
| Comments/ Resolution: | | |
| | | |
| Project Manager Review; | Date | e: |

Date:

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| e Analytical |
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CHAIN-OF-CUSTODY / Analytical Request Document

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|---|----|-----|----|---|---|----|---|---|----------|----------|---|-----------------------|---|-----------------------------------|------------------------------|--------------------------|--------------------------|----------------|--------------------|---|--|--|
| | | | | | | | | | | 10-15 | (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE | | Section D Valid Matrix Codes Required Client Information MATRIX COL | | Requested Due Date/TAT: RUSH | | agruenewald@hodgesfd.com | Lebo, KS 66856 | 501 N. West Street | : Hodges Farms and Dredging | Section A Required Client Information: | Pace Analytical |
| | | | | | | | | | | | TS DT R | DW WT SL SL | codes | | Project Number | Project Name: | Purchase Order No.: | | Copy To: | Report To: Aaron Gruenewald/Jeff Hodges | Section B Required Project Information: | |
| | | | | | | | | | | β | MATRIX CODE (| see valid codes i | to left) | | ber | | der N | | | Aaro | oject | |
| | | | | | | | | | | 0 | SAMPLE TYPE (G | GRAB C=CO | MP) | | | Smi | | | | n Gn | nform | |
| | | | | | | | | | | 10/15/24 | DATE | COMPOSITE START | | | | Smithville, MO | | | | Jenewald | ation: | |
| | | | | | | | | | | 8:00 | TIME | ESTART | COLLE | | | | | | | /Jeff Hod | | |
| | | | | | | | | | | 10/15/24 | DATE | COMPOSITE END/GRAB | COLLECTED | | | | | | | ges | | CHAIN-OF-CUSTODY / ANAIYtICAL REQUEST DOCUMENT The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. |
| | | | | | | | | | | 16:00 | TIME | AB | | | | | | | | | | of-Custody |
| l | | | | | | | | | | | SAMPLE TEMP AT C | OLLECTION | | | | | | - | | | | is a L |
| | | | | | | | | | | - | # OF CONTAINER | s | | | Pace Profile # | Pace Project Manager: | Pace Quote Reference: | Address: | Company Name: | Attention: | Section C Invoice Information: | EGAL |
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*For metals/nutrients, leave at least 1 inch of headspace in containers for off-gassing

Collect Fecal Coliform samples after 10:00am

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11-23 TIME

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10/16 DATE

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TIME

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY):

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

RELINQUISHED BY / AFFILIATION

DATE 112/24

ACCEPTED BY I AFFILIATION

ADDITIONAL COMMENTS

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| Pace |
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| LLC LLC |



Work Order Number:

WPDU

16oz unpresserved plstic

| | Glass | | | Plastic | | Misc. |
|-----------------|--|-------------------------------------|--|--|---|--|
| clear vial | WGKU | 8oz clear soil jar | BP1B | 1L NAOH plastic | - | Wipe/Swab |
| per voa vial | WGFU | 4oz clear soil jar | BP1N | 1L HNO3 plastic | SP5T | 120mL Coliform Na Thiosulfate |
| lear vial | WG2U | 2oz clear soil jar | BP1S | 1L H2SO4 plastic | ZPLC | Ziploc Bag |
| ber vial | JGFU | 4oz unpreserved amber wide | BP1U | 1L unpreserved plastic | ΑF | Air Filter |
| amber vial | AGOU | 100mL unores amber glass | BP1Z | 1L NaOH, Zn Acetate | C | Air Cassettes |
| amber vial | AG1H | 1L HCI amber glass | BP2B | 500mL NAOH plastic | R | Terracore Kit |
| Inpreserved | AG1S | 1L H2SO4 amber glass | BP2N | 500mL HNO3 plastic | C | Summa Can |
| ar vial | AG1T | 1L Na Thiosulfate clear/amber glass | BP2S | 500mL H2SO4 plastic | | |
| . clear vial | AG1U | 1liter unpres amber glass | BP2U | 500mL unpreserved plastic | _ | |
| rved clear vial | AG2N | 500mL HNO3 amber glass | BP2Z | 500mL NaOH, Zn Acetate | | |
| lear glass | AG2S | 500mL H2SO4 amber glass | BP3B | 250mL NaOH plastic | | WIETLIX |
| lass | AG3S | 250mL H2SO4 amber glass | BP3F | 250mL HNO3 plastic - field filtered | WT | Water |
| lear glass | AG2U | 500mL unpres amber glass | BP3N | 250mL HNO3 plastic | SL | Solid |
| Clear glass | AG3U | 250mL unpres amber glass | BP3U | 250mL unpreserved plastic | NAL | Non-aqueous Liquid |
| jar | AG4U | 125mL unpres amber glass | BP3S | 250mL H2SO4 plastic | P | OIL |
| | AG5U | 100mL unpres amber glass | BP3Z | 250mL NaOH, Zn Acetate | Мþ | Wipe |
| | | | BP4U | 125mL unpreserved plastic | DW | Drinking Water |
| | 40mL bisulfate clear vial 40mL HCI amber voa vial 40mL MeOH clear vial 40mL TSP amber vial 40mL Aarhio amber vial 40mL Na Thio amber vial 40mL Na Thio. clear vial 40mL Na Thio. clear vial 40mL Na Thio. clear vial 10mL Na Thio. clear vial 40mL Unpreserved clear vial 10mL H2SO4 clear glass 250mL HCL Clear glass 250mL HCL Clear glass 250mL Unpres Clear glass 250mL Unpres Clear glass 16oz clear soil jar | | Glass WGKU WGEU JGFU al AG10 AG17 AG17 AG17 AG17 AG17 AG17 AG10 AG28 AG20 AG20 AG20 AG20 AG20 AG20 AG20 AG20 | Glass WGKU 8oz clear soil jar WGFU 4oz clear soil jar WG2U 2oz clear soil jar JGFU 4oz clear soil jar AG1T 1L HCI amber glass AG1U 1liter unpres amber glass Vial AG2N AG2N 500mL HNO3 amber glass AG2U 500mL unpres amber glass AG3U 250mL unpres amber glass AG4U 125mL unpres amber glass AG5U 400mL unpres amber glass | Glass WGKU 8oz clear soil jar BP18 WGFU 4oz clear soil jar BP1N WG2U 2oz clear soil jar BP1N JGFU 4oz upreserved amber wide BP1N JGFU 4oz upreserved amber glass BP1U JGFU 100mL unores amber glass BP1Z AG1H 1L HCI amber glass BP2N AG1T 1L H2SO4 amber glass BP2N AG1U 1liter unpres amber glass BP2N AG1U 1liter unpres amber glass BP2N AG2N 500mL HNO3 amber glass BP2Z 93 AG3S 250mL H2SO4 amber glass BP3B 93 AG2U 500mL unpres amber glass BP3N 93 AG3U 250mL unpres amber glass BP3N 93 AG4U 125mL unpres amber glass BP3U 93 AG5U 100mL unpres amber glass BP3Z 93 BP3X 250mL unpres amber glass BP3U 93 BP3X 100mL unpres amber glass BP3Z 93 BP3X 100mL unpres amber glass BP3 | Plastic WGKU 8oz clear soil jar BP18 1L NAOH plastic MGFU 4oz clear soil jar BP18 1L NAOH plastic WGFU 2oz clear soil jar BP10 1L HN03 plastic JGFU 2oz clear soil jar BP11 1L HN03 plastic JGFU 2oz clear soil jar BP13 1L HN03 plastic JGFU 4oz nores amber wide BP10 1L unpreserved plastic JGFU 100mL unores amber glass BP10 1L unpreserved plastic AG11 1L HC1 amber glass BP20 500mL NAOH plastic AG11 1L Na Thiosulfate clear/amber glass BP20 500mL HNO3 plastic Vial AG2N 500mL HN03 amber glass BP27 500mL NaOH, Zn Acetate Vial AG2S 500mL HN3 amber glass BP3B 250mL NaOH, Zn Acetate AG2U 500mL unpres amber glass BP3F 250mL NaOH plastic field filtered SS AG4U 125mL unpres amber glass BP3N 250mL HN3 plastic field filtered AG5U 100mL unpres amber |

Matrix VG9H DG9H Client: DG9Q Site VG9U DG9U 5 DG9M ţ٣ 7 DG9B BG1U 7 AG1H AG1U AG2U AG3S AG4U AG5U JGFU WGKU WGDU BP1U Profile/EZ # Notes BP2U BP3U BP1N BP3N BP3F BP3S BP3B BP3Z WPDU ZPLC Other

COC Line Item

> DC#_Tritie: ENV-FRM-LENE-0001 v07_Sample Container Count Effective Date: 7/12/2024

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12

10 10 10 5

Page 1 of 1

Page 11 of 26



ANALYTICAL REPORT

| Lab Number: | L2460759 |
|-----------------|------------------------------|
| | |
| Client: | Pace Analytical Services Inc |
| | 9608 Loiret Blvd. |
| | Lenexa, KS 66219 |
| | |
| ATTN: | Ryan Brumfield |
| Phone: | (913) 307-6958 |
| Project Name: | SMITHFIELD, MO |
| Project Number: | 60462646 |
| Report Date: | 11/01/24 |
| | |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial_No:11012412:24 | Lab Number: L2460759 Report Date: 11/01/24 | ne Receive Date 16:00 10/18/24 | |
|-----------------------|---|---|--|
| | Lab Nu Report | Collection Date/Time 10/15/24 16:00 | |
| | | Sample Location MO | |
| | | Matrix SOLID | |
| | SMITHFIELD, MO r: 60462646 | Client ID 10-15 | |
| | Project Name: Project Number: | Alpha Sample ID L2460759-01 | |



Project Name: SMITHFIELD, MO Project Number: 60462646

Lab Number: L2460759 Report Date: 11/01/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

609 Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 11/01/24



INORGANICS & MISCELLANEOUS



| Serial_I | No:11012412:24 |
|----------|----------------|
|----------|----------------|

| Project Name: Project Number: | SMITHFIELD, MO 60462646 | | | | | | | L2460759 11/01/24 | |
|---|----------------------------|-------|--------|-------|--------------------|------------------|------------------|---|---------|
| | | | SAMPLE | RESUL | rs | | | | |
| Lab ID: Client ID: Sample Location: | L2460759-01 10-15 MO | | | | | | Received: | 10/15/24 16:00 10/18/24 Not Specified |) |
| Sample Depth: Matrix: Parameter | Solid Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
| General Chemistry - We | stborough Lab | | | | | | | | |
| Density | 1.11 | SU | 0.100 | | 1 | - | 11/01/24 03:3 | 0 12,D1475 | DEW |



| 412:24 |
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| 0 |
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| |
| No: |
| |
| Serial |

| SMITHFIELD, M | er: 60462646 |
|---------------|------------------------|
| Project Name: | Project Number: |

Lab Duplicate Analysis Batch Quality Control

 Lab Number:
 L2460759

 Report Date:
 11/01/24

| arameter | Native Sa | re Sample | Duplicate Sample | iple Units | | RPD | Qual | RPD Qual RPD Limits | |
|---|-----------|--------------|--|------------|-------------|-----------|------------|---------------------|--|
| 3eneral Chemistry - Westborough Lab Associated sample(s): | 01 | QC Batch ID: | QC Batch ID: WG1991738-1 QC Sample: L2460759-01 Client ID: 10-15 | QC Sample | :: L2460759 | 9-01 Clie | ent ID: 10 | -15 | |
| | 1.11 | | 1.21 | SU | | 6 | | | |
| | | | | | | | | | |



Sample Receipt and Container Information

YES

Cooler Information

Were project specific reporting limits specified?

| Custody Seal | Absent |
|--------------|--------|
| Cooler | A |

Container Information

| Date/Time | |
|----------------|-----------------------------|
| Seal | Absent |
| Pres | ≻ |
| deg C | 4.2 |
| Нd | |
| Нd | NA |
| Cooler | ۷ |
| Container Type | Glass 120ml/4oz unpreserved |
| Container ID | L2460759-01A |

DENSITY()

Analysis(*)

Frozen

Initial Final Temp



Project Name: SMITHFIELD, MO

Project Number: 60462646

Lab Number: L2460759

Report Date: 11/01/24

GLOSSARY

Acronyms

| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
|----------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Report Format: Data Usability Report



Project Name: SMITHFIELD, MO

Project Number: 60462646

Lab Number: L2460759 Report Date: 11/01/24

Footnotes

| 1 | | |
|---|--|--|

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: SMITHFIELD, MO

Project Number: 60462646

Serial_No:11012412:24

Lab Number: L2460759

Report Date: 11/01/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report



Project Name:SMITHFIELD, MOProject Number:60462646

 Lab Number:
 L2460759

 Report Date:
 11/01/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| | | | | | (Land |
|---|-----------------------|--|--------------|--|---|
| x Rush Multiplier | × | State Of Origin: MO | . M | | Face |
| Workorder: 60462646 Workorder Name: SMITHVILLE, MO | | Cert. Needed: 76 Owner Received Date: | a:Yes | 10/16/2024 Results R | Results Requested By: 10/21/2024 |
| | | | | Requested Analysis | |
| Ryan N. Brumfield Pace Analytical Mansfield Pace Analytical Kansas 320 Forbes Blvd 9608 Loiret Blvd. MA 02048 Lenexa, KS 66219 Phone (913)599-5665 Phone (913)599-5665 | nsfield 48 900 | | , | | |
| | Ċ | G | dulk Density | | |
| | Pres | Preserved Containers | 1 | | |
| Sample ID Collect Lab ID Lab ID | Devresenant X X | | | | LAB USE ONLY |
| PS 10/15/2024 16:00 60462646001 | Solid 1 | | × | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Released By Received By | By | Date/Time | | Monute and an entry of the second sec | 2018 |
| Z | cert | | Т | 100-No. 0000-7N-1600 1 | Location, ous I-KZ-S3B3 " SK-Split sample and send in JGFU" |
| Perkey 10/18/04 1007 12- | 1 | C Intelation | the two | | |
| | | 10.10 | 1001 | | |
| Cooler Temperature on Receipt °C Custody Seal | Y or N | Received on Ice | Ice Y or | N Samul | Samples Intact V or N |

Thursday, October 17, 2024 2:28:06 PM

FMT-ALL-C-002rev.00 24March2009

Page 13 of 15

Serial_No:11012412:24

| | 2 |
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adda a Di

Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300

INTER_LABORATORY WORK ORDER # 60462646

(To be completed by sending lab)

| Date Prepared: REQUESTED COMPLETION DATE: | 10/17/24 |
|--|----------|
| Check Box for Consolidated Invoice: | |
| Receiving Project No: | |
| Sending Project No: | |

| Sending Region | IR60-Kansas | C P C | |
|------------------------|--------------------------|----------------------------------|-----------------------------|
| Perceiving Device | in too-realisas | Sending Project Mgr. | Ryan N. Brumfield |
| Receiving Region | S880 | External Client | |
| State of Sample Origin | | Caternal Olicit | Hodges Farms & Dredging LLC |
| | MO | QC Deliverable | STD PEDODT |
| All q | uestions should be addre | ssed to sending project manager. | STD REPORT |

Requested Reportable Units

| Report Wet or Dry Weigh | nt? Dry We | eight IRV | VO Lab Ne | ed to run? | Cert. Needed N |
|-------------------------|---------------------------|--------------|------------------------|---|---|
| WORK | REQUEST | ED | 10.00 | | |
| Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| IGEU | 4 | | | | |
| 0010 | | Unpreserved | 1 | SI-20MET | SUB PASI MET |
| | WORK | WORK REQUEST | WORK REQUESTED | WORK REQUESTED Container Type Quantity of containers Preservative Samples | WORK REQUESTED Container Type Quantity of Containers Preservative Quantity of Samples Acode |

Report C, QC Limits (C), FR Only no EDD (0)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes x No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Thursday, October 17, 2024 2:28:08 PM





November 12, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462766

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2024. 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 - Kansas City

Report revised to correct sample date.

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

Sincerely,

Semper Haley

Jennifer Haley for Ryan N. Brumfield ryan.brumfield@pacelabs.com (913)599-5665 Project Manager

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





CERTIFICATIONS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462766

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462766

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60462766001 | 10-16 | Solid | 10/16/24 16:00 | 10/17/24 11:36 |



SAMPLE ANALYTE COUNT

Project:SMITHVILLE, MO-Revised ReportPace Project No.:60462766

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60462766001 | 10-16 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462766

| Sample: 10-16 Lab ID: 60462766001 Collected: 10/16/24 16:00 Received: 10/17/24 11:36 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Matrix: Solid | | | | | | | | | | |
|---|---|-------|--------------|----|----------|----------------|---------|------|--|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | | |
| Percent Moisture | Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 62.9 | % | 0.50 | 1 | | 10/21/24 16:11 | | | | |
| 2540G Total Percent Solids | Analytical Method: SM 2540G Pace Analytical Services - Kansas City | | | | | | | | | |
| Total Solids | 37.1 | % | 0.10 | 1 | | 10/21/24 16:11 | | | | |



QUALITY CONTROL DATA

| Project: | SMITHVILLE, MO-Re | vised Report | | | | | | |
|--------------------|-------------------|--------------|--------------|--------------|--------------------|---------------|------------|--|
| Pace Project No.: | 60462766 | | | | | | | |
| QC Batch: | 913347 | | Analysis Met | hod: SM | M 2540G | | | |
| QC Batch Method: | SM 2540G | | Analysis Des | cription: 25 | 40G Total Solids | | | |
| | | | Laboratory: | Pa | ace Analytical Ser | vices - Kansa | s City | |
| Associated Lab Sam | ples: 60462766001 | | | | | | | |
| METHOD BLANK: | 3616124 | | Matrix: | Solid | | | | |
| Associated Lab Sam | ples: 60462766001 | | | | | | | |
| | | | Blank | Reporting | | | | |
| Param | neter | Units | Result | Limit | Analyzed | Qualifier | S | |
| Total Solids | | % | ND | 0.10 | 10/21/24 16:10 | | | |
| | | | | | | | | |
| SAMPLE DUPLICAT | TE: 3616125 | | 60462563004 | Dup | | Max | | |
| Param | neter | Units | Result | Result | RPD | RPD | Qualifiers | |
| Total Solids | | % | 63.7 | | | | | |
| Iotal Solids | | % | 03.7 | 63.0 | 1 | č | | |
| SAMPLE DUPLICAT | TE: 3616126 | | | | | | | |
| | | | 60462783004 | Dup | | Max | | |
| Param | neter | Units | Result | Result | RPD | RPD | Qualifiers | |
| Total Solids | | % | 19.8 | 19.4 | 2 | 8 | | |

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.



QUALIFIERS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462766

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:SMITHVILLE, MO-Revised ReportPace Project No.:60462766

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60462766001 | 10-16 | ASTM D2974 | 913629 | | |
| 60462766001 | 10-16 | SM 2540G | 913347 | | |

| Baca | DC#_Title: ENV-FRM- | LENE-0009_Samp | le Condition Up | 0462766 | |
|--|--|------------------------|---|---|-----------|
| | Bevision: 2 | ective Date: 01/12/2 | WO# : 0 | | |
| Client Name: | 1FRD | | | | |
| Courier: FedEx L | PS 🗆 VIA 🗆 Clay 🗆 | | 60462766 | Uther 🗆 | |
| Tracking #: | Pa | ce Shipping Label Used | | | |
| Custody Seal on Cooler/ | | Seals intact: Yes | | | |
| | ibble Wrap 🗆 🕺 Bubble Bags | (| _ | Other 😡 | |
| Thermometer Used: | Туре с | of Ice: Wet Blue No | Ne n | <u>\</u> | 10 |
| Cooler Temperature (°C): | As-read 2 . Corr. Fac | tor Correct | ed 2 - / | Date and initials of per examining contents: | son/(/ |
| Temperature should be above | freezing to 6°C | - , | | | v (|
| Chain of Custody present: | | Yes No N/A | | | |
| Chain of Custody relinguist | ned: | | | 7 | |
| Samples arrived within hole | ling time: | Yes No N/A | | | |
| Short Hold Time analyses | ; (<72hr): | □Yes \$No □N/A | | | |
| Rush Turn Around Time I | equested: Bday | Yes No N/A | | | |
| Sufficient volume: | 5 | Yes No N/A | | | |
| Correct containers used: | | Yes DNO DNA | | | |
| Pace containers used: | | Yes No N/A | | | |
| Containers intact: | | | | | |
| Unpreserved 5035A / TX10 | 05/1006 soils frozen in 48hrs? | □Yes No □N/A | | | |
| Filtered volume received fo | r dissolved tests? | □Yes No □N/A | | | |
| Sample labels match COC: | Date / time / ID / analyses | ∽QYes □No □N/A | | | |
| Samples contain multiple p | nases? Matrix: | | | | |
| Containers requiring pH pre (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH> (Exceptions: VOA, Micro, O&C | eservation in compliance? 9 Sulfide, NaOH>10 Cyanide) | | List sample IDs, volu date/time added. | imes, lot #'s of preservativ | e and the |
| Cyanide water sample chec | ks: | | | | |
| Lead acetate strip turns dar | | □Yes □No | | | |
| Potassium iodide test strip f | urns blue/purple? (Preserve) | Yes No | | | |
| Trip Blank present: | | | | | |
| ⊣eadspace in VOA vials (> | 6mm): | | | | |
| Samples from USDA Regul | ated Area: State: (Y) 9 | Yes No N/A | | | |
| | 5035A / TX1005 vials in the field | | | | |
| Client Notification/ Resolu | tion: Copy COC t | o Client? Y / N | Field Data Requir | ed? Y / N | |
| Person Contacted: | Date/ | Time: | | | |
| Comments/ Resolution: | | | | | |
| | | | | | |
| Project Manager Review: | | Date | | | |

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| Analytica www.pacelebs.com |
| States . |
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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. CHAIN-OF-CUSTODY / Analytical Request Document

| Note: Note: <th< th=""><th>Samp (</th><th></th><th></th><th>Төл</th><th></th><th></th><th></th><th></th><th>DATE Signed (MM/DD/YY):</th><th>ATE</th><th>99</th><th></th><th></th><th></th><th>1)</th><th></th><th></th><th></th><th>127</th><th>Y SAMPLI</th><th>SIGNATURE of SAMPLER:</th><th>SIC</th><th>Г[—]</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<> | Samp (| | | Төл | | | | | DATE Signed (MM/DD/YY): | ATE | 99 | | | | 1) | | | | 127 | Y SAMPLI | SIGNATURE of SAMPLER: | SIC | Г [—] | | | | | | | | | | |
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| | Work | | | | | WGDU | BG3U | BG3H | ROID DOID | PC10 | VG91 | VG9H | DG9U | DG91 | DG9S | DG9Q | DG9M | DG9H | DGg | | er Code | F | | | | | | t | 1 | 1 | t | 1 | ř | ⊐ Matrix | | | Effe |
| | Work Order Numher | | | | | εľ | | τIC | | | - | | | | S | Q | R | Т | Ξ | | 0 | | t | | | | | | | | | 1 | X | VG9H | | | #_Title: sctive Da |
| | lumber. | | | | | 16oz | 250n | 250n | | 40m | 40m | 40m | 40m | 40m | 40m | 40ml | 40ml | 40ml | 40ml | | | | 1 | | | | | ľ | 1 | | | | | DG9H | 1 | | ENV-FF ate: 7/12 |
| 6 | 1 | | | | | 16oz clear soil jar | nl Unp | IL HOI | TILOU | | Nal | HCI | ambe | L Na T | H2SC | LTSP | L MeO | HCI | bisulf | | | F | 1 | | | | | T | 1 | | | | | DG9Q | Site | Client: | RM-LEN 2/2024 |
| 2 | | | | | | soil jar | res Cle | 250mL HCL Clear class | Titer unnee glass | Serve | 40mL Na Thio. clear vial | 40mL HCl clear vial | er unpr | nio am | 40mL H2SO4 amber vial | 40mL TSP amber vial | 40mL MeOH clear vial | Imber | 40mL bisulfate clear vial | | | | | | | | | T | T | 1 | | T | | VG9U | | | E-0001 |
| 1 | | | | | | 3.00 | 250mL Unpres Clear glass | olass | giass | 40mL unpreserved clear vial | ar vial | | 40mL amber unpreserved | 40mL Na Thio amber vial | er vial | vial | vial | 40mL HCl amber voa vial | ar vial | | | | | | | | | | | | | | | DG9U | 18 | 1 | V07_Sar |
| 6 | | | | | | 2 | ŝ | | | vial | | | | | | | | | | | | | | | | | | | | | | | | DG9M | E. | - | The Co |
| S | | | | | | | | | | | | | | | | | | | | <u>ה</u> | | | | | | | | | | | | | | DG9B | 14 | 0 | DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count Effective Date: 7/12/2024 |
| 20 | | | | | AG5U | AG4U | AGGI | AGOL | AGZO | AG2N | AG1U | AG1T | AG1S | AG1H | AGOU | JGFU | WG2U | WGFU | WGKU | SSE | | | | | | | | | | | | | | BG1U | $ \mathcal{P} $ | 1 | Count |
| pa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | AG1H | | |) |
| | | | | | 100ml | 125ml | 050m | 500m | DUOM | 500ml | 1liter u | 1L Na | 1L H2 | 1L HO | 100ml | 4oz ur | 2oz cl | 40Z CI | 802 0 | | | | | | | | | | | | | | | AG1U | | | |
| | | | | | 100mL unpres amber glass | 125mL unpres amber glass | 250ml linning amber dass | 500ml linnies amber glass | SUUML H2SU4 amber glass | 500mL HNO3 amber glass | fliter unpres amber glass | 1L Na Thiosulfate clear/amber glass | 1L H2SO4 amber glass | 1L HCI amber glass | 100mL unores amber glass | 4oz unpreserved amber wide | 2oz clear soit jar | 4oz clear soil jar | Par sni | | | | | | | | | | | | | | | AG2U | 16 | | |
| | | | | | s amb | es amb | a amb | J4 amb | J4 amt | 3 ambe | amber | Ifate c | mber g | er glass | es amb | rved ar | ar | | iar | | | | | | | | | | | | | | | AG3S | | | |
| | | | | 9 | er alas | er glas | or glad | per gla | per gla | er glas | glass | lear/ar | lass | | er glas | nber w | | | | | | | | | | | | | | | | | | AG4U | | | |
| | | | | | | ŭ ŭ | ólő | 6 8 | S | | | nber gl | | | ŝ | ide | | | | | | | | | | | | | | | | | | AG5U | | | |
| | _ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | JGFU | | | |
| | MPDU | BP4S | BP4N | BP4U | BP37 | BP3S | | BD3N | BP3B | BP2Z | BP2U | BP2S | BP2N | BP2B | BP1Z | BP1U | BP1S | BPIN | | | | | | | | | | | | | | | | WGKU | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | WGDU | | | |
| | 16oz u | | 125mL | 125mL unpreserved plastic | 250ml | 250ml | 20011L | 250ml | 250mL | 500mL | 500mL | 500mL | 500mL | 500mL | 1L NaC | 1L unp | 1L H2S | 1 HN | | | | | | | | | | | | | | | | BP1U | | Profil | |
| | 6oz unpresserved plstic | 25mL H2SO4 plastic | 25mL HNO3 plastic | unpre | NaO- | HINDE | TINO | HNO | NaO | NaOF | unpre | H2SO | HNO3 | NAOF | DH, Zn | unpreserved plastic | H2SO4 plastic | HNO3 plastic | TH plantic | Disc | | | | | | | | | | | | | | BP2U | Notes | Profile/EZ #_ | |
| | erved | 4 plas | plasti | served | Zn A | A nlas | pidsu | plasti | plasti | I, Zn A | served | 4 plas | s plasti | 1 plasti | Aceta | ed plas | astic | | | 5 | | | | | | | | | | | | | | BP3U | | 1 | 0 |
| | plstic | 10 | <u>о</u> | plastic | | plasu | 6 | c - fielo | | cetate | plastic | lic | C | C | ē | tic | | | | | | | | | | | | | | | | | | BP1N | 2 |) | ~ |
| | | | | | | | | filtere | | | | | | | | | | | | | | | | | | | | | | | | | | BP3N | 1 M | | 1 |
| | L | | _ | | | | | | | | | | _ | | | | | | | | | | | | | | | | | | | | | BP3F | 9/0 | | 0 |
| | | | | DW | NP r | | OL | | | | | | C | R | 0 | AF | ZPI C | - SD2T | - | | | | | | | | | | | | | | | BP3S | í. | \vdash | - |
| | | | | | | | | | | | | | (0) | | | | | | | | | | | | | | | | | | | | | BP3B | <i>Q</i> ., | | (|
| | | | | Drinking Water | Nino | OII | DIID | Water | | | | | Summa Can | Terracore Kit | Air Cassettes | Air Filter | Zinlon Ran | Vipe/S | 1 10 | | | 4 | | | | | | | | | | | | BP3Z | | | |
| | | | | g Wate | | neons | | | | Matrix | | | Can | ore Kit | settes | Lag | 1an | Wab | MISC. | | | | | | | | | | | | | | | WPDU | $ _{\mathcal{O}}$ | | |
| | | | | - | | Liquid | | | ; | İ | | | | | | | 111 IVG | NI2 | ļ | | | | | | | | | | | _ | | | | ZPLC | 2 | | |
| | | | | | | | | | | | | | | | | | Deott | VVIDE/SWAD | | | | | | _ | | _ | | | | | | | | Other | 0 | | |
| | | | | | | | | | | | | | | | | | liate | to to | | | | | | | | | | | | | | | | | | | |
| | | | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Pag | e 11 c | of 26 |

Qualtrax ID: 30422

Pace® Analytical Services, LLC

Page 1 of 1



ANALYTICAL REPORT

| Lab Number: | L2462443 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: Phone: | Ryan Brumfield (913) 307-6958 |
| Project Name: | 60462766 |
| Project Number: | 60462766 |
| Report Date: | 11/08/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial_No:11082413:40 | L2462443 11/08/24 | Receive Date 10/26/24 | |
|-----------------------|----------------------------------|---|--|
| Serial_ | Lab Number: Report Date: | Collection Date/Time 10/15/24 16:00 | |
| | | Sample Location SMITHVILLE,MO | |
| | | Matrix SOLID | |
| | 60462766 60462766 | Client ID 10-15 | |
| | Project Name: Project Number: | Alpha Sample ID L2462443-01 | |



 Project Name:
 60462766

 Project Number:
 60462766

 Lab Number:
 L2462443

 Report Date:
 11/08/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Curlen Walker Cristin Walker

Title: Technical Director/Representative

Date: 11/08/24



INORGANICS & MISCELLANEOUS



| Serial_No:11082413:40 |
|-----------------------|
|-----------------------|

| Lab Number: | L2462443 |
|--------------|----------|
| Report Date: | 11/08/24 |

SAMPLE RESULTS

| Sample Depth: Matrix: | Solid | | | | | | | · | | |
|--------------------------|--------|-----------|-------|----|-----|--------------------|------------------|------------------|----------------------|--------|
| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analys |



Project Name:

Project Number: 60462766

60462766

| 13:40 |
|--------|
| 0824 |
| No:11 |
| Serial |

| | L2462443 | 11/08/24 | |
|------------------------|-----------------------|-----------------|--|
| | Lab Number: | Report Date: | |
| Lab Duplicate Analysis | Batch Quality Control | | |
| | 60462766 | 60462766 | |
| | Project Name: | Project Number: | |

| Parameter Nativ | ive Sample | Duplicate Sample | iple Units | | Qual | RPD Qual RPD Limits |
|---|------------|---|--------------|---------------|--------------|---------------------|
| General Chemistry - Westborough Lab Associated sample(s): | 01 | QC Batch ID: WG1994163-1 QC Sample: L2463760-01 Client ID: DUP Sample | QC Sample: L | .2463760-01 C | lient ID: DI | UP Sample |
| Density | 1.01 | 1.01 | SU | 0 | | |



60462766 Project Number: 60462766 Project Name:

Lab Number: L2462443 Serial_No:11082413:40 Report Date: 11/08/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Absent Cooler ∢

Container Information

Final Temp pH degC Pres Seal Initial ^I Cooler pH F AN ∢ Glass 250ml/8oz unpreserved Container ID Container Type L2462443-01A

Absent ≻ 4.4

DENSITY()

Analysis(*)

Frozen Date/Time



Serial_No:11082413:40

Project Name: 60462766

Project Number: 60462766

Lab Number: L2462443

Report Date: 11/08/24

GLOSSARY

Acronyms

| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
|----------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Report Format: Data Usability Report



| Project Name: | 60462766 | Lab Number: | L2462443 |
|-----------------|----------|--------------|----------|
| Project Number: | 60462766 | Report Date: | 11/08/24 |

Footnotes

.

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

1

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: 60462766

Project Number: 60462766

Serial_No:11082413:40

Lab Number: L2462443

Report Date: 11/08/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report



 Project Name:
 60462766

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 60462766

 Lab Number:
 L2462443

 Report Date:
 11/08/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene, 1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| Custody Custody Samples Tre-Logged into eCOC Samples Tre-Logged into eCOC Over Received Date: 10/17/2024 Results Requested By: 11/ 2024 Results Requested B | | | | | | | L24(| 52443 | | 08NOV24 | I | |
|--|--|--|----------------|--|--|---------------|--------------|--|------------------------------|----------|------------------------|--------------|
| Route frequencies Rest Multiplier X Representation Samples Frequested By: Samples Frequested By: Samples Frequested By: Samples Frequested By: Samples Frequested By: Samples Frequested By: Samples Frequested By: All Burnfield Samples Frequested By: All Burnfield Samples Frequested By: An Burnfield Samples Frequested By: An Burnfield Samples Frequested By: An Burnfield Samples Frequested By: An Burnfield Sample Bi Preserved Containers Matrix Requested By: Preserved Containers An Sample Bi Preserved Containers Color Bartix Barnple Bi Preserved Containers Color Bartix Barnple Bi Preserved By Oris Date/Time Barnple Bi Date/Time Barnpl | Intern | al Transfer | Chain o | of Custody | | | | E - KS | | | | C |
| tria contract to c | Vorkorde | | Vorkorder N | | tiplier >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> | t nto eCOC | | ate Of Orig rt. Needed. mer Receiv | in: MO : Yes red Date: | | 4 Results Requested By | Pace |
| N. Brunnfield Pace Analytical Mansfield a307 Forbos Study Sand Study a307 Forbos Study MA 02043 Anone (509)822-3300, Sannpie Na. KS 66219 Prosecond Prosecond Prosecond Sample ID Type Sample ID Prosecond S | Report To | | | õ | To | | | | | Requeste | ed Analysis | |
| Preserved Containers Sample (D Type Date/Time Lab (D Sample (D Type Date/Time Lab (D 10-15 Type Date/Time Lab (D 10-15 PS 10/15/2024 16:00 60/62766001 Solid 10-15 PS 10/15/2024 16:00 Bote/Time PS 16 PS Date/Time Received By O | Ryan N. B Pace Analy 9608 Loire Lenexa, K Phone (91: | rumfield ytical Kansas tt Blvd. S 66219 3)599-5665 | | Pace Ar 320 For Mansfie Phone (| alytical Mansi bes Blvd id, MA 02048 508)822-9300 | field | | | Viizne0 | | | |
| Sample ID Sample Collect Lab ID Matrix Description 10-15 Type Date/Time Lab ID Matrix Difference 10-15 Ps 10/15/2024 16:00 60/462766001 Solid 1 X D D D 10-15 Ps 10/15/2024 16:00 60/462766001 Solid 1 X D D D D 10-15 Ps 10/15/2024 16:00 60/462766001 Solid 1 X D D D D 10-15 Ps 10/15/2024 16:00 60/462766001 Solid 1 X D D D D 10-15 Ps 10/15/2024 16:00 60/462766001 Solid 1 D D D D D 11 Ps D D D D D D D D D 11 Ps D D D D D D D D 11 Ps D D D D D D D D 12 C Date/Time Received By D D D D D 13 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td>Overend C</td><td>and a factor</td><td>l Aluß</td><td></td><td></td><td></td></t<> | | | | | | - | Overend C | and a factor | l Aluß | | | |
| Sample ID Sample Collect Lab ID Matrix Line | | | | | | | naviaeati | OILGINGES | | _ | | |
| 10-15 PS 10/15/2024 15:00 60462766001 Solid 1 X N | | le ID | Sample Type | ne | D ID | Matrix | pernesangriU | | | | | LAB USE ONLY |
| ransfers Released By Date/Time Received By Date/Time Received By Comments Coller Temperature on Received °C Custodv Seal Y or N Received on Ice Y or N Samoles Intact Y or | 10-15 | | PS | | 50462766001 | Solid | + | | × | | | |
| Date/Time Received By Date/Time Comments Date/Time Received By Date/Time Comments 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | |
| Date/Time Received By Date/Time CSelleau 1004/04/1000 CSelleau 1004/04/1000 Costody Seal Y or N Received on Ice | - | | - | | | | | | | | Comments | |
| C Custody Seal Y or N Received on Ice Y or N Samoles Intact Y or | Transfers | Released By | | Date/Time | Received B | v | 1 1 | Date/Time | | | | |
| °C C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or | | | | | | eau | 90 | 7 | 0 | | | |
| | Cooler Te | mperature on Rec | ceipt | °C Custo | | or N | Re | sceived on | > | N | Samples Intact Y | or N |

Friday, October 25, 2024 10:34:20 AM

This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24March2009

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Serial No:11082413:40

•

Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 INTER_LABORATORY WORK ORDER # 60462766

(To be completed by sending lab)

No

Sending Project No: 60462766 Receiving Project No: Check Box for Consolidated Invoice Date Prepared: 10/25/24 REQUESTED COMPLETION DATE: 11/4/2024

| Sending Region | IR60-Kansas | Sending Project Mgr. | Ryan N. Brumfield |
|------------------------|-------------|----------------------|-----------------------------|
| Receiving Region | S880 | External Client | Hodges Farms & Dredging LLC |
| State of Sample Origin | MO | QC Deliverable | STD REPORT |

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight? Dry Weight IRWO Lab Need to run? Cert. Needed

| | | WORK | REQUEST | ED | | | |
|----|--------------------|----------------|---------------------------|--------------|------------------------|----------|--------------|
| 28 | Method Description | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| | Bulk Density | BP3U | 1 | Unpreserved | 1 | SI-20MET | SUB PASI MET |

Special Requirements: Report C, QC Limits (C), FR Only no EDD (0)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

X No

LOCATION: 6091-R3-S2B3

Page 14 of 15

Serial_No:11082413:40

"HERE"

FROM:

D MARY TERRY 514 P

MAC

Mstr

MPSB

*** SAND BXE MLW 75-

| 908 | 9297(828) 9297(828) | | 1 GHT | 581 B0S | |
|--|---|----------------------|------------------------------|--------------------|--|
| 250CT24 0 00 LB MAN 433/CAFE3008 15x11 IN ER | | | URDAY 12:00P TY OVERNIGHT | 01 MA-US | |
| SHIP DATE: 2500 ACTWGT 30 00 L CAD: 0456433/CA DIMS: 18X15X11 BILL SENDER | IELD | | SATUR PRIORITY | | |
| | MANSFIELD | 01581 : cs - 2967 | PRI | 13 | |
| ORIGIN ID IXDH (913) 559-5665 SHIPPING DEPARTMENT 9608 LUIKET BLVD 1608 LUIKET BLVD LENEXR, KS 652192406 UNITED STATES US | TICAL | MA | 0005 | BFA | |
| ORIGIN ID IXDA (913 SHIPPING DEPARTMENT 9608 LUIKET BLVD LENEXR, KS 662192406 UNITED STATES US | RECIEVING PACE ANALYI 8 WALLCUP D | MESTBOROUGH | 4033 6452 0 | BB | |

Page 15 of 15

Page 26 of 26



November 12, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462862

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2024. 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 - Kansas City

Report revised to correct sample date.

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

Sincerely,

Semper Haley

Jennifer Haley for Ryan N. Brumfield ryan.brumfield@pacelabs.com (913)599-5665 Project Manager

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





CERTIFICATIONS

Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462862

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Colorado Division of Oil and Public Safety Illinois Certification #: 2000302023-6 Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

| Project: | SMITHVILLE, MO-Revised Report |
|-------------------|-------------------------------|
| Pace Project No.: | 60462862 |

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60462862001 | 10-17 | Solid | 10/17/24 16:00 | 10/18/24 12:47 |



SAMPLE ANALYTE COUNT

Project:SMITHVILLE, MO-Revised ReportPace Project No.:60462862

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60462862001 | 10-17 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462862

| Sample: 10-17 | Lab ID: 6046 | | Collected: 10/17/2 | | | | latrix: Solid | |
|----------------------------------|-----------------------------------|--------------|--------------------|----------|-----------------|----------------|---------------|------|
| Results reported on a "dry weigh | nt" basis and are adju | isted for pe | rcent moisture, sa | mple siz | ze and any dilu | tions. | | |
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Methore Analytical | | | | | | | |
| Percent Moisture | 49.5 | % | 0.50 | 1 | | 10/21/24 16:11 | | |
| 2540G Total Percent Solids | Analytical Mether Pace Analytical | | | | | | | |
| Total Solids | 50.5 | % | 0.10 | 1 | | 10/21/24 16:11 | | |



QUALITY CONTROL DATA

| Project: | SMITHVILLE, MO-Re | evised Report | | | | | | |
|--------------------|--------------------------------|---------------|--------------|--------------|--------------------|---------------|------------|--|
| Pace Project No.: | 60462862 | | | | | | | |
| QC Batch: | 913347 | | Analysis Met | hod: SN | VI 2540G | | | |
| QC Batch Method: | SM 2540G | | Analysis Des | cription: 25 | 40G Total Solids | | | |
| | | | Laboratory: | Pa | ace Analytical Ser | vices - Kansa | s City | |
| Associated Lab Sar | mples: 6046286200 ² | 1 | | | | | | |
| METHOD BLANK: | 3616124 | | Matrix: | Solid | | | | |
| Associated Lab Sar | mples: 6046286200 ² | 1 | | | | | | |
| | | | Blank | Reporting | | | | |
| Parar | neter | Units | Result | Limit | Analyzed | Qualifier | S | |
| Total Solids | | % | ND | 0.10 | 10/21/24 16:10 | | | |
| | | | | | | | | |
| SAMPLE DUPLICA | TE: 3616125 | | | | | | | |
| _ | | | 60462563004 | Dup | | Max | | |
| Parar | meter | Units | Result | Result | RPD | RPD | Qualifiers | |
| Total Solids | | % | 63.7 | 63.0 | 1 | 8 | 3 H1 | |
| | TE. 0040400 | | | | | | | |
| SAMPLE DUPLICA | TE: 3616126 | | 60462783004 | Dup | | Max | | |
| Parar | neter | Units | Result | Result | RPD | RPD | Qualifiers | |
| | | | 19.8 | 19.4 | 2 | 8 | | |

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.



QUALIFIERS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462862

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:SMITHVILLE, MO-Revised ReportPace Project No.:60462862

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60462862001 | 10-17 | ASTM D2974 | 913629 | | |
| 60462862001 | 10-17 | SM 2540G | 913347 | | |

| | | -962 |
|--|---------------------------------------|--|
| Pace DC#_Title: ENV-FRM- | LENE-0009_Sam | ple Condit 462862 |
| Revision: 2 Effe | ective Date | ¥ |
| Client Name: HF & D | - Va | |
| | | |
| | ce Shipping Lat | AS NO |
| Custody Seal on Cooler/Box Present: Yes D No | Seals intact: Yes | |
| Packing Material: Bubble Wrap D Bubble Bags I | (| None 🗆 Other/ 🗆 |
| Thermometer Used: | fice: Met Blue No | |
| Cooler Temperature (°C): As-read (V, Corr. Fact | tor <u> </u> | ted (0.) |
| Temperature should be above freezing to 6°C | | |
| Chain of Custody present: | Yes No N/A | |
| Chain of Custody relinguished: | Yes No N/A | |
| Samples arrived within holding time: | Yes No N/A | |
| Short Hold Time analyses (<72hr): | | |
| Rush Turn Around Time requested: 3day | | |
| | | |
| Sufficient volume: | | |
| Correct containers used: | □ Nes □ No □ N/A | |
| Pace containers used: | | |
| Containers intact: | Yes No N/A | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | □Yes \$\$No □N/A | |
| Filtered volume received for dissolved tests? | □Yes \$No □N/A | |
| Sample labels match COC: Date / time / ID / analyses | Thes No N/A | |
| Samples contain multiple phases? Matrix: | □Yes □No □N/A | |
| Containers requiring pH preservation in compliance? (HNO₃, H₂SO₄, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) | TYES DNA DNA | List sample IDs, volumes, lot #'s of preservative and the date/time added. |
| (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT# Cyanide water sample checks: | • | |
| Lead acetate strip turns dark? (Record only) | Yes No | |
| Potassium iodide test strip turns blue/purple? (Preserve) | Yes No | · · · · · · · · · · · · · · · · · · · |
| Trip Blank present: | Yes No N/A | |
| Headspace in VOA vials (>6mm): | | |
| Samples from USDA Regulated Area: State: M | □Yes No □N/A | |
| Additional labels attached to 5035A / TX1005 vials in the field | | |
| Client Notification/ Resolution: Copy COC to | · · · · · · · · · · · · · · · · · · · | Field Data Required? Y / N |
| Person Contacted: Date/T | Time: | |
| Comments/ Resolution: | | |
| Project Manager Review: | Date | a |

| | | | | containers fr | "For metals/ | "Collect Fee | 12 | 11 | 10 | w | 80 | 7 | 0 | en | 4 | ω | 2 | - | ITEM # | | Re | | Requested | Phone: 92 | Email To: | | Address: | Company: | Section A Required C | La. |
|----------------------------|------------------------|----------------------------|---|----------------------------|---|-------------------------------|--------------|--------------|----|---|----|---|---|----|---------------|---|---|----------|---|-----------------------|--|-----------------------------------|-------------------------|-------------------------------|--------------------------|----------------|--------------------|---|--|--|
| | | | | containers for off-gassing | For metals/hublents, leave at least 1 inch of h | ADDITIONAL COMMENTS | | | | | | | | | | | | | (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE | | Section D Required Client Information | | Requested Due Date/TAT: | | ald@ | Lebo, KS 66856 | 501 N. West Street | Hodges Farms and Dredging | Section A Required Client Information: | Pace Analytical www.pacelabs.com |
| | | | | | 1 inch of headenace in | OMMENTS | | | | | | | | | | | | 10-15 | | | Valid Matrix Codes MATRIX CODE | | | Fax | odgesfd.com | | eet | and Dredging | | E M |
| | | | | - | | ł | | | | | | | + | | | | | | TS T | SL WW | CODE | | Project Number | Project Name: | Purchase Order No.: | | Copy To: | Report To: Aaron Gruenewald/Jeff Hodges | Section B Required Project Information: | |
| | | | | | 5 | RELIN | | | | | | | _ | | | | | Ś | | ee valid codes | | | ber: | | rder No | | | Aaron | roject tr | |
| | | | | | C | QUIST | ⊢ | _ | _ | _ | | | | _ | | | | 0 | SAMPLE TYPE (G= | GRAB C=CC | DMP) | | | Smith | - 6 | | | Gru | Iforma | |
| | | 6 | | | Ric | RELINQUISHED BY I AFFILIATION | | | | | | | | | | | | 10/15/24 | DATE | COM POSITE START | | | | Smithville, MO | | | | enewald/. | tion: | |
| <u>w</u> | 3 | MIPLER | | | har | FFILIATION | | | | | | | | | | | | 8:00 | TIME | START | COLLECTED | | | | | | | Jeff Hodg | | = O |
| SIGNATURE of SAMPLER: | PRINT Name of SAMPLER: | SAMPLER NAME AND SIGNATURE | | _ | 0 | 0 | | | | | | | _ | _ | | | | 10/15/24 | DATE | COMPOSITE END/GRAB | TED | | | | | | | es | | CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. |
| of SAMPLI | of SAMPLI | DSIGNATI | | 1 | 1210 | - DATE | | | | | | | | | | | | 16:00 | IME | | | | | | | | | | | -OF-C |
| 8 | R | ž | | _ | K | | _ | _ | | | _ | | _ | | | _ | | _ | SAMPLE TEMP AT CO | | | | 2 | M | Re | Ac | 0 | At | N F | ы SU S |
| | | | | | 14:47 | TIME | | _ | _ | _ | - | - | _ | _ | _ | _ | | 1 X | # OF CONTAINERS | | | | Pace Profile # | Pace Project Manager: | Pace Quote Reference: | Address: | Company Name: | Attention: | Section C Invoice Information: | |
| | | | | | 4 | m | | | | | + | | | | | | - | <u> </u> | H ₂ SO ₄ | | | | ile#: | 8 | i ĉ | | у Nап | | nform: | 2 DY |
| | | | | | | | | | | | | | | | | | | | HNO ₃ | | Preservatives | | | | | | <u>R</u> | | ation: | MENT |
| | | | | | | | | - | - | - | | + | - | - | - | - | _ | - | HCI NaOH | | ena | | | | | | | | | l≧ |
| | | | | | | 8 | | | | | | | | | | | | | Na ₂ S ₂ O ₃ | | tives | | | | | | | | | eleva |
| | | | | | | CEPT | | | | | | | | | | | | | Methanol | | | | | | | | | | | nt fiel |
| | | | | | | CEPTED BY / AFPILIATION | _ | | | _ | _ | _ | | | _ | | | - | Other | | Y/N | - | | | | | | | | |
| | | | | | N | NIA | -1 | | - | | | - | - | | T | - | _ | _ | 6010 Metals / Me | | 1/14 | | | | | | | | | ust ba |
| DATE | | | | | 16 | 닅 | | | | | + | + | | | | | | | Aluminum | Joury | | Req | | | | | | | | Com Co |
| DATE Signed (MM/DD/YY): | | | | | \mathcal{N} | IOIT | | | | | | 1 | | | | | | | Sodium | | | uest | | | | | | | | |
| | | | | | N | | | | | | | | | | | | | | Chloride | | | ed A | | | | | | | | d acc |
| | | | _ | _ | | | _ | _ | _ | _ | _ | - | - | _ | \rightarrow | _ | _ | 4 | Total Phosphorus | 5 | | inaly | | SHa | ٦ | ٦ | R | | | Jrateh |
| | | | | | 5 | DATE | + | - | + | + | + | + | + | + | + | - | - | × | TKN Total Solids | | | sis | ST | 5 | UST | NPDES | ۶I | | | ent |
| - 1 | | | | | 05 | n - | + | + | 1 | + | + | + | + | + | + | - | - | | Effective Neutrali | zing Mate | | Filte | STATE: | Site Location | | ß | Ŗ | | | |
| | | Ī | | | | | | | | | | | | | | | | | pН | | | red (| | | ٦ | | YA | | | |
| | | | | | 1247 | TIME | | | | | | | | | | | | × | Bulk Density | | | Requested Analysis Filtered (Y/N) | | | RCRA | GR | REGULATORY AGENCY | | | \square |
| | | | _ | | | _ | \downarrow | \downarrow | _ | - | _ | - | - | + | - | | - | _ | | | | | N C | | Å | NU | 위 | r | | 0 |
| Terr | np in ' | °C | | | 10:5 | | | | | | | ‡ | | | | | | | Residual Chlorine | (Y/N) | | | | | | GROUND WATER | | | Page: | 204 |
| | eived (Y/N | | | | | SAMPL | | | | | | | | | | | | | Pace | | | Call No | | | -1 | ٦ | | | - | 6 |
| Custor Cool | dy Sei Ier (Y/ | | | | | SAMPLE CONDITIONS | | | | | | | | | | | | | Project N | | | | | - Frank | OTHER | DRINKING WATER | | | ٩ | 2 |
| Sampi (` | les Ini Y/N) | tact | | | | IONS | | | | | | | | | | | | | Pace Project No./ Lab I.D. | | | | | A subset of the second second | | WATER | | | - ≯ Pa | je 10 of 26 |
| | | | | | | | | | | | | | | | | | | | | | 39118 | 7.4 | | | | | | L | | |

| - | | | - | | | | _ | | | | | _ | _ | | | | Container Codes | 12 | 11 | 10 | 9 | 00 | 7 | 6 | UN | 4 | ω | 2 | _ | COC Line Item | |
|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-----------------------------|---------------------------|-------------------------------------|------------------------|-------------------------|--------------------------|----------------------------|----------------------|-------------------------------|---------------------------|----------|-----------------|----|----|----|---|----|---|---|----|---|---|---|---|------------------|---|
| | WGDU | BG3U | BG3H | BG1U | BG1S | VG9U | VG9T | VG9H | Dean | 1690 | 2690 | Dead | Neel | LIADO | DG9B | | Codes | | | | | | | | | | | | ř | Matrix | Effect |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | VG9H | Title: E |
| | 16oz clear soil jar | 250mL Unpres Clear glass | 250mL HCL Clear glass | 1liter unpres glass | 1liter H2SO4 clear glass | 40mL unpreserved clear vial | 40mL Na Thio. clear vial | 40mL HCI clear vial | 40mL amber unpreserved | 40mL Na Thio amber vial | 40mL H2SO4 amber vial | 4UML ISP amber viai | 40mL WeOH clear vial | 40mL HCI amber voa via | 40mL bisulfate clear vial | | | | | | | | | | | | | | | DG9H | NV-FRA |
| | ear so | Unpre | HCLO | npres (| 2SO4 | Inpres | Va Thio | | amber | Va Thio | 12504 | or an | WeOH | TID ICI | Disulfat | | | | | | | | | | | | | | | DG9Q | .024 Client: |
| | ijar | s Clea | lear g | glass | clear g | erved | b. clear | ar vial | unpres | ambe | ambe | nber vi | clear v | IDer Vo | e cleai | | | | | | | | | | | | | | | VG9U | |
| | | r glass | lass | | lass | clear vi | vial | | erved | er vial | vial | 8 | a | IBIA B | vial | | | | | | | | | | | | | | | DG9U | S H |
| | | 1540 | | | | a | | | | | | | | | | | | | | | | | | | | | | | | DG9M | |
| | | | | | | | | | | | | | | | | Glass | | | | | | | | | | | | | | DG9B | DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count Effective Date: 7/12/2024 client: 4 F & D site: 501460 |
| AG5U | AG4U | AG3U | AG2U | AG3S | AG2S | AG2N | AG1U | AG1T | AG1S | AG1H | AGOU | JGFU | WG2U | WGFU | WGKU | SS | | | | | | | | | | | | | | BG1U | ount |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | AG1H | E |
| 100mL | 125mL | 250mL | 500mL | 250mL | 500mL | 500mL | 1liter u | 1L Na | 1L H2: | 1L HC | 100mL | 4oz un | 2oz cle | 4oz cle | Boz cle | | | | | | | | | | | | | | | AG1U | ro |
| 100mL unpres amber glass | . unpre | . unpre | unpre | . H2SC | . H2SC | HNO | 1liter unpres amber glass | Thiosu | 1L H2SO4 amber glass | 1L HCI amber glass | - unore | preser | 2oz clear soil jar | 4oz clear soil jar | 8oz clear soil jar | | | | | | | | | | | | | | | AG2U | |
| s amb | s amb | s amb | s amb |)4 amb |)4 amb | 3 ambe | amber | Ifate c | nber g | r glass | s amb | ved ar | jar | jar | jar | | | | | | | | | | | | | | | AG3S | |
| er glas | 125mL unpres amber glass | 250mL unpres amber glass | 500mL unpres amber glass | 250mL H2SO4 amber glass | 500mL H2SO4 amber glass | 500mL HNO3 amber glass | glass | 1L Na Thiosulfate clear/amber glass | ass | | 100mL unores amber glass | 4oz unpreserved amber wide | | | | | | | | | | | | | | | | | | AG4U | |
| S | s | s | S | ŝ | Si | | | nber gl | | | ίΩ. | ide | | | | | | | | | | | | | | | | | | AG5U | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | JGFU | |
| BP3Z | BP3S | BP3U | BP3N | BP3F | BP3B | BP27 | BP2U | BP2S | BP2N | BP2B | BP1Z | BP1U | BP1S | BP1N | BP1B | | | | | | | | | | | | | | | WGKU | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | WGDU | |
| 250mL NaOH, Zn Acetate | 250mL | 250mL | 250mL | 250ml | 250mL | 500ml | 500mL unpreserved plastic | 500mL H2SO4 plastic | 500mL HNO3 plastic | 500mL NAOH plastic | 1L Na(| 1L unp | 1L H23 | 1L HN | 1L NA | | | | | | | | | | | | | | | BP1U | Profi |
| NaOF | H2SC | unpre | HNO | HNO | NaO | NaO- | unpre | H2SC | HNO | . NAOH | NaOH, Zn Acetate | unpreserved plastic | H2SO4 plastic | O3 pla | NAOH plastic | Plastic | | | | | | | | | | | | | | BP2U | Profile/EZ # |
| l, Zn A | 4 plas | Served | plasti | plasti | n plasti | | served |)4 plas | 3 plasti | 1 plasti | Aceta | ed pla: | astic | stic | stic | stic | | _ | | | | | | | | | | - | - | BP3U | a D |
| cetate | tic | plasti | 0 | c - field | | retate | plasti | fi | 0 | ic. | te | stic | | | | | | | | | | | | | | | | | | BP1N | |
| | ľ | | | filtere | | ľ | | | | | | | | | | | | | | | | | | | | | | | | BP3N | 63 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | BP3F | |
| WP | | NAI | SL | ¥1 | | | | | | R | C | AF | ZPLC | SP5T | | | | | | | | | | | | | | | | BP3S | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | BP3B | |
| Wipe | OIL | Non-a | Solid | Water | | | | | Summ | Terrac | Air Ca | Air Filter | Ziploc Bag | 120mi | Wipe/Swab | | | | | | | | | | | | | | | BP3Z | \sim |
| | dacon | | | | Matrix | | | | Summa Can | Terracore Kit | Air Cassettes | Ē | Bag | - Colife | Swab | Misc | | | | | | | | | | | | | N | WPDU | |
| | | inii | | | trix | | | | | | | | | orm Na | ġ | <i>"</i> | | | | | | | | | | | | | | ZPLC | |
| | | | | | | | | | | | | | | 120mL Coliform Na Thiosulfate | | | _ | | | | | | | | | | | | 0 | Other | |
| | | | Ì | | | | | | | | | | | te | | | | | | | 7 | | | | | | | | | | Page 11 of 26 |

Qualtrax ID: 30422

Work Order Number:

624608W

BP3F BP3N BP3U BP3S BP3Z BP4U BP4N BP4N BP4S

DW NAL WT

Drinking Water

WPDU

16oz unpresserved plstic

125mL unpreserved plastic 125mL HNO3 plastic 125mL H2SO4 plastic

Pace® Analytical Services, LLC

4

Page 1 of 1



ANALYTICAL REPORT

| Lab Number: | L2462440 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: Phone: | Ryan Brumfield (913) 307-6958 |
| Project Name: | 60462862 |
| Project Number: | 60462862 |
| Report Date: | 11/08/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial_No:11082413:38 | L2462440 11/08/24 | Receive Date 10/26/24 | |
|-----------------------|----------------------------------|---|--|
| Serial_N | Lab Number: Report Date: | Collection Date/Time 10/15/24 16:00 | |
| | | Sample Location SMITHVILLE,MO | |
| | | Matrix SOLID | |
| | 60462862 60462862 | Client ID 10-15 | |
| | Project Name: Project Number: | Alpha Sample ID L2462440-01 | |



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 Project Name:
 60462862

 Project Number:
 60462862

 Lab Number:
 L2462440

 Report Date:
 11/08/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Curlen Walker Cristin Walker

Title: Technical Director/Representative

Date: 11/08/24



INORGANICS & MISCELLANEOUS



| Serial_ | No:11082413:38 |
|---------|----------------|
|---------|----------------|

| Project Name: | 60462862 | | Lab Number: | L2462440 |
|--------------------------|---------------|----------------|-----------------|----------------|
| Project Number: | 60462862 | | Report Date: | 11/08/24 |
| | | SAMPLE RESULTS | | |
| Lab ID: | L2462440-01 | | Date Collected: | 10/15/24 16:00 |
| Client ID: | 10-15 | | Date Received: | 10/26/24 |
| Sample Location: | SMITHVILLE,MO | | Field Prep: | Not Specified |
| Sample Depth: Matrix: | Solid | | | |

| Sample Depth: Matrix: | Solid | | | | | | | | | |
|--------------------------|----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
| General Chemistry - We | estborough Lat |) | | | | | | | | |
| Density | 1.36 | | SU | 0.100 | | 1 | - | 11/07/24 03:30 | 12,D1475 | DEW |



| 13:38 | |
|--------|--|
| 0824 | |
| No:11 | |
| Serial | |

L2462440 11/08/24

| | Lab Number: | Report Date: |
|------------------------|-----------------------|-----------------|
| Lab Duplicate Analysis | Batch Quality Control | |
| | 60462862 | 60462862 |
| | Project Name: | Project Number: |

| s RPD Qual RPD Limits | QC Batch ID: WG1994163-1 QC Sample: L2463760-01 Client ID: DUP Sample | 0 |
|------------------------|---|---------|
| Duplicate Sample Units | QC Sample: | SU |
| Duplicate San | WG1994163-1 | 1.01 |
| Native Sample | 01 | 1.01 |
| Parameter | General Chemistry - Westborough Lab Associated sample(s): | Density |



60462862 Project Number: 60462862 Project Name:

Lab Number: L2462440 Serial_No:11082413:38 Report Date: 11/08/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Absent Cooler ∢

Container Information

Final Temp pH degC Pres Seal Initial ^I Cooler pH F AN ∢ Glass 250ml/8oz unpreserved Container ID Container Type L2462440-01A

Absent ≻

4.4

DENSITY()

Analysis(*)

Frozen Date/Time



Serial_No:11082413:38

Project Name: 60462862

Project Number: 60462862

Lab Number: L2462440

Report Date: 11/08/24

GLOSSARY

Acronyms

| ,, | |
|----------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |



| Project Name: | 60462862 | Lab Number: | L2462440 |
|-----------------|----------|--------------|----------|
| Project Number: | 60462862 | Report Date: | 11/08/24 |

Footnotes

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

1

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.



Project Name: 60462862

Project Number: 60462862

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Lab Number: L2462440

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Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



 Project Name:
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 Report Date:
 11/08/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene, 1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| Internal Transfer Chain of Custody Norkorder: 60462862 Workorder Name: SMITHVIL Report To Ryan N. Brumfield Ryan N. Brumfield Ryan N. Brumfield Ryan S. Bold Bace Analytical Kansas 666219 Phone (913)599-5665 Phone (913)599-5665 | B62 Wol | Chain of C Workorder Name: | of Cus | Lustody Rush Multiplier Samples Pre-Log SMITHVILLE, MC Subcontract To Bubcontract To Mansfield, MA 0 Phone (508)822- | Istody Rush Multiplier X Samples Pre-Logged into eCOC SMITHVILLE, MO ubcontract To Pace Analytical Mansfield Mansfield, MA 02048 Phone (508)822-9300 | Field | | PAC C C C C C C C C C C C C C C C C C C | PACE – KS State Of Origin: MO Cert. Needed: Owner Received Dat Owner Received Dat | PACE – KS State Of Origin: Cert. Needed: Owner Received | CE – KS State Of Origin: MO Cert. Needed:Yes Owner Received Date: Bulk Density |) | 118/2024 Result Requested Analysis | X No 10/18/2024 Results Requested By: Requested Analysis | By: | Pace |
|--|-------------------------------|-------------------------------|----------------------------------|---|---|--------|---------------|---|--|--|--|-----|---------------------------------------|--|----------|--------------|
| Sample ID | | Sample Type | Sample Collect Type Date/Time | | Lab ID | Matrix | pernesenari.) | | | | | | | | <u>د</u> | LAB USE ONLY |
| 10-15 | | PS | 10/15/2024 16:00 | | 60462862001 | Solid | - | | | × | ~ | | | | _ | |
| | | | | | | | | | | | | | | | + | |
| | | | | | | | | | | | | | | | | |
| | 0 | | | - | | | | - | - | | _ | | _ | Comments | - | |
| Transfers Released By | i By | | Date/Time | Time | Received B | x | | - | Date | Date/Time | | | | | | |
| | | | | | Cord | beau | 10/ | 26/21 | 4 10 | 000 | | | | | | |
| | | | | | | | - | - | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| emperatur | Cooler Temperature on Receipt | ot | ç | Custo | Custody Seal Y | or N | | R | Received on Ice | I on lo | ie Y or | r N | - | Samples Intact | > | or N |

Friday, October 25, 2024 10:30:28 AM

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FMT-ALL-C-002rev.00 24March2009

i.

•

Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300

INTER_LABORATORY WORK ORDER # 60462862

(To be completed by sending lab)

Sending Project No: 60462862 Receiving Project No: Check Box for Consolidated Invoice Date Prepared: 10/25/24 REQUESTED COMPLETION DATE: 11/5/2024

| Sending Region | IR60-Kansas | Sending Project Mgr. | Ryan N. Brumfield |
|------------------------|-------------|----------------------|-----------------------------|
| Receiving Region | S880 | External Client | Hodges Farms & Dredging LLC |
| State of Sample Origin | MO | QC Deliverable | STD REPORT |

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight? Dry Weight IRWO Lab Need to run? Cert. Needed No

| | WORK | REQUESTI | ED | | | |
|--------------------|----------------|---------------------------|--------------|------------------------|----------|--------------|
| Method Description | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| Bulk Density | BP3U | 1 | Unpreserved | 1 | SI-20MET | SUB PASI MET |

Special Requirements: Report C, QC Limits (C), FR Only no EDD (0)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes X

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

No

LOCATION: 6091-R3-S2B3

Page 14 of 15

Serial_No:11082413:38

| | FRONT FROM PACE ABINE Y PACE ABINE Y 110 EECINY STE 1000 NUBACROSS | P MARY TERRY | MAC | in a second | S S S | Market of the set of t | |
|--|--|---|--|---------------------------------------|--------------------|--|--|
| SHIP DATE: 250CT24 ACTWGT 30.00 LB MAN CAD: 0456433/CAFE3808 DIMS: 18x15x11 IN BILL SENDER | MANSFIELD | | Fedex Expression Expre | SATURDAY 12:00P PRIORITY OVERNIGHT | 01581 na-us BOS | | and the second sec |
| ORIGIN ID. IXDA (913) 559-5665 SHIPPING DEPARTMENT PACE 9608 LOIKET BLVD LENEXA KS 662192406 UNITED STATES US | ICAL | WESTBOROUGH MA 01581 (508) 898-9223 DEPT: CLIENT SERVICES REF: CELENT SERVICES | | TRK# 4033 6452 0005 PR | X0 BBFA | Part # 166148-434HM MTW EXP | |

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November 12, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462913

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2024. 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 - Kansas City

Report revised to correct sample collection date.

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

Sincerely,

Semper Haley

Jennifer Haley for Ryan N. Brumfield ryan.brumfield@pacelabs.com (913)599-5665 Project Manager

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





CERTIFICATIONS

Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462913

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462913

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60462913001 | 10-18 | Solid | 10/18/24 16:00 | 10/21/24 13:19 |



SAMPLE ANALYTE COUNT

Project:SMITHVILLE, MO-Revised ReportPace Project No.:60462913

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60462913001 | 10-18 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462913

| Sample: 10-18 Results reported on a "dry weigh | Lab ID: 6046 at" basis and are adju | | Collected: 10/18/2 | | | | atrix: Solid | |
|---|--|-------|--------------------|----|----------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Meth Pace Analytical | | | | | | | |
| Percent Moisture | 51.9 | % | 0.50 | 1 | | 10/23/24 14:44 | | |
| 2540G Total Percent Solids | Analytical Meth Pace Analytical | | | | | | | |
| Total Solids | 48.1 | % | 0.10 | 1 | | 10/23/24 14:44 | | H1 |



QUALITY CONTROL DATA

| Project: | SMITHVILLE, MO-Re | vised Report | | | | | |
|-------------------|--------------------|--------------|---------------|--------------|---------------------|---------------|------------|
| Pace Project No.: | 60462913 | | | | | | |
| QC Batch: | 913626 | | Analysis Metl | hod: SN | M 2540G | | |
| QC Batch Method: | SM 2540G | | Analysis Des | cription: 25 | 40G Total Solids | | |
| | | | Laboratory: | Pa | ace Analytical Serv | ices - Kansas | City |
| Associated Lab Sa | mples: 60462913001 | | | | | | |
| METHOD BLANK: | 3616948 | | Matrix: | Solid | | | |
| Associated Lab Sa | mples: 60462913001 | | | | | | |
| | | | Blank | Reporting | | | |
| Para | meter | Units | Result | Limit | Analyzed | Qualifiers | |
| Total Solids | | % | ND | 0.10 | 10/23/24 14:44 | | |
| | | | | | | | |
| SAMPLE DUPLICA | ATE: 3616949 | | | | | | |
| | | | 60462913001 | Dup | | Max | |
| Para | meter | Units | Result | Result | RPD | RPD | Qualifiers |
| | | % | 48.1 | 49.0 | 2 | | 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.



QUALIFIERS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462913

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:SMITHVILLE, MO-Revised ReportPace Project No.:60462913

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60462913001 | 10-18 | ASTM D2974 | 913627 | | |
| 60462913001 | 10-18 | SM 2540G | 913626 | | |

| | WO#:60462913 |
|--|--|
| Pace DC#_Title: ENV-FRM-L | LENE-000 |
| Revision: 2 | ective Date: 0+, ++, +++ |
| Client Name: <u>H++</u> | |
| | PEX ECI Pace Xroads Client Other |
| | ce Shipping Label Used? Yes 🖄 No 🗆 |
| Custody Seal on Cooler/Box Present: Yes No Packing Material: Bubble Wrap Bubble Bags | Seals intact: Yes 🖉 No 🗆 |
| Thermometer Used: Type of | of Ice: Wet Blue None |
| Cooler Temperature (°C): As-readCorr. Factor | tor Corrected 12 Date and initials of person examining contents: |
| Temperature should be above freezing to 6°C | |
| Chain of Custody present: | |
| Chain of Custody relinguished: | |
| Samples arrived within holding time: | |
| Short Hold Time analyses (<72hr): | |
| | |
| Sufficient volume: | |
| Correct containers used: | |
| Pace containers used: | |
| Containers intact: | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | |
| Filtered volume received for dissolved tests? | |
| Sample labels match COC: Date / time / ID / analyses | |
| Samples contain multiple phases? Matrix: | |
| Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: | |
| Cyanide water sample checks: Lead acetate strip turns dark? (Record only) | □Yes □No |
| Potassium iodide test strip turns blue/purple? (Preserve) | |
| Trip Blank present: | |
| Headspace in VOA vials (>6mm): | |
| Samples from USDA Regulated Area: State: MQ | |
| Additional labels attached to 5035A / TX1005 vials in the field? | |
| Client Notification/ Resolution: Copy COC to | 1150 |
| Person Contacted: Date/Ti Comments/ Resolution: | Time: |
| Project Manager Review; | Date: |

| D |
|--------------------|
| Pace |
| Analy www.paced |
| alytical " |

CHAIN-OF-CUSTODY / Analytical Request Document All relevant fields must be completed accurately.

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| | | | | () |
|-------------------------|---|--|--------------------------|-----------------------------|
| Section A Required C | Section A Required Client Information: | Section B Required Project Information: | Section C | Page: 1 |
| Company: | Hodges Farms and Dredging | Report To: Aaron Gruenewald/Jeff Hodges | Attention: | |
| Address: | 501 N. West Street | Сору То: | Company Name: | REGULATORY AGENCY |
| | Lebo, KS 66856 | | Address: | I NPDES I GROUND WATER I DE |
| Email To: | agruenewald@hodgesfd.com | Purchase Order No.: | Pace Quote Reference: | T UST T RCRA T O |
| Phone: | Phone: 920-373-8715 Fax: | Project Name: Smithville, MO | Pace Project | Site Location |

| Sam | Cust | | Te | | | | | | 12 | (MM/DD/YY): | MMD | | | | | | | | | | | SAMPLE | SIGNATURE of SAMPLER: | SIGN | | | | | | | | | | | | | | | | |
|-----------------------|-------------------|---------------|-------------------------|-----------------------------------|-----------------------------|---------------|-------|------------------|----------|------------------|----------|-----------------------|------------------|-------|---|------|-----------|------------------|---|--------------------------|---------------------------|---------|----------------------------|-----------|-----------------------------|----------|-------------------------|------------------------------|--------------------|---|---|---|----------|----------|--|----------------------------|-------------------------|---------|-----------|--------|
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| s Int | | ved c Y/N) | > In * | | | | | | | | | | | | | | | | | | 18 | SAMPLE | PRINT Name of SAMPLER: | PRINT | | | | | | | | | | | | | | | | |
| + | led | | c | | ŀ | | 1 | | | | | | | | | | | | | | IRE | BIGNATI | SAMPLER NAME AND SIGNATURE | PLER NA | SAM | | | | | | | | | | | | | | | |
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| | | | 2 | 219 | 1 | 9 | 9 | М | y | 1 | 2 | 2 | 0 | 0 | 21 | 2 | 1 | 0 | R | 2 | A | AZ PCIA | B | ha | R | 1 | 5 | 5 | A | A) | G | | :00am | fter 10 | Collect Fecal Coliform samples after 10:00am | form sa | al Coli | Ct Feo | Colle | Colle |
| DITIONS | SAMPLE CONDITIONS | SA | - | TIME | + | DATE | 2 | | 2 | BY / AFFILIATION | | A | BY | PE | ACCEPTED | | 1 | - | ñ | TIME | _ | , DATE | | ATION | RELINQUISHED BY AFFILIATION | ED | HSIDI | ELINC | 5 | | | | MENTS | COM | ADDITIONAL COMMENTS | ADDT | | | | |
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| Pace Project No/Lab1D | ice Projec | | Residual Chlorine (Y/N) | Bulk Density | Effective Neutralizing Mate | Total Solids | TKN | Total Phosphorus | Chloride | Sodium | Aluminum | 6010 Metals / Mercury | LAnalysis Test L | Other | Na ₂ S ₂ O ₃ Methanol | NaOH | HCI | HNO ₃ | Unpreserved H ₂ SO ₄ | # OF CONTAINERS | SAMPLE TEMP AT COLLECTION | | END/GRAB | | DATE TIME | ССМРО | SAMPLE TYPE (G=GRAB C=C | MATRIX CODE (see valid code: | | WT S S S S S S S S S S S S S S S S S S S | WATER PRODUCT OIL OIL SOU-SOUD OIL OIL WIPE AIR OTHER OTHER TISSUE | WATE PROST SOILS OIL WIPE AIR TISSU | QUE | | SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE | A- | Sam | | ITEM # | ITEM # |
| | | | 111155 | | <u> </u> | | | | | | | - | Y/ N | | ives | ativ | Preservat | Pre | - | | | | ED | COLLECTED | 8 | | | _ | _ | Codes CODE | Valid Matrix Codes MATRIX <u>COE</u> DRNKNG WATER DW | Valid Ma MATRIX | | 2 | Section D Required Client Information | D Client In | Section D Required C | 7 6 | | |
| | | | | Requested Analysis Filtered (Y/N) | ered | Fitt | lysis | Ana | ted | ues | Req | 1 | H | | | | | | | | | | | | | | | | | | | | | | | | | - | | 1 |
| | | | 0 | MO | ΠŪ. | STATE: | s | | | | | | | | | | | | ofile #: | Pace Profile #: | | | | | | | | Ť | Project Number: | Proje | | | 1 | RUSH | 7 | Requested Due Date/TAT: | Due | ested | Requ | Requ |
| State of the | 100 B | | | | 3 | Site Location | te Lo | 2 | | | | | | | | | | | r. Pject | Pace Project Manager: | 5 70 | | | | MO | ville, | Smithville, MO | | Project Name: | Proje | | | | Fax | On On | 920-373-8715 | 20-37 | 9 | Phone: | Phon |
| 5 | OTHER | | - | RCRA | ٦ | Ĭ | UST | ٦ | | | | | | | | | | | lote: | Pace Quote Reference: | 20 | | | | | | | er No. | Purchase Order No. | Purci | | com | gesfd. | hode | agruenewald@hodgesfd.com | Iruene | <u>ac</u> | 0 | Email To: | Emai |
| DRINKING WATER | DRINK | - 11 | GROUND WATER | | | NPDES | | ٦ | | | | | | | | | | | ιų. | Address | P | | | | | | | | | | | | | 8 | Lebo, No 00000 | 00, 7 | 5 | | | |

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| Work O | | | | | | | RG311 | BG3H | BG1U | BG1S | N69N | VG9T | VG9H | DG9U | DG9T | DG9S | DG9Q | DG9M | DG9H | DG9B | Cones | | | | | | | | | | | | | ř | Matrix | |
| Work Order Number: | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | VG9H | ective D |
| nber: | | | | | 1002.0 | 1607 0 | 250ml | 250mL | 1liter u | 1liter H | 40mL 1 | 40mL 1 | 40mL | 40mL ; | 40mL | 40mL 1 | 40mL | 40mL | 40mL 1 | 40mL t | | | | | | | | | | | | | | | DG9H | Effective Date: 7/1/2/2024 Cl ent: Site: |
| - | | | | | TOOL CICAL SOIL JAL | loar en | Innre | | 1liter unpres glass | 12SO4 | unpresu | Na Thic | 40mL HCl clear vial | amber | Na Thic | H2SO4 | TSP an | MeOH | HCI am | bisulfat | | | | | | | | | | | | | | | DG9Q | 2/2024 Cl ent Site: |
| _ | | | | | 1 | il ior | 250ml Linnres Clear diass | 250mL FCL Clear class | alass | 1liter H2SO4 clear glass | 40mL unpreserved clear vial | 40mL Na Thio. clear vial | ar vial | 40mL amber unpreserved | 40mL Na Thio amber vial | 40mL H2SO4 amber vial | 40mL TSP amber vial | 40mL MeOH clear vial | 40mL HCI amber voa vial | 40mL bisulfate clear vial | | | | | | | | | | | | | | | VG9U | 124 |
| 1 | | | | | | Binno | ralace | 222 | | lass | lear via | vial | | erved | r vial | r vial | 8 | ial | avial | vial | | | | | | | _ | | | | | | | | DG9U | 127 |
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| 1 | | | | | >>> | >) | | | | A | A | A | A | A | A | A | _ _ | 5 | 5 | M | Class | - | | | | | | | | | | | | | DG9B | Effective Date: 7/12/2024 |
| D | | | | AGOO | | | AGRI | AGOU | AG3S | AG2S | AG2N | AG1U | AG1T | AG1S | AG1H | AGOU | JGFU | WG2U | WGFU | WGKU | 0 | - | | | | | | | _ | | | | | | BG1U | |
| | | | | | 1. | 1. | 2 9 | 7 1 | 22 | ភ្ញ | 5(| = | 1 | 1 | 1 | 1 | 40 | 20 | 40 | 8 | | | | | | | - | _ | _ | | | | | - | AG1H | 10 |
| | | | | | | | | | 50ml F | DOML F | JOML F | liter unj | Na TI | L H2SC | L HCI a | DOWL F | Idun zo | oz clea | oz clea |)z clea | | | _ | - | | | | | | | | - | | - | AG1U | |
| | | | | TUUTILE UTIPIES attriber glass | 100ml unples annuel glass | 105ml unpres amber glass | 950ml impres ambor glass | nnree : | 250ml H2SO4 amber plass | 500mL H2SO4 amber glass | 500mL HNO3 amber glass | 1liter unpres amber glass | niosulfa | 1L H2SO4 amber glass | 1L HCI amber glass | 100mL unores amber glass | 4oz unpreserved amber wide | 2oz clear soil jar | 4oz clear soil jar | 8oz clear soil iar | | | | + | - | | + | | _ | | | | | - | AG2U | |
| | | | | aunper | annuel | | | mhor | amber | amber | mber g | nber gla | te clea | er glas | lass | amber | d ambe | | | | | | | + | + | - | + | | | | | - | | + | AG3S | |
| | | | | giass | ulass | glass | dia20 | 1000 | olass | glass | lass | SSE | 1L Na Thiosulfate clear/amber glass | s | | glass | er wide | | | | | $\left \right $ | _ | + | + | | + | | _ | | | | | + | AG4U AG5U | |
| | | | | | | | | | | | | | r glass | | | | | | | | | $\left \right $ | | + | + | | + | | _ | | _ | | | + | JGFU | |
| WPDU | BP4S | BT4N | BP40 | BPJZ | 0000 | | | | RP3F | BP3B | BP2Z | BP2U | | BP2N | BP2B | BP1Z | BP1U | BP1S | BPIN | BP1B | _ | $\left \right $ | - | + | | | + | _ | | | - | | | + | WGKU | |
| DC | No. | Ĩ | | Ĩ | 10 | ŏ | | | Ĩ | ΰ | Z | č | ŝ | ž | ι. Β | Z | Ē | S | Z | Zi I | | - | | + | - | | | | _ | | | | | | WGDU | |
| 16oz | 125m | UCZL | 1250 | UNC7 | 2201 | 2001 | 200 | 2200 | 2507 | 250n | 500n | 500n | 500n | 500n | 500n | 1L N | 1L ui | 1L H | | | | ŀ | | | + | 1 | 1 | | | | | | | T | BP1U | |
| | | | 125mL unpreserved plastic | ZOUML NAUH, ZN Acetate | ZOUTIL HZSO4 plastic | | 20011L HINOS Plastic | 250ml HNO3 plastic - Itelu IIItereu | NH N | 250mL NaOH plastic | 500mL NaOH, Zn Acetate | 500mL unpreserved plastic | 500mL H2SO4 plastic | 500mL HNO3 plastic | 500mL NAOH plastic | 1L NaOH, Zn Acetate | 1L unpreserved plastic | 2SO4 plastic | TL HNO3 plastic | ĝ | 2 | ŀ | | | | | | | | | | | | | BP2U | Profile/EZ # |
| unpresserved pistic | L H2SO4 plastic | J3 plas | reserve | JH, Zn | V4 pla | reserve | Lo pias | Ja plac | 13 nlac |)H plas |)H, Zn | reserve | 304 pla | D3 plas | DH plas | In Acet | rved pla | plastic | astic | - nlastic | | Ī | | 12 | | T | | | | | | | | 1 | BP3U | |
| 1 plstic | stic | lic | d plast | Acetate | SIIC | id plast | | | tic - fie | tic | Acetate | d plast | stic | tic | itic | ate | astic | | | | | ľ | | T | | T | | | | | | | | | BP1N | |
| | | | l. | | | | | | Id filton | | U. | íc | | | | | | | | | | Ī | | | | | | | | | | | | | BP3N | 121 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | BP3F | -01 |
| | | | DW | No. | | NAL | | C VV | WT | | | | | C | R | C | AF | ZPLC | SP5T | - | | | | | | | | | | | | | | | BP3S | E.N |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | врзв | |
| | | | Drinking Water | Wipe | | Non-aqueous Liquid | DIIO | VValue | Nater | | | | | Summa Can | Terracore Kit | Air Cassettes | Air Filter | Ziploc Bag | 120mL | Nine/S | | | | | | | | | | | | | | | BP3Z | O |
| | | | g Wate | | | snoant | | | | Matrix | | | | a Can | pre Kit | settes | ÿr | Bag | Colifor | WISC. | | | | | | | | | | | | | | | WPDU | |
| | | | ľ | | | Liquid | | | | ΪX | | | | | | | | | mNa | l. | | | | | | | | | | | | | | | ZPLC | 00 |
| | | | | | | | | | | | | | | | | | | | 120mL Coliform Na Thiosulfate | | | | | | | | | | | | | | | | Other | |

Qualtrax ID: 30422

Pace® Analytical Services, LLC

Page 1 of 1



ANALYTICAL REPORT

| r | |
|-----------------|---|
| | |
| Lab Number: | L2462445 |
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: | Ryan Brumfield |
| Phone: | (913) 307-6958 |
| Project Name: | 60462913 |
| Project Number: | 60462913 |
| Report Date: | 11/08/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial_No:11082413:40 | L2462445 11/08/24 | Receive Date 10/26/24 | |
|-----------------------|----------------------------------|---|--|
| Serial_No: | Lab Number: Report Date: | Collection Date/Time 10/15/24 16:00 | |
| | | Sample Location SMITHVILLE,MO | |
| | | Matrix SOLID | |
| | 60462913 60462913 | Client ID 10-18 | |
| | Project Name: Project Number: | Alpha Sample ID L2462445-01 | |



 Project Name:
 60462913

 Project Number:
 60462913

 Lab Number:
 L2462445

 Report Date:
 11/08/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Curlen Walker Cristin Walker

Title: Technical Director/Representative

Date: 11/08/24



INORGANICS & MISCELLANEOUS



| Project Name: | 60462913 | | | | | Lab No | umber: | L2462445 |
|---|---------------------------------------|-------|--------|-------|----------|----------|----------------------------------|---|
| Project Number: | 60462913 | | | | | Repor | t Date: | 11/08/24 |
| | | | SAMPLE | RESUL | rs | | | |
| Lab ID: Client ID: Sample Location: | L2462445-01 10-18 SMITHVILLE,MO | | | | | | Collected: Received: Prep: | 10/15/24 16:00 10/26/24 Not Specified |
| Sample Depth: Matrix: | Solid | | | | Dilution | Date | Date | Analytical |
| Parameter | Result Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method |

| Parameter | Result Quali | fier Units | RL | MDL | Factor | Prepared | Analyzed | Method | Analyst |
|---------------------|-------------------|------------|-------|-----|--------|----------|----------------|----------|---------|
| General Chemistry - | · Westborough Lab | | | | | | | | |
| Density | 1.36 | SU | 0.100 | | 1 | - | 11/07/24 03:30 | 12,D1475 | DEW |



| 13:40 |
|--------|
| 0824 |
| No:11 |
| Serial |

L2462445 11/08/24

Lab Number: Report Date:

| Lab Duplicate Analysis | Batch Quality Control | |
|------------------------|-----------------------|-----------------|
| | 60462913 | 60462913 |
| | Project Name: | Project Number: |

| | Native Sample D | Duplicate Sample | ole Units | | Qual | RPD Qual RPD Limits |
|--|---|-------------------------|--------------|-------------|--------------|---------------------|
| General Chemistry - Westborough Lab Associated sample(s): 01 | le(s): 01 QC Batch ID: WG1994163-1 QC Sample: L2463760-01 Client ID: DUP Sample | G1994163-1 | QC Sample: L | .2463760-01 | Client ID: I | DUP Sample |
| | 1.01 | 1.01 | SU | 0 | | |



60462913 Project Number: 60462913 Project Name:

Lab Number: L2462445 Serial_No:11082413:40 Report Date: 11/08/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Absent Cooler ∢

Container Information

Initial ^I Cooler pH F AN ∢ Glass 250ml/8oz unpreserved Container ID Container Type L2462445-01A

Absent Final Temp pH degC Pres Seal ≻ 4.4

DENSITY()

Analysis(*)

Frozen Date/Time



Serial_No:11082413:40

Project Name: 60462913

Project Number: 60462913

Lab Number: L2462445

Report Date: 11/08/24

GLOSSARY

Acronyms

| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
|----------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |



| Project Name: | 60462913 | Lab Number: | L2462445 |
|-----------------|----------|--------------|----------|
| Project Number: | 60462913 | Report Date: | 11/08/24 |

Footnotes

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- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

1

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.



Project Name: 60462913

Project Number: 60462913

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Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



 Project Name:
 60462913

 Project Number:
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 Lab Number:
 L2462445

 Report Date:
 11/08/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene, 1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| - | | | | | PAC | PACE – KS | | 1740100 | (| (| |
|---|-----------------|-------------------------------------|--|-------------|----------------------|---|------------|------------------------|-----------------------|--------------|----|
| Internal Transfer Chain of Custody | nain o | | | , | | | | £1 | | Pace | ** |
| Workorder: 60462913 Wo | Workorder Name: | | ogge | d into eCOC | | State Of Ungin: MO Cert. Needed: 7 Owner Received Date: | Yes te: | X No 10/21/2024 R | Results Requested By: | | |
| | | Subcontract To | t To | | | _ | | Requested Analysis | nalysis | | |
| Ryan N. Brumfield Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 | | Pace A 320 Fo Mansfi Phone | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | sfield 0 | | | | | | | |
| | | | | | | ianeŭ Alui | | | | | |
| | | | | | Preserved Containers | 1 | | | | | _ |
| | Sample Type | Collect Date/Time | Lab ID | Matrix | peneseioru | | | | | LAB USE ONLY | |
| | PS | 10/15/2024 16:00 | 60462913001 | Solid | + | × | | | | | - |
| | | | | | | | | | | | |
| | | | | | | | | | Comments | | 1 |
| Released By | | Date/Time | 2 | By | 1 1 | Date/Time | Location | Location: 6091-R3-S2B3 | | | |
| | | | pool | Pear 1 | 196020 | 0001 | | | | | |
| | | | - | | | | | | | | |
| Cooler Temperature on Receipt | | °C Cust | Custody Seal | Y or N | Rec | Received on Ice | Y or | z | Samples Intact | t Y or N | - |

Friday, October 25, 2024 10:37:17 AM

FMT-ALL-C-002rev.00 24March2009

Serial_No:11082413:40

Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300

INTER_LABORATORY WORK ORDER # 60462913

(To be completed by sending lab)

Sending Project No: 60462913 Receiving Project No: Check Box for Consolidated Invoice Date Prepared: 10/25/24 REQUESTED COMPLETION DATE: 10/25/2024

| Sending Region | IR60-Kansas | Sending Project Mgr. | Ryan N. Brumfield |
|------------------------|-------------|----------------------|-----------------------------|
| Receiving Region | S880 | External Client | Hodges Farms & Dredging LLC |
| State of Sample Origin | MO | QC Deliverable | STD REPORT |

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight? Dry Weight IRWO Lab Need to run? Cert. Needed N

| WORK REQUESTED | | | | | | |
|--------------------|----------------|---------------------------|--------------|------------------------|-----------|--------------|
| Method Description | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| Bulk Density | BP3U | 1 | Unpreserved | 1 | SI-21WET0 | SUB PASI WTA |

Special Requirements: Report C, QC Limits (C), FR Only no EDD (0)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

x No

Page 14 of 15

Serial_No:11082413:40 TERB 514 H MAR MAC Matr 1994 MPS #393/8202/93985 1241053112501452 01581 ma-us BOS SATURDAY 12:00P PRIORITY OVERNIGHT FedEx SHIP DATE: 250CT24 ACT4GT 30.00 LB MAN CAD 0456433/CAFE3808 DINS 18x15x11 IN BILL SENDER PACE ANALYTICAL MANSFIELD 8 WALLCUP DR WESTBOROUGH MA 01581 081 858-9220 REF: C8 - 2967 ORIGIN 'LD.IXDA (913) 569-5665 SHIPPING DEPARTMENT 9608 LOIKET BLVD **BBFA** S201 4033 6452 0005 UNITED STATES US (508) 898-9220 DEPT: CLIENT SERVICES TO RECIEVING L. Stater 2/20 JXE WITM MITHER 42 4 75 072

Page 15 of 15

Page 26 of 26



November 12, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462967

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2024. 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 - Kansas City

Report revised to correct sample collection date.

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

Sincerely,

Semper Haley

Jennifer Haley for Ryan N. Brumfield ryan.brumfield@pacelabs.com (913)599-5665 Project Manager

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





CERTIFICATIONS

Project: SMITHVILLE, MO-Revised Report Pace Project No.: 60462967

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

| Project: | SMITHVILLE, MO-Revised Report |
|-------------------|-------------------------------|
| Pace Project No.: | 60462967 |

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60462967001 | 10-21 | Solid | 10/21/24 16:00 | 10/22/24 11:18 |



SAMPLE ANALYTE COUNT

Project:SMITHVILLE, MO-Revised ReportPace Project No.:60462967

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60462967001 | 10-21 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462967

| Sample: 10-21 Results reported on a "dry weigh | Lab ID: 6046 at" basis and are adju | | Collected: 10/21/2 rcent moisture, sa | | | | atrix: Solid | |
|---|--|-------|--|----|----------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Meth Pace Analytical | | | | | | | |
| Percent Moisture | 70.2 | % | 0.50 | 1 | | 10/23/24 14:44 | | |
| 2540G Total Percent Solids | Analytical Meth Pace Analytical | | | | | | | |
| Total Solids | 29.8 | % | 0.10 | 1 | | 10/23/24 14:44 | | H1 |



QUALITY CONTROL DATA

| Project: | SMITHVILLE, MO-Rev | ised Report/ | | | | | |
|-------------------|--------------------|--------------|--------------|--------------|---------------------|---------------|------------|
| Pace Project No.: | 60462967 | | | | | | |
| QC Batch: | 913626 | | Analysis Met | hod: SI | M 2540G | | |
| QC Batch Method: | SM 2540G | | Analysis Des | cription: 25 | 540G Total Solids | | |
| | | | Laboratory: | Pa | ace Analytical Serv | ices - Kansas | City |
| Associated Lab Sa | mples: 60462967001 | | | | | | |
| METHOD BLANK: | 3616948 | | Matrix: | Solid | | | |
| Associated Lab Sa | mples: 60462967001 | | | | | | |
| | | | Blank | Reporting | | | |
| Para | meter | Units | Result | Limit | Analyzed | Qualifiers | |
| Total Solids | | % | ND | 0.10 | 10/23/24 14:44 | | |
| | | | | | | | |
| SAMPLE DUPLICA | ATE: 3616949 | | | | | | |
| | | | 60462913001 | Dup | | Max | |
| Para | meter | Units | Result | Result | RPD | RPD | Qualifiers |
| | | | 48.1 | 49.0 | | | 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.



QUALIFIERS

Project: SMITHVILLE, MO-Revised Report

Pace Project No.: 60462967

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:SMITHVILLE, MO-Revised ReportPace Project No.:60462967

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60462967001 | 10-21 | ASTM D2974 | 913627 | | |
| 60462967001 | 10-21 | SM 2540G | 913626 | | |

| | | | W0#:60462967 |
|---|--------------------------------|-------------------------|---|
| Pace | DC#_Title: ENV-FR | M-LENE-0009_Sar | |
| abaltingal services | Revision: 2 | Effective Date: 01/12/2 | 60462367 |
| Client Name: Ho | idges Farms a | | |
| Courier: FedEx UPS | | | Pace 🗆 Xroads 🗆 Client 🖉 " Other 🗆 |
| Tracking #: | | Pace Shipping Label Use | |
| Custody Seal on Cooler/Box | | A | |
| Packing Material: Bubble | e Wrap 🗆 🛛 Bubble Ba | gs 🗆 🛛 🖓 Foam 🗆 | None 🖌 Other 🗆 |
| | <u>298</u> Тур | | |
| Cooler Temperature (°C): A | s-read <u>18.1</u> Corr. F | actor 0. Correc | cted 18.0 Date and initials of person examining contents: LH 19/2 |
| Temperature should be above freez | ing to 6°C | | |
| Chain of Custody present: | | Yes No N/A | |
| Chain of Custody relinquished: | | Yes 🗆 No 🗇 N/A | |
| Samples arrived within holding t | lime: | Yes INO IN/A | |
| Short Hold Time analyses (<7) | 2hr): | TYes No N/A | |
| Rush Turn Around Time reque | | | 7 1 |
| Sufficient volume: | 7310U. | | 3 day rush |
| | | 1 | |
| Correct containers used: | | ZYes 🗆 No 🗆 N/A | |
| Pace containers used: | | | |
| Containers intact: | | ZYes No N/A | |
| Jnpreserved 5035A / TX1005/10 | 006 soils frozen in 48hrs? | Yes No N/A | |
| Filtered volume received for diss | olved tests? | □Yes □No ☑N/A | |
| Sample labels match COC: Date | / time / ID / a nalyses | Yes No DN/A | ID on container is 10/21 |
| amples contain multiple phases | ? Matrix: 3L | TYes No LIN/A | |
| Containers requiring pH preserva | | □Yes □No ₽N/A | List sample IDs, volumes, lot #'s of preservative and the |
| HNO ₃ , H ₂ SO ₄ , HCI<2; NaOH>9 Sulfi | | | date/time added. |
| Exceptions: VOA, Micro, O&G, KS T Syanide water sample checks: | IPH, OK-DRO) LO | T#: | |
| ead acetate strip turns dark? (Re | | □Yes □No | |
| otassium iodide test strip turns b | olue/purple? (Preserve) | □Yes □No | |
| rip Blank present: | | □Yes □No ₽N/A | |
| eadspace in VOA vials (>6mm) | : | Yes No N/A | |
| amples from USDA Regulated A | vrea: State: MO | □Yes INO □N/A | |
| dditional labels attached to 5035 | | | |
| lient Notification/ Resolution: | Copy COC | | Field Data Required? Y / N |
| erson Contacted: | Date | /Time: | |
| omments/ Resolution: | | | |
| | | | |
| oject Manager Review: | | | |
| , | | Date: | |

Qualtrax Document ID: 30468

Page 1 of 1

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody s a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Hodges Farms and Dredging RecentTo: Nation Street 501 N. West Street Lelon, KS 66896 Lelon, KS 66896 Partice azruzenerwalt/githoddessfd.com Purthaer Order No: Dio DantrAt: Res value Oldo bantrAt: Res value SAMPLE Dio DantrAt: Markin Constration Proper Name Control of the constration Proper Name Control of the constration Proper Name Control of the constration Annoning SAMPLE Sample Is MUST BE UNUDLE State Eurona Sample Is MUST BE UNUDLE State Eurona Anoning State Eurona State Eurona State Eurona State Eurona State Eurona Anoning State Eurona Anoning State Eurona Anoning State Eurona <td< th=""><th></th><th>Neduced Cherry IIIIOIIIIBUOD:</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>1114 (16)</th><th>ILVOICE ILIOUIIAUOII.</th><th>allull.</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<> | | Neduced Cherry IIIIOIIIIBUOD: | | | | | | | | 1114 (16) | ILVOICE ILIOUIIAUOII. | allull. | | | | | | | | | | | | | |
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| Полнано систем Полнан | | Lebo, KS 66856 | | | | | | | | Addres | isi. | | | | | | | | PDES | | V ONNOS | VATER | | SINKING | VATER |
| Tech Tech <th< td=""><td>Email To:</td><td>agruenewald@hodgesfd.com</td><td>Purchase On</td><td>der No.:</td><td></td><td></td><td></td><td></td><td></td><td>Pace Qu Referen</td><td>lote 28:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ST</td><td></td><td>CRA</td><td></td><td></td><td>THER</td><td></td></th<> | Email To: | agruenewald@hodgesfd.com | Purchase On | der No.: | | | | | | Pace Qu Referen | lote 28: | | | | | | | | ST | | CRA | | | THER | |
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| Inples Intact | floot East | ADDITIONAL COMMENTS | | RELANO | DUISHED | BY I AFFIL | IATION | X | DATE | - | | | AC | CCEPTE | DEVI | AFFILIA' | NOIL | ł | DATE | | | | SAMPLE | CONDITIO | NS |
| Imples Intact Samples Intact Samples Intact PRINT Name of Sample PRINT Name of Sample DATE DATE Sample DATE D | r metals/r | in comount samples area to organic utriants, leave at least 1 inch of headspace in r off-gassing | | X | | T | he | 2 | halo | 7 | 21-1 | | | | Y | Mr I | 3 | 2 | 2-1 | 1 | | 9 | | | |
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| 3 day ruch | одиец Sbrc MbD∩ Bb3S Bb32 Bb32 Bb32 Bb34 Bb34 Bb30 | | | | | | | | | | | | ic SP51 120mL Coliform Na Thiosulfate | ZPLC | AF | <u>ں</u> | | | erved plastic | Zn Acetate Matrix | | - field filtered WI | Diastic SL Solid | DI | tate WP | DW | - | plastic | wed nistic |
|----------------|---|---|--|--|--|---|---|----|----|---|-----------------|--------------------------|---------------------------------------|----------------------|------------------------|--|------------------------|-------------------------------------|---------------------------|-----------------------------|--------------------------|-------------------------|--|--------------------------|--------------------------|---------------------------|--------------------|---------------------|--------------------------|
| Notes 3 da | BP2U | | | | | | | 64 | 24 | | | 11 NAOU abotio | 1L HNO3 plastic | 1L H2SO4 plastic | 1L unpreserved plastic | 11 NaOH, Zn Acetate | 500mL HNO3 plastic | 500mL H2SO4 plastic | 500mL unpreserved plastic | 500mL NaCH, Zn Acetate | 250mL NaCH plastic | Z50ML HNU3 F | 250mL HNU3 plastic | 250ml H2SO4 plastic | 250mL NaCH. Zn Acetate | 125mL unpreserved plastic | 125mL HNO3 plastic | 125mL H2SO4 plastic | 16oz unpresserved plstic |
| | MGDN MGKN | | | | | | | | | | | 8018 | BP1N | BP1S | BP1U | BP1Z | BP2N | BP2S | BP2U | BP2Z | BP3B | BP3F | BP3N BP3H | BP3S | BP3Z | BP4U | BP4N | BP4S | WPDU |
| 5 | ngFu AgsU Ag4U Ag3S | | | | | | | | | | | | - | J. | ed amber wide | amber glass | Der glass | 1L Na Thiosulfate clear/amter glass | nber glass | amber glass | amber glass | amber glass | amber glass amhar class | amber class | amber glass | | | | |
| | Urða Usða | | | | | | | | | | | Roz claar coil iar | 4oz clear soil jar | 2oz clear soil jar | 4oz unpreserved | 11 UCML unores amber glass | 1L H2SO4 amber glass | 1L Na Thiosulf | 1liter unpres amber glass | 500mL HNO3 amber glass | 500mL H2SO4 amber glass | ZDUML HZSU4 amber glass | 250ml unpres amber glass | 125mL unpres amber plass | 100mL unpres amber glass | | | ſ | 10 |
| Smithville, Mo | Drəa Hrəa | | | | | | | | | | 000 | N/CKI | WGFU | WG2U | JGFU | AGUU | AG1S | AG1T | AG1U | AG2N | AG2S | AG35 | AGRI | AG4U | AG5U | | | 104.60160051 | 510 |
| 17 | DC9B DC9W | | | | | | | | | | | 1 | | | | | | | | rial | | | | | | | | 000 | 500 |
| Smi | 0690 0690 | | | | | - | - | | | | | clear vial | er voa vial | ear vial | ber vial | amber vial | Ipreserved | r vial | clear vial | ved clear v | ear glass | ass | Clear plass | ar | | | | . #0 | · よう |
| Site: | ପଡେପ | | | | | | | | | 1 | | 40ml bisultate clear via | 40mL HCi amber voa vial | 40mL MeOH clear vial | 40mL TSP amber vial | 40mL H2504 amber vial 40ml Na Thio amber vial | 40mL amber unpreserved | 40mL HCI clear vial | 40mL Na Thio. clear vial | 40mL unpreserved clear vial | 1liter H2SO4 clear glass | TILLEL UNDERS GLASS | 250mL HUL Ulear glass | 16oz clear soil iar | | | | | |
| | DG9H Н6ЭЛ | | | | | | | | | | S | DG9B 40m | | | | | | | | | | | | | | | | | |
| | xinteM 🚽 | 2 | | | | | | | | 1 | Container Codes | 1Č | õ | ΰ | ΰlğ | | DG9U | VG9H | VG9T | VG9U | BG1S | | E C C C C C C C C C C C C C C C C C C C | 19 | | | | | |

47/C7/

PM: RNB Due Date: 10/2 CLIENT: Hodges Farms

Qualtrax ID: 30422

DC#_Ttite: ENV-FRM-LENE-0001 v07_Sample Container Count Effective Date: 7/12/2024



ANALYTICAL REPORT

| Lab Number: | L2462435 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: Phone: | Ryan Brumfield (913) 307-6958 |
| Project Name: | 60462967 |
| Project Number: | 60462967 |
| Report Date: | 11/08/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial_No:11082415:20 | L2462435 11/08/24 | Receive Date 10/26/24 | |
|-----------------------|----------------------------------|---|--|
| Serial_No | Lab Number: Report Date: | Collection Date/Time 10/15/24 16:00 | |
| | | Sample Location SMITHVILLE,MO | |
| | | Matrix SOLID | |
| | 60462967 : 60462967 | Client ID 10-15 | |
| | Project Name: Project Number: | Alpha Sample ID L2462435-01 | |



Page 13 of 27

Project Name: 60462967 **Project Number:** 60462967 Lab Number: L2462435 **Report Date:** 11/08/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

felly Meil Kelly O'Neill

Title: Technical Director/Representative

Date: 11/08/24



INORGANICS & MISCELLANEOUS



Lab Number: L2462435 Report Date: 11/08/24

| Project Name: | 60462967 | |
|-----------------|-------------|----------------|
| Project Number: | 60462967 | |
| | | SAMPLE RESULTS |
| Lab ID: | L2462435-01 | |

| Lab ID: Client ID: Sample Location: | L2462435-0 10-15 SMITHVILLI | | | | | | | Received: | 10/15/24 16:00 10/26/24 Not Specified |) |
|---|-----------------------------------|-----------|-------|-------|-----|--------------------|------------------|------------------|---|---------|
| Sample Depth: Matrix: | Solid | | | | | Dilution | Data | Defe | | |
| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
| General Chemistry - Wes | stborough Lat |) | | | | | | | | |
| Density | 1.14 | | SU | 0.100 | | 1 | - | 11/07/24 03:30 | 0 12,D1475 | DEW |



| 5:20 | |
|----------|--|
| 38241 | |
| No:11(| |
| Serial_I | |

| L2462435 | 11/08/24 | |
|---|--------------------------|--|
| Lab Number: | Report Date: | |
| sis | | |
| Lab Duplicate Analysis Batch Quality Control | | |
| | | |
| 60462967 | 32967 | |
| | Project Number: 60462967 | |
| Project Name: | Project | |

| Parameter | Native Sample | Duplicate Sample | iple Units | RPD | Qual | Qual RPD Limits |
|--|---------------|--------------------------|--|-------------|--------------|-----------------|
| General Chemistry - Westborough Lab Associated sample(s) | . 01 | QC Batch ID: WG1994163-1 | QC Sample: L2463760-01 Client ID: DUP Sample | L2463760-01 | Client ID: D | UP Sample |
| Density | 1.01 | 1.01 | SU | 0 | | |
| | | | | | | |



60462967 Project Number: 60462967 Project Name:

Lab Number: L2462435 Serial_No:11082415:20 Report Date: 11/08/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Absent Cooler ∢

Container Information

Initial ^I Cooler pH F AN ∢ Glass 250ml/8oz unpreserved Container ID Container Type L2462435-01A

Absent Final Temp pH degC Pres Seal ≻ 4.4

DENSITY()

Analysis(*)

Frozen Date/Time



Serial_No:11082415:20

Project Name: 60462967

Project Number: 60462967

Lab Number: L2462435

Report Date: 11/08/24

GLOSSARY

Acronyms

| , loi ongino | |
|--------------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Report Format: Data Usability Report



L2462435

11/08/24

Project Name: 60462967 Lab Number: Project Number: 60462967 Report Date:

Footnotes

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

1

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: 60462967

Project Number: 60462967

Serial_No:11082415:20

Lab Number: L2462435

Report Date: 11/08/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report



 Project Name:
 60462967

 Project Number:
 60462967

 Lab Number:
 L2462435

 Report Date:
 11/08/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| Internal Transfer Chain of Custody Rush Multi Rush Multi Number Norkorder: Subcontract | nich Chain | of Custody | | | PACE - KS | nx | | | | (|
|--|-----------------|--|--|----------|----------------------|---|---------------------------|--------------------|--|--------------|
| orkorder: 60462967 | al chall | formeno in | | 2 | | | | I | | 2000 |
| port To | Workorder Name: | | Rush Multiplier X Samples Pre-Logged into eCOC SMITHVILLE, MO | tto eCOC | | State Of Origin: MO Cert. Needed: Ye Owner Received Date: | n: MO Yes red Date: | X No 10/22/2024 | X No 10/22/2024 Results Requested Bv: | 10/25/2024 |
| an N Brimfold | | 50 | 0 | | | | | Requested Analysis | Analysis | |
| Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 | | Pace Analytical A 320 Forbes Blvd Mansfield, MA 0 Phone (508)822- | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | ield | | | Vitensity | | | |
| | | | | | Preserved Containers | ntainers | Allu B | | | |
| Item Sample ID | Sample Type | Sample Collect Type Date/Time Lu | Lab ID | Matrix | pavasauduņ | | | | | LAB USE ONLY |
| 10-15 | PS | 10/15/2024 16:00 60 | 60462967001 | Solid | - | | × | | | |
| | | | | | | | | | | |
| | | | | | | | | | Comments | |
| Transfers Released By | | Date/Time | Received By | X | 1 1 | Date/Time | | | | |
| | | | CSel | elean 1 | 196034 | 0001 | Π | | | |
| | | | | | / | | | | | |
| Cooler Temperature on Receipt | Receipt | °C Custo | Custody Seal Y | or N | Rec | Received on Ice | Ice Y or | z | Samples Intact Y | or N |

Friday, October 25, 2024 10:26:45 AM

This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1 Page 24 of 27

Serial No:11082415:20

Sending Region

Receiving Region

State of Sample Origin

Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300

IR60-Kansas

S880

MO

INTER_LABORATORY WORK ORDER # 60462967

Check Box for Consolidated Invoice.

Receiving Project No:

REQUESTED COMPLETION DATE: 10/25/2024

Sending Project No 60462967

Date Prepared: 10/25/24

Ryan N. Brumfield

Hodges Farms & Dredging LLC

STD REPORT

(To be completed by sending lab)

| | All questions sho | ould be addressed to sen | ding proje | ct manager. | | | |
|-------------------------|--------------------------|--------------------------|---------------------------|---------------|------------------------|------------|-----------------|
| Requested Reportable Un | ilts | Report Wet or Dry Weigh | t? Dry We | ight 🔲 IRV | /O Lab Ne | ed to run? | Cert. Needed No |
| THE CONTRACTOR | The second second second | WORK F | REQUEST | ED | | 1 | |
| Metho | d Description | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| Bu | lk Density | BP3U | 1 | Unpreserved | 1 | SI-21WET0 | SUB PASI WTA |
| Special Requirements: | Report C, QC | Limits (C),FR Only no | EDD (0) | | | | |
| | FO | R ANALYTICAL WORK CO | OMPLETE | D THIS SECTIO | N ALSO | | |
| Return Samples to Se | nding Region: | Yes X No | 22 | | | | |

Sending Project Mgr.

External Client

QC Deliverable

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

LOCATION: 6091-R3-S2B3

MARY FIGHT FIG

Serial_No:11082415:20

| DATE 250CT24 GT 30 80 LB MAN 0456433CAFE38D8 18x15x11 TN SEMDER | MANSFIELD 1581 (1581 (1581) | Fedex | SATURDAY 12:00P PRIORITY OVERNIGHT | 01581 ma-us BOS | |
|---|--|-------|---------------------------------------|--------------------|--|
| IXDR (913) 559-566 DEPRITMENT ET BLVD ALVD ALS 192406 ATES US EVING | PACE ANALYTICAL MANS 8 WALLCUP DR WESTBOROUGH MA 01581 (1909) 1991-9223 1699) 1991-9223 1699) 1991-9223 1699) 1991-9223 1699 1991-9223 1699 1991-9223 1699 1991-9223 1699 1991-9223 1699 1991-9223 1699 1991 1991 1991 1991 1991 1991 1991 | | TRK# 4033 6452 0005 P | X0 BBFA | |

-11 350 DX3 MUN HL

| Serial_NO:11062415.20 | FROM: FROM: CHARTER HRV | 110 IECHAP BIE 100 NURCROBS | TERBY 514 H | MAC | <u>.</u> | W Set | Mat 1000 1000 1000 1000 1000 1000 1000 10 | |
|--|--|-----------------------------------|---------------------|------------|--------------------------|--------------------|---|---------|
| 4 MAN 3808 | *292/ % | 262/93595 | | Expression | AY 12:00P OVERNIGHT | 01581 ma-us BOS | | |
| SHIP DATE 250CT2 ACTMGT 30 00 LB CAD 0456433/CAFE DINS 18×15×11 IN | BILL SENDER | | 581 - 2967 | | SATURDAY PRIORITY OVE | un de | | - and a |
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| ORIGIN ID IXDA ORIGIN ID IXDA PACE 9608 LOIRET BLVD | LENEXA, K5 662192406 UNITED STATES US TO RECIEVING | 8 WALLCUP | MESTBOROUGH | | TRK# 4033 6 | X0E | 70 9X3 WTM MP4845847887 % na9 | |

Page 16 of 16

Page 27 of 27



December 03, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO Pace Project No.: 60464301

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2024. 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 - Kansas City

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

Sincerely,

Semper Haley

Jennifer Haley jennifer.haley@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: SMITHVILLE, MO Pace Project No.: 60464301

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project:SMITHVILLE, MOPace Project No.:60464301

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60464301001 | 11-7 | Solid | 11/07/24 16:00 | 11/11/24 10:50 |



SAMPLE ANALYTE COUNT

Project: SMITHVILLE, MO Pace Project No.: 60464301

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60464301001 | 11-7 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO

Pace Project No.: 60464301

| Sample: 11-7 | Lab ID: 6046 | | | 4 16:00 | | | latrix: Solid | |
|--|------------------------------------|-------|--------------|---------|----------|----------------|---------------|------|
| Results reported on a "dry weigh Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Meth Pace Analytical | | | | | | | |
| Percent Moisture | 89.7 | % | 0.50 | 1 | | 11/11/24 16:31 | | |
| 2540G Total Percent Solids | Analytical Meth Pace Analytical | | | | | | | |
| Total Solids | 10.3 | % | 0.10 | 1 | | 11/11/24 16:31 | | |



QUALITY CONTROL DATA

| Project: SMITHVILLE, N Pace Project No.: 60464301 | ΟN | | | | | | | |
|--|--------|------------------|-----------|---------------------|----------------------------|------------|--|--|
| QC Batch: 916003 | | Analysis Method: | | /I 2540G | | | | |
| QC Batch Method: SM 2540G | | , , | | 2540G Total Solids | | | | |
| | | | | ace Analytical Serv | cal Services - Kansas City | | | |
| Associated Lab Samples: 604643 | 801001 | | | | | | | |
| METHOD BLANK: 3626707 | | Matrix: | Solid | | | | | |
| Associated Lab Samples: 604643 | 801001 | | | | | | | |
| | | Blank | Reporting | | | | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers | | | |
| Total Solids | % | ND | 0.10 | 11/11/24 16:31 | | | | |
| SAMPLE DUPLICATE: 3626708 | | | | | | | | |
| | | 60464118001 | Dup | | Max | | | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers | | |
| Total Solids | % | 51.9 | 49.1 | 6 | 8 | | | |
| SAMPLE DUPLICATE: 3626709 | | | | | | | | |
| | | 60464301001 | Dup | | Max | | | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers | | |
| Total Solids | % | 10.3 | 10.4 | 1 | 8 | | | |

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.



QUALIFIERS

Project: SMITHVILLE, MO

Pace Project No.: 60464301

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SMITHVILLE, MO Pace Project No.: 60464301

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60464301001 | 11-7 | ASTM D2974 | 916005 | | |
| 60464301001 | 11-7 | SM 2540G | 916003 | | |

| | | WO#:60464301 |
|---|------------------------|--|
| DC#_Title: ENV-FRM | | ple |
| | ective Date: 01/12/2 | 022 |
| Client Name: Hodges Tarms and Courier: FedEx UPS UPS VIA Clay D | PEX D ECID | - 11 - 7 Pace □ Xroads □ Client □ Other □ |
| | ice Shipping Label Use | |
| Custody Seal on Cooler/Box Present: Yes D No | Seals intact: Yes | |
| Packing Material: Bubble Wrap Bubble Bags | □ Foam □ | None 🔽 Other 🗆 |
| | of Ice: Wet Blue No | |
| Cooler Temperature (°C): As-read 13.7 Corr. Fac | tor <u>-0,1</u> Correc | ted 3.6 Date and initials of person examining contents: C J 11/1 |
| Temperature should be above freezing to 6°C | 1 | |
| Chain of Custody present: | | time/date not on |
| Chain of Custody relinquished: | | container |
| Samples arrived within holding time: | | |
| Short Hold Time analyses (<72hr): | □Yes 🖉No □N/A | |
| Rush Turn Around Time requested: | Yes DNO DN/A | |
| Sufficient volume: | Yes No N/A | |
| Correct containers used: | Yes No N/A | |
| Pace containers used: | | |
| Containers intact: | | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | | |
| Filtered volume received for dissolved tests? | | |
| Sample labels match COC: Date / time / ID / analyses | | |
| Samples contain multiple phases? Matrix: SL | | |
| Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) | | List sample IDs, volumes, lot #'s of preservative and the date/time added. |
| (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT# Cyanide water sample checks: | ·: | |
| Lead acetate strip turns dark? (Record only) | □Yes □No | |
| Potassium iodide test strip turns blue/purple? (Preserve) | Yes No | |
| Trip Blank present: | | |
| Headspace in VOA vials (>6mm): | Yes No N/A | |
| Samples from USDA Regulated Area: State: MO | | |
| Additional labels attached to 5035A / TX1005 vials in the field Client Notification/ Resolution: Copy COC to | | |
| | | Field Data Required? Y / N |
| Person Contacted: Date/T Comments/ Resolution: | ime: | |
| | | |
| | | |
| Project Manager Review: | Date | |

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

60464301

| Section A Required C | Section A Required Client Information: | Section B Required Project Information: | Section C | |
|-------------------------|---|--|-----------------|--------------------------------------|
| Company: | Hodges Farms and Dredging | Report To: Aaron Gruenewald/Jeff Hodges | Attention: | Page: 1 of 1 |
| Address: | 501 N. Mest Street | Conv To: | | |
| | | | Company Name: | |
| | Lehn KS RRRR | | | REGULATORY AGENCY |
| | | | Address; | |
| Email To: | Pullippound @housed | Burbert O day N | | PDES I GROLIND WATER I DEMICAL WATER |
| | All uchewain un angesia. Com | Purchase Order No. | Pace Quote | |
| Phone: Q | Phone: 020.373 0745 Eav | | Reference: | I UST I RCRA I OTHER |
|) | | Project Name: Smithville, MO | Pace Project | |
| Requested | Requested Due DeterTAT. Ditcu | | Manager, | Site Location |
| | | Project Number. | Pace Profile () | |
| | | | | CTATE. MU |
| | | | | SIAIC: |

| | Valid Matrix Codes | rix Codes | - | - | | | | _ | | | | | | | | Sector Strayters | | | | | Con the state of the | 「「「「」」」」」 | | |
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| Internation AGUID Not New Integulate cleanamper glass BP2S 500mL H2SO4 plastic 40mL unpreserved clear vial AGU 11ter unpreserved clear vial AGU 11ter unpreserved plastic 11iter H2SO4 clear glass AGZ 500mL HXO3 amber glass BP2U 500mL HXO3 plastic 11iter H2SO4 clear glass AGZ 500mL HXO3 amber glass BP2U 500mL NaOH, Zh Acctate 250mL HCL Clear glass AG3U 500mL unpreserved glass BP3N 250mL NaOH plastic 250mL Unpres Clear glass AG3U 250mL unpres amber glass BP3N 250mL NaOH plastic 16cz clear soil jar AG3U 100mL unpres amber glass BP3N 250mL NaOH, Zh Acetate MT 16cz clear soil jar AG3U 100mL unpres amber glass BP3U 250mL NOOH plastic NL 16cz clear soil jar AG3U 100mL unpres amber glass BP3U 250mL NOOH, Zh Acetate WT 16cz clear soil jar AG3U 100mL unpres amber glass BP3Z 250mL NOOH, Zh Acetate WT 16cz clear soil jar AG3U 100mL unpres amber glass BP3Z 250mL NOOH, Zh Acetate WP MOM Intores amber glass </td <td>Inter Number Inclusion AG1U Inclusion Inclusion 40mL Var Thio. clear vial AG1U Inter unpresame glass BP2U 500mL H2SO4 plastic 11iter H2SO4 clear vial AG2S 500mL H2SO4 amber glass BP2U 500mL unpreserved plastic 11iter Unpres AG2S 500mL H2SO4 amber glass BP2U 500mL NaOH, Zn Acetate 250mL H2SO4 amber glass AG3S 250mL Unpreserved plastic MT 250mL Unpreserved plastic AG3U 250mL Unpreserved plastic MT 11iter unpres AG3U 250mL unpreserved plastic MT 250mL Unpreserved plastic BP3N 250mL UNO3 plastic MT 1602 clear soli jar AG3U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1704 flear unpreserved plastic MV MT MT</td> <td>Internation AG1U Intrastituce cleararamper glass BP2S 500mL H2SO4 plastic 40mL unpreserved clear vial AG1U Ititer unpres BP2U 500mL unpreserved plastic 11iter H2SO4 clear glass AG2S 500mL H2SO4 amber glass BP2Z 500mL unpreserved plastic 250mL ND Ititer unpres AG3S 250mL H2SO4 amber glass BP3Z 500mL HNO3 plastic 250mL ND AG3U 250mL unpres AG3U 250mL unpreserved plastic NT 250mL Unpres AG3U 250mL unpres BP3X 250mL HNO3 plastic NT 160z clear glass AG3U 250mL unpres BP3X 250mL HNO3 plastic NT 160z clear soil jar AG4U 125mL unpres AG5U 500mL unpreserved plastic NH 160z clear soil jar AG5U 100mL unpres BP3X 250mL HNO3 plastic NH 160z clear soil jar AG5U 100mL unpres AG5M 100mL unpreserved plastic NH 160z flear soil jar AG5U 100mL unpres 125mL HNO3 plastic NH NH 160z flear soil jar AG5U 100mL unpres 100mL unpres</td> <td></td> <td></td> <td>1100</td> <td></td> <td></td> <td>S</td> <td></td> <td>500</td> <td>ImL HNO3</td> <td>plastic</td> <td></td> <td>D</td> <td></td> <td>Sumn</td> <td>na Can</td> <td></td> <td></td> | Inter Number Inclusion AG1U Inclusion Inclusion 40mL Var Thio. clear vial AG1U Inter unpresame glass BP2U 500mL H2SO4 plastic 11iter H2SO4 clear vial AG2S 500mL H2SO4 amber glass BP2U 500mL unpreserved plastic 11iter Unpres AG2S 500mL H2SO4 amber glass BP2U 500mL NaOH, Zn Acetate 250mL H2SO4 amber glass AG3S 250mL Unpreserved plastic MT 250mL Unpreserved plastic AG3U 250mL Unpreserved plastic MT 11iter unpres AG3U 250mL unpreserved plastic MT 250mL Unpreserved plastic BP3N 250mL UNO3 plastic MT 1602 clear soli jar AG3U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1602 clear soli jar AG5U 100mL unpreserved plastic MT 1704 flear unpreserved plastic MV MT MT | Internation AG1U Intrastituce cleararamper glass BP2S 500mL H2SO4 plastic 40mL unpreserved clear vial AG1U Ititer unpres BP2U 500mL unpreserved plastic 11iter H2SO4 clear glass AG2S 500mL H2SO4 amber glass BP2Z 500mL unpreserved plastic 250mL ND Ititer unpres AG3S 250mL H2SO4 amber glass BP3Z 500mL HNO3 plastic 250mL ND AG3U 250mL unpres AG3U 250mL unpreserved plastic NT 250mL Unpres AG3U 250mL unpres BP3X 250mL HNO3 plastic NT 160z clear glass AG3U 250mL unpres BP3X 250mL HNO3 plastic NT 160z clear soil jar AG4U 125mL unpres AG5U 500mL unpreserved plastic NH 160z clear soil jar AG5U 100mL unpres BP3X 250mL HNO3 plastic NH 160z clear soil jar AG5U 100mL unpres AG5M 100mL unpreserved plastic NH 160z flear soil jar AG5U 100mL unpres 125mL HNO3 plastic NH NH 160z flear soil jar AG5U 100mL unpres 100mL unpres | | | 1100 | | | S | | 500 | ImL HNO3 | plastic | | D | | Sumn | na Can | | |
| Inter H2SO4 clear vial AG2N 500mL HNO3 amber glass BP2U 500mL unpreserved plastic 1 littler H2SO4 clear glass 500mL H2SO4 amber glass BP2Z 500mL NaOH, Zh Acetate 250mL HOL Clear glass AG3S 250mL Unpres glass BP3B 250mL HNO3 amber glass 250mL HOL Clear glass AG3U 500mL unpres amber glass BP3B 250mL HNO3 plastic 1 litter unpres glass AG3U 550mL unpres amber glass BP3B 250mL HNO3 plastic 1 1602 clear glass AG3U 100mL unpres amber glass BP3D 250mL HNO3 plastic NHL 1 1602 clear soil jar AG3U 100mL unpres amber glass BP3D 250mL HNO3 plastic NHL 1 1602 clear soil jar AG4U 125mL unpres amber glass BP3D 250mL HNO3 plastic NH 1 1602 clear soil jar AG5U 100mL unpres amber glass BP3D 250mL HNO3 plastic NH 1 1602 clear soil jar AG5U 100mL unpres amber glass BP3D 250mL HNO3 plastic NH 1 1000T unpres amber glass BP3D 250mL HNO3 plastic NH NH NH 1 100T unpres amber glass BP3D 100 | Inter H2SO4 clear vial Adml unpreserved clear vial Adml unpreserved plastic 1 liter H2SO4 clear glass 500mL HNO3 amber glass BP2Z 500mL NaOH, Zn Acetate 1 liter H2SO4 clear glass AG3S 500mL H2SO4 amber glass BP2Z 500mL NaOH plastic 250mL HCL Clear glass AG3U 500mL unpres amber glass BP3F 250mL NaOH plastic 250mL HCL Clear glass AG3U 250mL unpres amber glass BP3N 250mL NO3 plastic 1 liter unpres glass AG3U 250mL unpres amber glass BP3N 250mL NO3 plastic 1 liter unpres glass AG3U 250mL unpres amber glass BP3N 250mL NO3 plastic 1 liter unpres dreat glass AG3U 100mL unpres amber glass BP3N 250mL NO3 plastic 1 liter unpres dreat glass BP3N 250mL unpreserved plastic NAL 1 liter number AG4U 125mL unpreserved plastic NAL 1 liter number Inter number Inter number Inter number | Inter H2SO4 clear vial Adml unpreserved clear vial Adml unpreserved plastic 1 liter H2SO4 clear glass 500mL HNO3 amber glass BP2Z 500mL NaOH, Zh Acetate 1 liter H2SO4 clear glass AG2S 500mL H2SO4 amber glass BP2Z 500mL NaOH plastic 250mL HCL Clear glass AG3U 250mL unpres glass BP3H 250mL NaOH plastic 250mL HCL Clear glass AG3U 250mL unpres amber glass BP3H 250mL NaOH plastic 1 liter unpres glass AG3U 250mL unpres amber glass BP3H 250mL NaOH plastic 1 liter unpres (ear vial AG3U 250mL unpres amber glass BP3H 250mL NAOH plastic 1 liter unpres (ear soli jar AG3U 100mL unpres amber glass BP3H 250mL NAOH, Zh Acetate 1 liter number AG3U 100mL unpres amber glass BP3U 250mL NAOH, Zh Acetate NHC 1 liter number AG3U 100mL unpres amber glass BP3U 250mL NAOH, Zh Acetate NMP 1 liter number MOT 1125mL unpreserved plastic NH NMP NMP 1 liter number MOT 125mL NO3 plastic NMP NMP 1 liter number MPU 125mL H203 plastic NMP 1 liter number MMPU 16oz unpresserved plastic | | rial | AG1U | 1 liter | Innres amher di | ar/amber glass | | 500 | mL H2SO | 4 plastic | 0.000 | | | | | | |
| H2SO4 clear glass H2Z bumL NaOH, Zn Acetate UnDres glass AG2S 500mL H2SO4 amber glass BP3R 250mL NuOH, Zn Acetate UnDres glass AG3U 500mL unpres amber glass BP3R 250mL HNO3 plastic MT nL Unpres Clear glass AG3U 250mL unpres amber glass BP3N 250mL HNO3 plastic MT nL Unpres Clear glass AG3U 125mL unpres amber glass BP3N 250mL HNO3 plastic NAL nL Unpres Clear glass AG3U 125mL unpres amber glass BP3N 250mL HNO3 plastic NAL clear soil jar AG5U 100mL unpres amber glass BP3N 250mL HNO3 plastic NAL dear soil jar AG5U 100mL unpres amber glass BP3N 250mL HNO3 plastic NAL dear soil jar AG5U 100mL unpres amber glass BP3N 250mL HNO3 plastic NAL dear soil jar AG5U 100mL unpres amber glass BP3N 250mL HNO3 plastic NM dear soil jar AG5U 100mL unpres amber glass BP3N 250mL HNO3 plastic NM dmt 100mL unpres amber glass BP3N 125mL HNO3 plas | H2SO4 clear glass H2Z 500mL H2SO4 amber glass BF2Z 500mL NuOH, Zn Acetate Unpres glass AG2S 500mL H2SO4 amber glass BF3R 250mL NuO3 plastic nL HCL Clear glass AG3U 250mL unpres amber glass BF3R 250mL NuO3 plastic nL Unpres Clear glass AG3U 250mL unpres amber glass BF3N 250mL unO3 plastic nL Unpres Clear glass AG4U 125mL unpres amber glass BF3N 250mL unpreserved plastic NuL nL Unpres Clear glass AG4U 125mL unpreserved plastic NuL NuL AG5U 100mL unpres amber glass BF3N 250mL unpreserved plastic NuL MD# AG5U 100mL unpres amber glass BF3N 250mL NaOH, Zn Acetate NuL MD# AG5U 100mL unpres amber glass BF3N 250mL NAOH, Zn Acetate NuL mutpreserved plastic BF4N 125mL unpreserved plastic Du Nu mutpreserved plastic BF4N 165xL unpreserved plastic Du Nu mutpreserved plastic BF4N 165xL unpreserved plastic Du Nu mutpreserved plastic <t< td=""><td>H2SO4 clear glass H2Z 500mL H2SO4 amber glass BF2Z 500mL NaOH, Zn Acetate Unpres glass AG2S 500mL H2SO4 amber glass BF3R 250mL NuO3 plastic MT nL HCL Clear glass AG3U 250mL unpres amber glass BF3R 250mL HNO3 plastic MT nL Unpres Clear glass AG3U 250mL unpres amber glass BF3N 250mL unor samber glass BF3N 250mL unor samber glass nL Unpres Clear glass AG4U 125mL unpres amber glass BF3N 250mL unor samber glass NAL nL Unpres Clear soil jar AG5U 100mL unpres amber glass BF3N 250mL unpreserved plastic NAL AG5U 100mL unpres amber glass BF3N 250mL unpreserved plastic NAL MD# 500mL unpres amber glass BF3N 250mL unpreserved plastic NAL mutpreserved plastic NAL 125mL unpreserved plastic NMP NP mutpreserved plastic 10mL unpreserved plastic NMP NP NP NP mutpreserved plastic 11/14/24 1602 unpreserved plastic NMP NP NP NP NP mutpreserv</td><td></td><td>ear viat</td><td>AG2N</td><td>ROOM</td><td>HNO3 amhor y</td><td>dool vince</td><td>DF20</td><td>002</td><td>m unpres</td><td>served plas</td><td>tic</td><td>┥</td><td></td><td></td><td></td><td></td><td></td></t<> | H2SO4 clear glass H2Z 500mL H2SO4 amber glass BF2Z 500mL NaOH, Zn Acetate Unpres glass AG2S 500mL H2SO4 amber glass BF3R 250mL NuO3 plastic MT nL HCL Clear glass AG3U 250mL unpres amber glass BF3R 250mL HNO3 plastic MT nL Unpres Clear glass AG3U 250mL unpres amber glass BF3N 250mL unor samber glass BF3N 250mL unor samber glass nL Unpres Clear glass AG4U 125mL unpres amber glass BF3N 250mL unor samber glass NAL nL Unpres Clear soil jar AG5U 100mL unpres amber glass BF3N 250mL unpreserved plastic NAL AG5U 100mL unpres amber glass BF3N 250mL unpreserved plastic NAL MD# 500mL unpres amber glass BF3N 250mL unpreserved plastic NAL mutpreserved plastic NAL 125mL unpreserved plastic NMP NP mutpreserved plastic 10mL unpreserved plastic NMP NP NP NP mutpreserved plastic 11/14/24 1602 unpreserved plastic NMP NP NP NP NP mutpreserv | | ear viat | AG2N | ROOM | HNO3 amhor y | dool vince | DF20 | 002 | m unpres | served plas | tic | ┥ | | | | | |
| Unpres Jack AG3S 250mL H2SO4 amber glass Br3F 250mL HNO3 plastic nL HCL Clear glass AG2U 500mL unpres amber glass Br3T 250mL HNO3 plastic Field filtered nL Unpres AG3U 250mL unpres amber glass Br3U 250mL HNO3 plastic NL nL Unpres AG3U 250mL unpres amber glass Br3U 250mL HNO3 plastic NL nL Unpres AG4U 125mL unpres amber glass Br3U 250mL HNO3 plastic NL clear soil jar AG4U 125mL unpreserved plastic NL NL AG5U 100mL unpres amber glass Br3Z 250mL NaOH, Zn Acetate WP MO# Br4U 125mL NO3 plastic NN MO# Br4U 125mL HNO3 plastic DW mu pue Date: 11/14/24 MPDU 160z unpresserved plastic DW | Unpres glass AG3S 250mL H2SO4 amber glass B3T 250mL NAOT pastice nL HCL Clear glass AG2U 500mL unpres amber glass B73 250mL HNO3 plastic nL Unpres Clear soil jar AG3U 250mL unpres amber glass B73 250mL unopreserved plastic nL Unpres Clear soil jar AG3U 250mL unpres amber glass B73 250mL unpreserved plastic NL nL Unpres Clear soil jar AG4U 125mL unpres amber glass B73 250mL unpreserved plastic NL dear soil jar AG5U 100mL unpres amber glass B73 250mL NaOH, Zh Acetate NP AG5U 100mL unpres amber glass B73 250mL NAOH, Zh Acetate NP MO 100mL unpres amber glass B73 250mL NAOH, Zh Acetate NP Pata 125mL H2SO4 plastic DN NP PM: JLH Due Date: 11/14/24 NPDU 16oz unpresserved plastic DN | unpres glass AG3S 250mL H2SO4 amber glass B3T 250mL HNO3 plastic nL HCL Clear glass AG2U 500mL unpres amber glass B73N 250mL HNO3 plastic nL Unpres Clear soil jar AG3U 250mL unpres amber glass B73N 250mL HNO3 plastic nL Unpres Clear soil jar AG3U 250mL unpres amber glass B73N 250mL unpreserved plastic NL clear soil jar AG4U 125mL unpres amber glass B73N 250mL H2SO4 plastic NL AG5U 100mL unpres amber glass B73N 250mL NaOH, ZO4 plastic NL MO# AG5U 100mL unpres amber glass B73N 250mL NAOH, ZO4 plastic NL mutpreserved plastic BP4U 125mL NO3 plastic NL NP mutpreserved plastic BP4U 155mL HNO3 plastic NP mutpreserved plastic NPUU 16oz unpreserved plastic NP | | SS | AG2S | 500 | 1L H2SO4 amber | dass | BP22 RP3R | 250,0 | mL NaOH | , Zn Acetat | e | T | | | Mat | trix | |
| IL HCL Clear glass AG2U 500mL unpres amber glass BP3U 250mL rhv03 plastic WI IL Unpres Clear soil jar AG3U 250mL unpres amber glass BP3U 250mL unpreserved plastic NI IL Unpres Clear soil jar AG4U 125mL unpres amber glass BP3U 250mL unpreserved plastic NI IL Unpres Clear soil jar AG4U 125mL unpres amber glass BP3U 250mL unpreserved plastic NI AG5U 100mL unpres amber glass BP3Z 250mL NAOH, Zn Acetate WN MO# BP4U 125mL unpreserved plastic DW MO# 100mL unpres amber glass BP4U 125mL unpreserved plastic DW MO# 100mL unpres amber glass BP4U 125mL unpreserved plastic DW MO# 100mL unpres amber glass BP4U 125mL unpreserved plastic DW | In HCL Clear glass AG2U 500mL unpres amber glass BP3U 250mL unbres leid miered WI IL Unpres Clear soil jar AG3U 250mL unpres amber glass BP3U 250mL unpreserved plastic NL IL Unpres Clear soil jar AG3U 250mL unpres amber glass BP3U 250mL unpreserved plastic NL IL Unpres Clear soil jar AG5U 100mL unpres amber glass BP3U 250mL unpreserved plastic NL AG5U 100mL unpres amber glass BP3Z 250mL unpreserved plastic NP MO# 100mL unpres amber glass BP3U 125mL NO3 plastic NP MO# 125mL unpreserved plastic DW NP PM: JLH Due Date: 11/14/24 PM: JLH Due Date: 11/14/24 | In HCL Clear glass AG2U 500mL unpres amber glass BP3U 250mL unbreserved plastic WI IL Unpres Clear soil jar AG3U 250mL unpres amber glass BP3U 250mL unpreserved plastic NI IL Unpres Clear soil jar AG4U 125mL unpres amber glass BP3U 250mL unpreserved plastic NI IL Unpres Clear soil jar AG5U 100mL unpres amber glass BP3U 250mL unpreserved plastic NI AG5U 100mL unpres amber glass BP3Z 250mL NAOH, Zh Acetate NI MO# BP4U 125mL unpreserved plastic NI PM: JLH Due Date: 11/14/24 PM: JLH Due Date: 11/14/24 | | | AG3S | 250n | 1L H2SO4 amber | olass olass | RP3F | 250 | MI LINO | plastic E | | | | | | 0 | |
| In Unpres Clear soil jar AG3U 250mL unpres amber glass BP3U 250mL unpreserved plastic NGL clear soil jar AG4U 125mL unpres amber glass BP3U 250mL unpreserved plastic NGL dear soil jar AG5U 100mL unpres amber glass BP3Z 250mL unpreserved plastic NGL AG5U 100mL unpres amber glass BP3Z 250mL unpreserved plastic NC MO# BP4U 125mL unpreserved plastic DW MO# BP4N 125mL unpreserved plastic DW MO# 100mL unpres amber glass BP4U 125mL HNO3 plastic DW MO# 100mL unpreserved plastic DW DW 162 unpreserved plastic DW | In Unpres Clear glass AG3U 250mL unpres amber glass BP3U 250mL unpreserved plastic Nuclear clear soil jar AG4U 125mL unpres amber glass BP3U 250mL unpreserved plastic Nuclear clear soil jar AG5U 100mL unpres amber glass BP3U 250mL NaOH, Zh Acetate Nuclear MO# AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zh Acetate Nuclear MO# BP4U 125mL unpreserved plastic DW PM: JLH Due Date: 11/14/24 PM: JLH Due Date: 11/14/24 | In Unpres Clear glass AG3U 250mL unpres amber glass BP3U 250mL unpreserved plastic Nuclear clear soil jar AG4U 125mL unpres amber glass BP3U 250mL unpreserved plastic Nuclear clear soil jar AG5U 100mL unpres amber glass BP3U 250mL NaOH, Zh Acetate Nuclear MO# AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zh Acetate Nuclear MO# BP4U 125mL unpreserved plastic DW PM: JLH Due Date: 11/14/24 PM: JLH Due Date: 11/14/24 | | SS | AG2U | 500n | IL unpres amber | glass | BP3N | 250 | TH HNO3 | plastic - Ile | and mereo | | | Water | | | |
| Clear soil jar AG4U 125mL unpres amber glass BP3S 250mL H2SO4 plastic OL AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zh Acetate WP MO# : 60464301 BP4U 125mL unpreserved plastic WP Mo# : 11/14/24 Due Date: 11/14/24 11/14/24 | Clear soil jar AG4U 125mL unpres amber glass BP3S 250mL H2SO4 plastic OL AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zh Acetate WP MO# : 60464301 BP4U 125mL unpreserved plastic WP PM: JLH Due Date: 11/14/24 PM: JLH Due Date: 11/14/24 | Clear soil jar AG4U 125mL unpres amber glass BP3S 250mL H2SO4 plastic OL AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zh Acetate WP MO# : 60464301 BP4U 125mL unpreserved plastic WP PM: JLH Due Date: 11/14/24 WPDU 16oz unpresserved plastic DW | | glass | AG3U | 250n | 1L unpres amber | glass | BP3U | 250 | m unbres | Served plac | tic | NA | | Non | 21100100 | e liquid | |
| AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zh Acetate WP MO#:60464301 BP4U 125mL unpreserved plastic DW MO#:11/14/24 Due Date: 11/14/24 125mL HN03 plastic DW | AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zh Acetate WP WO#: 304 100mL unpres amber glass BP4U 125mL unpreserved plastic WP WP: 31H Due Date: 11/14/24 11/14/24 125mL H2SO4 plastic WP Mo#: 31H Due Date: 11/14/24 WPDU 16oz unpresserved plastic WP | AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zh Acetate WP MO#: 60464301 BP4U 125mL unpreserved plastic WP PM: JLH Due Date: 11/14/24 UPDU 16oz unpresserved plastic DW | | | AG4U | 125n | nL unpres amber | glass | BP3S | 250 | mL H2SO | 4 plastic | | Ĉ | | | 2dacon | | |
| WPDU 1652 unpreserved plastic DW BP4N 125mL unpreserved plastic DW BP4S 125mL H2SO4 plastic WPDU 1652 unpresserved plastic | WO#: 50464301 BP4U 125mL unpreserved plastic DW WPDU 125mL HN03 plastic DW PM: JLH Due Date: 11/14/24 WPDU 16oz unpreserved plastic | WO#: JCM BP4U 125mL unpreserved plastic DW WO#: JLH Due Date: 11/14/24 DW 125mL HN03 plastic PM: JLH Due Date: 11/14/24 PM: JLH Due Date: 11/14/24 | | | AG5U | 100n | nL unpres amber | glass | BP3Z | 250 | mL NaOH, | Zn Acetat | e | N | | Wipe | | | |
| WPDU 1602 Martic WPDU 1602 unpreserved platic | WD#: 50464301 BP4N 125mL HN03 plastic PM: JLH Due Date: 11/14/24 WPDU 16oz unpresserved plastic | WO#: 50464301BP4N125mL HN03 plasticBP4S125mL H2SO4 plasticPM: JLHDue Date: 11/14/24PM: JLHDue Date: 11/14/24 | | | | | | | BP4U | 1251 | mL unpres | served plas | tic | D | | Drinki | ng Wat | er | |
| WPDU WPDU WPDU WPDU | WPDU WALL Due Date: 11/14/24 WPDU | WPDU WPDU WPDU WPDU WPDU | | | | | | | BP4N | 125 | mL HNO3 | plastic | | H | | | | | |
| WO# . 001010101 | PM: JLH Due Date: 11/14/24 | PM: JLH Due Date: 11/14/24 | Ū, | COR . | 603 | E | | | MPD1 | 1621 | ML HZSU | 4 plastic | | Т | | | | | |
| | Hadree | and the second se | | 500. | 750 | 1 | | | | 1001 | z unpresse | erved pistic | | ٦ | | | | | |
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Page 1 of 1



ANALYTICAL REPORT

| Lab Number: | L2467110 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. |
| | Lenexa, KS 66219 |
| ATTN: | Jennifer Haley |
| Phone: | (913) 307-6958 |
| Project Name: | SMITHVILLE, MO |
| Project Number: | 60464301 |
| Report Date: | 12/03/24 |

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| | | | | Serial_N | Serial_No:12032413:07 |
|----------------------------------|----------------------------|--------|--------------------|-----------------------------|-----------------------|
| Project Name: Project Number: | SMITHVILLE, MO 60464301 | | | Lab Number: Report Date: | L2467110 12/03/24 |
| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
| L2467110-01 | 11-7 | SOLID | Not Specified | 11/07/24 16:00 | 11/15/24 |



Project Name: SMITHVILLE, MO Project Number: 60464301

 Lab Number:
 L2467110

 Report Date:
 12/03/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

609 Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 12/03/24



INORGANICS & MISCELLANEOUS



| Serial_No:12032413:07 |
|-----------------------|
|-----------------------|

| | SMITHVILLE 60464301 | e, Mo | | | | | | lumber: rt Date: | L2467110 12/03/24 | |
|---------------------------------------|--------------------------------------|-----------|-------|--------|-------|--------------------|------------------|---------------------|---|--------|
| | | | | SAMPLE | RESUL | rs | | | | |
| Client ID: | L2467110-01 11-7 Not Specified | - | | | | | | Received: | 11/07/24 16:00 11/15/24 Not Specified |) |
| Sample Depth: Matrix: Parameter | Solid Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analys |



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| Project Name: | SMITHVILLE, MO |
|-----------------|----------------|
| Project Number: | 60464301 |

Lab Duplicate Analysis Batch Quality Control

 Lab Number:
 L2467110

 Report Date:
 12/03/24

| Parameter | Native Sample | Duplicate Sam | Duplicate Sample Units | RPD | Qual | RPD Qual RPD Limits |
|---|---------------|---|------------------------|--------------|---------------|---------------------|
| General Chemistry - Westborough Lab Associated sample(s | . 01 | QC Batch ID: WG2003829-1 QC Sample: L2467109-01 Client ID: DUP Sample | QC Sample: L | 2467109-01 (| Client ID: DI | JP Sample |
| Density | 1.20 | 1.24 | SU | с С | | |
| | | | | | | |



SMITHVILLE, MO Project Number: 60464301 Project Name:

Lab Number: L2467110 Report Date: 12/03/24 Serial_No:12032413:07

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Absent Cooler ∢

Container Information

Plastic 250ml unpreserved Container ID Container Type L2467110-01A

Frozen Date/Time Absent Final Temp pH degC Pres Seal ≻ 3.2 Initial ^I Cooler pH F

AN

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DENSITY()

Analysis(*)



Project Name: SMITHVILLE, MO

Project Number: 60464301

Lab Number: L2467110

Report Date: 12/03/24

GLOSSARY

Acronyms

| Acronymo | |
|----------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Report Format: Data Usability Report



Project Name: SMITHVILLE, MO

Project Number: 60464301

Lab Number: L2467110

Report Date: 12/03/24

Footnotes

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- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: SMITHVILLE, MO

Project Number: 60464301

Serial_No:12032413:07

Lab Number: L2467110

Report Date: 12/03/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report



Project Name: SMITHVILLE, MO Project Number: 60464301

 Lab Number:
 L2467110

 Report Date:
 12/03/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| | | | | | | | | | | | Serial | Serial_No:12032413:07 | 2413:07 |
|---|--|----------------|----------------------------------|--|------------------|--------------|----------------------------------|---|-----------|---------------|----------------------------------|-----------------------|--------------|
| anotul | Internal Transfer Chain of Custody | Chain | of Custor | 1 | | | n | 11/15/24 | 24 | _ | 12467110 | | C |
| | | | Rush M Sample: | ier -Logge | _X d into eCO | C | State Of Origin Cert. Needed: | State Of Origin: MO Cert. Needed: Ve | MO Yes | oN X | A Becuite Borniseted Bu- | A Bu | Pace |
| Report To | 1000000 · 10 | I IONIOVICA | u. | ct To | | | | | | Request | | | |
| Jennifer Haley Pace Analytical P 9608 Loiret Blvd. Lenexa, KS 662 Phone (913)599- | Jennifer Haley Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 | | Pace 320 Fe Mansf Phone | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | sheld | ć | C . | Bulk Density | 12 | | | | |
| | | | | | | Frese | Preserved Continuers | T | _ | | _ | | |
| Item Sam | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | pevieseadury | | | _ | | | | LAB USE ONLY |
| 1 11-7 | 101 | PS | 11/7/2024 16:00 | 60464301001 | Solid | - | | × | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 10 | | | | | | | | | | | | | |
| | | | | | | | | | | | Comments | | |
| Transfers | Released By | | Date/Time | Received By | Ŋ | | Da | Date/Time | | | | | |
| - | X | | 11/14 1500 | Son | AFD | 2 | | | KS se | mple location | KS sample location: 6091-24-S2B1 | | |

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

z 5

Samples Intact Y

Y or N

Received on Ice

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Custody Seal Y or

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Cooler Temperature on Receipt

N 3

ILLISIN 10P

Thursday, November 14, 2024 9:38:50 AM

Page 1 of 1



Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300

| INTER_LABORATORY | WORK | ORDER | # | 6046430 |
|------------------|------|-------|---|---------|
|------------------|------|-------|---|---------|

(To be completed by sending lab)

| Sending Project No: | 60464301 |
|-------------------------------------|------------|
| Receiving Project No: | |
| Check Box for Consolidated Invoice: | |
| Date Prepared: | 11/14/24 |
| REQUESTED COMPLETION DATE: | 11/25/2024 |

| Sending Region | IR60-Kansas | Send | ing Project | Mar | | longite | |
|---|------------------------|-----------------|---------------------------|--------------|------------------------|---------------|-----------------|
| Receiving Region | S880 | | nal Client | | 11 | Jennife | |
| State of Sample Origin | MO | | | | H | odges Farms & | & Dredging LLC |
| the second second second second second second second second second second second second second second second se | uestions should be add | | eliverable | | | STD RE | EPORT |
| Requested Reportable Units | Report We | et or Dry Weigł | | | VO Lab Ne | ed to run? | Cert. Needed NO |
| | and a second | | REQUEST | ED | | | |
| Method Desc | ription | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| Bulk Dens | ity | BP3U | 1 | Unpreserved | 1 | SI-21WETO | SUB PASI WTA |
| Special Requirements: <u>Repo</u> | ert C, QC Limits (C), | FR Only no | EDD (0) | | | | |
| | FOR ANALYTIC | AL WORK C | OMPLETE | THIS SECTIO | NAISO | | |
| Return Samples to Sending R | | No | | | ALGO | | |
| | | DISPOSI | FION of FO | RM | S. 2.000 | | |

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Thursday, November 14, 2024 9:38:52 AM



Page 15 of 15



December 03, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO Pace Project No.: 60464302

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2024. 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 - Kansas City

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

Sincerely,

Semper Haley

Jennifer Haley jennifer.haley@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: SMITHVILLE, MO Pace Project No.: 60464302

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project: SMITHVILLE, MO Pace Project No.: 60464302

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60464302001 | 11-8 | Solid | 11/08/24 16:00 | 11/11/24 10:50 |



SAMPLE ANALYTE COUNT

Project: SMITHVILLE, MO Pace Project No.: 60464302

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60464302001 | 11-8 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO

Pace Project No.: 60464302

| Sample: 11-8 | Lab ID: 6046 | 4302001 | Collected: 11/08/2 | 4 16:00 | Received: 11 | /11/24 10:50 N | latrix: Solid | |
|----------------------------------|------------------------------------|--------------|--------------------|----------|-----------------|----------------|---------------|------|
| Results reported on a "dry weigh | t" basis and are adju | isted for pe | rcent moisture, sa | mple siz | ze and any dilu | tions. | | |
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Meth Pace Analytical | | | | | | | |
| Percent Moisture | 72.3 | % | 0.50 | 1 | | 11/11/24 16:32 | | |
| 2540G Total Percent Solids | Analytical Meth Pace Analytical | | | | | | | |
| Total Solids | 27.7 | % | 0.10 | 1 | | 11/11/24 16:32 | | |



QUALITY CONTROL DATA

| Project:SMITHVILLE, MOPace Project No.:60464302 | | | | | | |
|---|-------|--------------|--------------|---------------------|---------------|------------|
| QC Batch: 916003 | | Analysis Met | hod: SN | M 2540G | | |
| QC Batch Method: SM 2540G | | Analysis Des | cription: 25 | 40G Total Solids | | |
| | | Laboratory: | Pa | ace Analytical Serv | ices - Kansas | City |
| Associated Lab Samples: 604643020 | 001 | | | | | |
| METHOD BLANK: 3626707 | | Matrix: | Solid | | | |
| Associated Lab Samples: 604643020 | 001 | | | | | |
| | | Blank | Reporting | | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers | |
| Total Solids | % | ND | 0.10 | 11/11/24 16:31 | | |
| SAMPLE DUPLICATE: 3626708 | | | | | | |
| | | 60464118001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 51.9 | 49.1 | 6 | 8 | |
| SAMPLE DUPLICATE: 3626709 | | | | | | |
| | | 60464301001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 10.3 | 10.4 | 1 | 8 | |

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.



QUALIFIERS

Project: SMITHVILLE, MO

Pace Project No.: 60464302

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:SMITHVILLE, MOPace Project No.:60464302

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60464302001 | 11-8 | ASTM D2974 | 916005 | | |
| 60464302001 | 11-8 | SM 2540G | 916003 | | |

| | | W0#:60464302 |
|---|-------------------------|--|
| Pace Marriel stream Revision: 2 | I-LENE-0009_Sam | |
| | | |
| Client Name: <u>Hodges Farms</u> Qrc Courier: FedEx UPS VIA Clay D | | |
| | ace Shipping Label Use | Pace □ Xroads □ Client □ Other □ d? Yes □ No □ |
| Custody Seal on Cooler/Box Present: Yes D No | Seals intact: Yes [| |
| Packing Material: Bubble Wrap Bubble Bags | | None Other Other Other |
| Cooler Temperature (°C): As-read 13.7 Corr. Fac | ctor <u>-0,1</u> Correc | ted 13.6 Date and initials of person examining contents: C T 11/1 |
| Temperature should be above freezing to 6°C | | |
| Chain of Custody present: | Yes No N/A | time/date not on |
| Chain of Custody relinquished: | | container |
| Samples arrived within holding time: | ŹYes □No □N/A | Next I |
| Short Hold Time analyses (<72hr): | □Yes INo □N/A | |
| Rush Turn Around Time requested: | Yes No N/A | |
| Sufficient volume: | ŹYes □No □N/A | |
| Correct containers used: | Ares No N/A | |
| Pace containers used: | | |
| Containers intact: | | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | | |
| Filtered volume received for dissolved tests? | | |
| Sample labels match COC: Date / time / ID / analyses | | |
| Samples contain multiple phases? Matrix: SL | | |
| Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) | | List sample IDs, volumes, lot #'s of preservative and the date/time added. |
| (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT: Cyanide water sample checks: | #: | |
| Lead acetate strip turns dark? (Record only) | □Yes □No | |
| Potassium iodide test strip turns blue/purple? (Preserve) | □Yes □No | |
| Trip Blank present: | | |
| Headspace in VOA vials (>6mm): | □Yes □No ☑N/A | |
| Samples from USDA Regulated Area: State: MO | □Yes ZNO □N/A | |
| Additional labels attached to 5035A / TX1005 vials in the field | | |
| Client Notification/ Resolution: Copy COC t | | Field Data Required? Y / N |
| Person Contacted: Date/ Comments/ Resolution: | Time: | |
| Project Manager Review: | Date | |

Face Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

60444302

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

| Section A Required C | Section A Required Client Information: | Section B Recultant Drated Information | - | Inform | - Contraction | | | | | | ő | Section C | a | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---|------------|------------|-----------------------------|------------------|--------|------------------|-----------------------|-------------|-----------|----------------------------|------------|------|---------------|----------------------------|--------------|-----------------------|------------------------|-----------------|-------------|--------|-------------------------|----------------------------------|---------------------|--------------|-------------|---------|---------|----------------------------|-----------|
| Company: | Hodges Farms and Dredoing | Report To: Asron Crumming Log Hard | Aaro | C | TIONELL | 110100 | 11.27 | | | | Ę | Invoice Information: | ormati | :uo | | | | | | | | | | | | ó, | Page: | - | ď | - | |
| Addrace. | | | | 5 | lauanı | Maid/ | en ho | ages | | | Aŭ | Attention: | | | | | | | | | r | | | | | | | | | | |
| (construct | out N. West Street | Copy To: | | | | | | | | | 8 | Сотрату Name: | Name: | | | | | | | | | 1 | 1 de | N NO | REGIL ATODV ACIENTY | , | | Ł | | | |
| | Lebo, KS 66856 | | | | | | | | | | Ad | Address; | | | | | | | | | 4 | | | | | | | | | | |
| Email To: | agruenewald@hodgesfd.com | Purchase Order No.: | Inder N | lo.: | | | | | | | Pad | & Quote | | | | | | | | | T | Ĩ | NFOES | 906 | GROL | GROUND WATER | ATER | L | DRINKI | DRINKING WATER | æ |
| Phone: 0 | 920-373-8715 Fax | Project Name: | | Smi | Smithville MO | MO | | | | | Page 1 | Reference: Pace Project | | | | | | | | | | UST | ₋∣ | h | RCRA | | | L | OTHER | ~ | |
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| | MATRIX DR#KING WATER | | e) 0) s | dMO | | | COLL | COLLECTED | | | - | | 4 | eser | Preservatives | S | | N /A | _ | | - | | - | | | | | | のである | 日本で | |
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| | ADDITIONAL COMMENTS | - | BELIN | IQUIS | RELINQUISHED BY AFFILIATION | YI AF | FLIATK | 2 | - | DATE | - | TINE | ┝ | | AC | ACCEPTED BY / AFFII IATION | ED B | YIAF | FII LAT | - 10 | T | DATE | - 1 | -1 | - | - | | | | | T |
| *Collect Fe | Collect Fecal Coliform samples after 10:00am | ×. | 3 | 2 | X | R | Z | 5 | W/11 | P C I | 12 | 6 | F | S | Con | 5 | F | 2 | | | T | | - | 1.0 | T | 0 | | | | LIONS | T |
| "For metal: containers | "For metals/nutrients, leave at least 1 inch of headspace in containers for off-gassing | | | | 4 | | | | | | 4 | | 1-+ | m | MIN | | | | | | | 3 | | Rici | | 12.6 | | | | | T |
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| COC Line Item | xinteM | H6DA | Н6ЭО | DG9O | N69A | DG9U | M690 | 869C | BGIÙ | нгәа | Nr⊖A | AG2U | 863S | NG4U | VGSU | ne⊦∩ | Mekn | MGDU | BP1U | BP3U | BP1N | вьзи | BP3F | BP3S | 8638 | 8b3S | WPDU | ZPLC | Other | |
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| Contair | Container Codes | | | | 11 | 11 | 11 | | 11 | 11 | 11 | | | | | - | | - | - | _ | _ | | | | | | | | | |
| | DG9B | | 4 Junua | tien lifet | and a | lott | | Glass | SS | | | | | | | | | | 0.04 | Plastic | | | | | | | N | Mico | | |
| | DG9H | | 40mL | 40mL HCI amber voa vial | ther vo | a vial | | | WGFU | | 802 clear soil jar 407 clear soil jar | ar soil | ar | | | 8 | BP1B | 11 | NAOH | 1L NAOH plastic | | | | L | | Wipe. | /Swab | | Wipe/Swab | |
| | DG9M | | 40mL | 40mL MeOH clear vial | clear v | al | | | WG2U | | 2oz clear soil jar | ar soil | ar | | | n m | BP1S | == | HOSONIA | 11 H2SOA plastic | | | | SP51 | | 120m | IL Colif | form N | Thiosulf | ate |
| | D690 | | 40mL | 40mL TSP amber vial | nber vi | 5 | | | JGFU | | 4oz unpreserved | reserv | ed am | amber wide | e | B | BP1U | 1= | Undres | 1L unbreserved plastic | hastic | | | | | Ziploc B | Ziploc Bag | | | |
| | | | 40mL | 40mL H2SO4 amber vial | ambe | r vial | | | AGOU | | 100mL unores amber glass | unores | ambe | r glass | | BF | BP1Z | 11 | NaOH | 1L NaOH, Zn Acetate | etate | | | | | AIL | Air Cassettes | 4 | | |
| | DG9U | | 40ml | 40ml amber unpreserved | Innres | arved | | | AG1H | | 1L HCI amber glass | amber | glass | | | | BP2B | 50(| UmL N | 500mL NAOH plastic | astic | | | R | | Terra | Terracore Kit | | | |
| | VG9H | | 40mL F | 40mL HCI clear vial | ar vial | | | | AG1T | | 11 No Thiosulfato close/ | hinerit. | iner glo | ar/ord | and a start | | BP2N | 202 | | 500mL HNO3 plastic | astic | | | ∍ | | Sumr | Summa Can | _ | | |
| | VG9T | | 40mL | 40mL Na Thio. clear vial |). clear | ·vial | | | AG1U | | 1 liter unpres amber glass | Ipres a | mber of | lass | Jer gla | | BP2U | 202 | Jul H | 500ml HDSO4 plastic | 500mL H2SO4 plastic | vito | | - | | | | | | |
| | VG9U | | 40mL unpreserved clear vial | uprese | erved (| dear vi | <u>a</u> | | AG2N | | 500mL HNO3 amber glass | HN03 | amber | glass | | BP | 22 | 500 | Jml N | HOH Z | 500mL NaOH Zn Acetate | | | | | | | | | |
| | 212 | | 1 liter H | 2S04 | clear g | ass | | | AG2S | -17 | 500mL H2SO4 amber glass | H2SO4 | 4 amb∈ | er glass | | BF | BP3B | 250 | JmL N | 250mL NaOH plastic | istic | 2 | | - | | | Ma | Matrix | | |
| | BG-U | | 250ml | 250ml HCI Class alass | lass | | | | AG3S | | 250mL H2SO4 amber glass | H2SO | 4 ambe | er glass | | BF | BP3F | 250 | JmL HI | VO3 pla | 250mL HNO3 plastic - field filtered | eld filter | Ped | Į | | Water | | | | |
| | BG3U | | 250ml | 250mL Unbres Clear place | s Clear | ass dass | | | AGRU | | 500mL unpres amber glass | nupres | ambe | r glass | | 38 | BP3N | 250 | JmL H | 250mL HNO3 plastic | astic | | | SL | | Solid | | | | |
| | WGDU | | 16oz c | 16oz clear soil iar | iar | 2020 | | | AGAIL | | 135ml unbres amber glass | caldin . | ampe | giass | | 20 | BP3U | 250 | JmL ur | presen | 250mL unpreserved plastic | stic | | NAL | | Non-8 | noanba | Non-aqueous Liquid | I | |
| | | | | | | | | T | AGSU | Ť | 100mL unbres amber plass | Unbres | ambe | glass | | ŭä | BP37 | 250 | I I I | 250mL H2SO4 plastic | 250ml H2SO4 plastic | 9 | | | | E S | | | | |
| | | | | | | | | 1 | | 1 | | | | 2000 | | | BPAL | 125 | | Dreepu | 125ml Inpresented alactic | e e | | | | wipe | 141 | | | |
| | | | | | | | | | | | | 1 | | | | 티늄 | BP4N | 125 | Im H | 125mL HNO3 plastic | istic | SUC | | | | NUIN | URINKING Water | Iter | | |
| | | | | | # | G | Z | 2 | 1# · ELAEA202 | 0 | | | | | | 固 | BP4S | 125 | SmL H | 125mL H2SO4 plastic | astic | | | _ | | | | | | |
| | Work O | Work Order Numb | qu | S | F | 5 | T | 5 | 5 | J | | | | | | 3 | WPDU | 160 | idun zc | esserve | 16oz unpresserved plstic | | | | | | | | | |
| | | | | HUL :MY | HTC | | 0 | ue D | Due Date: 11/14/24 | 11/ | 14/2 | 4 | | | | | | | | | | | | | | | | | | |
| Pag | | | | CLIE | CLIENT: Hodges | Hodg | es F | Farms | | | | | | | | | | | | | | | | | | | | | | |
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Pace® Analytical Services, LLC

Page 1 of 1

Page 11 of 25



ANALYTICAL REPORT

| Lab Number: | L2467109 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: | Jennifer Haley |
| Phone: | (913) 307-6958 |
| Project Name: | SMITHVILLE, MO |
| Project Number: | 60464302 |
| Report Date: | 12/03/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial_No:12032413:06 | L2467109 12/03/24 | Receive Date 11/15/24 | |
|-----------------------|----------------------------------|---|--|
| Serial_No | Lab Number: Report Date: | Collection Date/Time 11/08/24 16:00 | |
| | | Sample Location Not Specified | |
| | | Matrix SOLID | |
| | SMITHVILLE, MO 60464302 | Client ID 11-8 | |
| | Project Name: Project Number: | Alpha Sample ID L2467109-01 | |





Project Name: SMITHVILLE, MO Project Number: 60464302

 Lab Number:
 L2467109

 Report Date:
 12/03/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

609 Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 12/03/24



INORGANICS & MISCELLANEOUS



| Serial_No:12032413:06 | 5 |
|-----------------------|---|
|-----------------------|---|

| Project Name: Project Number: | SMITHVILLE, I 60464302 | MO | | | | | | | L2467109 12/03/24 | |
|----------------------------------|---------------------------|----------|-------|--------|-------|--------------------|------------------|------------------|----------------------------|---------|
| | | | | SAMPLE | RESUL | rs | | | | |
| Lab ID: Client ID: | L2467109-01 11-8 | | | | | | 20.00 | | 11/08/24 16:00 11/15/24 |) |
| Sample Location: | Not Specified | | | | | | Field I | | Not Specified | |
| Sample Depth: Matrix: | Solid | | | | | | | | | |
| Parameter | Result Q | ualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
| eneral Chemistry - We | stborough Lab | | | | | | | | | |
| ensity | 1.20 | | SU | 0.100 | | 1 | - | 12/02/24 03:3 | 5 12,D1475 | DEW |



| 3:06 |
|--------|
| 3241; |
| 1203 |
| °Z |
| Serial |

| SMITHVILLE, MO | 60464302 |
|----------------|------------------------|
| Project Name: | Project Number: |

Lab Duplicate Analysis Batch Quality Control

 Lab Number:
 L2467109

 Report Date:
 12/03/24

| Parameter | Native Sample | Duplicate Sample | iple Units | | Qual | RPD Qual RPD Limits |
|---|---------------|---|-----------------|------------|-------------|---------------------|
| General Chemistry - Westborough Lab Associated sample(s): | 01 | QC Batch ID: WG2003829-1 QC Sample: L2467109-01 Client ID: 11-8 | QC Sample: L24(| 37109-01 C | ient ID: 11 | ထု |
| Density | 1.20 | 1.24 | SU | ы | | |
| | | | | | | |



SMITHVILLE, MO Project Number: 60464302 Project Name:

Lab Number: L2467109 Serial_No:12032413:06 Report Date: 12/03/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Absent Cooler ∢

Container Information

Plastic 250ml unpreserved Container ID Container Type L2467109-01A

Frozen Date/Time Absent Final Temp pH degC Pres Seal ≻ 3.2 Initial ^I Cooler pH F

AN

∢

DENSITY()

Analysis(*)



*Values in parentheses indicate holding time in days

Project Number: 60464302

Lab Number: L2467109

Report Date: 12/03/24

GLOSSARY

Acronyms

| ,,,, | |
|----------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |



Project Number: 60464302

Lab Number: L2467109

Report Date: 12/03/24

Footnotes

1

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.



Project Number: 60464302

Serial_No:12032413:06

Lab Number: L2467109

Report Date: 12/03/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



Project Name:SMITHVILLE, MOProject Number:60464302

 Lab Number:
 L2467109

 Report Date:
 12/03/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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| | Workorder: 60464302 Wo | Workorder Name: | | Rush Multiplier Samples Pre-Logg SMITHVILLE, MO | Rush Multiplier X Samples Pre-Logged into eCOC SMITHVILLE, MO | X 1 into eC | 00 | Stat Cert | State Of Origin: MO Cert. Needed: Ye | : MO | ON X | ON X | | | Pace | e i |
| Re | | | ŝ | Subcontract To | | | | | | and and | Regu | Requested Analysis | Analvais Requested by. | Sa by: | 5707/C7/11 | 024 |
| Pres Para | Jennifer Haley Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 | | LOLL | Pace Analytical A 320 Forbes Blvd Mansfield, MA 0 Phone (508)822- | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | sfield 8 0 | | | | | | | | | | 3 |
| | | | | | | | Pres | Preserved Containers | Alise Density | - | | | | | | |
| | | | | - | | | P | | eining | | - | | _ | _ | | |
| Item | Sample ID | Sample Type | Sample Collect Type Date/Time | Lat | Lab ID | Matrix | ioyieseianU | | | | | | | 1 | LAB USE ONLY | ALY. |
| - | 11-8 -01 | PS | 11/8/2024 16:00 | | 60464302001 | Solid | - | | × | | | | | | | Τ |
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| 5 | | | | | | | | | | - | | | | | | |
| Š | Cooler Temperature on Receipt | | ç | Custody Seal | | Y or N | - | Rece | Received on Ice | Y or | z | ŝ | Samples Intact | t Y or | z | Τ |
| L | "In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory | dentiality, ered com | location/na | ame of th since th | he samplii is informa | ng site, s tion is a | sampler's vailable i | s name a in the ow | nd signatur | e may not | be provi | ded on this | COC docum | | 1 | 1 |
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Thursday, November 14, 2024 10:10:07 AM

Page 1 of 1 Page 24 of 25

FMT-ALL-C-002rev.00 24March2009



Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300

| INTER_LABORATORY WO | RK ORDER # 60464302 |
|---------------------|---------------------|
|---------------------|---------------------|

(To be completed by sending lab)

| Sending Project No. | 60464302 |
|-------------------------------------|------------|
| Receiving Project No: | |
| Check Box for Consolidated Invoice: | |
| Date Prepared: | 11/14/24 |
| REQUESTED COMPLETION DATE: | 11/25/2024 |

| Sending Region | IR60-Kansas | Send | ing Project | Mar | | In solution | |
|---|----------------------|----------------|---------------------------|--------------|------------------------|---------------|------------------------|
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| State of Sample Origin | MO | | | | Ho | odges Farms 8 | Dredging LLC |
| and the second se | 01000 | | eliverable | | | STD RE | PORT |
| Requested Reportable Units | Report W | et or Dry Weig | ht? Dry We | sight 🔲 IRV | VO Lab Ne | ed to run? | Cert. Needed <u>NO</u> |
| | | | REQUEST | ED | | | |
| Method Description | | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| Bulk Dens | sity | BP3U | 1 | Unpreserved | 1 | SI-21WET0 | SUB PASI WTA |
| Special Requirements: <u>Repo</u> | ort C, QC Limits (C) | FR Only no | EDD (0) | | | | STATING THAT |
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| Return Samples to Sending F | | No | | | ALSO | | |
| | | DISPOSI | TION of FO | RM | 12.50 | - | |

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Thursday, November 14, 2024 10:10:09 AM



December 05, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO Pace Project No.: 60464507

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2024. 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 - Kansas City

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

Sincerely,

Semper Haley

Jennifer Haley jennifer.haley@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: SMITHVILLE, MO Pace Project No.: 60464507

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project: SMITHVILLE, MO Pace Project No.: 60464507

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60464507001 | 11-12-24 | Solid | 11/12/24 16:00 | 11/13/24 12:09 |



SAMPLE ANALYTE COUNT

Project: SMITHVILLE, MO Pace Project No.: 60464507

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60464507001 | 11-12-24 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO

Pace Project No.: 60464507

| Sample: 11-12-24 Results reported on a "dry weigh | Lab ID: 6046 ht" basis and are adju | | Collected: 11/12/2 rcent moisture, sa | | Received: 11 ze and any dilu | | latrix: Solid | |
|--|--|-------|--|----|---------------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Meth Pace Analytical | | | | | | | |
| Percent Moisture | 84.9 | % | 0.50 | 1 | | 11/14/24 11:45 | | |
| 2540G Total Percent Solids | Analytical Meth Pace Analytical | | | | | | | |
| Total Solids | 15.1 | % | 0.10 | 1 | | 11/14/24 11:45 | | |



QUALITY CONTROL DATA

| Project: SMITHVILLE, M Pace Project No.: 60464507 | ON | | | | | |
|--|--------|--------------|--------------|---------------------|---------------|------------|
| QC Batch: 916387 | | Analysis Met | hod: SN | / 2540G | | |
| QC Batch Method: SM 2540G | | Analysis Des | cription: 25 | 40G Total Solids | | |
| | | Laboratory: | Pa | ace Analytical Serv | ices - Kansas | City |
| Associated Lab Samples: 604645 | 507001 | | | | | |
| METHOD BLANK: 3628176 | | Matrix: | Solid | | | |
| Associated Lab Samples: 604645 | 507001 | | | | | |
| | | Blank | Reporting | | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers | |
| Total Solids | % | ND | 0.10 | 11/14/24 11:43 | | |
| SAMPLE DUPLICATE: 3628177 | | | | | | |
| | | 60464454001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 35.4 | 35.2 | 1 | 8 | |
| SAMPLE DUPLICATE: 3628178 | | | | | | |
| | | 60464471001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 19.4 | 19.4 | 0 | 8 | |

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.



QUALIFIERS

Project: SMITHVILLE, MO

Pace Project No.: 60464507

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SMITHVILLE, MO Pace Project No.: 60464507

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60464507001 | 11-12-24 | ASTM D2974 | 916390 | | |
| 60464507001 | 11-12-24 | SM 2540G | 916387 | | |

| | | WO#: 60464507 |
|--|-------------------------|--|
| /-Pace | RM-LENE-0009_Sa | 60464507 |
| SHAUTICAL SERVICES Revision: 2 | Effective Date: 01/12/2 | LUZZ ISSUED BY. EUROPA |
| Client Name: Horaes Farms a | - Dredging - 1 | 11/12/24 |
| Courier: FedEx 🗆 UPS 🗖 VIA 🗔 Clay 🗆 | | Pace 🗆 Xroads 🗆 Client 🖌 Other 🗆 |
| Tracking #: | Pace Shipping Label Use | |
| Custody Seal on Cooler/Box Present: Yes D No | / | |
| Packing Material: Bubble Wrap Bubble Ba | | None 🗆 Other 🗆 |
| | pe of Ice: Wet Blue No | |
| Cooler Temperature (°C): As-read 9.4 Corr. | Factor 0, Correc | eted 19, 4 Date and initials of person examining contents: C T |
| Temperature should be above freezing to 6°C | | U |
| Chain of Custody present: | Øres □No □N/A | time/date not on container |
| Chain of Custody relinquished: | | |
| Samples arrived within holding time: | | |
| Short Hold Time analyses (<72hr): | | |
| Rush Turn Around Time requested: | -1 | |
| Sufficient volume: | 58 | |
| | | |
| Correct containers used: | ∏Yes □No □N/A | |
| Pace containers used: | Yes No N/A | |
| Containers intact: | Yes DNO DN/A | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | □Yes □No ĎN/A | |
| Filtered volume received for dissolved tests? | □Yes □No ØN/A | |
| Sample labels match COC: Date / time / ID / analyses | ŹYes □No □N/A | |
| Samples contain multiple phases? Matrix: S/ | | |
| Containers requiring pH preservation in compliance? | | List sample IDs, volumes, lot #'s of preservative and the |
| (HNO₃, H₂SO₄, HCI<2; NaOH>9 Sulfide, NaOH>10 Cyanide) | | date/time added. |
| (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LC Cyanide water sample checks: | DT#: | |
| Lead acetate strip turns dark? (Record only) | □Yes □No | |
| Potassium iodide test strip turns blue/purple? (Preserve) | □Yes □No | |
| Trip Blank present: | | |
| Headspace in VOA vials (>6mm): | | |
| Samples from USDA Regulated Area: State: M(| | |
| Additional labels attached to 5035A / TX1005 vials in the fie | | |
| Different Manufert and the second second | C to Client? Y / N | Field Data Poquirod 2 V / N |
| Portoon Contentant | e/Time: | Field Data Required? Y / N |
| Comments/ Resolution: | | |
| | | |
| | 1 | |
| roject Manager Review: | Date: | |

Face Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

60464507

| Section | Section A | Section B | 3 | 1 | | | | | Section C | 0 E | | | | | | | | | | | | Ľ | Pade: | - | 6 | - | |
|---------------------|--|--|-------------|-----------------------------|------------------|----------------|-----------------------|-----------------------|--------------------------|-----------------------------------|--------|--------------------------|---|---------------------------|----------------|-----------------------------|----------|-----------------|---------------|-------------------|-----------------------------------|----------|-------------------|-------------------|--|----------------------------|---------------|
| Vadniter | | Kequired Project Information: | ct Info | rmation: | | | | | Invoice Information: | Informs | ation: | | | | | | | r | | | | | | · | | · | |
| Company. | | Report To: Aaron Gruenewald/Jeff Hodges | ron G | èruenew | ald/Jeff | Hodges | | | Attention: | ÷ | | | | | | | | _ | | | | | | | | | |
| Address: | 501 N. West Street | Copy To: | | | | | | | Company Name: | лу Nar | iej | | | | | | | R | ۲ | TORY | REGULATORY AGENCY | 5 | | | | | |
| | Lebo, KS 66856 | | | | | | | | Address; | in | | | | | | | | L | NPDES | S | GR | anno | GROUND WATER | Ľ | DRIN | DRINKING WATER | TER |
| Email To: | <u>agruenewald@hodgesfd.com</u> | Purchase Order No. | r No.: | | | | | | Pace Quote Reference: | e: e: | | | | | | | | | UST | Breers. | RCRA | RA | | L | OTHER | L L | |
| Phone: | 920-373-8715 Fax: | Project Name: | لي ال | Smithville, MO | MO | | | | Pace Pro Managel | yect . | | | | | | | | ŝ | Site Location | ation | | | | のの | Constantial Constantia | | |
| Request | Requested Due Date/TAT: RUSH | Project Number. | - 340 12 | | | | | | Pace Pro | file #. | | | | | | | | _ | STI | STATE: | | QW | 1 | | | | |
| | | | | | | | | | | | | | | П | | Requ | Jeste | Anal | ysis F | iltere | Requested Analysis Filtered (Y/N) | | | | Diver 2 | And State | No. S. S. S. |
| | Section D Valid Matrix Codes Required Client Information COL | odes cobE | | | 8 | COLLECTED | Ω | _ | | | Pres | Preservatives | ves | | 1 N /A | | | | | | _ | | | | | | |
| | | DV WW DL DL DL DL DL DL DL DL DL DL DL DL DL | GRAB C=CO | | COMPOSITE START | | COMPOSITE END/GRAB | | 5 | | | | | - | | Ainois | | S | 1.5 | izing Mate | | | (N/A) | | | | |
| # MƏTI | Sample ID AR (A-Z, 0-9 / -) OTER Sample IDs MUST BE UNIQUE TISSUE | | | DATE | T T M E | DATE | | TA 9M9T BJ9MA8 | # OF CONTAINER | H ⁵ 80* Dubreserved | €ONH | N ^g OH HCI | Na ₂ S ₂ O ₃ Mathanol | Other | teeT sisylsnAJ | M \ slsteM 0108 munimulA | Chloride | Total Phosphoru | TKN TKN | Effective Neutral | Bulk Density pH | | Residual Chiorine | Pac | te Proje | Pace Project No./ Lab I.D. | ab I.D. |
| - | 12-24 | SL | 0 | 1/2/2 | | 1/1 0 | | 16:00 | - | · | | F | | | | | | | × | | | \vdash | E | | | | |
| 2 | | 121 | | | | | - | | | | | | | | | | | | | | | | | | | | |
| 6 | | | _ | | | | | _ | | | | | | | | | | | | | | _ | | | | | |
| 4 | | | _ | _ | _ | | | | | - | | | | | - | | | | _ | | _ | | | | | | |
| w | | | _ | | _ | | _ | | | _ | | _ | | | | | | | | | _ | | 1 | | | | |
| ھ | | | _ | | | _ | _ | | | - | | _ | | | - 22 | - | | 1 | _ | | | | | | | | |
| 7 | | 1.00 M | _ | | _ | _ | _ | | | | | _ | | 1 | | - | | - | - | | | | | | | | |
| 50 | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | _ | | | _ | | | | - | - | | | | | _ | | _ | - | | | | | | | | |
| თ | | | _ | | _ | - | + | _ | | _ | | | | | | | _ | | - | | _ | | | | | | |
| 10 | | | _ | | _ | _ | - | _ | | - | | _ | | | _ | _ | | | - | | _ | | | | | | |
| ŧ | - and Second | | + | - 11 | | _ | + | | | - | | - | | - | _ | - | | | | | | | | | | | |
| 12 | | | - | | _ | _ | | - | | - | | - | | - | | - | | | - | 1 | - | ┢ | | | | | |
| | ADDITIONAL COMMENTS | R | BLING | RELINQUISHED BY AFFILIATION | N OFFIL | IATION | - | DATE | Ē | TUNE | | | ACCE | ACCEPTED BY / AFFILIATION | BYIA | CEFILLA | TION | | DATE | | TIME | | ĺ | SAI | MPLE CO | SAMPLE CONDITIONS | |
| Collect | Collect Fecal Coliform samples after 10:00am | AHX. | S | 2 | X | Cha | -X- | 13/24 | 12:09 | 60 | | | | X | | | N | | 11/1 | 3 | 1209 | 9 9 | 7.6 | | | | |
| *Formel containe | For metalshutrlents, leave at least 1 Inch of headspace In containers for off-gassing | | | | | | | - | | | | | | ÷ | 1 | | | | | | | - | | | _ | | |
| Pa | | | | | | | + | | | | | | | | | | | | | | | - | | | _ | - | |
| ige ′ | | | | | SAN | SAMPLER NAME A | | ND SIGNATURE | | | | | | | | | | | | 1 | | | р. | | | (N | taet |
| 10 c | | | | | | PRINT Nan | Name of | ne of SAMPLER: | | | | | | | | | | | | | | Г | , uj d | bevh MVY) | | ы (, , | 11 69 (N/) |
| of 25 | | | | | | SIGN | ATURE of | SIGNATURE of SAMPLER: | | | | | | | F | DATE Signed | Signe | | | | | Γ | meT | 809 901 901 | pojen; | 0000 | () |
| | | | | | | | | | | | | | | | | TANKA I | | | | | | | 1 | l | | | ; |

| | Offree Sbrc MbDA Bb32 Bb38 Bb38 | | | | | | 1 Wipe/Swab | | U U | Ar All Filler C Air Cassettes | | U Summa Can | | | Matrix | | | | | | DW Drinking Water | | |
|--------------------|---|--|--|--|---|---------|--------------------|--------------------|--|----------------------------------|--------------------|------------------------|--|------------------------|-------------------------|-------------------------------------|--------------------------|---------------------------|---------------------|---------------------------|---------------------------|---------------------|--|
| Profile/EZ # | 8b3E 8b3N 8b3N | | | | | Diactic | 11L NAOH plastic | 1L HNO3 plastic | 11 H2SO4 plastic | 11L NaOH. Zn Acetate | 500mL NAOH plastic | 500mL HNO3 plastic | 500mL H2SO4 plastic | 500mL NaOH. Zn Acetate | 250mL NaOH plastic | 250mL HNO3 plastic - field filtered | 250mL HNO3 plastic | 250mL unpreserved plastic | 250mL H2SO4 plastic | 250mL NaOH, Zn Acetate | 125mL unpreserved plastic | 125mL H2SO4 plastic | 16oz unpresserved plstic |
| | MEDN MEKN | | | | | | BP1B | BP1N | BP1S | BP1Z | BP2B | BP2N | BP2S BP2U | BP2Z | BP3B | BP3F | BP3N | BP3U | BP3S | BP32 | BP4U BP4N | BP4S | WPDU |
| | TGEU VG2U VG32 | | | | | | oil jar | oil jar | 202 clear soil jar 403 unaresonued amber wide | 100mL unores amber glass | ber glass | amber glass | 1L Na Thiosulfate clear/amber glass 1liter unpres amber olass | 500mL HNO3 amber glass | 500mL H2SO4 amber glass | 250mL H2SO4 amber glass | 500mL unpres amber glass | 250mL unpres amber glass | ores amber glass | I UUML UNDRES AMDER GLASS | | | - |
| | VGSU | | | | | | 8oz clear soil jar | 4oz clear soil jar | ZOZ CIERT SOIL JAN | 100mL uno | 1L HCI amber glass | 1L H2SO4 amber | 11L Na Thiosultate | 500mL HN | 500mL H2 | 250mL H2 | 200mL unp | 250mL unp | | | | 2 | 045001 Due Date: 11/18/24 |
| 0 | HIDA UFDA | | | | - | U. | GKU | WGFU | N/GZU | AGOU | AG1H | AG1S | AG1U AG1U | AG2N | AG2S | AG3S | AGZU | AG3U | AG4U | AGOU | | AEC | Date |
| e mo | AG1U AG1H | | | | | | Š | > | | | | 1.1 | 111 | | - 1 | | - | | - | _ | | | |
| ville MO | нгөа | | | | | Glas | WGKU | >. | | | | | | | | | | | | | | UN | 4 |
| ithrille mo | BG3N DG3B | | | | | Glas | | | | | | ed | | | | | | ass | | | | 2000 | 904C |
| Smithnille MO | VG3N VG3N DG3N DG3N | | | | | Glas | | | | | | reserved | | | | | ar glass | lear glass | | | | 0000 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| . 00 | VG30 PG3R DG3R DG3R DG3R DG3R DG3R | | | | | | | | | | | iber unpreserved | | | | | CL Clear glass | npres Clear glass | ar soll jar | | | 0V00 | WO# : 5040404300 |
| site Smithville MO | VG30C VG30C VG30C VG30C VG30C | | | | | Glas | | | | | | ImL amber unpreserved | | | | | NUML HUL Ulear glass | oumL Unpres Clear glass | oz ciear soli jar | | | 5V00 | MO# : 904 |
| . 00 | VG30 PG3R DG3R DG3R DG3R DG3R DG3R | | | | | Glas | | vial | 40mL MeOH clear Vial | vial | | 40mL amber unpreserved | 40mL HCI clear vial 40mL Na Thio. clear vial | vial | | | ZOUML HUL Clear glass | 1250mL Unpres Clear glass | 1002 Clear Soli Jar | | | 0000 | |

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count Effective Date: 7/12/2024 Pace® Analytical Services, LLC

Qualtrax ID: 30422

Page 11 of 25

Page 1 of 1

| | Pace | | | | LAB USE ONLY | | | | | | | | | | tact Y or N |
|-----------|---|-----------------------------------|--|---|--------------------------------|------------------------|---|-------|---|----------|--------------------------------|-----------------------------|-----------------|---|---|
| Cttt9h27 | No 11/13/2024 Results Requested By: | Requested Analysis | | | | | | | | Comments | Ve annual landian gapt 03 coby | 1000-1000 I.M. 000 I.M. 000 | | | Samples Intact Y |
| 27 | Yes ie: | Re | viiznati Xiud | Т | | × | | | | | | | 24 10.27 | | on Ice Y or N |
| | State Of Origin: MO Cert. Needed: | The other states and the | Preserved Containers | | | | | | | | Date/Time | | 11/10 | | Received on Ice |
| | Lstody Rush Multiplier X Samples Pre-Logged into eCOC SMITHVILLE, MO | and the state of the state of the | al Mansfield Ilvd A 02048 322-9300 | | Matrix | 60464507001 Solid 1 | | | | | Received By | FEDEX | 4:X | | Seal Y or N |
| KU VIU KA | Custody Rush Multiplier Samples Pre-Lue: SMITHVILLE, | Subcontract To | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | | Collect Date/Time Lab ID | 11/12/2024 16:00 60464 | | | | | Date/Time Re | 10081 81M | 75:01 45/ 61 11 | | Cooler Temperature on Receipt °C Custody Seal |
| 11 | r Chain of C | | | | Sample Collect Type Date/Ti | PS 11 | | | | | | ine | X | | teceipt °C |
| | Internal Transfer Chain of Custody | | Jennifer Haley Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 | | Sample ID | 24 | | | | | Released By | Carner J | HEDE | | Cooler Temperature on Receipt |
| | Workord | Report To | Jennifer Haley Pace Analytical Kar 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-56 | | Item Samp | 1 11-12-24 | 2 | 4 | 2 | | Transfers | + | 2 | 3 | Cooler T |

100

in order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24March2009



ANALYTICAL REPORT

| Lab Number: | L2467773 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: | Jennifer Haley |
| Phone: | (913) 307-6958 |
| Project Name: | SMITHVILLE, MO |
| Project Number: | 60464507 |
| Report Date: | 12/05/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



| Serial_No:12052413:26 | L2467773 12/05/24 | Receive Date | 11/19/24 |
|-----------------------|----------------------------------|-------------------------|----------------|
| Serial_No | Lab Number: Report Date: | Collection Date/Time | 11/12/24 16:00 |
| | | Sample Location | Not Specified |
| | | Matrix | SOLID |
| | SMITHVILLE, MO :: 60464507 | Client ID | 11-12-24 |
| | Project Name: Project Number: | Alpha Sample ID | L2467773-01 |



Project Name: SMITHVILLE, MO Project Number: 60464507 Lab Number: L2467773 Report Date: 12/05/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Cattlin Wallieht Caitlin Walukevich

Title: Technical Director/Representative

Date: 12/05/24



INORGANICS & MISCELLANEOUS



| Project Name: Project Number: | SMITHVILLE, 60464507 | , MO | | | | | | | L2467773 12/05/24 | |
|---|--|-----------|-------|--------|-------|--------------------|------------------|------------------|---|---------|
| | | | | SAMPLE | RESUL | rs | | | | |
| Lab ID: Client ID: Sample Location: | L2467773-01 11-12-24 Not Specified | | | | | | | Received: | 11/12/24 16:00 11/19/24 Not Specified |) |
| ' Sample Depth: Matrix: | Solid | | | | | | | · | · | |
| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
| eneral Chemistry - We | stborough Lab | | | | | | | | | |
| ensity | 1.10 | | SU | 0.100 | | 1 | - | 12/02/24 03:3 | 5 12,D1475 | DEW |



| 13:26 |
|--------|
| 20524 |
| L_No:1 |
| Seria |

| SMITHVILLE, N | 60464507 |
|---------------|------------------------|
| Project Name: | Project Number: |

| Analysis | Control |
|---------------|---------------|
| Lab Duplicate | Batch Quality |

| L2467773 | 12/05/24 |
|-------------|--------------|
| Lab Number: | Report Date: |

| Nativ | /e Sample | Duplicate San | Duplicate Sample Units | |) Qual | RPD Qual RPD Limits |
|---|-----------------|---|------------------------|-------------|--------------|---------------------|
| ieneral Chemistry - Westborough Lab Associated sample(s): | 01 QC Batch ID: | QC Batch ID: WG2003829-1 QC Sample: L2467109-01 Client ID: DUP Sample | QC Sample: | L2467109-01 | Client ID: D | UP Sample |
| | 1.20 | 1.24 | SU | σ | l | |



SMITHVILLE, MO Project Number: 60464507 Project Name:

Lab Number: L2467773 Serial_No:12052413:26 Report Date: 12/05/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Present/Intact Cooler ∢

Container ID Container Type **Container Information**

Plastic 250ml unpreserved L2467773-01A

Frozen Date/Time Present/Intact Final Temp pH degC Pres Seal ≻ 5.4 Initial ^I Cooler pH F

AN

∢

DENSITY()

Analysis(*)



*Values in parentheses indicate holding time in days

Project Number: 60464507

Lab Number: L2467773

Report Date: 12/05/24

GLOSSARY

Acronyms

| / lor on yme | |
|--------------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |



Project Number: 60464507

Lab Number: L2467773

Report Date: 12/05/24

Footnotes

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.



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Project Number: 60464507

Serial_No:12052413:26

Lab Number: L2467773

Report Date: 12/05/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



Project Name: SMITHVILLE, MO Project Number: 60464507

 Lab Number:
 L2467773

 Report Date:
 12/05/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| Serial_No:12052413:26 | 0 | Results Requested By: 11/27/2024 | | | | LAB USE ONLY | | | | | | Comments | 20.5284 | | | | Samples Intact Y or N | |
|-----------------------|---|---|--|--|------------------------|--------------------------------|------------------------------|------------|---|---|---|---|----------------------------------|---|---------------|----|-------------------------------|--------|
| LEY67773 | | No 11/13/2024 Re | Requested Analysis | | _ | | | | | | | | KS sample location: 6091-R2-S284 | I HOLD SAMPLING AND A LONG IN | | | Z | |
| | | State Of Origin: MO Cert. Needed: Yes Owner Received Date: | | vītsnatī v | Т | | × | | | | | | Date/Time KS st | 64 - 14 - 14 - 14 - 14 - 14 - 14 - 14 - | 1/11/24 10:27 | _ | Received on Ice Y or | |
| | | State Of Origi Cert. Needed: Owner Receiv | States and and and and and and and and and and | | Preserved Containers | | | | | | | | ä | | 14 | | Receiv | |
| | Letter X Rush Multiplier X Samples Pre-Logged into eCOC SMITHVILLE, MO | X ed into eCOC | X ed into eCOC ansfield | X ed into eCOC | ansfield 048 300 | | Matrix | 11 Solid 1 | | | | | | ed By | FEDEX | 2. | | Y or N |
| 11 hany | | Nuttiplier Multiplier More Pre-Logg HVILLE, MC tract To | itody Ish Multiplier mples Pre-Logo MITHVILLE, MC contract To Pace Analytical M 320 Forbes Blvd Manofield MA 07 | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | | Lab ID | 11/12/2024 16:00 60464507001 | | | | | [| e Received By | 1800 | 10:01 ht | | Custody Seal | |
| | of Custo | Rush Samp ame: SMIT | Subcontract To | Pac 320 Mar Pho | | Collect Date/Time | 11/12/2024 16: | | | | | | Date/Time | 0081 SIM | 161/10 | | °C | |
| 1 | Chain c | Workorder Name: | | | | Sample Collect Type Date/Ti | PS | | | | - | National Second | | 2 | ~ | | ceipt | |
| | Internal Transfer Chain of Custody | Workorder: 60464507 V | | ey ical Kansas Blvd. 66219)599-5665 | | 0 | | | | | | and the second se | Released By | Carnen Ju | HEDEN | | Cooler Temperature on Receipt | |
| | Interné | Workorder | Report To | Jennifer Haley Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 | | Item Sample ID | 11-12-24 | ~ | 6 | 4 | 5 | | Transfers | + | 2 | 0 | Cooler Tet | |

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***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

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December 05, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO Pace Project No.: 60464510

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2024. 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 - Kansas City

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

Sincerely,

Semper Haley

Jennifer Haley jennifer.haley@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: SMITHVILLE, MO Pace Project No.: 60464510

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project: SMITHVILLE, MO Pace Project No.: 60464510

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60464510001 | 11-11-24 | Solid | 11/11/24 16:00 | 11/13/24 12:09 |



SAMPLE ANALYTE COUNT

Project: SMITHVILLE, MO Pace Project No.: 60464510

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60464510001 | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO

Pace Project No.: 60464510

| Sample: 11-11-24 Results reported on a "dry weigh | Lab ID: 6046 at" basis and are adju | | Collected: 11/11/2 | | | | latrix: Solid | |
|--|--|-------|--------------------|----|----------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Meth Pace Analytical | | | | | | | |
| Percent Moisture | 86.2 | % | 0.50 | 1 | | 11/14/24 11:45 | | |
| 2540G Total Percent Solids | Analytical Meth Pace Analytical | | | | | | | |
| Total Solids | 13.8 | % | 0.10 | 1 | | 11/14/24 11:45 | | |



QUALITY CONTROL DATA

| Project: SMITHVILLE Pace Project No.: 60464510 | E, MO | | | | | |
|---|----------|--------------|--------------|---------------------|---------------|------------|
| QC Batch: 916387 | | Analysis Met | hod: SN | / 2540G | | |
| QC Batch Method: SM 2540G | i | Analysis Des | cription: 25 | 40G Total Solids | | |
| | | Laboratory: | Pa | ace Analytical Serv | ices - Kansas | City |
| Associated Lab Samples: 604 | 64510001 | | | | | |
| METHOD BLANK: 3628176 | | Matrix: | Solid | | | |
| Associated Lab Samples: 604 | 64510001 | | | | | |
| | | Blank | Reporting | | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers | |
| Total Solids | % | ND | 0.10 | 11/14/24 11:43 | | |
| SAMPLE DUPLICATE: 362817 | 7 | | | | | |
| | | 60464454001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 35.4 | 35.2 | 1 | 8 | |
| SAMPLE DUPLICATE: 362817 | 8 | | | | | |
| | | 60464471001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 19.4 | 19.4 | 0 | 8 | |

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.



QUALIFIERS

Project: SMITHVILLE, MO

Pace Project No.: 60464510

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SMITHVILLE, MO Pace Project No.: 60464510

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60464510001 | 11-11-24 | ASTM D2974 | 916390 | | |
| 60464510001 | 11-11-24 | SM 2540G | 916387 | | |

| с х | | | WO#:60464510 |
|---|----------------------|--------|---|
| Pace DC#_Title: ENV-FRM | 1-LENE-000 | 9_San | |
| Revision: 2 | ffective Date: | 01/12/ | 2022 Issued By: Lenexa |
| Client Name: Hodges Farms 4 | Dredgir | | |
| Courier: FedEx UPS VIA Clay D | | | Pace Xroads Client Other |
| Tracking #:P | ace Shipping L | | |
| Custody Seal on Cooler/Box Present: Yes D No | Seals inta | | |
| Packing Material: Bubble Wrap Bubble Bags | s 🗆 🛛 F | oam 🗆 | None 🗐 🖉 Other 🗆 |
| 10 14 45 | of Ice: Wet | Blue N | |
| | ctor | Corre | cted 19.4 CJ Date and initials of person examining contents: CJ /// |
| Temperature should be above freezing to 6°C 16.7 | | | 18.6 |
| Chain of Custody present: | Yes DNc | | time/ date not on container |
| Chain of Custody relinquished: | | □n/A | 1 |
| Samples arrived within holding time: | Yes No | □n/A | |
| Short Hold Time analyses (<72hr): | Yes VNo | □n/a | |
| Rush Turn Around Time requested: | Ves DNo | □n/a | |
| Sufficient volume: | Ves 🗆 No | | |
| Correct containers used: | Yes INO | | |
| Pace containers used: | Yes DNo | | |
| Containers intact: | 1 | | |
| | Yes No | | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | Yes No | DIN/A | |
| Filtered volume received for dissolved tests? | Yes No | ØN/A | |
| Sample labels match COC: Date / time / ID / analyses | PYes DNo | □n/A | |
| Samples contain multiple phases? Matrix: SL | Yes No | □n/A | |
| Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) | □Yes □No | | List sample IDs, volumes, lot #'s of preservative and the date/time added. |
| (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT# | | | |
| Cyanide water sample checks: _ead acetate strip turns dark? (Record only) | | | |
| Potassium iodide test strip turns blue/purple? (Preserve) | □Yes □No □Yes □No | | |
| Frip Blank present: | | - | |
| leadspace in VOA vials (>6mm): | | INIA | · |
| 21 101 | Yes No | []îN/A | |
| Samples from USDA Regulated Area: State: MO | | □n/A | |
| Additional labels attached to 5035A / TX1005 vials in the field? Client Notification/ Resolution: Copy COC to | | ØN/A | |
| Person Contacted: Date/T | | N | Field Data Required? Y / N |
| Comments/ Resolution: | | | |

Project Manager Review:

Date:

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| | Anal |
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| 1 | 10 |
| 6 | 7 |
| 4 | 1 |
| | 1 |

CHAIN-OF-CUSTODY / Analytical Request Document (004んイズの

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

| Address: | nouges raims and Dredoing | Report To: | Anna C | Report To Accor Contractor | | | | Invoid | Invoice Information: | tion: | | | | | | | | Pana. | . | | |
|---------------------------------|--|---------------------|----------------------------|------------------------------|----------------|------------------------|------------------|----------------------------|---|-----------------|---------------------------|---------|--------------------------|-------------------|---------------|-----------------------------------|------------------------|------------------|--|---------------------------|-----------|
| | FOI N Mast Street | | LIOIPC | Allon Gruenewald/Jeff Hodges | d/Jeff Hoc | Sag | | Attention: | tion; | | | | | Γ | | | _ | | - | 1 0 | * |
| | eho KS George | Copy to: | | | | | | Comp | Company Name; | | | | | | | | | | | | |
| CLIMET IN | 100 miles | | | | | | | Address. | 35 | | | | | | REGULA | REGULATORY AGENCY | GENCY | | | | |
| | DIDIE | Purchase Order No.: | rder No.: | | | | | Pace 0 | note | | | | | T | NPDES | | GROUNE | GROUND WATER | 1_ | DRINKING WATER | VATER |
| Phone: 92 | | Project Name: | | Smithville, MO | 0 | | | Reference: Pace Project | roject | | | | | | L UST | L | RCRA | | L | OTHER | |
| Requested | Roquested Due Date/TAT: RUSH | Project Number. | ber. | | | | | Manag Pace P | Manager. Pace Profile #: | | | | | 1 | Site Location | ation | OW | | and the second s | A CONTRACT | |
| ł | | | | | | | | - | | | | | | - | ST. | STATE: | | 1250 | | | 加いた |
| Sec | Section D Valid Matrix Codes | bdes | - | | | | | F | | | | _ | Reque | sted An | alysis (| Requested Analysis Filtered (Y/N) | INIA | | | | |
| | - | CODE BW | | | COLLECTED | CTED | | | 9 | Preservatives | ives | N/A | | | _ | | | | | | |
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| 27 | | | | | SIC | SIGNATURE of SAMPLER: | SAMPLER: | | | | | DA | DATE Signed | | | | | /9092 |) eol | 19/00 | eelqm |

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| | Line item BG30 DG90 D | Page 11 of 27 |

Pace® Analytical Services, LLC

Page 1 of 1

| | Tain of Custody Rush Multiplie: X State Of Origin: MO Order Name: Samples Pre-Logged into eCOC Cert. Needed: Yes Submitter To Submitter To Owner Received Date: 11/13/2024 Results Requested By Submitter To Submitter To Owner Received Date: 11/13/2024 Results Requested By Submitter To Submitter To Decentation Requested By Submitter To Submitter To Decentation Requested By Submitter To Determine Requested Anysis Connents Submitter To Determine Requested Anysis Connents Marsfield MA 02048 Preserved Containers Built Requested Anysis Connents Marsfield MA 02048 Preserved Containers Built Requested Anysis Connents Marsfield MA 02048 Preserved Containers Built Requested Anysis Connents Marsfield MA 02048 Antick Annot Solid Another Anysis Connents Marsfield MA 02048 Another Anysis Connents Connents Marsfield MA 02048 Another Anysis Connents Connents Marsfield MA 0204 Another Anysis Connents Connents Partine Received By Another Anysis Connents Partine </th <th></th> <th></th> <th></th> <th></th> <th>52/61/11</th> <th>7</th> <th></th> <th></th> <th></th> <th>96229627</th> <th>9Ett</th> <th></th> | | | | | 52/61/11 | 7 | | | | 96229627 | 9Ett | |
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5

and signature may not be provided on this COC document.

Monday, November 18, 2024 2:29:46 PM

FMT-ALL-C-002rev.00 24March2009

This chain of custody is considered complete as is since this information is available in the owner laboratory.

ş





ANALYTICAL REPORT

| Lab Number: | L2467776 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: | Jennifer Haley |
| Phone: | (913) 307-6958 |
| Project Name: | SMITHVILLE, MO |
| Project Number: | 60464510 |
| Report Date: | 12/05/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



| Serial_No:12052413:25 | L2467776 12/05/24 | Receive Date 11/19/24 | |
|-----------------------|----------------------------------|--|--|
| Serial_No | Lab Number: Report Date: | Collection Date/Time 11/11/24 16:00 | |
| | | Sample Location Not Specified | |
| | | Matrix SOLID | |
| | SMITHVILLE, MO : 60464510 | Client ID 11-11-24 | |
| | Project Name: Project Number: | Alpha Sample ID L2467776-01 | |





Project Name: SMITHVILLE, MO Project Number: 60464510 Lab Number: L2467776 Report Date: 12/05/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Cattlin Wallieht Caitlin Walukevich

Title: Technical Director/Representative

Date: 12/05/24



INORGANICS & MISCELLANEOUS



| Project Name: Project Number: | SMITHVILLE 60464510 | E, MO | | | | | | lumber: rt Date: | L2467776 12/05/24 | |
|----------------------------------|-------------------------|-----------|-------|--------|-------|--------------------|------------------|---------------------|----------------------|---------|
| | | | | SAMPLE | RESUL | rs | | | | |
| Lab ID: | L2467776-0 ⁻ | 1 | | | | | Date (| Collected: | 11/11/24 16:00 |) |
| Client ID: | 11-11-24 | | | | | | Date I | Received: | 11/19/24 | |
| Sample Location: | Not Specifie | d | | | | | Field I | Prep: | Not Specified | |
| Sample Depth: | | | | | | | | | | |
| Matrix: | Solid | | | | | | | | | |
| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
| eneral Chemistry - We | stborough Lab |) | | | | | | | | |
| ensity | 1.00 | | SU | 0.100 | | 1 | - | 12/02/24 03:3 | 5 12,D1475 | DEW |



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| Serial_ |

| Project Name: | SMITHVILLE, MO |
|-----------------|----------------|
| Project Number: | 60464510 |

Lab Duplicate Analysis Batch Quality Control

 Lab Number:
 L2467776

 Report Date:
 12/05/24

| Parameter | Native Sample | Duplicate Sample | iple Units | RPD | Qual | RPD Qual RPD Limits | |
|--|---|------------------|---------------|------------|---------------|---------------------|--|
| General Chemistry - Westborough Lab Associated sample(s) | sample(s): 01 QC Batch ID: WG2003829-1 QC Sample: L2467109-01 Client ID: DUP Sample | WG2003829-1 | QC Sample: L2 | 2467109-01 | Client ID: DI | JP Sample | |
| Density | 1.20 | 1.24 | SU | e | | | |
| | | | | | | | |



SMITHVILLE, MO Project Number: 60464510 Project Name:

Lab Number: L2467776 Serial_No:12052413:25 Report Date: 12/05/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Present/Intact Cooler ∢

Container ID Container Type **Container Information**

Plastic 250ml unpreserved L2467776-01A

∢

Frozen Date/Time Present/Intact Final Temp pH degC Pres Seal ≻ 5.4 Initial ^I Cooler pH F AN

DENSITY()

Analysis(*)



*Values in parentheses indicate holding time in days

Project Name: SMITHVILLE, MO

Project Number: 60464510

Lab Number: L2467776

Report Date: 12/05/24

GLOSSARY

Acronyms

| / lor on yme | |
|--------------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |
| | |

Report Format: Data Usability Report



Project Name: SMITHVILLE, MO

Project Number: 60464510

Lab Number: L2467776 Report Date: 12/05/24

Footnotes

| 1 | | |
|---|--|--|

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: SMITHVILLE, MO

Project Number: 60464510

Serial_No:12052413:25

Lab Number: L2467776

Report Date: 12/05/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report



Project Name:SMITHVILLE, MOProject Number:60464510

 Lab Number:
 L2467776

 Report Date:
 12/05/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

| 376 Serial_No:12052413:25 | X No Pacific Bounded Bur 1113/0024 | | | | | LAB USE UNLT | | | | | Comments | AP-S2BA | | | | Samilas Intrat V an V |
|---------------------------|---|-----------------|--|----------------------|----------------------|------------------------------|---|---|---|---|-------------|----------------------------------|----------|----------------|---|--------------------------------------|
| っとせっトンフ | 10 | | | | | | | | | | | KS sample location: 6091-82-S284 | | N | | or N |
| | State Of Origin: MO Cert. Needed:Yei Owner Received Date: | | Viensity | Preserved Containers | | > | < | | | | | Date/Time | | 11/11/24 10.27 | | Received on Ice Y |
| hr y | X ged into eCOC | at not a second | Mansfield 2048 9300 | Preserv | Matrix | Solid | | | | | | ed By | FUEX | 1.S | | Y or N |
| 52/61/11 | Custody Rush Multiplier X Samples Pre-Logged into eCOC e: SMITHVILLE, MO | Subcontract To | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | | Collect Lab ID | 11/11/2024 16:00 60464510001 | | | | | | Date/11me Keceived By | W18 1800 | 11/10/24 10:27 | | Custody Seal |
| | r Chain of C | allel and a | | | Sample Co Type Da | PS 11/ | | | | | | | The | 2 | | ceipt °C |
| | al Transfe | 0 | Jennifer Haley Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 | | Sample ID | 1-24 | | | | | Relesced Bu | T | C - MAN | y tell | | Cooler Temperature on Receipt |
| | Inter Workor | Report To | Jennifer Haley Pace Analytical M 9608 Loiret Blvd. Lenexa, KS 662 Phone (913)599- | - | Item Sam | 1 11-11-24 | 2 | m | 4 | 5 | Transfors | | _ | 2 | 2 | Cooler |

5

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

Monday, November 18, 2024 2:29:46 PM

| (| SHIP DATE: 18NOV24 CACTUG1: 15:00.LB MAU CADD: 0456433(CAFE3308 DIMS: 12x11x11x10 BILL SENDER BILL SENDER | | UE - 19 NOV 10:309 PRIORITY OVERNIGHT 02048 na-us BOS | |
|---|---|--|--|--|
| | ORIGIN ID. IXON (913) 569-5665 BALE PPING DEPARTMENT BAGE LOIKET BLVD LENEXA, KS 652192406 UNITED STRIES US UNITED STRIES US PACE ALPHA PACE ALPHA 320 FORBES BOULEVARD | MANSFIELD MA 02048 (509) 822-9303 DEPT: CLIENT SERVICES III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | NE PYMA | |



December 03, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO Pace Project No.: 60464745

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2024. 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 - Kansas City

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

Sincerely,

Semper Haley

Jennifer Haley jennifer.haley@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: SMITHVILLE, MO Pace Project No.: 60464745

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project:SMITHVILLE, MOPace Project No.:60464745

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60464745001 | | Solid | 11/14/24 16:00 | 11/15/24 13:02 |



SAMPLE ANALYTE COUNT

Project: SMITHVILLE, MO Pace Project No.: 60464745

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60464745001 | 11-14-24 | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO

Pace Project No.: 60464745

| Sample: 11-14-24 Results reported on a "dry weigh | Lab ID: 6046 nt" basis and are adju | | Collected: 11/14/2 rcent moisture, sa | | Received: 11 ze and any dilu | | latrix: Solid | |
|--|--|------------|--|---------|---------------------------------|----------------|---------------|------|
| Parameters | Results | , Units | Report Limit | , DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Meth Pace Analytical | | | | | | | |
| Percent Moisture | 76.9 | % | 0.50 | 1 | | 11/18/24 11:57 | | |
| 2540G Total Percent Solids | Analytical Meth Pace Analytical | | | | | | | |
| Total Solids | 23.1 | % | 0.10 | 1 | | 11/18/24 11:57 | | |



QUALITY CONTROL DATA

| Project: SMITHVILLE | , MO | | | | | |
|------------------------------|---------|---------------|--------------|----------------------|----------------|------------|
| Pace Project No.: 60464745 | | | | | | |
| QC Batch: 916815 | | Analysis Meth | nod: SN | A 2540G | | |
| QC Batch Method: SM 2540G | | Analysis Des | cription: 25 | 40G Total Solids | | |
| | | Laboratory: | Pa | ace Analytical Servi | ces - Kansas C | City |
| Associated Lab Samples: 6046 | 4745001 | | | | | |
| METHOD BLANK: 3630202 | | Matrix: | Solid | | | |
| Associated Lab Samples: 6046 | 4745001 | | | | | |
| | | Blank | Reporting | | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers | _ |
| Total Solids | % | ND | 0.10 | 11/18/24 11:56 | | |
| SAMPLE DUPLICATE: 3630203 | 3 | | | | | |
| | | 60464561001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 3.4 | 3.4 | 1 | 8 | |
| SAMPLE DUPLICATE: 3630204 | 4 | | | | | |
| | | 60464696001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 3.7 | 3.7 | 0 | 8 | |
| SAMPLE DUPLICATE: 3630205 | 5 | | | | | |
| | | 60464745001 | Dup | | Max | |
| Parameter | Units | Result | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 23.1 | 23.0 | 0 | 8 | |

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.



QUALIFIERS

Project: SMITHVILLE, MO

Pace Project No.: 60464745

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SMITHVILLE, MO Pace Project No.: 60464745

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60464745001 | 11-14-24 | ASTM D2974 | 916818 | | |
| 60464745001 | 11-14-24 | SM 2540G | 916815 | | |

| | | WO#:60464745 |
|--|----------------------|--|
| | | |
| Pace DC#_Title: ENV-FRM-LE | ENE-0009_Sample | 60464745 |
| AWALYTICAL SERVICES Revision: 2 Effect | ive Date: 01/12/2022 | Issued By: Lenexa |
| Client Name: Houges Farms J Dr | edancy | |
| Courier: FedEx UPS VIA Clay PE | X 🗆 🛛 ECI 🗆 🛛 Pa | ace Circads Client & Other |
| Tracking #: Pace | Shipping Label Used? | Yes 🗆 No 🗗 |
| Custody Seal on Cooler/Box Present: Yes D No D | Seals intact: Yes 🗆 | No C |
| Packing Material: Bubble Wrap Bubble Bags | Foam 🗆 | None 🗹 Other 🗆 |
| Thermometer Used: <u>b99</u> Type of lo | | C C Date and initials of person |
| Cooler Temperature (°C): As-read <u>5.9</u> Corr. Factor | Corrected | <u>D. B</u> examining contents: |
| Temperature should be above freezing to 6°C | | AF 11/12 |
| Chain of Custody present: | | |
| Chain of Custody relinguished: | | |
| Samples arrived within holding time: | | |
| Short Hold Time analyses (<72hr): | | |
| Rush Turn Around Time requested: | | 3 [] / + (1 / +) - |
| Sufficient volume: | | |
| Correct containers used: | | |
| Pace containers used: | | |
| Containers intact: | | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | | |
| Filtered volume received for dissolved tests? | | |
| Sample labels match COC: Date / time / ID / analyses | Tes INO IN/A | |
| Samples contain multiple phases? Matrix: | | |
| Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: | | t sample IDs, volumes, lot #'s of preservative and the te/time added. |
| Cyanide water sample checks: Lead acetate strip turns dark? (Record only) | □Yes □No | |
| Potassium iodide test strip turns blue/purple? (Preserve) | | |
| Trip Blank present: | | |
| Headspace in VOA vials (>6mm): | | |
| Samples from USDA Regulated Area: State: | | |
| | | |
| Client Notification/ Resolution: Copy COC to C | lient? Y / N | Field Data Required? Y / N |
| Person Contacted: Date/Tim Comments/ Resolution: | ne: | _ |
| | | |

Project Manager Review:

Date:

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Pace Analytical | | | The Chain-o | The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. | EGAL DC | CUMENT | . All relevant | fields mu | st be co | mpleted | accurate | γ. | | 10 | ONO. | 64745 | Ś |
|--|---|-------------------------------|----------------------------|---|--------------------------|------------------|--|---------------------------|--------------------------------|-------------------|----------------------|-----------------|-----------------------------------|--------------|---------------------------|-------------------|----------------------------|
| Section A Required Client Information: | Section B Required Project Information: | ormation: | | | Section C | C | | | | | | | | | Page: 1 | ď | - |
| Company: Hodges Farms and Dredging | Report To: Aaron Gruenewald/Jeff Hodges | Gruenewald/Jeff | Hodges | | Attention: | | | | | | Г | | | 1 | | | |
| Address: 501 N. West Street | Copy To: | | | | Company Name | Name: | | | | | REC | ULATO | REGULATORY AGENCY | ζ | | | |
| Lebo, KS 66856 | | | | | Address: | | | | | | L | NPDES | 5 | GROUND WATER | ATER 1 | DRINKIN | DRINKING WATER |
| Email To: agruenewald@hodgesfd.com | Purchase Order No.: | | | | Pace Quote Reference: | | | | | | L | UST | ľ" Š | RCRA | L., | OTHER | |
| Phone: 920-373-8715 Fax: | Project Name: S | Smithville, MO | | | Pace Project Manager: | # | | | | | N. | Site Location | E | 9 | | | |
| Requested Due Date/TAT: RUSH | Project Number. | | | | Pace Profile | ÷#; | | | | | - | STATE: | 1 | Q | | | |
| | | | | | | | | F | Re | queste | d Anal | ysis Fil | Requested Analysis Filtered (Y/N) | | | のないよう | A REAL PROPERTY |
| Section D Valid Matrix Codes Required Client Information MATRIX COI | (fiei) | | COLLECTED | | _ | Pres | Preservatives | 1 N /A | | | | | | | | | |
| DRANKING WATER WASTE WASTE WASTE WASTE OF TEN PRODUCT SOLUSOUD | W W W W W W S C S C S C S C S C S C S C S C S C S C | RAB C=CON | tT COMPOSITE END/GRAB | | | | | | | | | | | | (N/A) | | |
| SAMPLE ID WILL (A-Z, 0-9 / ,-) OTHER Sample IDs MUST BE UNIQUE TISSUE | CODE (800 | | | TEMP AT CO | NTAINERS 9176d | | | | iseT sis IeM \ siste | | osbyouns e | | e Neutraliz | | eninold) la | | |
| # MƏTİ | XIATAM | DATE | TIME DATE | TIMPLE TIMPLE | # OF CO | [®] ONH | N ^{gS} 2 ^S 0 N ^g OH HCI | Methano Other | W 0109 | unimulA muibo8 | Chloride Total Pl | Total Sc TKN | Bulk De PH Effective | | | ce Project | Pace Project No./ Lab I.D. |
| 42-41-11 F | SL | C M/H/24 80 | 8:00 11 14 2.4 | 16:00 | - × | | | T | | | | × | × | | | | |
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| 11 | | | - | | | | | T | 1 | - | - | | + | + | | | |
| 12 ADDITIONAL COMMENTS | RELIN | RELINQUISHED BY / AFFILIATION | LIATION A | DATE | TIME | 1_ | ACI - | ACCEPTED BY / AFFILIATION | IV I AFF | LIATION | | DATE | TIME | | 3 | SAMPLE CONDITIONS | ITIONS |
| *Collect Fecal Coliform samples after 10:00am | - Aller | Nicha | acg of | 11 15/24 | 1:0 | 2 | | / | 2 | 1 | 1 | 1-11 | 5/130 | 3025 | 508 | | |
| For metals/nutrients, leave at least 1 inch of headspace in containers for off-gassing | | | | - | | | | | | | | | | | | _ | |
| Pe | | | | | | | | | | | | | | | | | |
| ge 1 | | Ś | SAMPLER NAME AND SIGNATURE | ND SIGNATU | W | | | | | | | | | Т | uo pe | oelse2 | |
| 0 of 29 | | | SIGNATURE | PRINT Name of SAMPLER: SIGNATURE of SAMPLER: | <i>N N</i> | | | | Yd I | DATE Signed | P è | | | T | qmeT Viecelv () ect | Cooler | elqma2 \Y) |
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| Glass Glass A 40mL bisulfate clear vial WGKU 8oz clear soil jar BP1B A 40mL Holunfate clear vial WGKU 8oz clear soil jar BP1B A 40mL HOL amber voa vial WGKU 8oz clear soil jar BP1B A 40mL HOL amber voa vial WGKU 4oz unpreserved amber vial BP1B A 40mL HOL amber vial WGFU 4oz unpreserved amber vial BP1B A 40mL HZSO4 amber vial JGFU 4oz unpreserved amber glass BP1C A 40mL HZSO4 amber vial JGFU 4oz unpreserved amber glass BP1C A 40mL Ma Thio amber vial AG1H 11 HCl amber glass BP2S A 0mL HZSO4 amber vial AG1S 11 HZO4 amber glass BP2S A 0mL unpreserved AG1S 11 LNa Thiosuffate clear/amber glass BP2U A 0mL unpreserved AG1U 100mL unpres amber glass BP3Z 1 litter unpress AG2S 500mL HNO3 amber glass BP3Z 250mL Unpress AG3U 250mL unpress amber glass BP3Z 250mL Unpress AG3U 250mL unpress amber glass BP3Z 1 litter unpress AG3U 250mL unpress amber glass BP3Z 250mL Unpress AG3U 250mL unpress amber glass BP3Z 1 boz clea | | | |
| Glass Class A0mL bisulfate clear vial WGFU A0mL HCI amber vial MGFU A0mL LSP amber vial MGEU A0mL LSP amber vial MGEU A0mL LSP amber vial A0mL LSP amber vial A0mL LSP amber vial A0mL Na Thio amber vial A0mL LSO4 amber glass BP2B A0mL L Clear vial A0mL L Clear vial A0mL L IL Na Thio suffate clear/amber glass BP2N 40mL Na Thio clear vial A0mL Na Thio clear vial <th colspan<="" td=""><td></td><td></td></th> | <td></td> <td></td> | | |
| Glass Indicate clear vial WGKU Boz clear soil jar BP1B 40mL bisulfate clear vial WGKU Boz clear soil jar BP1B 1 40mL HCI amber voa vial WGKU Boz clear soil jar BP1B 1 40mL HCI amber vial WGFU 4oz clear soil jar BP1B 2 40mL HZSO4 amber vial WGZU 2oz clear soil jar BP1S 40mL Na Thio amber vial JGFU 4oz unpreserved amber wide BP1U 40mL Na Thio amber vial AG1H 1L HCI amber glass BP2B 40mL Na Thio clear vial AG1 1L HZSO4 amber glass BP2B 40mL Na Thio. clear vial AG1 1L HZSO4 amber glass BP2V 40mL Na Thio. clear vial AG1 1L Na Thiosulfate clear/amber glass BP2V 40mL Unpreserved clear vial AG2V 500mL HZSO4 amber glass BP2V 11iter unpres glass AG2U 500mL HZSO4 amber glass BP3V 250mL HCI Clear glass AG3U 500mL unpres amber glass BP3V 250mL HCI Clear glass AG3U 250mL unpres amber glass BP3V 250mL Unpres Clear glass </td <td></td> <td></td> | | | |
| 40mL bisulfate clear vial WGKU 8oz clear soil jar BP1B 40mL HCl amber voa vial WGFU 4oz clear soil jar BP1N 40mL HCl amber voa WGFU 4oz clear soil jar BP1S 40mL TSP amber vial WGFU 2oz clear soil jar BP1S 40mL HSSO4 amber vial JGFU 4oz unpreserved amber wide BP1S 40mL H2SO4 amber vial JGFU 4oz unpreserved amber wide BP1U 40mL H2SO4 amber vial AG1H 11 HCl amber glass BP2B 40mL H2SO4 amber vial AG1S 11 H2SO4 amber glass BP2B 40mL Na Thio amber vial AG1 11 HCl amber glass BP2B 40mL H2SO4 amber vial AG1 11 L Na Thiosulfate clear/amber glass BP2V 40mL unpreserved AG1 11 Itter unpres amber glass BP2V 11iter Unpres glass AG2U 500mL unpres amber glass BP3V 250mL HCL Clear glass AG3U 250mL unpres amber glass BP3V 250mL Unpres Clear glass AG3U 250mL unpres amber glass BP3V 11iter unpres amber glass BP3V AG4U 125mL unpres amber glass BP3V 250mL Unpres Clear glass AG3U 250mL unpres amber glass BP3S 16oz clear soil jar AG4U | Mar44 | | |
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| IzbumL Unpres Clear glass AG3U 250mL unpres amber glass BP3U J 16oz clear soil jar AG4U 125mL unpres amber glass BP3S AG5U 100mL unpres amber glass BP3Z BP3Z | | | |
| 1002 clear soll jar AG4U 125mL unpres amber glass BP3S BP3S BP3Z BP3Z | | _ | |
| 100mL unpres amber glass BP3Z | | | |
| | | WP Wipe | |
| | | DW Drinking Water | |
| BP4N 125mL F BP4S 125mL F | N 125mL HNO3 plastic | | |
| | | | |

Qualtrax ID: 30422

Pace® Analytical Services, LLC

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| | | | | | | | | | 11/22/11 | 24 | 7 | 11/22/24 12468793 | | 0 |
|-------------------------------------|--|-----------------------------------|-----------------------------------|--|---------------------------------|---------------------------|------------------------|--|---|------------|--------------|--|------------------|----------------|
| Inte | fer | Chain o | | Rush Multiplier X Samples Pre-Logged into eCOC | x X | 0 eCOC | | State Of Origin Cert. Needed: Owner Receiv | State Of Origin: MO Cert. Needed: 7e Owner Received Date: | Yes te: | X No | X No 11/15/2024 Results Requested By: | quested By: | Pace 12/3/2024 |
| Worl | ler: 60464745 | Workorder Name: | No. | SMITRVILLE, MO | | | | | H | | Request | Requested Analysis | | 1 |
| Jennifer H Pace Ana 9608 Loin | Report to Jennifer Haley Pace Analytical Kansas 9608 Loiret Blvd. | | Pace 320 Man | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | Mansfiel 1 02048 -9300 | p | | | | | | | | |
| Phon | Lenexa, KS 66219 Phone (913)599-5665 | | | | | | | | viisne0 alu | | | | | |
| | | | | | | 4 | Preserve | Preserved Containers | П | | _ | | | |
| | | Sample | Collect Date/Time | Lab ID | | Matrix | peurstuduj | | _ | | | | _ | LAB USE ONLY |
| Item 1 | 11-14-24 - OI | PS | 11/14/2024 16:00 | _ | | Solid | - | | × | | | | | |
| 5 | | | | | 1 | | + | + | + | + | + | | | |
| | | | | | 1 | T | | | | | | | | |
| 4 10 | | | | | | | | _ | - | - | | Comments | ents I | |
| | | | Date/Time | | Received By | | | Date | Date/Time | KS sar | nole locatio | KS sample location: 6091:24-S2B2 | | |
| Tran | Transfers Keleased by | | 10/ 1 | S | 1 | tDE | A | | 11 | | | | | |
| 5 | Fu | DRX | 1/11/1 | 10. A | N | - | | 11 | 22/29 10 | 0:30 | | | | |
| 3 | | | 1 | Totadu Su | > lea | or N | F | Receive | Received on Ice | Y or | z | Samp | Samples Intact Y | or N |
| S | Cooler Temperature on Receipt | sceipt | 2 | Custoay sear | cai - | 5 | | | | 100 | in more | dad an this CO | C document. | |
| Ul | ***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this of our second s | confidentiality considered con | y, location/nai mplete as is s | me of the s since this in | sampling | g site, sai ion is ava | mpler's n ilable in | ame and the owner | signature i laboratory | nay not | no bion | | | |

Thursday, November 21, 2024 11:24:36 AM

FMT-ALL-C-002rev.00 24March2009

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Page 1 of 1

Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 INTER_LABORATORY WORK ORDER # 60464745

(To be completed by sending lab)

| 60464745 | Sending Project No: |
|-----------|-------------------------------------|
| | Receiving Project No. |
| | Check Box for Consolidated Invoice: |
| 11/21/24 | Date Prepared |
| 12/3/2024 | REQUESTED COMPLETION DATE: |

 Sending Region
 IR60-Kansas
 Sending Project Mgr.
 Jennifer Haley

 Receiving Region
 \$880
 External Client
 Hodges Farms & Dredging LLC

 State of Sample Origin
 MO
 QC Deliverable
 STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight? Dry Weight IRWO Lab Need to run? Cert. Needed NO

| Met | thod Description | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
|-----|------------------|----------------|---------------------------|--------------|------------------------|-----------|--------------|
| | Bulk Density | BP3U | 1 | Unpreserved | 1 | SI-21WET0 | SUB PASI WTA |

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes X No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.



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ANALYTICAL REPORT

| Lab Number: | L2468993 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: | Jennifer Haley |
| Phone: | (913) 307-6958 |
| Project Name: | SMITHVILLE, MO |
| Project Number: | 6046475 |
| Report Date: | 12/03/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial_No:12032415:26 | :: L2468993 : 12/03/24 | Receive Date 11/22/24 | |
|-----------------------|----------------------------------|---|--|
| Serial | Lab Number: Report Date: | Collection Date/Time 11/14/24 16:00 | |
| | | Sample Location Not Specified | |
| | | Matrix SOLID | |
| | SMITHVILLE, MO :: 6046475 | Client ID 11-14-24 | |
| | Project Name: Project Number: | Alpha Sample ID L2468993-01 | |



Project Name: SMITHVILLE, MO Project Number: 6046475 Lab Number: L2468993 Report Date: 12/03/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

609 Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 12/03/24



INORGANICS & MISCELLANEOUS



| Serial_No:120 |)32415:26 |
|---------------|-----------|
|---------------|-----------|

| Project Name: Project Number: | SMITHVILLE, MO 6046475 | | | | | | lumber: rt Date: | L2468993 12/03/24 | |
|---|--|----------|--------|-------|--------------------|------------------|---------------------|---|---------|
| | | | SAMPLE | RESUL | rs | | | | |
| Lab ID: Client ID: Sample Location: | L2468993-01 11-14-24 Not Specified | | | | | | | 11/14/24 16:00 11/22/24 Not Specified | 1 |
| Sample Depth: Matrix: Parameter | Solid Result Qualifie | er Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
| General Chemistry - We | stborough Lab | | | | | | | | |
| Density | 1.10 | SU | 0.100 | | 1 | - | 12/02/24 03:3 | 5 12,D1475 | DEW |



| l5:26 |
|--------|
| 203241 |
| No:1 |
| Serial |

| Project Name: | SMITHVILLE, MO |
|----------------|----------------|
| roject Number: | 6046475 |

Lab Duplicate Analysis Batch Quality Control

 Lab Number:
 L2468993

 Report Date:
 12/03/24

| Parameter | Native Sample | Duplicate Sample | iple Units | | Qual | RPD Qual RPD Limits | |
|--|---------------|---|--------------|------------|---------------|---------------------|--|
| General Chemistry - Westborough Lab Associated sample(s) | : 01 | QC Batch ID: WG2003829-1 QC Sample: L2467109-01 Client ID: DUP Sample | QC Sample: L | 2467109-01 | Client ID: DI | JP Sample | |
| Density | 1.20 | 1.24 | SU | ς | 1 | | |
| | | | | | | | |



SMITHVILLE, MO Project Number: 6046475 Project Name:

Lab Number: L2468993 Serial_No:12032415:26 Report Date: 12/03/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Present/Intact Cooler ∢

Container ID Container Type **Container Information**

Plastic 250ml unpreserved L2468993-01A

Frozen Date/Time Present/Intact Final Temp pH degC Pres Seal ≻ 3.9 Initial ^I Cooler pH F

AN

∢

DENSITY()

Analysis(*)



*Values in parentheses indicate holding time in days

Project Number: 6046475

Lab Number: L2468993

Report Date: 12/03/24

GLOSSARY

Acronyms

| Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. Environmental Protection Agency. Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where a |
|--|
| values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. Environmental Protection Agency. Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentration. The LOQ includes any adjustments from dilutions, concentration. |
| analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. Environmental Protection Agency. Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Laboratory Control Sample Duplicate: Refer to LCS. Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Liboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats |
| Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Laboratory Control Sample Duplicate: Refer to LCS. Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, where applicable. (DoD report formats |
| analytes or a material containing known and verified amounts of analytes. Laboratory Control Sample Duplicate: Refer to LCS. Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats |
| Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, where applicable. (DoD report formats |
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| LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats |
| |
| Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| - Matrix Spike Sample Duplicate: Refer to MS. |
| - Not Applicable. |
| - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| DPA - N-Nitrosodiphenylamine/Diphenylamine. |
| - Not Ignitable. |
| - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF |
| and then summing the resulting values. |
| which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calcula using the native concentration, including estimated values. Matrix Spike Sample Duplicate: Refer to MS. Not Applicable. Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter' reporting unit. PPA - N-Nitrosodiphenylamine/Diphenylamine. Not Ignitable. Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatil Organic TIC only requests. Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are let than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between th values; although the RPD value will be provided in the report. Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. Semi-dynamic Tank Leaching Procedure per EPA Method 1315. Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDI |



Project Number: 6046475

Lab Number: L2468993 Report Date: 12/03/24

Footnotes

1 00011010

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- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.



Project Number: 6046475

Serial_No:12032415:26

Lab Number: L2468993

Report Date: 12/03/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



Project Name: SMITHVILLE, MO Project Number: 6046475

 Lab Number:
 L2468993

 Report Date:
 12/03/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: AI, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: AI, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. EPA 245.1 Hg SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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| Pace | | LAB USE ONLY | | | its | | Samples Intact Y or N |
|--|---|----------------------------------|-----------------------|-------|----------|----------------------------------|--------------------------|
| II / 12/24 L2468993 Drigin: MO X ded: Yes X No accived Date: 11/15/2024 Requested Analysis | | | | | Comments | KS sample location: 6091-24-S2B2 | z |
| State Of Origin: MO Cert. Needed: Ves Owner Received Date: | Bulk Density | | × | | | Date/Time KS : 11/22/20 10:30 | Received on Ice Y or |
| Istody Rush Multiplier X Samples Pre-Logged into eCOC SMITHVILLE, MO | Blvd MA 02048 \$822-9300 | Lab ID Matrix | 0 60464745001 Solid 1 | | | erTime Received By | Custody Seal Y or N |
| Chain of Custody | Pace 320 F Mans Phon | Sample Collect Type Date/Time | PS 11/14/2024 16:00 | | _ | Date/Time N/31, | ç |
| Itansfer | Keport to Jennifer Haley Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 | tion Sample ID | | 4 3 4 | 5 | Transfers Released By | 3 Contracture on Receint |

> ***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Thursday, November 21, 2024 11:24:36 AM

Page 1 of 1 FMT-ALL-C-002rev.00 24March2009 Page 27 of 29

20

**



Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 INTER_LABORATORY WORK ORDER # 60464745

(To be completed by sending lab)

| 60464745 | Sending Project No: |
|-----------|-------------------------------------|
| | Receiving Project No. |
| | Check Box for Consolidated Invoice: |
| 11/21/24 | Date Prepared |
| 12/3/2024 | REQUESTED COMPLETION DATE: |

| Sending Region | IR60-Kansas | Sending Project Mgr. | Jennifer Haley |
|------------------------|-------------|----------------------|-----------------------------|
| Receiving Region | S880 | External Client | Hodges Farms & Dredging LLC |
| State of Sample Origin | MO | QC Deliverable | STD REPORT |

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight? Dry Weight IRWO Lab Need to run? Cert. Needed NO

| Method Description | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
|--------------------|----------------|---------------------------|--------------|------------------------|-----------|--------------|
| Bulk Density | BP3U | 1 | Unpreserved | 1 | SI-21WET0 | SUB PASI WTA |

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes X No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

SHIP DATE: 21NOV24 ACTNGT: 15.00 LB MAN GAD: 0456433/CAFE3808 DIMS: 12×11×10 1N ORIGIN ID IXDA (913) 559-5665 SHIPPING DEPARTMENT PACE 9608 LGIRET BLVD LENEXA, KS 662192406 UNITED STATES US BILL SENDER 1 585C8/3903/C6C4 SAMPLE RECEIVING TO PACE ALPHA 320 FORBES BOULEVARD MANSFIELD MA 02048 REF: CB - 4821 (508) 822-9300 DEPT: CLIENT SERVICES FedEx 1241023112201426 FRI - 22 NOV 10:30A PRIORITY OVERNIGHT TRK# 4033 6453 1572 02048 E PYMA MA-US BOS Part # 156148-434HM MTW EXP 07/25 \$

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December 04, 2024

Jeff Hodges Hodges Farms & Dredging LLC 501 N. West Street Lebo, KS 66856

RE: Project: SMITHVILLE, MO Pace Project No.: 60464821

Dear Jeff Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2024. 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 - Kansas City

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

Sincerely,

Semper Haley

Jennifer Haley jennifer.haley@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Aaron Gruenwald, Hodges Farms and Dredging, LLC





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: SMITHVILLE, MO Pace Project No.: 60464821

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Certification #: 88-00679 Illinois Certification #: 2000302023-6 Colorado Division of Oil and Public Safety Iowa Certification #: 118 Kansas Field Laboratory Certification #: E-92587 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Missouri Inorganic Drinking Water Certification Nevada Certification #: KS000212024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T104704407-23-17 Utah Certification #: KS000212022-13



SAMPLE SUMMARY

Project: SMITHVILLE, MO Pace Project No.: 60464821

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60464821001 | 11-15-24 | Solid | 11/15/24 15:00 | 11/18/24 10:20 |



SAMPLE ANALYTE COUNT

Project: SMITHVILLE, MO Pace Project No.: 60464821

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|----------------------|------------|
| 60464821001 | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | DWC | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



ANALYTICAL RESULTS

Project: SMITHVILLE, MO

Pace Project No.: 60464821

| Sample: 11-15-24 Results reported on a "dry weigh | Lab ID: 6046 ht" basis and are adju | | Collected: 11/15/2 rcent moisture, sa | | | | latrix: Solid | |
|--|--|-------|--|----|----------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Percent Moisture | Analytical Mether Pace Analytical | | | | | | | |
| Percent Moisture | 74.4 | % | 0.50 | 1 | | 11/18/24 16:44 | | |
| 2540G Total Percent Solids | Analytical Mether Pace Analytical | | | | | | | |
| Total Solids | 25.6 | % | 0.10 | 1 | | 11/18/24 16:44 | | |



QUALITY CONTROL DATA

| Project: SMI | THVILLE, MO | | | | | |
|------------------------|-------------|--------------|---------------|----------------------|-----------------|------------|
| Pace Project No.: 604 | 64821 | | | | | |
| QC Batch: 91 | 6894 | Analysis Met | thod: SN | /I 2540G | | |
| QC Batch Method: SN | 1 2540G | Analysis Des | scription: 25 | 40G Total Solids | | |
| | | Laboratory: | Pa | ace Analytical Servi | ices - Kansas C | City |
| Associated Lab Samples | 60464821001 | | | | | |
| METHOD BLANK: 363 | 0381 | Matrix: | Solid | | | |
| Associated Lab Samples | 60464821001 | | | | | |
| | | Blank | Reporting | | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers | |
| Total Solids | % | ND | 0.10 | 11/18/24 16:44 | | _ |
| SAMPLE DUPLICATE: | 3630382 | | | | | |
| SAMPLE DUPLICATE: | 3030302 | 60464816001 | Dup | | Max | |
| Parameter | Units | | Result | RPD | RPD | Qualifiers |
| Total Solids | % | 27.2 | 27.3 | | 8 | |

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.



QUALIFIERS

Project: SMITHVILLE, MO

Pace Project No.: 60464821

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SMITHVILLE, MO Pace Project No.: 60464821

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 60464821001 | 11-15-24 | ASTM D2974 | 916897 | | |
| 60464821001 | 11-15-24 | SM 2540G | 916894 | | |

| | | | 104.004040 |
|--|------------------------------|-------------------------|---|
| HACE' | DC#_Title: ENV-FRM- | LENE-0009_Sam | |
| Client Name: Ho | | | 522 55454521 |
| Courier: FedEx UPS | lges Farms □ VIA□ Clay□ | PEX 🗆 ECI 🗆 | Pace 🗆 Xroads 🗆 Client 🔽 Other 🗆 |
| Tracking #: | , | ce Shipping Label Use | |
| Custody Seal on Cooler/Box | | Seals intact: Yes | , |
| | e Wrap 🗆 🛛 Bubble Bags 🛛 | | None 🖵 🛛 Other 🗆 |
| Thermometer Used: 12 | 78 Туре о | fice: Wet Blue | |
| Cooler Temperature (°C): A | s-read <u>9.4</u> Corr. Fact | tor <u>-0, /</u> Correc | ted 9, 3 Date and initials of person examining contents: CJ 11/12 |
| Temperature should be above freez | ting to 6°C | | / |
| Chain of Custody present: | | Yes No N/A | · time / date not on Container |
| Chain of Custody relinquished: | | Yes No N/A | Container |
| Samples arrived within holding | time: | Yes No N/A | |
| Short Hold Time analyses (<7 | 2hr): | □Yes ZNo □N/A | |
| Rush Turn Around Time requ | ested: | □Yes ZNo □N/A | |
| Sufficient volume: | | Yes No N/A | |
| Correct containers used: | | Yes No N/A | |
| Pace containers used: | | Yes No N/A | |
| Containers intact: | | Yes No N/A | |
| Unpreserved 5035A / TX1005/1 | 006 soils frozen in 48hrs? | Yes No AA | |
| Filtered volume received for dise | solved tests? | | |
| Sample labels match COC: Date | | Yes No N/A | |
| Samples contain multiple phase | 0.1 | | 14 (14 (14 (14 (14 (14 (14 (14 (14 (14 (|
| Containers requiring pH preserv | | | List sample IDs, volumes, lot #'s of preservative and the |
| (HNO ₃ , H ₂ SO ₄ , HCI<2; NaOH>9 Sul | - · · | | date/time added. |
| (Exceptions: VOA, Micro, O&G, KS Cyanide water sample checks: | TPH, OK-DRO) LOT#: | | |
| Lead acetate strip turns dark? (F | • / | □Yes □No | |
| Potassium iodide test strip turns | blue/purple? (Preserve) | Yes No | |
| Trip Blank present: | | Yes No N/A | |
| Headspace in VOA vials (>6mm | 1): | | |
| Samples from USDA Regulated | Area: State: MO | □Yes ☑No □N/A | |
| Additional labels attached to 503 | | | |
| Client Notification/ Resolution Person Contacted: | | | Field Data Required? Y / N |
| Comments/ Resolution: | Date/T | inie: | |
| | | | |
| | | | |
| Project Manager Review: | | Date | · · · · · · · · · · · · · · · · · · · |

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| Analytical |
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CHAIN-OF-CUSTODY / Analytical Request Document GO4QAS2/The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Section A Required Clie | Section A Required Client Information: | | Section B Required Project Information: | Section C Involues Information | Page: 1 of 1 |
|----------------------------|---|----------------------------|--|-----------------------------------|--|
| Company: | Hodges Fame | Hodges Farms and Dredging | Report To: Aaron Gruenewald/Jeff Hodges | Attention: | |
| Address: | 501 N Mact Straat | Stract | Capit To: | | |
| | 10044 11 100 | 10010 | | Company Name: | REGIII ATORY ACENCY |
| | Inho KC GCOGO | 00 | | | |
| | LEUU, NJ 0000 | 8 | | Address: | T NPDES T GPOLIND WATED T PRINTARC WATER |
| Email To | Planenoinne | Shedened and | | | |
| | anneliewalula | auruenewalu(@IIOUQESIG.COM | Turkitase Order No.: | Pace Quorie Beferennes | |
| Phone: 020 | Phone: 020.272.9715 | Fav. | | | 502 |
| 170 | | | FINISCURATING STRETTVILLE, MO | Pace Project Manaoar | Site Location |
| Requested D | Requested Due Date/TAT- | RUSH | | | |
| | | | | Pace Profile #. | STATE- MO |
| | | | | | |

| | | | | | | | | | | 1 | | | | | | ŀ | | | | 4 | | | | | | | Real Property | NUMBER OF |
|---------|--|--|-----------------|--------|------|-------------------------------|---------|------------------------|---------------|-----------|----------|--------------------|-------------------------|---------------|----------|---------------------------|-----------------------|-------------|------------------|----------|-----------------------------------|-----------|----------------|------|------------|-------|---------------|---------------------------|
| | | | | | | | | | | | | | | | | | | Requi | ested | Ana | Requested Analysis Filtered (Y/N) | Filter | ed (Y | (N | 12 | | 1000 | 1811-21 |
| | Section D Valid Matrix Codes Required Client Information <u>MATRIX</u> COL | rix Codes CODE | (89) 0) | _ | | | COLL | COLLECTED | | | | | Prese | Preservatives | SS SS | | TN/A | | - | | | | | | | | | |
| | | TER DW WT WW SC SC WW WF OL | see valld codes | | | COM POSITE START | START | COMPOSITE | SITE | OLLECTION | s | | | | | | | | | S | | ateM pris | | | (N/A) | | | |
| | QUE | | CODE (| | | | | | | D TA 9M9T | BARNIATU | nevie | | | | | tesT eis M \ alste | u | | osbyours | shil | | vtisu | (mon | eninold) I | | | |
| # МЭТІ | | | KIATAM | SAMPLE | - | DATE | TIME | DATE | TIME | 3.19MA2 | | H ₂ SO4 | HCI HNO ³ | HOBN | Nethan | Ofher | | nuimulA | Sodium Sodium | | otal So rKN | | grijk Dei H | | enbise | G | o Deoic | Dace Deviced No. / Let LD |
| - | 11-15.24 | | 20 | U H | Ē | 1251 | 8:00 | 1/6/24 | 16:00 | | - | × | \vdash | | \vdash | | | 1 | | | | _ | | | 1 | - | | שרו ואחי, די |
| 8 | | | _ | _ | _ | - | l. | | | | | | _ | | | | | | - | | | | \vdash | F | F | | | |
| ~ | | | _ | 1 | | | | | | _ | | | | | - | Γ | _ | | \vdash | | \vdash | | + | L | F | | | |
| 4 | | | - | - | _ | | | | | | \vdash | F | | L | | Γ | _ | | + | | + | | | | - | | | |
| ю | | | - | - | | | | | | | | L | - | E | F | L | | | ┝ | | + | | + | t | - | | | |
| ø | | | - | _ | - | | | | | | | F | | t | - | T | | t | + | | | | + | 1 | T | | | |
| 7 | | | - | | | | | | | | | F | _ | E | - | Γ | 1 | | - | | | | 1 | t | | | | |
| 00 | | | | | | | | | | | | | | | | | | | + | | + | | + | | 1 | | | |
| 0 | | | _ | | | | | | | | | F | | | - | Г | | | - | | - | | + | L | | | | |
| 9 | | | _ | _ | | | | | | | - | | - | | | Γ | | | ┢ | | | | + | t | F | | | |
| Ŧ | | | _ | _ | _ | - | | 4 | | | | F | \vdash | L | - | Γ | _ | L | - | 1 | - | | + | | L | | | |
| 印 | | | | | | Π | | F | | | | | | L | - | Γ | | | + | | | | | | | | | |
| | ADDITIONAL COMMENTS | 1 1 | B | ELINQI | HISH | RELINQUISHED BY I AFFILIATION | FILIATI | NO | DATE | | TIME | u | | | CCEP | ACCEPTED BY / AFFILIATION | Y LAF | FLATI | N | Γ | DATE | l " | TIME | 1 | | SAM | PLE COI | SAMPLE CONDITIONS |
| Collect | Collect Fecal Coliform samples after 10:00am | A | À | 0 | A | 3 | 1 | | N/14/1 | 17 | 01.0 | 6 | | P | 1/ | | | | | Γ | = | 7 | WCV! | | 2.0 | | | $\left \right $ |
| For me | "For metals/nutrients, leave at least 1 inch of headspace in containers for off-gassing | ¥ | 8 | | > | | 8 | | | - | | \square | | | | | | | | | | | | | | | | $\left \right $ |
| P | | - | | | | | | | | | | | | | | | | | | | | | | 1 | | | | _ |
| age | | | | | | | MPLE | SAMPLER NAME A | ND SIGNATURE | INE | | 1 | | | | | | | | 1 | | 1 | | T | 0 | | | + |
| 10 o | | | | | | | | PRINT Name of SAMPLER: | e of SAMP | ER: | | | | | | | | | | | | | | Г | ° ni qr | (N/A) | se2 yt | er (Y/) Ies Int |
| f 27 | | | | | | | | SIGNATUR | E of SAMPLER: | LER: | ļ | | | | | | | DATE Signed | peug. | | | | | Γ | neT | | | |

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|--|---|-----------------------------|---------|---------------------------|----------------------|------------------------|--------------------------|------------------------|-------------------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------------|--------------------------|--|--------------------------|---------------------------|--------------------|---------------------|--------------------------|--------------------|----------------|
| 2421 line | SE48 | | | | | AF . | U I | <u>×</u> : | | T | L | | M | SL | A D | MP | DW | | | ٦ | | |
| | Bb3E | | | | | | | | | | | | tered | | | | | | | | | |
| 42 | Bb3N | + | | | | | | | | lastic | tate | | 250mL HNO3 plastic - field filtered | | astic | tate | astic | | | stic | | |
| N | | | U | <u> </u> | <u>ب</u> ان | 1L unpreserved plastic | cetate | Diastic | 500mL H2SO4 plastic | 500mL unpreserved plastic | 500mL NaOH, Zn Acetate | olastic | lastic - | plastic | 250mL unpreserved plastic | 250mL NaOH. Zn Acetate | 125mL unpreserved plastic | lastic | 125mL H2SO4 plastic | 16oz unpresserved plstic | | |
| s/EZ # | BP2U | | Plastic | 1L NAOH plastic | 11 H2SO4 plastic | served | 1L NaOH, Zn Acetate | HOH | 500mL H2SO4 plastic | Inprese | VaOH, | 250mL NaOH plastic | INO3 P | 250mL HNO3 plastic | 12SO4 | NaOH. | Inprese | 125mL HNO3 plastic | 12SO4 | presser | | |
| Profile/EZ # | ВРЛО | | | L NAO | L H2S(| | L NaO | | | 00mL (| 00mL | 50mL | 50mL | 50mL + | 50mL L | 50mL | 25mL 1 | 25mL H | 25mL | 6oz un | | |
| | Medu | | | 7 7 | | - | I | | | 22 | 2 | 2 | | | 20 | | - | - | - | - | | |
| | мекп | | | BP1B | BP1S | BP1U | BP1Z | BP2B | BP2S | BP2U | BP2Z | 3P3B | BP3F | BP3N | BP3S BP3S | BP3Z | BP4U | BP4N | BP4S | WPDU | | |
| | леги | | | | | | | | | | | | | | | | Ī | تصر | | | | |
| | NG5D | | | | | de | s | | ther ala | | | ŝ | s | 0 | 0 0 | | | | | | | |
| ولمتولع | | | | | | amber wide | 100mL unores amber glass | 0.00 | 1L Na Thiosulfate clear/amber glass | glass | 500mL HNO3 amber glass | 500mL H2SO4 amber glass | 250mL H2SO4 amber glass | 500mL unpres amber glass | 200mL unpres amber glass 125mL unpres amber glass | 100mL unpres amber glass | | | | | | |
| all all | SEDA | | | Jar | a la | | s ambe | r glass | Ifate cl | amber | 3 ambe | 4 amb | 4 amp | s ambe | s ambe | s ambe | | | | 1 | | |
| Ă | USDA | | | ar soil | ar soil | preser | unore | | Thiosu | npres a | NNO | H2SO | H2SO | unpre | unpre | nnpre | | | | | 1/24 | |
| 10 | Urða | | | 8oz clear soil jar | 202 clear soil jar | 4oz unpreserved | 100mL | 1L HOL attiber glass | 1L Na | 1liter unpres amber glass | 500mL | 500mL | 250mL | 500mL | 25um | 100mL | | | | | Due Date: 12/04/24 | |
| 5 | нгаа | | | | | | | | | | | | | | | | 1 | 070-010 | ŝ | J | | |
| 1 VOT_Sample Container Count lodges Farms Smi-Hwille MO | BGIU | | Glass | WGKU | WG2U | JGFU | AGOU | | AG1T | AG1U | AG2N | AG2S | AG3S | AG2U | AG4U | AG5U | | 11.5 | 104 . COAGAR21 | f | e Dat | Farms |
| La La | DC9B | | Gla | | | | | | | | | | | | | | | | SV | 5 | Ď | |
| ple Cor | W690 | | | | | | | | | | rial | | | | | | | | C | 20 | | odge |
| 1001 VOT_Sample C | DG90 | | | r vial | vial | ial | er vial | ci viai | | ır vial | clear v | glass | | lass | al glas | | | | | + | 3 | Ť |
| | ∩69∧ | | | 40mL bisulfate clear vial | 40mL MeOH clear vial | 40mL TSP amber vial | 40mL H2SO4 amber vial | 40ml amher unnreserved | 40mL HCI clear vial | 40mL Na Thio. clear vial | 40mL unpreserved clear vial | 1liter H2SO4 clear glass | glass | 250mL HCL Clear glass | 20011L UTPTES CIERT grass | | | | C | Š | N. 11 H | CLIENT: Hodges |
| M-LENE 2024 Client: Site: | DG9G | | | bisulfa HCI ar | MeOH | TSP a | H2SO | amher | HCIC | Na Thi | unpres | -12S04 | 1liter unpres glass | | 16oz clear soil iar | | | | - | _ | jē | : 0 |
| ENV-FR te: 7/12/ | DG9H | | | 40ml | 40mL | 40mL | 40mL | 40ml | 40mL | 40mL | 40mL | 1liter - | 1 litter (| ILLINGZ | 16oz 0 | | | | | | | |
| Effective Date: 7/12/2024 Effective Date: 7/12/2024 Client: Hodges Fan | НбЭЛ | | | | | | | | | | | | | | | | | | | Mork Order Mumber | | |
| DC# | A Matrix | Codes | | DC9B | DG9M | DG9Q | DG9S | 1600 | VG9H | VG9T | VG9U | BG1S | | RG3H | MGDU | | | | | (Alort | | |
| | COC Line Item 3 3 3 4 4 4 4 5 5 5 5 5 6 6 8 8 8 8 8 10 | 12 12 Container Codes | | | | | | | | | | | | | | | | | | | | Page |

Pace® Analytical Services, LLC

age 11 of 27

Page 1 of 1

| Internal Transfer Chain of Custody | Chain o | of Custod | ≥ | | | 1110 | الاحداط | 0100004 | Darg |
|--|-----------------|------------------------------------|--|------------------------|----------------------|---|------------------------------------|--|-----------------|
| | | Rush Multiplier | Rush Multiplier X Samples Pre-Logged into eCOC | c into eCOC | State Cert. | State Of Origin: MO Cert. Needed: Ye | 0] Yes 📈 No ate: 11/18/2024 | No 2024 Results Requested By: 12/4/2024 | d By: 12/4/2024 |
| ler: 60464821 | Workorder Name: | 0 | VILLE, MU | - | - | | | | |
| Report To Jennifer Haley 9608 Loiret Blvd. Lenexa, KS 66219 | | Pace / 320 Fc Mansf Phone | Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 | field | | | | | |
| Phone (913)599-5665 | | | | 8 | | ALISNOC NI | | | |
| | | | | đ | Preserved Containers | Π | _ | | |
| | Sample | Collect | (Tab ID | Matrix Atrixesenved | | | | | LAB USE ONLY |
| Sample ID | adki | | - | T | | > | | | |
| 11-15-24 -01 | PS | 11/15/2024 15:00 | 60464821001 | Solid | + | < | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | - | | | | | | | Comments | |
| Transfore Released BV | | Date/Time | Received By | By | | Date/Time | KS sample loca | KS sample location: 6091-18-S2B2 | |
| T | | 12/11 | 1500 7 | LUEX | | 11 | 1 | | |
| THE . | EX | ¥ 122/4 | 2410:30 | N-N | | 11/27/24/10 | 3.50 | | |
| | | | | | - | | | Samples Intact Y | act Y or N |
| tuine on Decelut | | Ja Ja | Custody Seal | Y or N | Rec | Received on Ice | A OL N | California | |

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***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature m This chain of custody is considered complete as is since this information is available in the owner laboratory.

Page 1 of 1 FMT-ALL-C-002rev.00 24March2009

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ace

Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 INTER_LABORATORY WORK ORDER # 60464821

(To be completed by sending lab)

| REQUESTED COMPLETION DATE: | 12/4/2024 |
|-------------------------------------|-----------|
| Date Prepared: | 11/21/24 |
| Check Box for Consolidated Invoice: | |
| Receiving Project No: | |
| Sending Project No: | 60464821 |

| Sending Region | IR60-Kansas | Sendir | ng Project I | vigr. | | Jennifer | Haley |
|----------------------------|-----------------------------|----------------|---------------------------|---|------------------------|--------------|-----------------|
| Receiving Region | S880 | Extern | al Client | | Ho | dges Farms & | Dredging LLC |
| State of Sample Origin | MO | QC De | eliverable | | | STD REP | PORT |
| ED RESULTED RESULT | Il questions should be addr | or Dry Weigh | | 1997 - 1997 - 1975 - 1975 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - | | ed to run? (| Cert. Needed NO |
| Requested Reportable Units | Report we | | REQUEST | | VU Lab Ne | ed to full? | |
| Method D | escription | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| BULK | DENSITY | BP3U | 1 | Unpreserved | 1 | SI-21WET0 | SUB PASI WTA |
| | FOR ANALYTIC | AL WORK C | | | N ALSO | | |
| Return Samples to Sendi | ing Region: Yes X 1 | No | | | | | |

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.



ANALYTICAL REPORT

| Lab Number: | L2468995 |
|-----------------|---|
| Client: | Pace Analytical Services Inc 9608 Loiret Blvd. Lenexa, KS 66219 |
| ATTN: | Jennifer Haley |
| Phone: | (913) 307-6958 |
| Project Name: | SMITHVILLE, MO |
| Project Number: | 60464821 |
| Report Date: | 12/03/24 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial_No:12032420:29 | L2468995 12/03/24 | Receive Date | F 2/22 |
|-----------------------|----------------------------------|-------------------------------------|--------|
| Serial_N | Lab Number: Report Date: | Collection Date/Time | |
| | | Sample Location Not Specified | |
| | | Matrix | |
| | SMITHVILLE, MO rr: 60464821 | Client ID | † N |
| | Project Name: Project Number: | Alpha Sample ID | |



Project Name: SMITHVILLE, MO Project Number: 60464821 Lab Number: L2468995 Report Date: 12/03/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

609 Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 12/03/24



INORGANICS & MISCELLANEOUS



| Serial_No:12032420:29 |
|-----------------------|
|-----------------------|

| Project Name: Project Number: | SMITHVILLE 60464821 | E, MO | | | | | | | L2468995 12/03/24 | |
|----------------------------------|-------------------------|-----------|-------|--------|-------|--------------------|------------------|------------------|----------------------|---------|
| | | | | SAMPLE | RESUL | rs | | | | |
| Lab ID: | L2468995-0 ⁻ | 1 | | | | | Date (| Collected: | 11/15/24 15:00 |) |
| Client ID: | 11-15-24 | | | | | | Date I | Received: | 11/22/24 | |
| Sample Location: | Not Specifie | d | | | | | Field I | Prep: | Not Specified | |
| Sample Depth: | | | | | | | | | | |
| Matrix: | Solid | | | | | | - | _ | | |
| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
| eneral Chemistry - We | stborough Lab |) | | | | | | | | |
| ensity | 1.14 | | SU | 0.100 | | 1 | - | 12/02/24 03:3 | 5 12,D1475 | DEW |



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| SMITHVILLE, M | r: 60464821 |
|---------------|------------------------|
| Project Name: | Project Number: |

Lab Duplicate Analysis Batch Quality Control

 Lab Number:
 L2468995

 Report Date:
 12/03/24

| Parameter | Native Sample | Duplicate Sample | iple Units | RPD | Qual | Qual RPD Limits |
|--|---------------|------------------|---|----------|--------------|-----------------|
| General Chemistry - Westborough Lab Associated sample(s) | 6 | : WG2003829-1 | QC Batch ID: WG2003829-1 QC Sample: L2467109-01 Client ID: DUP Sample | 67109-01 | Client ID: D | UP Sample |
| Density | 1.20 | 1.24 | SU | n | 1 | |



SMITHVILLE, MO Project Number: 60464821 Project Name:

Lab Number: L2468995 Serial_No:12032420:29 Report Date: 12/03/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Present/Intact Cooler ∢

Container ID Container Type **Container Information**

Plastic 250ml unpreserved L2468995-01A

Present/Intact Final Temp pH degC Pres Seal ≻ 3.9 Initial ^I Cooler pH F

AN

∢

DENSITY()

Analysis(*)

Frozen Date/Time



Project Number: 60464821

Lab Number: L2468995

Report Date: 12/03/24

GLOSSARY

Acronyms

| ,,,, | |
|----------|---|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| | Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |



Project Number: 60464821

Lab Number: L2468995 Report Date: 12/03/24

Footnotes

1

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, (flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.



Project Number: 60464821

Serial_No:12032420:29

Lab Number: L2468995

Report Date: 12/03/24

Data Qualifiers

- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



Project Name: SMITHVILLE, MO Project Number: 60464821

 Lab Number:
 L2468995

 Report Date:
 12/03/24

REFERENCES

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol **EPA 8260D:** <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables). Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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Page 1 of 1 FMT-ALL-C-002rev.00 24March2009



Ship To: Pace Analytical Mansfield 320 Forbes Blvd Mansfield, MA 02048 Phone (508)822-9300 INTER_LABORATORY WORK ORDER # 60464821

(To be completed by sending lab)

| Date Prepared REQUESTED COMPLETION DATE: | |
|---|----------|
| Check Box for Consolidated Invoice: | |
| Receiving Project No: | |
| Sending Project No: | 60464821 |

| Sending Region | IR60-Kansas | Sending Project Mgr. | Jennifer Haley |
|------------------------|-------------|----------------------|-----------------------------|
| Receiving Region | S880 | External Client | Hodges Farms & Dredging LLC |
| State of Sample Origin | MO | QC Deliverable | STD REPORT |

All questions should be addressed to sending project manager.

Requested Reportable Units Report Wet or Dry Weight? Dry Weight IRWO Lab Need to run? Cert. Needed NO

| | WORK | REQUEST | ED | | | |
|--------------------|----------------|---------------------------|--------------|------------------------|-----------|--------------|
| Method Description | Container Type | Quantity of containers | Preservative | Quantity of Samples | Acode | Acode Desc |
| BULK DENSITY | BP3U | 1 | Unpreserved | 1 | SI-21WET0 | SUB PASI WT/ |

Special Requirements: Report C, QC Limits (C), FR Only no EDD (0)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes X No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.