

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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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:	
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										0	SAMPLE TYPE (G	GRAB C=CO	MP)			Smi	 			n Gn	nform	
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										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.
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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

12 ≓

Pace
Analy
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vices,
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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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
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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



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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

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A	Dace
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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			

15
Cel
Analytica www.pacelebs.com
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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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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

 Project Number:
 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
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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												
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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

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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.: 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
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					14:47	TIME		_	_	_	-	-	_	_	_	_		1 X	# OF CONTAINERS				Pace Profile #	Pace Project Manager:	Pace Quote Reference:	Address:	Company Name:	Attention:	Section C Invoice Information:	
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	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
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-			-				_					_	_				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	
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		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
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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

Serial_No:11082413:38

Lab Number: L2462440

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.)



 Project Name:
 60462862

 Project Number:
 60462862

 Lab Number:
 L2462440

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

Page 13 of 15

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

i.

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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

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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:

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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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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 #
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																			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

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 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							
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					Preserved Containers	1					_
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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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	MGDN MGKN											8018	BP1N	BP1S	BP1U	BP1Z	BP2N	BP2S	BP2U	BP2Z	BP3B	BP3F	BP3N BP3H	BP3S	BP3Z	BP4U	BP4N	BP4S	WPDU
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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



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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	-		×			
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Transfers Released By		Date/Time	Received By	X	1 1	Date/Time				
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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	
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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
ORIGIN ID IXDA (913) 559-5655 ORIGIN ID IXDA (913) 559-5655 PACE PACE NUVD 9608 LOIRET BLVD	1014	DR	SH MA 01 REF: CB		6452 0005	BBFA		
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
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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			
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WPDU WPDU WPDU WPDU	WPDU WALL Due Date: 11/14/24 WPDU	WPDU WPDU WPDU WPDU WPDU							BP4N	125	mL HNO3	plastic		H					
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Page 11 of 26

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

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_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

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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
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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.

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

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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
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(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	-	
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(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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	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	_		
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	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				
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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
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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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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
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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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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
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(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	
Receiving Region	S880		nal Client	wigh.		Jennifer	
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
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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				
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	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
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of 25						SIGN	ATURE of	SIGNATURE of SAMPLER:							F	DATE Signed	Signe					Γ	meT	809 901 901	pojen;	0000	()
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	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
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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	
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	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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CHAIN-OF-CUSTODY / Analytical Request Document (004んイズの

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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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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



3:25
05241
No:12(
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

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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.

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.

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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									
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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		
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*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 				-												_	
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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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		WP Wipe	
		DW Drinking Water	
BP4N 125mL F BP4S 125mL F	N 125mL HNO3 plastic		

Qualtrax ID: 30422

Pace® Analytical Services, LLC

Page 11 of 29

									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	-		×					
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			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				
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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

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Page 12 of 29

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

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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_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
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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.
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 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
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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.



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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: 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

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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 \$

Page 29 of 29



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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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

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																		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		-									
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-	11-15.24		20	U H	Ē	1251	8:00	1/6/24	16:00		-	×	\vdash		\vdash			1				_			1	-		שרו ואחי, די
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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 $
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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		
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	∩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	
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					-			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

Page 12 of 27

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

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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: 60464821

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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: 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.