



Midwest Laboratories
13611 B Street
Omaha, NE 68144
P 402-334-7770
F 402-334-9121
www.midwestlabs.com

13 April 2021

Work Order: 1569556

COLUMBUS MTNCE SHOP 08
CENTRAL SAND & GRAVEL - 31156
2251 48TH AVE
COLUMBUS, NE 68602
RE: OA2 in Lake water

Enclosed are the results of analyses for samples received by the laboratory on 2021-04-01 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Heather Ramig". The signature is written in a cursive, flowing style.

Heather Ramig
Project Manager
hramig@midwestlabs.com

Work Order:

The result(s) issued on this report only reflect the analysis of the sample(s) submitted. For applicable test parameters, Midwest Laboratories is in compliance with NELAC requirements. Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.



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Project:

Reported:

Project Manager:

ANALYTICAL REPORT FOR SAMPLES

Sample ID

Laboratory ID

Matrix

Date Sampled

Date Received

Containers used for the following analyses:

Note: Indicates container was received outside the acceptable pH range and was preserved at the laboratory.

+ Note: Indicates metals container was unable to be preserved to a pH < 2.

Analysis Results Reviewed by:

Work Order:

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Project: Project Manager:	Reported:
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Sample ID:
Laboratory ID:
Sampled Date/Time:

Analyte	Dry Weight	Reporting	Units	As Received	Method	Prepared	Analyzed	(Container) /	
	Result	Limit		Result				Analyst	Notes

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Project:	Reported:
Project Manager:	

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Project:

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Project Manager:

Preparation Batch Summary

Batch:

Batch Matrix:

Preparation:

Sample Name	Lab Sample ID	Date Prepared	Amount	Prep By
/				

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Project:

Reported:

Project Manager:

Non-Certified Analyses included in this Report

Method

Analyte

Code	Description	Number	Expires
FL	Florida Department of Health	E87918	06/30/2021
IA	Iowa Department of Natural Resources	064	05/01/2021
KS	Kansas Department of Health and Environment	E-10402	04/30/2022
NE	State of Nebraska Dept of Health & Human Services	NE-04-05	06/30/2021
OK	Oklahoma Department of Environmental Quality	2020-061	08/31/2021
TX	Texas Commission on Environmental Quality	T104704416-20-14	07/31/2021
UT	State of Utah Department of Health	NE000012020-10	07/31/2021
WA	State of Washington Department of Ecology	C912	06/07/2021

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Project:

Reported:

Project Manager:

Notes and Definitions

< Less than reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

EPA 524.2, EPA 624, EPA 8260, OA-1, TCLP VOC, GRO, and all microbiological analyses are conducted in the facility located at 13606 B Street, Omaha, NE 68144. All other analyses are conducted in the main facility located at 13611 B Street, Omaha, NE 68144.

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April 09, 2021

Karlee Qualheim
Midwest Laboratories
13611 "B" Street
Omaha, NE 681443693

RE: Project: 156955601
Pace Project No.: 60365544

Dear Karlee Qualheim:

Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2021. 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,



Angie Brown
angie.brown@pacelabs.com
1(913)563-1402
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 156955601

Pace Project No.: 60365544

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 200030

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 156955601

Pace Project No.: 60365544

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60365544001	156955601	Water	04/01/21 07:14	04/06/21 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 156955601

Pace Project No.: 60365544

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60365544001	156955601	OA2	WNM	9	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 156955601

Pace Project No.: 60365544

Sample: 156955601		Lab ID: 60365544001		Collected: 04/01/21 07:14		Received: 04/06/21 09:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS		Analytical Method: OA2 Preparation Method: OA2 Pace Analytical Services - Kansas City							
Diesel Fuel	ND	mg/L	0.40	1	04/06/21 21:37	04/07/21 16:04	68334-30-5		
Fuel Oil	ND	mg/L	0.40	1	04/06/21 21:37	04/07/21 16:04	68553-00-4		
Jet Fuel	ND	mg/L	0.40	1	04/06/21 21:37	04/07/21 16:04	94114-58-6		
Kerosene	ND	mg/L	0.40	1	04/06/21 21:37	04/07/21 16:04	8008-20-6		
Mineral Spirits	ND	mg/L	0.40	1	04/06/21 21:37	04/07/21 16:04	8030-30-6		
Motor Oil	ND	mg/L	0.40	1	04/06/21 21:37	04/07/21 16:04	64742-65-0		
TEH as Diesel No.2	ND	mg/L	0.40	1	04/06/21 21:37	04/07/21 16:04			
Surrogates									
p-Terphenyl (S)	92	%	55-123	1	04/06/21 21:37	04/07/21 16:04	92-94-4		
n-Tetracosane (S)	128	%	10-140	1	04/06/21 21:37	04/07/21 16:04	646-31-1		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 156955601

Pace Project No.: 60365544

QC Batch: 713045

Analysis Method: OA2

QC Batch Method: OA2

Analysis Description: OA2 GCS

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60365544001

METHOD BLANK: 2868968

Matrix: Water

Associated Lab Samples: 60365544001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	04/07/21 15:48	
Fuel Oil	mg/L	ND	0.40	04/07/21 15:48	
Jet Fuel	mg/L	ND	0.40	04/07/21 15:48	
Kerosene	mg/L	ND	0.40	04/07/21 15:48	
Mineral Spirits	mg/L	ND	0.40	04/07/21 15:48	
Motor Oil	mg/L	ND	0.40	04/07/21 15:48	
TEH as Diesel No.2	mg/L	ND	0.40	04/07/21 15:48	
n-Tetracosane (S)	%	130	10-140	04/07/21 15:48	
p-Terphenyl (S)	%	87	55-123	04/07/21 15:48	

LABORATORY CONTROL SAMPLE: 2868969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	5	4.6	92	45-124	
n-Tetracosane (S)	%			109	10-140	
p-Terphenyl (S)	%			91	55-123	

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

REPORT OF LABORATORY ANALYSIS

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Date: 04/09/2021 04:23 PM

QUALIFIERS

Project: 156955601
Pace Project No.: 60365544

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.

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 156955601

Pace Project No.: 60365544

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60365544001	156955601	OA2	713045	OA2	713267

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60365544



Client Name: Midwest Laboratories

Courier: FedEx ☐ UPS ☒ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 1Z 635 76313 7008 7035 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☒ cardboard

Thermometer Used: T298 Type of Ice: Wet Blue ☐ None ☐

Cooler Temperature (°C): As-read 4.1 Corr. Factor 0.0 Corrected 4.1

Date and initials of person examining contents: 4/6
ML

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Time matches COC. No sample IDs on COC.</u>
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
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#	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:

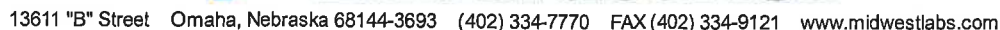
Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



60365544

Contact Person:

Angie Brown

Out Source Lab :

Pace Analytical Lenexa

Expected Level

[illegible]

Współ (Pa): 4.6.21 0930 4.1°

kqualheim@midwestlabs.com



Lab Work Order Number: 1569556
Date Generated: 03/25/2021

Page 1 of 1



Matrix Codes: A=Aqueous

Preservation Codes: 1=Cool 6°C

Sample Type Codes: D = Drinking Water (Safe Drinking Water Act), G = Groundwater, W = Wastewater (Clean Water Act), S/H = Solid/Hazardous Waste (RCRA), U = Underground Storage Tank (UST), P = Process Water

Chain of Custody will have a signature upon receipt but no subsequent signatures.

RC Form 15 - Effective 10/31/2013



Regulatory



This sheet **MUST** be filled out before samples can be processed. To ensure that holding times are met, it is your responsibility that a completed form comes attached to the Chain of Custody. Samples must be received on ice.

Is this sample for regulatory/permit reporting?

☒ Yes ☐ No

What city/state was your sample collected in?

Fort Morgan, Colorado

What agency/state are you reporting?

CDPHE

What type of sample? (Circle One)

Drinking Water
For human consumption,
30 hr hold time

Ground Water

Wastewater

lake water

Solid Waste

Hazardous Waste

UST

Storm Water

Process Water

Livestock



SEE REVERSE SIDE FOR SAMPLING INSTRUCTIONS

RC FORM 14-4 Effective 9.13.19

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Lab Number:

Thermometer Used: ☐ Therm Fisher IR 16

Cooler Intact: ☒ Yes ☐ No
Received on Ice: ☒ Yes ☒ No
Hand Delivered: ☒ Yes ☐ No

Sample Temperature (°C): 7.5

Date & Initials of person accepting samples: JA 4/1/21

Comments

Chain of Custody present?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Sample ID(s):	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Sample Location(s):	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Client contact:	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Analysis Requested:	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Date & Time of collection:	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Sampler name on COC?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Chain of custody relinquished with signature?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Chain of custody complete?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Sample labels match COC?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Written in indelible ink?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Labels indicate proper preservation?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Samples arrived within hold time?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Samples arrived within correct temperature?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Sufficient volume?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Appropriate containers used?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	N/A	
Headspace in VOA vials?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	N/A	
Trip Blank present?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	

Client Notification/Resolution: Date/Time Contacted:

Person Contacted: Contacted By:

Comments/Resolution:



1569556
COC
Sticker #: 3

