



October 08, 2026

Crinton Atkins
City of Galena
1020 S. Wood
Galena, KS 66739

RE: Project: TOTAL SULFIDE
Pace Project No.: 60502997

Dear Crinton Atkins:

Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2026. 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,

A handwritten signature in black ink that reads "John D. Stanton".

John Stanton
john.stanton@pacelabs.com
(913)599-5665
Project Manager

Enclosures

cc: Damien Kitchens, City of Galena
Mr. Josh Reed, City of Galena
Tracy Roberts, City of Galena



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TOTAL SULFIDE
Pace Project No.: 60502997

Pace Analytical Services, LLC - Lenexa KS

9608 Loiret Boulevard, Lenexa, KS 66219
Arkansas Certification #: 88-00679
Illinois Certification #: 200030
Kansas/NELAP Certification #: E-10116
Oklahoma Certification #: 9205
Utah Certification #: KS0002125-15

EPA Lab Code: KS00021
Colorado Division of Oil and Public Safety
Iowa Certification #: 118
Louisiana Certification #: 03055
Texas Certification #: T104704407
USDA_CA #: KS-SC-25-003

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SAMPLE SUMMARY

Project: TOTAL SULFIDE
Pace Project No.: 60502997

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60502997001	CLARK STREET	Water	10/05/26 10:00	10/05/26 18:15

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SAMPLE ANALYTE COUNT

Project: TOTAL SULFIDE
Pace Project No.: 60502997

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60502997001	CLARK STREET	SM 4500-S-2 D	CSS	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: TOTAL SULFIDE
Pace Project No.: 60502997

Sample: CLARK STREET Lab ID: 60502997001 Collected: 10/05/26 10:00 Received: 10/05/26 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	0.053	mg/L	0.050	1		10/08/26 13:30	18496-25-8	

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QUALITY CONTROL DATA

Project: TOTAL SULFIDE

Pace Project No.: 60502997

QC Batch 988790

Analysis Method: SM 4500-S-2 D

QC Batch Method: SM 4500-S-2 D

Analysis Description: 4500S2D Sulfide, Total

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60502997001

METHOD BLANK: 3916268

Matrix: Water

Associated Lab Samples: 60502997001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/08/26 13:30	

LABORATORY CONTROL SAMPLE: 3916269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916271 3916272

Parameter	Units	60502899001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.027J	0.5	0.5	0.38	0.39	70	72	75-125	2	20	M1

SAMPLE DUPLICATE: 3916270

Parameter	Units	60502899001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.027J	.027J		20	

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

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QUALIFIERS

Project: TOTAL SULFIDE

Pace Project No.: 60502997

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

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOTAL SULFIDE
Pace Project No.: 60502997

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60502997001	CLARK STREET	SM 4500-S-2 D	988790		



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WO# : 60502997



60502997

	DC#_Title: ENV-FRM-LENE-0009_Sample Co		
	Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Galena

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐ Cooling process has begun ☐

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

Thermometer Used: T-301 Type of Ice: Wet Blue ☐ None ☐

Cooler Temperature (°C): As-read 2.7 Corr. Factor -0.2 Corrected 2.5

Date and initials of person examining contents:

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	<u>10/6/26</u>
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ 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 / TX1005/1006 soils frozen in 48hrs?	☐ Yes ☐ No ☒ N/A	
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Sample labels match COC: Date / time / ID / analyses	☒ Yes ☐ No ☐ N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	☐ Yes ☒ No ☐ 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, Radium)	☒ Yes ☐ No ☐ N/A	
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):	☐ Yes ☐ No ☒ N/A	
Samples from USDA Regulated Area: State:	☐ Yes ☐ No ☒ N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐ Yes ☐ No ☒ 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: _____

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name:	City of Galena	Contact/Report To:	Crinton Atkins
Street Address:	1020 S. Wood Galena, KS 66739	Phone #:	(620)202-0541
		E-Mail:	c.atkins@galenaks.gov
		Cc E-Mail:	
Customer Project #:			
Project Name:	TOTAL SULFIDE	Invoice To:	Tracy Roberts
		Invoice E-Mail:	t.roberts@galenaks.gov
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected:	[] AK	[] PT	[] MT	[] CT	[] ET	County / State origin of sample(s):	Kansas
Data Deliverables:	Regulatory Program (DW, RCRA, etc.) as applicable:						Reportable [] Yes [] No
[] Level II	[] Level III	[] Level IV	Rush (Pre-approval required):				DW PWSID # or WW Permit # as applicable:
[] EQUIS	[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other						
[] Other	Date Results Requested:						Field Filtered (if applicable): [] Yes [] No
Analysis:							
* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)							

[illegible]

Additional Instructions from Pace®:		Collected By: (Printed Name)	Signature:	Date/Time:	Relinquished by/Company: (Signature)	Received by/Company: (Signature)
		Cinton Atkins				

Customer Remarks / Special Conditions / Possible Hazards:				
# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)
1	T-361	-0.2	2.7	2.5
Date/Time:			Tracking Number:	
10/5/26 1815				
Date/Time:			Delivered by: [] In- Person [] Courier	
Date/Time:			[] FedEx [] UPS [] Other	
Date/Time:			Page: 1 of 1	

Client: Galena

Profile/EZ # 3455808

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other
1	5																													
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass			Plastic			Misc.		
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab	
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Colliform Na Thiosulfate	
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag	
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter	
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes	
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit	
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can	
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic			
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic			
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate			
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic			
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water	
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid	
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid	
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL	
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe	
				BP4U	125mL unpreserved plastic	DW	Drinking Water	
				BP4N	125mL HNO3 plastic			
				BP4S	125mL H2SO4 plastic			
				WPDU	16oz unpreserved plstic			

W0# : 60502997