

Ft. Collins, Colorado

LIMS Version: 6.862

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Wednesday, May 09, 2018

Dewey Chandler Arkins Park Stone 5975 N Co Rd 27 Loveland, CO 80538

Re: ALS Workorder: 1805074 Project Name: Project Number:

Dear Mr. Chandler:

One water sample was received from Arkins Park Stone, on 5/3/2018. The sample was scheduled for the following analysis:

Metals

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

Much

ALS Environmental Marcela M. Hobgood Project Manager

> ADDRESS 225 Commerce Drive, Fort Collins, Colorado, USA 80524 | PHONE +1 970 490 1511 | FAX +1 970 490 1522 ALS GROUP USA, CORP. Part of the ALS Laboratory Group An ALS Limited Company

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ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environme	ental – Fort Collins
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



# 1805074

#### Metals:

The sample was analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by ICPMS followed method 200.8 and the current revision of SOP 827.

The sample was to be analyzed for potentially dissolved metals. The nitric acid preserved sample (pH less than two) was filtered through a 0.45 micron filter between 8 to 96 hours after sample collection.

All acceptance criteria were met.

# Sample Number(s) Cross-Reference Table

OrderNum: 1805074 Client Name: Arkins Park Stone Client Project Name: Client Project Number: Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
5/3/18 Sample	1805074-1		WATER	03-May-18	7:24

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Date Printed: Tuesday, May 08, 2018

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PRESERVATION KEY			6	2 Ja	5		*Time Zone (Circle): E											(i)	LAG ID			E-MAIL	FAX	PHONE	CITY / STATE / ZIP	ADDRESS	SEND REPORT TO	COMPANY NAME		PROJECT No.	PROJECT NAME	(ALS)			
1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcelale 5-NaHSO4					RE	NOTES	EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = fitter											5/3/18 Sample	PIELD ID		clains ouckstow.	dever, chardler @		0661-202-	Loudand to social	5975 N CH, R.I. 2/		Arkins Parle Stone					225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522	ALS Environmental	
	DC + forms + raw	DC + forms)	(Standard QC)	Summery (Standard QC)	REPORT LEVEL / QC REQUIRED		soil solid W = water							-				WATER	MATRIX		Cum	E-W		PHO	CITY / STATE / ZP	ADDRESS	INVOICE ATTN TO	BILL TO COMPANY	PURCHASE ORDER	EDD FORMAT	SIL	TURNAROUND TIME	Turnaround time		
7	REL	7	REL	2	REL	For	L = liquid											81/5/5	DATE	_	_	E-MAIL	FAX	PHONE	24	ESS	TO	ANY	DER	MAT	SITE ID	TIME	e for sample		
RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	Form 202r9	E = extract F = filt											4 7:24	SAMPLE TIME														es received after 2 les received Satu	Chai	
				9	20		A.											-	# OF BOTTLES													SAM	day will be	n-of-C	
				Yun	my ch	SIGNATURE												HNOA	PRESERVATIVE													SAMPLER	Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day. Turnaround time for samples received Saturday will be calculated beginning from the next business day.	Chain-of-Custody	
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+				5	5/3/	DATE									_		-		е.							-	-		und	PARAMETER/METHOD REQUEST FOR ANALYSIS			251	ALSI	ł
				8	811	m													-										8	RANALY	BY LAB		77	ALS WORKORDER #	
				(R)	8	H													L									1	Adel	SIS	or	of	4	DER #	
				5	8:23	TIME													SEE NOTES SECTION												RETURN				

		A		
1	A	L	5	

#### ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

(ALS)	19		11	
Client: Arkins P	Workorder No: 18	0507	4	-
Project Manager: U	Initials: COS	Date:	5-3-	-18
1. Does this project require any special handlin	g in addition to standard ALS procedures?	0	YES	(NQ
2. Are custody seals on shipping container	s intact?	NONE	) YES	NO
3. Are Custody seals on sample containers	intact?	NONE	YES	NO
4. Is there a COC (Chain-of-Custody) pres	ent or other representative documents?	-6-4	YES	NO
s. Are the COC and bottle labels complete	and legible?		(YES)	NO
Is the COC in agreement with samples re of containers, matrix, requested analyses	eceived? (IDs, dates, times, no. of samples, no. s, etc.)		(YES)	NO
7. Were airbills / shipping documents press	ent and/or removable?	OROP OF	YES	NO
8. Are all aqueous samples requiring preservati	on preserved correctly? (excluding volatiles)	N/A	(YES)	NO
Are all aqueous non-preserved samples	pH 4-9?	(N/A)	YES	NO
<sup>10</sup> Is there sufficient sample for the request	ed analyses?		(YES)	NO
1. Were all samples placed in the proper co	ontainers for the requested analyses?		(YES)	NO
2 Are all samples within holding times for	the requested analyses?		YES	NO
3. Were all sample containers received inta	ect? (not broken or leaking, etc.)		(YES)	NO
<sup>4</sup> Are all samples requiring no headspace headspace free? Size of bubble:	(VOC, GRO, RSK/MEE, Rx CN/S, radon) < green pea> green pea	N/A)	YES	NO
15. Do any water samples contain sediment? Amount of sediment: dusting		N/A	(YES)	NO
16. Were the samples shipped on ice?			(YES)	NO
<sup>17</sup> . Were cooler temperatures measured at 0	.1-6.0°C? IR gun used*: #1 #3 #4	RAD	YES	NO
	Ind within DOT acceptance criteria? YES / NO (NA) If no. s	see Form 008.)		
Additional Information: PROVIDE DETAILS BI DUSTINS OF SEDIME	ELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, I	EXCEPT #1 A	ND #16.	
f applicable, was the client contacted? YES / NO / Z Project Manager Signature / Date:	De Contact: Ulula dec 54-18	Date/Tir	ne:	
Form 201r25.xls (02/12/2018)	*IR Gun #1, VWR SN 170560549 *IR Gun #3, VWR SN 170647571 IR Gun #4, Oakton, SN 2372220101-0002		12	1

\*IR Gun #4, Oakton, SN 2372220101-0002

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# SAMPLE SUMMARY REPORT

Client: A	Arkins Park Stone		Date: 08-May-18										
Project:					Work Order:	1805074							
Sample ID: 5	<b>ID:</b> 5/3/18 Sample					Lab ID: 1805074-1							
Legal Location:			Matrix: WATER										
Collection Date: 5		Percent Moisture:											
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed						
Potentially Dissolv COPPER	ved Metals by 200.8	0.013	EPA	200.8 0.01	Pi MG/L	rep Date: <b>5/7/201</b> 10	8 PrepBy: JML 5/7/2018 17:45						

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### SAMPLE SUMMARY REPORT

	Arkins Park Stone					Date:	08-May-18
Project:					W	ork Order:	1805074
Sample ID:	5/3/18 Sample					Lab ID:	1805074-1
Legal Location:							WATER
	5/3/2018 07:24				Percen	t Moisture:	00.00.000.000.000
soncenon Date.	0/0/2010 07.21			<b>D</b> (			
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyze
Explanation of <b>Q</b>	Qualifiers						
Radiochemistry:							
- "Report Limit" is the	MDC				ed MDC was not		orted
U or ND - Result is le	ss than the sample specific MDC.			and the second	eater than the rep		
Y1 - Chemical Yield in	s in control at 100-110%. Quantitat	ive yield is assumed.			below lower con		
Y2 - Chemical Yield o	outside default limits.				y above upper con		
W - DER is greater th	nan Warning Limit of 1.42				pike Recovery wit		
	s Received' while the Report Basis i				Recovery outside		Line NDO
	ry Weight' while the Report Basis is				ted for duplicate r		5 times MDC
G - Sample density di D - DER is greater that	iffers by more than 15% of LCS den an Control Limit	sity.		-	entration greater t		as then Donussiant
				33 - Analyte cond MDC.	centration greater	than MDC but le	ss than Requested
M - Requested MDC I	not met. an requested MDC but greater than	achieved MDC					
Inorganics:	an requested MDC but greater than	achieved MDC.					
N - Spiked sample reduplicate fail and the Z - Spiked recovery n	on precision was not met. covery not within control limits. A p native sample concentration is less ot within control limits. An explanate	than four times the s ory note may be inclu	pike added	concentration.	ne matrix spike ar	nd or spike	
	<ul> <li>(relative percent difference) not wit mated as one or more analytes used</li> </ul>		ere not det	ected above the	detection limit.		
S - SAR value is estir	mated as one or more analytes used		ere not det	ected above the	detection limit.		
S - SAR value is estir Organics:		d in the calculation we	ere not det	ected above the	detection limit.		
S - SAR value is estir Organics: U or ND - Indicates th	nated as one or more analytes used	d in the calculation we			10. 555 H 18	and warns the d	ata user.
S - SAR value is estir Organics: U or ND - Indicates th B - Analyte is detecte	mated as one or more analytes used	d in the calculation we but not detected, s well as in the samp			10. 555 H 18	and warns the d	ata user.
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Client: Arkins Park Stone Work Order: 1805074 Project:

#### Date: 5/8/2018 1:23:3

QC BATCH REPORT

Batch ID: II	P180507-1-3	Instrument ID IC	PMS2		Method: E	PA200.8						
LCS	Sample ID: IM180507-1				U	nits: MG/L		Analys	is Date:	5/7/2018	3 17:39	
Client ID:		Run II	D: IM180507-1	0A5			Pr	2018	018 DF:			
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
COPPER		0.941	0.01	1		94	85-115				20	
МВ	Sample ID: FP180504-1				U	nits: MG/L		Analys	is Date:	5/7/2018	3 17:33	
Client ID:		Run I	D: IM180507-1	0A5			Pr	ep Date: 5/7/	2018	DF	10	
Analyte		Result	ReportLimit									Qual
COPPER		ND	0.01									
The following samples were analyzed in this batch:			18050	)74-1								

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