

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

July 14, 2021

Naudiea Yon Lee Ranch Coal Co PO Box 757 Grants, NM 87020 TEL: (505) 285-2898 FAX

RE: Lee Ranch Groundwater

OrderNo.: 2106C57

Dear Naudiea Yon:

Hall Environmental Analysis Laboratory received 12 sample(s) on 6/23/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2106C57 Date Reported: 7/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lee Ranch Coal Co

Lab ID:

Project: Lee Ranch Groundwater 2106C57-001

Client Sample ID: Four Corner Use In Well Collection Date: 6/22/2021 8:00:00 AM Received Date: 6/23/2021 4:35:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: JMT
Fluoride	1.0	0.10	mg/L	1	6/23/2021 7:23:22 PM
Chloride	7.1	0.50	mg/L	1	6/23/2021 7:23:22 PM
Sulfate	190	10	mg/L	20	6/23/2021 7:35:44 PM
EPA METHOD 200.7: DISSOLVED METALS					Analyst: ELS
Aluminum	ND	0.020	mg/L	1	6/24/2021 12:14:55 PM
Barium	0.033	0.0020	mg/L	1	6/24/2021 12:14:55 PM
Boron	0.19	0.040	mg/L	1	6/24/2021 12:14:55 PM
Cadmium	ND	0.0020	mg/L	1	6/24/2021 12:14:55 PM
Calcium	33	1.0	mg/L	1	6/24/2021 12:14:55 PM
Chromium	ND	0.0060	mg/L	1	6/24/2021 12:14:55 PM
Cobalt	ND	0.0060	mg/L	1	6/24/2021 12:14:55 PM
Iron	ND	0.020	mg/L	1	6/24/2021 12:14:55 PM
Magnesium	21	1.0	mg/L	1	6/24/2021 12:14:55 PM
Manganese	0.0079	0.0020	mg/L	1	6/24/2021 12:14:55 PM
Molybdenum	ND	0.0080	mg/L	1	6/24/2021 12:14:55 PM
Nickel	ND	0.010	mg/L	1	6/25/2021 10:57:47 AM
Potassium	2.2	1.0	mg/L	1	6/24/2021 12:14:55 PM
Silver	ND	0.0050	mg/L	1	6/24/2021 12:14:55 PM
Sodium	130	5.0	mg/L	5	6/24/2021 12:21:23 PM
Vanadium	ND	0.050	mg/L	1	6/24/2021 12:14:55 PM
Zinc	0.10	0.010	mg/L	1	6/25/2021 10:57:47 AM
EPA METHOD 200.7: METALS					Analyst: ELS
Iron	ND	0.050	mg/L	1	6/25/2021 10:35:45 AM
Manganese	0.0074	0.0020	mg/L	1	6/25/2021 10:35:45 AM
EPA 200.8: DISSOLVED METALS					Analyst: bcv
Arsenic	ND	0.0010	mg/L	1	7/1/2021 7:18:04 PM
Copper	0.013	0.0010	mg/L	1	7/1/2021 7:18:04 PM
Lead	ND	0.00050	mg/L	1	6/25/2021 8:06:35 PM
Selenium	ND	0.0010	mg/L	1	6/25/2021 8:06:35 PM
EPA METHOD 245.1: MERCURY					Analyst: ags
Mercury	ND	0.00020	mg/L	1	6/30/2021 12:09:29 PM
SODIUM ADSORPTION RATIO					Analyst: ELS
Sodium Absorption Ratio	4.3	0		1	6/25/2021 7:50:00 AM
TOTAL PHENOLICS BY SW-846 9067					Analyst: JPM
Phenolics	ND	2.5	µg/L	1	7/7/2021 9:07:00 AM
SM2510B: SPECIFIC CONDUCTANCE					Analyst: CAS

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank в

Е Value above quantitation range

RL

J Analyte detected below quantitation limits Р

Sample pH Not In Range Reporting Limit

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Analytical Report Lab Order 2106C57 Date Reported: 7/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Lee Ranch Coal CoProject:Lee Ranch GroundwaterLab ID:2106C57-001

Client Sample ID: Four Corner Use In Well Collection Date: 6/22/2021 8:00:00 AM Received Date: 6/23/2021 4:35:00 PM

Analyses	Result	RL Qual	Units DF	Date Analyzed
SM2510B: SPECIFIC CONDUCTANCE				Analyst: CAS
Conductivity	860	10	µmhos/c 1	6/29/2021 12:25:50 PM
SM4500-H+B / 9040C: PH				Analyst: CAS
pH	8.16	н	pH units 1	6/29/2021 12:25:50 PM
SM2320B: ALKALINITY				Analyst: CAS
Bicarbonate (As CaCO3)	250.1	20.00	mg/L Ca 1	6/29/2021 12:25:50 PM
Carbonate (As CaCO3)	ND	2.000	mg/L Ca 1	6/29/2021 12:25:50 PM
Total Alkalinity (as CaCO3)	250.1	20.00	mg/L Ca 1	6/29/2021 12:25:50 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst: KS
Total Dissolved Solids	544	20.0 *	mg/L 1	6/30/2021 6:12:00 PM

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Ana		te Reported: 7/14/2021			
CLIENT: Lee Ranch Coal Co		Client Sample	e ID: Fo	ur C	Corner Use In Well Diss
Project: Lee Ranch Groundwater Collection Date: 6/22/2021 8:00:00 AM					
Lab ID: 2106C57-002	Matrix: AQUEOUS	Received D	ate: 6/2	23/2	021 4:35:00 PM
Analyses	Result	RL Qual Un	its D	F	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.10 mg	g/L 1		6/23/2021 7:48:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2106C57

Date Reported: 7/14/2021

CLIENT: Lee Ranch Coal Co		Client Sam	ple ID:	PLD3				
Project: Lee Ranch Groundwater		Collection Date: 6/22/2021 8:50:00 AM						
Lab ID: 2106C57-003	Matrix: AQUEOUS	Received	Date:	6/23/2	021 4:35:00 PM			
Analyses	Result	RL Qual U	U nits	DF	Date Analyzed			
EPA METHOD 300.0: ANIONS					Analyst: JMT			
Fluoride	0.64	0.10	mg/L	1	6/23/2021 8:12:49 PM			
Chloride	1.4	0.50	mg/L	1	6/23/2021 8:12:49 PM			
Sulfate	20	0.50	mg/L	1	6/23/2021 8:12:49 PM			
EPA METHOD 200.7: DISSOLVED	METALS				Analyst: ELS			
Aluminum	ND	0.020	mg/L	1	6/24/2021 12:32:18 PM			
Barium	0.094	0.0020	mg/L	1	6/24/2021 12:32:18 PM			
Boron	0.10	0.040	mg/L	1	6/24/2021 12:32:18 PM			
Cadmium	ND	0.0020	mg/L	1	6/24/2021 12:32:18 PM			
Calcium	2.1	1.0	mg/L	1	6/24/2021 12:32:18 PM			
Chromium	ND	0.0060	mg/L	1	6/24/2021 12:32:18 PM			
Cobalt	ND	0.0060	mg/L	1	6/24/2021 12:32:18 PM			
Iron	ND	0.020	mg/L	1	6/24/2021 12:32:18 PM			
Magnesium	ND	1.0	mg/L	1	6/24/2021 12:32:18 PM			
Manganese	0.0045	0.0020	mg/L	1	6/24/2021 12:32:18 PM			
Molybdenum	ND	0.0080	mg/L	1	6/24/2021 12:32:18 PM			
Nickel	ND	0.010	mg/L	1	6/25/2021 11:02:35 AM			
Potassium	ND	1.0	mg/L	1	6/24/2021 12:32:18 PM			
Silver	ND	0.0050	mg/L	1	6/24/2021 12:32:18 PM			
Sodium	130	5.0	mg/L	5	6/24/2021 12:33:52 PM			
Vanadium	ND	0.050	mg/L	1	6/24/2021 12:32:18 PM			
Zinc	0.028	0.010	mg/L	1	6/25/2021 11:02:35 AM			
EPA METHOD 200.7: METALS					Analyst: ELS			
Iron	ND	0.050	mg/L	1	6/25/2021 10:37:20 AM			
Manganese	0.0053	0.0020	mg/L	1	6/25/2021 10:37:20 AM			
EPA 200.8: DISSOLVED METALS					Analyst: bcv			
Arsenic	ND	0.0010	mg/L	1	7/1/2021 7:22:48 PM			
Copper	0.0012	0.0010	mg/L	1	7/1/2021 7:22:48 PM			
Lead	ND C).00050	mg/L	1	6/25/2021 8:11:19 PM			
Selenium	ND	0.0010	mg/L	1	6/25/2021 8:11:19 PM			
EPA METHOD 245.1: MERCURY					Analyst: ags			
Mercury	ND ().00020	mg/L	1	6/30/2021 12:16:40 PM			
SODIUM ADSORPTION RATIO					Analyst: ELS			
Sodium Absorption Ratio	20	0		1	6/25/2021 7:50:00 AM			
TOTAL PHENOLICS BY SW-846 90	67				Analyst: JPM			
Phenolics	ND	2.5	µg/L	1	7/7/2021 9:07:00 AM			
SM2510B: SPECIFIC CONDUCTAN	CE				Analyst: CAS			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix в Analyte detected in the associated Method Blank

Е Value above quantitation range

RL

J Analyte detected below quantitation limits Р

Sample pH Not In Range Reporting Limit

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Analytical Report

Lab Order 2106C57

Date Reported: 7/14/2021

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Lee Ranch Coal Co
 Client Sample ID: PLD3

 Project:
 Lee Ranch Groundwater
 Collection Date: 6/22/2021 8:50:00 AM

 Lab ID:
 2106C57-003
 Matrix: AQUEOUS
 Received Date: 6/23/2021 4:35:00 PM

 Anschause
 Description
 Discord American American

Analyses	Result	RL Qua	l Units DF	Date Analyzed
SM2510B: SPECIFIC CONDUCTANCE				Analyst: CAS
Conductivity	520	10	µmhos/c 1	6/29/2021 12:37:43 PM
SM4500-H+B / 9040C: PH				Analyst: CAS
рН	8.73	*H	pH units 1	6/29/2021 12:37:43 PM
SM2320B: ALKALINITY				Analyst: CAS
Bicarbonate (As CaCO3)	241.8	20.00	mg/L Ca 1	6/29/2021 12:37:43 PM
Carbonate (As CaCO3)	12.80	2.000	mg/L Ca 1	6/29/2021 12:37:43 PM
Total Alkalinity (as CaCO3)	254.6	20.00	mg/L Ca 1	6/29/2021 12:37:43 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst: KS
Total Dissolved Solids	315	20.0	mg/L 1	6/30/2021 6:12:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.				te Reported: 7/14/2021			
CLIENT: Lee Ranch Co	al Co		Client Sar	nple ID	:PLD3	Diss	
Project: Lee Ranch Gro	oundwater	Collection Date: 6/22/2021 8:50:00 AM					
Lab ID: 2106C57-004]	Matrix: AQUEOUS	AQUEOUS Received Date: 6/23/2021 4:35:00 PM				
Analyses		Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 300.0: AM	NIONS					Analyst: JMT	
Nitrogen, Nitrate (As N)		ND	0.10	mg/L	1	6/23/2021 8:37:31 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2106C57

Date Reported: 7/14/2021

CLIENT: Lee Ranch Coal Co		Client Sample ID: PLD4						
Project: Lee Ranch Groundwater	Collection Date: 6/22/2021 9:30:00 AM							
Lab ID: 2106C57-005	Matrix: AQUEOUS	R	Received Date:	6/23/2	021 4:35:00 PM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed			
EPA METHOD 300.0: ANIONS					Analyst: JMT			
Fluoride	0.79	0.10	mg/L	1	6/23/2021 9:26:53 PM			
Chloride	0.94	0.50	mg/L	1	6/23/2021 9:26:53 PM			
Sulfate	15	0.50	mg/L	1	6/23/2021 9:26:53 PM			
EPA METHOD 200.7: DISSOLVED META	LS				Analyst: ELS			
Aluminum	ND	0.020	mg/L	1	6/24/2021 12:35:27 PM			
Barium	0.16	0.0020	mg/L	1	6/24/2021 12:35:27 PM			
Boron	0.11	0.040	mg/L	1	6/24/2021 12:35:27 PM			
Cadmium	ND	0.0020	mg/L	1	6/24/2021 12:35:27 PM			
Calcium	3.4	1.0	mg/L	1	6/24/2021 12:35:27 PM			
Chromium	ND	0.0060	mg/L	1	6/24/2021 12:35:27 PM			
Cobalt	ND	0.0060	mg/L	1	6/24/2021 12:35:27 PM			
Iron	0.023	0.020	mg/L	1	6/24/2021 12:35:27 PM			
Magnesium	ND	1.0	mg/L	1	6/24/2021 12:35:27 PM			
Manganese	0.0053	0.0020	mg/L	1	6/24/2021 12:35:27 PM			
Molybdenum	ND	0.0080	mg/L	1	6/24/2021 12:35:27 PM			
	ND	0.010	mg/L	1	6/25/2021 11:04:09 AM			
Silver	ND	0.0050	mg/∟	1	6/24/2021 12:33:27 FW			
Sodium	110	5.0	mg/L	5	6/24/2021 12:33.27 PM			
Vanadium	ND	0.050	mg/L	1	6/24/2021 12:35:27 PM			
Zinc	0.038	0.010	ma/L	1	6/25/2021 11:04:09 AM			
EPA METHOD 200.7: METALS					Analvst: ELS			
Iron	ND	0.050	ma/l	1	6/25/2021 10:38:55 AM			
Manganese	0.0046	0.0020	ma/L	1	6/25/2021 10:38:55 AM			
EPA 200.8: DISSOLVED METALS			5		Analyst: bcv			
Arsenic	ND	0.0010	ma/l	1	7/7/2021 11·46·03 AM			
Copper	0.0028	0.0010	ma/L	1	7/1/2021 7:46:28 PM			
Lead	ND	0.00050	mg/L	1	6/25/2021 8:16:04 PM			
Selenium	ND	0.0010	mg/L	1	6/25/2021 8:16:04 PM			
EPA METHOD 245.1: MERCURY					Analyst: ags			
Mercury	ND	0.00020	mg/L	1	6/30/2021 12:19:04 PM			
SODIUM ADSORPTION RATIO			-		Analyst: ELS			
Sodium Absorption Ratio	14	0		1	6/25/2021 7:50:00 AM			
TOTAL PHENOLICS BY SW-846 9067					Analyst: JPM			
Phenolics	ND	2.5	μg/L	1	7/13/2021 1:31:00 PM			
SM2510B: SPECIFIC CONDUCTANCE					Analyst: CAS			

Hall Environmental Analysis Laboratory, Inc.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report

Lab Order 2106C57

Date Reported: 7/14/2021

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Lee Ranch Coal Co
 Client Sample ID: PLD4

 Project:
 Lee Ranch Groundwater
 Collection Date: 6/22/2021 9:30:00 AM

 Lab ID:
 2106C57-005
 Matrix: AQUEOUS
 Received Date: 6/23/2021 4:35:00 PM

 Analyzer
 Paralyzer
 Paralyzer
 Paralyzer

Analyses	Result	RL Qua	l Units DF	Date Analyzed
SM2510B: SPECIFIC CONDUCTANCE				Analyst: CAS
Conductivity	450	10	µmhos/c 1	6/29/2021 12:51:21 PM
SM4500-H+B / 9040C: PH				Analyst: CAS
рН	8.56	*H	pH units 1	6/29/2021 12:51:21 PM
SM2320B: ALKALINITY				Analyst: CAS
Bicarbonate (As CaCO3)	215.5	20.00	mg/L Ca 1	6/29/2021 12:51:21 PM
Carbonate (As CaCO3)	6.800	2.000	mg/L Ca 1	6/29/2021 12:51:21 PM
Total Alkalinity (as CaCO3)	222.3	20.00	mg/L Ca 1	6/29/2021 12:51:21 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst: KS
Total Dissolved Solids	274	20.0	mg/L 1	6/30/2021 6:12:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.			Date Reported: 7/1				
CLIENT: Lee Ranch Coal Co		Client Sa	mple ID	PLD4	Diss		
Project: Lee Ranch Groundwater	Collection Date: 6/22/2021 9:30:00 AM						
Lab ID: 2106C57-006	Matrix: AQUEOUS	Receiv	ed Date	: 6/23/2	021 4:35:00 PM		
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Nitrogen, Nitrate (As N)	ND	0.10	mg/L	1	6/23/2021 9:51:36 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report

Lab Order 2106C57

Date Reported: 7/14/2021

CLIENT:	Lee Ranch Coal Co		Clie	Client Sample ID: PLD5						
Project:	Lee Ranch Groundwater		Collection Date: 6/22/2021 8:30:00 AM							
Lab ID:	2106C57-007	Matrix: AQUEOUS	F	Received	Date	:6/23/2	021 4:35:00 PM			
Analyses		Result	RL	Qual U	nits	DF	Date Analyzed			
EPA MET	HOD 300.0: ANIONS						Analyst: JMT			
Fluoride		0.54	0.50	n	ng/L	5	6/23/2021 10:16:17 PM			
Chloride		5.4	2.5	n	ng/L	5	6/23/2021 10:16:17 PM			
Sulfate		220	2.5	n	ng/L	5	6/23/2021 10:16:17 PM			
EPA MET	HOD 200.7: DISSOLVED MET	ALS					Analyst: ELS			
Aluminur	n	ND	0.020	n	ng/L	1	6/24/2021 12:38:35 PM			
Barium		0.017	0.0020	n	ng/L	1	6/24/2021 12:38:35 PM			
Boron		0.13	0.040	n	ng/L	1	6/24/2021 12:38:35 PM			
Cadmiun	n	ND	0.0020	n	ng/L	1	6/24/2021 12:38:35 PM			
Calcium		48	1.0	n	ng/L	1	6/24/2021 12:38:35 PM			
Chromiu	m	ND	0.0060	n	ng/L	1	6/24/2021 12:38:35 PM			
Cobalt		ND	0.0060	n	ng/L	1	6/24/2021 12:38:35 PM			
Iron		ND	0.020	n	ng/L	1	6/24/2021 12:38:35 PM			
Magnesi	um	31	1.0	n	ng/L	1	6/24/2021 12:38:35 PM			
Mangane	ese	0.017	0.0020	n	ng/L	1	6/24/2021 12:38:35 PM			
Molybde	num	ND	0.0080	n	ng/L	1	6/24/2021 12:38:35 PM			
Nickel		ND	0.010	n	ng/L	1	6/25/2021 11:05:43 AM			
Potassiu	m	2.2	1.0	n	ng/L	1	6/24/2021 12:38:35 PM			
Silver		ND	0.0050	n	ng/L	1	6/24/2021 12:38:35 PM			
Soaium	~	95	1.0	n	ng/∟	1	6/24/2021 12:38:35 PM			
Zinc	11	ND 0.025	0.050	n 1	ng/∟ ng/l	1	6/24/2021 12:36:35 PW			
		0.025	0.010		lig/∟	I	0/25/2021 11.05.45 AM			
	HOD 200.7. METALS	0.60	0.050	* n	na/l	1	6/25/2021 10:40:28 AM			
Mandane		0.09	0.030	n	ng/∟ ng/l	1	6/25/2021 10:40:28 AM			
FPA 200	8. DISSOLVED METALS	0.024	0.0020		iig/ L	·	Analyst: hcv			
			0.0010		og/l	1	7/7/2021 12:00:47 DM			
Coppor			0.0010	n 1	ng/∟ ng/l	1	7/1/2021 12:09:47 PW			
Load		ND	0.0010		ng/∟ ng/l	1	6/25/2021 7.33.33 FM			
Selenium		ND	0.00030	n	ng/∟ na/l	1	6/25/2021 8:20:48 PM			
			0.0010		iig/ L	·	Analyst: ans			
Moroury			0 00020		og/l	1	6/20/2021 12:21:28 PM			
		UN	0.00020	n	ng/∟	I	0/30/2021 12:21:28 PM			
SODIUM			_				Analyst: ELS			
Sodium /	Absorption Ratio	2.6	0			1	6/25/2021 7:50:00 AM			
TOTAL P	HENOLICS BY SW-846 9067						Analyst: JPM			
Phenolic	S	ND	2.5	μ	ıg/L	1	7/13/2021 1:31:00 PM			
SM2510E	S: SPECIFIC CONDUCTANCE						Analyst: CAS			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

в Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits Р

Sample pH Not In Range

RL Reporting Limit

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Analytical Report

Lab Order 2106C57

Date Reported: 7/14/2021

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Lee Ranch Coal Co
 Client Sample ID: PLD5

 Project:
 Lee Ranch Groundwater
 Collection Date: 6/22/2021 8:30:00 AM

 Lab ID:
 2106C57-007
 Matrix: AQUEOUS
 Received Date: 6/23/2021 4:35:00 PM

 Analyses
 Result
 RL Qual Units
 DF
 Date Analyzed

SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	840	10		µmhos/c	1	6/29/2021 1:04:02 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	8.12		н	pH units	1	6/29/2021 1:04:02 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO3)	226.3	20.00		mg/L Ca	1	6/29/2021 1:04:02 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	6/29/2021 1:04:02 PM
Total Alkalinity (as CaCO3)	226.3	20.00		mg/L Ca	1	6/29/2021 1:04:02 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	546	20.0	*	mg/L	1	6/30/2021 6:12:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 33

Hall Environmental Analysis Laboratory, Inc.				te Reported: 7/14/2021			
CLIENT: Lee	e Ranch Coal Co		Client Sa	mple ID	:PLD5	Diss	
Project: Lee	e Ranch Groundwater	Collection Date: 6/22/2021 8:30:00 AM					
Lab ID: 210	06C57-008	Matrix: AQUEOUS	Receiv	ed Date	: 6/23/2	021 4:35:00 PM	
Analyses		Result	RL Qual	Units	DF	Date Analyzed	
EPA METHO	D 300.0: ANIONS					Analyst: JMT	
Nitrogen, Nitr	ate (As N)	ND	0.10	mg/L	1	6/23/2021 10:40:58 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/14/2021

CLIENT: Lee Ranch Coal Co Client Sample ID: Pit 8 Wells **Project:** Lee Ranch Groundwater Collection Date: 6/22/2021 10:00:00 AM Lab ID: 2106C57-009 Matrix: AQUEOUS Received Date: 6/23/2021 4:35:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT 6/23/2021 11:05:39 PM Fluoride 0.55 0.10 mg/L 1 0.50 Chloride 1.0 mg/L 1 6/23/2021 11:05:39 PM Sulfate 0.50 mg/L 1 6/23/2021 11:05:39 PM 12 **EPA METHOD 200.7: DISSOLVED METALS** Analyst: ELS Aluminum ND 0.020 6/24/2021 12:41:45 PM mg/L 1 Barium 0.16 0.0020 mg/L 1 6/24/2021 12:41:45 PM Boron 0.091 0.040 mg/L 1 6/24/2021 12:41:45 PM Cadmium ND 0.0020 mg/L 1 6/24/2021 12:41:45 PM Calcium 3.5 1.0 mg/L 1 6/24/2021 12:41:45 PM 6/24/2021 12:41:45 PM ND 0.0060 Chromium mg/L 1 Cobalt ND 0.0060 mg/L 6/24/2021 12:41:45 PM 1 ND 0.020 6/24/2021 12:41:45 PM Iron mg/L 1 Magnesium ND 1.0 mg/L 1 6/24/2021 12:41:45 PM 0.0038 Manganese 0.0020 mg/L 1 6/24/2021 12:41:45 PM 6/24/2021 12:41:45 PM Molvbdenum ND 0.0080 ma/L 1 Nickel ND 0.010 mg/L 1 6/25/2021 11:07:17 AM Potassium 6/24/2021 12:41:45 PM 12 1.0 mg/L 1 Silver ND 0.0050 mg/L 1 6/24/2021 12:41:45 PM Sodium 97 mg/L 1 6/24/2021 12:41:45 PM 1.0 Vanadium ND 0.050 mg/L 1 6/24/2021 12:41:45 PM Zinc 0.017 0.010 mg/L 6/25/2021 11:07:17 AM 1 **EPA METHOD 200.7: METALS** Analyst: ELS Iron 0.051 0.050 mg/L 1 6/25/2021 9:35:01 AM 0.0081 6/25/2021 9:35:01 AM Manganese 0.0020 mg/L 1 EPA 200.8: DISSOLVED METALS Analyst: bcv Arsenic ND 0.0010 mg/L 1 7/7/2021 12:19:16 PM 0.0024 0.0010 mg/L 7/1/2021 8:00:39 PM Copper 1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

ND

ND

ND

12

ND

0.00050

0.0010

0.00020

0

2.5

Value exceeds Maximum Contaminant Level **Qualifiers:** D Sample Diluted Due to Matrix н

Hall Environmental Analysis Laboratory, Inc.

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

Lead

Selenium

Mercury

Phenolics

EPA METHOD 245.1: MERCURY

SODIUM ADSORPTION RATIO

TOTAL PHENOLICS BY SW-846 9067

SM2510B: SPECIFIC CONDUCTANCE

Sodium Absorption Ratio

S % Recovery outside of range due to dilution or matrix в Analyte detected in the associated Method Blank

Е Value above quantitation range

mg/L

mg/L

mg/L

µg/L

1

1

1

1

1

J Analyte detected below quantitation limits Р

Sample pH Not In Range

RL Reporting Limit Page 13 of 33

6/25/2021 8:25:33 PM

6/25/2021 8:25:33 PM

6/25/2021 7:50:00 AM

7/13/2021 1:31:00 PM

Analyst: ags 6/30/2021 12:23:53 PM

Analyst: ELS

Analyst: JPM

Analyst: CAS

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lee Ranch Coal CoClient Sample ID: Pit 8 WellsProject: Lee Ranch GroundwaterCollection Date: 6/22/2021 10:00:00 AMLab ID: 2106C57-009Matrix: AQUEOUSReceived Date: 6/23/2021 4:35:00 PM

Analyses	Result	RL Qual	Units DF	Date Analyzed
SM2510B: SPECIFIC CONDUCTANCE				Analyst: CAS
Conductivity	410	10	µmhos/c 1	6/29/2021 1:15:23 PM
SM4500-H+B / 9040C: PH				Analyst: CAS
рН	8.75	*H	pH units 1	6/29/2021 1:15:23 PM
SM2320B: ALKALINITY				Analyst: CAS
Bicarbonate (As CaCO3)	190.0	20.00	mg/L Ca 1	6/29/2021 1:15:23 PM
Carbonate (As CaCO3)	11.20	2.000	mg/L Ca 1	6/29/2021 1:15:23 PM
Total Alkalinity (as CaCO3)	201.2	20.00	mg/L Ca 1	6/29/2021 1:15:23 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst: KS
Total Dissolved Solids	244	20.0	mg/L 1	6/30/2021 6:12:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Limit

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Date Reported: 7/14/2021

Hall Environmental Analys	is Laboratory, Inc.		Date Reported: 7/14/2021				
CLIENT: Lee Ranch Coal Co		Client Sample ID: Pit 8 Wells Diss					
Project: Lee Ranch Groundwater		Collecti	on Date	: 6/22/2	2021 10:00:00 AM		
Lab ID: 2106C57-010	Matrix: AQUEOUS	Receiv	Received Date: 6/23/2021 4:35:00 PM				
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Nitrogen, Nitrate (As N)	ND	0.10	mg/L	1	6/23/2021 11:55:00 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lee Ranch Coal Co

Lab ID:

Project: Lee Ranch Groundwater 2106C57-011

Client Sample ID: DR Arroyo Collection Date: 6/22/2021 10:00:00 AM Matrix: AQUEOUS Received Date: 6/23/2021 4:35:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: JMT
Fluoride	0.52	0.10	mg/L	1	6/24/2021 12:19:42 AM
Chloride	0.99	0.50	mg/L	1	6/24/2021 12:19:42 AM
Sulfate	11	0.50	mg/L	1	6/24/2021 12:19:42 AM
EPA METHOD 200.7: DISSOLVED METALS					Analyst: ELS
Aluminum	ND	0.020	mg/L	1	6/24/2021 12:44:52 PM
Barium	0.16	0.0020	mg/L	1	6/24/2021 12:44:52 PM
Boron	0.086	0.040	mg/L	1	6/24/2021 12:44:52 PM
Cadmium	ND	0.0020	mg/L	1	6/24/2021 12:44:52 PM
Calcium	2.9	1.0	mg/L	1	6/24/2021 12:44:52 PM
Chromium	ND	0.0060	mg/L	1	6/24/2021 12:44:52 PM
Cobalt	ND	0.0060	mg/L	1	6/24/2021 12:44:52 PM
Iron	ND	0.020	mg/L	1	6/24/2021 12:44:52 PM
Magnesium	ND	1.0	mg/L	1	6/24/2021 12:44:52 PM
Manganese	0.0034	0.0020	mg/L	1	6/24/2021 12:44:52 PM
Molybdenum	ND	0.0080	mg/L	1	6/24/2021 12:44:52 PM
Nickel	ND	0.010	mg/L	1	6/25/2021 11:08:51 AM
Potassium	ND	1.0	mg/L	1	6/24/2021 12:44:52 PM
Silver	ND	0.0050	mg/L	1	6/24/2021 12:44:52 PM
Sodium	90	1.0	mg/L	1	6/24/2021 12:44:52 PM
Vanadium	ND	0.050	mg/L	1	6/24/2021 12:44:52 PM
Zinc	0.036	0.010	mg/L	1	6/25/2021 11:08:51 AM
EPA METHOD 200.7: METALS					Analyst: ELS
Iron	ND	0.050	mg/L	1	6/25/2021 10:42:05 AM
Manganese	0.0068	0.0020	mg/L	1	6/25/2021 10:42:05 AM
EPA 200.8: DISSOLVED METALS					Analyst: bcv
Arsenic	ND	0.0010	mg/L	1	7/7/2021 12:24:00 PM
Copper	ND	0.0010	mg/L	1	7/1/2021 8:05:22 PM
Lead	ND	0.00050	mg/L	1	6/25/2021 8:39:49 PM
Selenium	ND	0.0010	mg/L	1	6/25/2021 8:39:49 PM
EPA METHOD 245.1: MERCURY					Analyst: ags
Mercury	ND	0.00020	mg/L	1	6/30/2021 12:26:18 PM
SODIUM ADSORPTION RATIO					Analyst: ELS
Sodium Absorption Ratio	13	0		1	6/25/2021 7:50:00 AM
TOTAL PHENOLICS BY SW-846 9067					Analyst: JPM
Phenolics	ND	2.5	µg/L	1	7/13/2021 1:31:00 PM
SM2510B: SPECIFIC CONDUCTANCE					Analyst: CAS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* **Qualifiers:** Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank в

Е Value above quantitation range

J Analyte detected below quantitation limits Р

Sample pH Not In Range

Page 16 of 33

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lee Ranch Coal Co

Project: Lee Ranch Groundwater

Date Reported: 7/14/2021 Client Sample ID: DR Arroyo Collection Date: 6/22/2021 10:00:00 AM

Lab ID: 2106C57-011	Matrix: AQUEOUS	Receiv	red Date: 6/23/20	021 4:35:00 PM
Analyses	Result	RL Qual	Qual Units DF Date Analyz	
SM2510B: SPECIFIC CONDUCTANCE				Analyst: CAS
Conductivity	390	10	µmhos/c 1	6/29/2021 1:27:13 PM
SM4500-H+B / 9040C: PH				Analyst: CAS
рН	8.52	*H	pH units 1	6/29/2021 1:27:13 PM
SM2320B: ALKALINITY				Analyst: CAS
Bicarbonate (As CaCO3)	185.2	20.00	mg/L Ca 1	6/29/2021 1:27:13 PM
Carbonate (As CaCO3)	5.280	2.000	mg/L Ca 1	6/29/2021 1:27:13 PM
Total Alkalinity (as CaCO3)	190.5	20.00	mg/L Ca 1	6/29/2021 1:27:13 PM
SM2540C MOD: TOTAL DISSOLVED SOLI	DS			Analyst: KS
Total Dissolved Solids	233	20.0	mg/L 1	6/30/2021 6:12:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall E	nvironmental Analys	sis Laboratory, Inc.			Da	te Reported: 7/14/2021		
CLIENT:	Lee Ranch Coal Co		Client Sa	mple ID	:DR A	rroyo Diss		
Project:	Lee Ranch Groundwater	Collection Date: 6/22/2021 10:00:00 A						
Lab ID:	2106C57-012	Matrix: AQUEOUS	Receiv	Received Date: 6/23/2021 4:35:00 PM				
Analyses		Result	RL Qual	Units	DF	Date Analyzed		
EPA MET	HOD 300.0: ANIONS					Analyst: JMT		
Nitrogen	, Nitrate (As N)	ND	0.10	mg/L	1	6/24/2021 12:44:24 AM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Pace Analytical® ANALYTICAL REPORT July 07, 2021

Hall Environmental Analysis Laboratory

Sample Delivery Group:

Samples Received:

Project Number:

L1371076 06/25/2021

Report To:

Description:

Jackie Bolte 4901 Hawkins NE Albuquerque, NM 87109

Тс Ss Cn Sr ʹQc Gl AI Sc

Entire Report Reviewed By: John V Haulins

John Hawkins Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT: Hall Environmental Analysis Laboratory

SDG: L1371076

DATE/TIME: 07/07/21 15:43 PAGE: 1 of 14

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Ср

Ss

Cn

Sr

Qc

GI

ΆI

SAMPLE SUMMARY

2106C57-001E FOUR CORNER USE IN WELL L13	71076-01 V	VW	Collected by	Collected date/time 06/22/21 08:00	Received da 06/25/21 09	te/time :00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500CN E-2011	WG1700395	1	07/05/21 17:25	07/05/21 20:22	KEG	Mt. Juliet, TN
2106C57-003E PLD3 L1371076-02 WW			Collected by	Collected date/time 06/22/21 08:50	Received da 06/25/21 09	te/time :00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500CN E-2011	WG1700395	1	07/05/21 17:25	07/05/21 20:24	KEG	Mt. Juliet, TN
2106C57-005E PLD4 L1371076-03 WW			Collected by	Collected date/time 06/22/21 09:30	Received da 06/25/21 09	te/time :00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500CN E-2011	WG1700395	1	07/05/21 17:25	07/05/21 20:25	KEG	Mt. Juliet, TN
2106C57-007E PLD5 L1371076-04 WW			Collected by	Collected date/time 06/22/21 08:30	Received da 06/25/21 09	te/time :00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500CN E-2011	WG1700395	1	07/05/21 17:25	07/05/21 20:55	KEG	Mt. Juliet, TN
2106C57-009E PIT 8 WELLS L1371076-05 WW			Collected by	Collected date/time 06/22/21 10:00	Received da 06/25/21 09	te/time :00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500CN E-2011	WG1700395	1	07/05/21 17:25	07/05/21 20:56	KEG	Mt. Juliet, TN
2106C57-011E DR ARROYO L1371076-06 WW			Collected by	Collected date/time 06/22/2110:00	Received da 06/25/21 09	te/time :00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500CN E-2011	WG1700395	1	07/05/2117:25	07/05/21 20:57	KEG	Mt. Juliet, TN

SDG: L1371076 Ср

²Tc

Ss

Cn

Sr

Qc

GI

ΆI

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John V Howkins

John Hawkins Project Manager



Collected date/time: 06/22/21 08:00

SAMPLE RESULTS - 01

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Cp
Analyte	mg/l		mg/l		date / time		2
Cyanide	0.0146	<u>J3</u>	0.00500	1	07/05/2021 20:22	WG1700395	¯Тс

2106C57-003E PLD3 Collected date/time: 06/22/21 08:50

SAMPLE RESULTS - 02

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Cr
Analyte	mg/l		mg/l		date / time		2
Cyanide	ND		0.00500	1	07/05/2021 20:24	<u>WG1700395</u>	¯Тс

2106C57-005E PLD4 collected date/time: 06/22/21 09:30

SAMPLE RESULTS - 03

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Cr
Analyte	mg/l		mg/l		date / time		2
Cyanide	ND		0.00500	1	07/05/2021 20:25	<u>WG1700395</u>	Tc

2106C57-007E PLD5 Collected date/time: 06/22/21 08:30

SAMPLE RESULTS - 04

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Cr
Analyte	mg/l		mg/l		date / time		2
Cyanide	ND		0.00500	1	07/05/2021 20:55	<u>WG1700395</u>	Tc

SAMPLE RESULTS - 05

							l'Cr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		2
Cyanide	ND		0.00500	1	07/05/2021 20:56	WG1700395	⁻Tc

SAMPLE RESULTS - 06

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Cp
Analyte	mg/l		mg/l		date / time		2
Cyanide	ND		0.00500	1	07/05/2021 20:57	WG1700395	Tc

WG1700395

Wet Chemistry by Method 4500CN E-2011

QUALITY CONTROL SUMMARY L1371076-01,02,03,04,05,06

Method Blank (MB)

(MB) R3675771-1 07/05	6/21 20:16			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Cyanide	U		0.00180	0.00500

L1371076-01 Original Sample (OS) • Duplicate (DUP)

L13/10/6-01 Original Sample (OS) • Duplicate (DOP)							⁴ Cn
(OS) L13/10/6-01 0//05/2	120:22 • (DUP)	R36/5//1-2 ()//05/212	0:23			_
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁵ Sr
Analyte	mg/l	mg/l		%		%	
Cyanide	0.0146	0.0277	1	61.9	<u>J3</u>	20	⁶ Qc

Laboratory Control Sample (LCS)

(LCS) R3675771-3 07/05/	(LCS) R3675771-3 07/05/21 20:52						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%			
Cyanide	0.100	0.0896	89.6	87.1-120			

L1372407-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

OS) L1372407-04 07/05/21 20:54 • (MS) R3675771-4 07/05/21 20:58 • (MSD) R3675771-5 07/05/21 20:59												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	0.0576	0.139	0.143	81.4	85.4	1	90.0-110	<u>J6</u>	<u>J6</u>	2.84	20

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GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
13	The associated batch OC was outside the established quality control range for precision

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

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ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee ¹⁴	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

SDG: L1371076 Τс

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CHAIN OF CUSTODY RECORD 1



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SUB CC	NTRATOR: Pace 7	COMPANY:	PACE T	N		PHONE:	(800) 767-5859	FAX:	(615) 758-5859
ADDRE	ss: 12065	Lebanon Rd				ACCOUNT #:		EMAIL	
CITY, S	TATE, ZIP: Mt. Ju	lliet, TN 37122							
							# CONT		A073 U371076
ITEM	SAMPLE	CLIENT SAMPLE ID		BOTTLE TYPE	MATRIX	COLLECTION DATE	AINERS	ANALYTICA	AL COMMENTS
1	2106C57-001E	Four Corner Use In Well		500AMBHDP	Aqueous	6/22/2021 8:00:00 AM	1 Total Cyanide		-01
2	2106C57-003E	PLD3		500AMBHDP	Aqueous	6/22/2021 8 50:00 AM	1 Total Cyanide		-02
3	2106C57-005E	PLD4		500AMBHDP	Aqueous	6/22/2021 9:30:00 AM	1 Total Cyanide		-03
4	2106C57-007E	PLD5		500AMBHDP	Aqueous	6/22/2021 8:30:00 AM	1 Total Cyanide		-cy
5	2106C57-009E	Pit 8 Wells		500AMBHDP	Aqueous	6/22/2021 10:00:00 AM	1 Total Cyanide		-05
6	2106C57-011E	DR Arroyo		500AMBHDP	Aqueous	6/22/2021 10:00:00 AM	1 Total Cyanide		-06

OF:

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	Sample Receir COC Seal Present/Intact:	N VOA Zero Headspace: N VOA Zero Headspace: N Pres.Correct/Check: N N N N
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SPECIAL INSTRUCTIONS / COMMENTS:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	REPOR	T TRANSMITT	TAL DESIRED:	
	6/24/2021	8:32 AM				HARDCOPY (extra cost)	🗌 FAX	EMAIL	ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:]	FOR LAB	SVILY	
Relinquished By:	Date:	Time:	Received By any h	Whish	Timagoo	Temp of samples 1.647)-1-6c	Attempt to Cool ?	

WO#: 2106C57 14-Jul-21

Client: Project:	I I	Lee Ranch Coal C Lee Ranch Ground	o lwater									
Sample ID:	MB	Samp	Type: ME	BLK	Tes	TestCode: EPA Method 200.7: Metals						
Client ID:	PBW	Bat	ch ID: A7	9359	F	RunNo: 7	9359					
Prep Date:		Analysis	Date: 6/	25/2021	5	SeqNo: 2	788205	Units: mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron		ND	0.050									
Manganese		ND	0.0020									
Nickel		ND	0.010									
Zinc		ND	0.010									
Sample ID:	LLLCS	Samp	Type: LC	SLL	Tes	tCode: E	PA Method	200.7: Metals				
Client ID:	BatchQC	Bat	ch ID: A7	9359	F	RunNo: 7	9359					
Prep Date:		Analysis	Date: 6/	25/2021	S	SeqNo: 2	788207	Units: mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron		ND	0.050	0.02000	0	123	50	150				
Manganese		ND	0.0020	0.002000	0	92.3	50	150				
Nickel		ND	0.010	0.005000	0	59.7	50	150				
Zinc		0.013	0.010	0.01000	0	128	50	150				
Sample ID:	2106C57	-011CMS Samp	Type: MS	6	Tes	tCode: E	PA Method	200.7: Metals				
Client ID:	DR Arro	yo Bat	ch ID: A7	9359	RunNo: 79359							
Prep Date:		Analysis	Date: 6/	25/2021	S	SeqNo: 2	788310	Units: mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron		0.49	0.050	0.5000	0	98.0	70	130				
Manganese		0.47	0.0020	0.5000	0.006806	92.4	70	130				
Sample ID:	2106C57	-011CMSD Samp	Туре: М	SD	TestCode: EPA Method 200.7: Metals							
Client ID:	DR Arro	/o Bat	ch ID: A7	9359	F	RunNo: 7	9359					
Prep Date:		Analysis	Date: 6/	25/2021	S	SeqNo: 2	788312	Units: mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron		0.50	0.050	0.5000	0	99.0	70	130	1.04	20		
Manganese		0.49	0.0020	0.5000	0.006806	96.0	70	130	3.72	20		
Sample ID:	LCS	Samp	Type: LC	s	Tes	tCode: E	PA Method	200.7: Metals				
Client ID:	LCSW	Bat	ch ID: A7	9359	F	RunNo: 7	9359					
Prep Date:		Analysis	Date: 6/	25/2021	5	SeqNo: 2	788338	Units: mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron		0.49	0.050	0.5000	0	97.8	85	115				
Manganese		0.48	0.0020	0.5000	0	95.7	85	115				
Nickel		0.46	0.010	0.5000	0	92.0	85	115				
Zinc		0.50	0.010	0.5000	0	101	85	115				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

WO#:	2106C57

14-Jul-21

Client: Project:	Lee Rai Lee Rai	nch Coal Co nch Ground	o Iwater								
Sample ID:	MB-60909	Samp	Туре: МЕ	BLK	TestCode: EPA Method 200.7: Metals						
Client ID:	PBW	Bato	Batch ID: 60909			RunNo: 79	9359				
Prep Date:	6/24/2021	Analysis	Date: 6/	25/2021	S	SeqNo: 2	788346	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		ND	0.050								
Manganese		ND	0.0020								
Sample ID:	LLLCS-60909	Samp	Type: LC	SLL	Tes	tCode: EF	PA Method	200.7: Metals			
Client ID:	BatchQC	Batch ID: 60909			F	RunNo: 7 9	9359				
Prep Date:	6/24/2021	Analysis	Date: 6/	25/2021	S	SeqNo: 2	788348	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		ND	0.050	0.02000	0	117	50	150			
Manganese		0.0023	0.0020	0.002000	0	115	50	150			
Sample ID:	LCS-60909	Samp	Туре: LC	S	Tes	tCode: EF	PA Method	200.7: Metals			
Client ID:	LCSW	Bato	ch ID: 60	909	F	RunNo: 7 9	9359				
Prep Date:	6/24/2021	Analysis	Date: 6/	25/2021	5	SeqNo: 2	788350	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.52	0.050	0.5000	0	104	85	115			
Manganese		0.49	0.0020	0.5000	0	97.9	85	115			
Iron Manganese		0.52 0.49	0.050 0.0020	0.5000 0.5000	0 0	104 97.9	85 85	115 115	%κPD	KPULIMIT	Quai

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#: 2106C57

Client:	Lee Ranch Coal C	0								
Project:	Lee Ranch Ground	lwater								
Sample ID: MB	Samp	Type: ME	BLK	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW	Bate	ch ID: B7	9326	F	RunNo: 7	9326				
Prep Date:	Analysis	Date: 6/	24/2021	5	SeqNo: 2	786678	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Vanadium	ND	0.050								
Vanadium Sample ID: LLLC	ND Samp	0.050 Type: LC	SLL	Tes	tCode: El	PA Method	200.7: Dissol	ved Metal	s	
Vanadium Sample ID: LLLC Client ID: Batcl	ND S Samp nQC Bate	0.050 Type: LC ch ID: B7	SLL 9326	Tes	tCode: El	PA Method 9326	200.7: Dissol	ved Metal	s	
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date:	ND S Samp nQC Bate Analysis	0.050 Type: LC ch ID: B7 Date: 6 /	SLL 9326 24/2021	Tes F	tCode: El RunNo: 79 SeqNo: 2	PA Method 9326 786696	200.7: Dissolv Units: mg/L	ved Metal	s	
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analvte	ND S Samp nQC Bate Analysis Result	0.050 Type: LC ch ID: B7 Date: 6/ PQL	SLL 9326 24/2021 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 7 SeqNo: 2 %REC	PA Method 9326 786696 LowLimit	200.7: Dissol Units: mg/L HighLimit	ved Metal	s RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum	ND S Samp nQC Bate Analysis Result ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020	SLL 9326 24/2021 SPK value 0.01000	Tes F SPK Ref Val 0	tCode: El RunNo: 7 SeqNo: 2 %REC 94.9	PA Method 9326 786696 LowLimit 50	200.7: Dissolv Units: mg/L HighLimit 150	ved Metal %RPD	s RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium	ND S Samp nQC Bate Analysis Result ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.0020	SLL 29326 24/2021 SPK value 0.01000 0.002000	Tes F SPK Ref Val 0 0	tCode: EI RunNo: 79 SeqNo: 2 %REC 94.9 86.9	PA Method 9326 786696 LowLimit 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150	ved Metal %RPD	RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Boron	ND S Samp nQC Bate Analysis <u>Result</u> ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.0020 0.040	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000	Tes F SPK Ref Val 0 0 0	tCode: El RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9	PA Method 9326 786696 LowLimit 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150	ved Metal %RPD	RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium	ND S Samp hQC Bate Analysis Result ND ND ND ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.0020 0.040 0.0020	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000	Tes F SPK Ref Val 0 0 0 0 0	tCode: El RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0	PA Method 9326 786696 LowLimit 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150	ved Metal %RPD	RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium	ND S Samp nQC Bate Analysis Result ND ND ND ND ND ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.040 0.0020 0.040 0.0020 1.0	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.5000	Tes F SPK Ref Val 0 0 0 0 0 0 0	tCode: EI RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0 99.9	PA Method 9326 786696 LowLimit 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150	ved Metal %RPD	s RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium	ND S Samp AQC Bate Analysis Result ND ND ND ND ND ND ND ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.040 0.0020 0.040 0.0020 1.0 0.0060	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.5000 0.006000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0	tCode: EI RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0 99.9 114	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150	ved Metal %RPD	s RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium Cobalt	ND S Samp nQC Bate Analysis Result ND ND ND ND ND ND ND 0.0069 0.0061	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.040 0.0020 1.0 0.0060 0.0060	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.5000 0.006000 0.006000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tCode: Ef RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0 99.9 114 102	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150 150	ved Metal %RPD	s RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium Cobalt Iron	ND S Samp nQC Bate Analysis Result ND ND ND ND ND ND ND 0.0069 0.0061 0.020	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.0020 0.0020 1.0 0.0060 0.0060 0.020	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.5000 0.006000 0.006000 0.02000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tCode: Ef RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0 99.9 114 102 101	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150 150 150	ved Metal %RPD	s RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium Cobalt Iron Magnesium	ND S Samp Analysis Result ND ND ND ND ND ND ND 0.0069 0.0061 0.020 ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.0020 0.040 0.0020 1.0 0.0060 0.0060 0.020 1.0	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.006000 0.006000 0.006000 0.02000 0.02000 0.5000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tCode: El RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0 99.9 114 102 101 97.9	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150 150 150 150 150	ved Metal	RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium Cobalt Iron Magnesium Manganese	ND S Samp hQC Bate Analysis Result ND ND ND ND ND ND ND ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.040 0.0020 1.0 0.0060 0.020 1.0 0.020 1.0 0.020	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.006000 0.006000 0.02000 0.5000 0.5000 0.5000 0.02000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tCode: EI RunNo: 7 SeqNo: 2 %REC 94.9 90.9 77.0 99.9 114 102 101 97.9 88.4	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150 150 150 150 150	ved Metal	RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium Cobalt Iron Magnesium Manganese Molybdenum	ND S Samp AQC Bate Analysis Result ND ND ND ND ND ND ND ND 0.0069 0.0061 0.020 ND ND ND ND ND ND ND ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.040 0.0020 1.0 0.0060 0.020 1.0 0.0060 0.020 1.0 0.0020 0.0020	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.006000 0.006000 0.02000 0.5000 0.02000 0.002000 0.008000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tCode: El RunNo: 7 SeqNo: 2 %REC 94.9 90.9 77.0 99.9 114 102 101 97.9 88.4 121	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150 150 150 150 150	ved Metal %RPD	RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium Cobalt Iron Magnesium Manganese Molybdenum Potassium	ND S Samp AQC Bate Analysis Result ND ND ND ND ND ND ND ND 0.0069 0.0061 0.020 ND ND ND ND ND ND ND ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.040 0.0020 1.0 0.0060 0.0060 0.020 1.0 0.0020 1.0 0.0020 1.0 0.0020 1.0	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.006000 0.006000 0.006000 0.002000 0.5000 0.002000 0.008000 0.5000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tCode: El RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0 99.9 114 102 101 97.9 88.4 121 84.8	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150 150 150 150 150	ved Metal %RPD	s RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium Cobalt Iron Magnesium Manganese Molybdenum Potassium Silver	ND S Samp nQC Bate Analysis Result ND ND ND ND ND ND 0.0069 0.0061 0.020 ND ND ND ND ND ND ND ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.040 0.0020 1.0 0.0060 0.0060 0.020 1.0 0.0020 1.0 0.0020 1.0 0.0020 1.0 0.0020 0.0080 1.0	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.006000 0.006000 0.006000 0.002000 0.5000 0.002000 0.008000 0.5000 0.005000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tCode: E RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0 99.9 114 102 101 97.9 88.4 121 84.8 84.9	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150 150 150 150 150	ved Metal %RPD	s RPDLimit	Qual
Vanadium Sample ID: LLLC Client ID: Batcl Prep Date: Analyte Aluminum Barium Boron Cadmium Calcium Chromium Cobalt Iron Magnesium Manganese Molybdenum Potassium Silver Sodium	ND S Samp nQC Bate Analysis Result ND ND ND ND ND ND 0.0069 0.0061 0.020 ND ND ND ND ND ND ND ND ND ND	0.050 Type: LC ch ID: B7 Date: 6/ PQL 0.020 0.0020 0.040 0.0020 1.0 0.0060 0.020 1.0 0.0020 0.0080 1.0 0.0050 1.0	SLL 9326 24/2021 SPK value 0.01000 0.002000 0.04000 0.002000 0.006000 0.006000 0.002000 0.002000 0.002000 0.002000 0.008000 0.5000 0.005000 0.5000	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tCode: E RunNo: 7 SeqNo: 2 %REC 94.9 86.9 90.9 77.0 99.9 114 102 101 97.9 88.4 121 84.8 84.9 89.8	PA Method 9326 786696 LowLimit 50 50 50 50 50 50 50 50 50 50 50 50 50	200.7: Dissolv Units: mg/L HighLimit 150 150 150 150 150 150 150 150 150 150	ved Metal %RPD	s RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#: 2106C57 14-Jul-21

Client:

Lee Ranch Coal Co **Project:** Lee Ranch Groundwater

Sample ID:	108	Samo		·e	Too		PA Mothod	200 7. Dissol	vod Motal	6	
Client ID.	LCSW	Batr	h ID R7	9326	R	RunNo: 79326					
Bron Data:	20011	Analysis	Doto: 61	24/2024			796607	Lipite: ma/l			
Flep Date.		Analysis	Dale. 0/	24/2021	3		100091	onits. mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum		0.54	0.020	0.5000	0	108	85	115			
Barium		0.48	0.0020	0.5000	0	95.5	85	115			
Boron		0.48	0.040	0.5000	0	96.1	85	115			
Cadmium		0.47	0.0020	0.5000	0	94.8	85	115			
Calcium		49	1.0	50.00	0	97.2	85	115			
Chromium		0.45	0.0060	0.5000	0	90.9	85	115			
Cobalt		0.46	0.0060	0.5000	0	91.6	85	115			
Iron		0.49	0.020	0.5000	0	98.2	85	115			
Magnesium		49	1.0	50.00	0	97.5	85	115			
Manganese		0.46	0.0020	0.5000	0	92.4	85	115			
Molybdenum		0.49	0.0080	0.5000	0	97.7	85	115			
Potassium		47	1.0	50.00	0	94.5	85	115			
Silver		0.089	0.0050	0.1000	0	89.4	85	115			
Sodium		49	1.0	50.00	0	98.6	85	115			
Vanadium		0.48	0.050	0.5000	0	96.2	85	115			
Sample ID:	2106C57-001DMS	Samp	Туре: М	3	Test	Code: El	PA Method	200.7: Dissol	ved Metal	s	
Client ID:	Four Corner Use In	Bato	h ID: B7	9326	R	unNo: 7	9326				
Prep Date:		Analysis	Date: 6/	24/2021	S	eqNo: 2	786700	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum		0.57	0.020	0.5000	0	115	70	130			
Barium		0.51	0.0020	0.5000	0.03282	96.4	70	130			
Boron		0.69	0.040	0.5000	0.1852	101	70	130			
Cadmium		0.48	0.0020	0.5000	0	95.3	70	130			
Calcium											
		81	1.0	50.00	32.61	97.7	70	130			
Chromium		81 0.46	1.0 0.0060	50.00 0.5000	32.61 0	97.7 92.4	70 70	130 130			
Chromium Cobalt		81 0.46 0.46	1.0 0.0060 0.0060	50.00 0.5000 0.5000	32.61 0 0	97.7 92.4 92.3	70 70 70	130 130 130			
Chromium Cobalt Iron		81 0.46 0.46 0.48	1.0 0.0060 0.0060 0.020	50.00 0.5000 0.5000 0.5000	32.61 0 0 0	97.7 92.4 92.3 96.3	70 70 70 70	130 130 130 130			
Chromium Cobalt Iron Magnesium		81 0.46 0.46 0.48 71	1.0 0.0060 0.0060 0.020 1.0	50.00 0.5000 0.5000 0.5000 50.00	32.61 0 0 21.19	97.7 92.4 92.3 96.3 98.8	70 70 70 70 70	130 130 130 130 130			
Chromium Cobalt Iron Magnesium Manganese		81 0.46 0.46 0.48 71 0.48	1.0 0.0060 0.0060 0.020 1.0 0.0020	50.00 0.5000 0.5000 0.5000 50.00 0.5000	32.61 0 0 21.19 0.007898	97.7 92.4 92.3 96.3 98.8 94.1	70 70 70 70 70 70	130 130 130 130 130 130 130			
Chromium Cobalt Iron Magnesium Manganese Molybdenum		81 0.46 0.48 71 0.48 0.49	1.0 0.0060 0.020 1.0 0.0020 0.0080	50.00 0.5000 0.5000 0.5000 50.00 0.5000 0.5000	32.61 0 0 21.19 0.007898 0	97.7 92.4 92.3 96.3 98.8 94.1 97.3	70 70 70 70 70 70 70	130 130 130 130 130 130 130			
Chromium Cobalt Iron Magnesium Manganese Molybdenum Potassium		81 0.46 0.48 71 0.48 0.49 51	1.0 0.0060 0.020 1.0 0.0020 0.0080 1.0	50.00 0.5000 0.5000 50.00 0.5000 0.5000 0.5000 50.00	32.61 0 0 21.19 0.007898 0 2.177	97.7 92.4 92.3 96.3 98.8 94.1 97.3 98.4	70 70 70 70 70 70 70 70 70	130 130 130 130 130 130 130 130			
Chromium Cobalt Iron Magnesium Manganese Molybdenum Potassium Silver		81 0.46 0.48 71 0.48 0.49 51 0.091	1.0 0.0060 0.020 1.0 0.0020 0.0080 1.0 0.0050	50.00 0.5000 0.5000 50.00 0.5000 0.5000 50.00 0.1000	32.61 0 0 21.19 0.007898 0 2.177 0	97.7 92.4 92.3 96.3 98.8 94.1 97.3 98.4 90.6	70 70 70 70 70 70 70 70 70 70	130 130 130 130 130 130 130 130 130			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#: 2106C57

14-Jul-21

Client:	Lee Ranch Coal Co
Juciit.	Lee Kallell Coal Co

Project:

Lee Ranch Groundwater

Sample ID:	2106C57-001DMSE	TestCode: EPA Method 200.7: Dissolved Metals									
Client ID:	Four Corner Use I	n Batc	h ID: B7	9326	F	RunNo: 79326					
Prep Date:		Analysis [Date: 6/	24/2021	5	SeqNo: 2	786701	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum		0.57	0.020	0.5000	0	115	70	130	0.0591	20	
Barium		0.51	0.0020	0.5000	0.03282	95.3	70	130	1.04	20	
Boron		0.68	0.040	0.5000	0.1852	99.8	70	130	0.646	20	
Cadmium		0.47	0.0020	0.5000	0	94.2	70	130	1.16	20	
Calcium		81	1.0	50.00	32.61	96.8	70	130	0.561	20	
Chromium		0.46	0.0060	0.5000	0	91.0	70	130	1.43	20	
Cobalt		0.46	0.0060	0.5000	0	91.3	70	130	1.09	20	
Iron		0.51	0.020	0.5000	0	102	70	130	5.95	20	
Magnesium		70	1.0	50.00	21.19	97.8	70	130	0.739	20	
Manganese		0.48	0.0020	0.5000	0.007898	93.7	70	130	0.446	20	
Molybdenum		0.48	0.0080	0.5000	0	96.0	70	130	1.27	20	
Potassium		51	1.0	50.00	2.177	97.3	70	130	1.07	20	
Silver		0.089	0.0050	0.1000	0	89.2	70	130	1.47	20	
Vanadium		0.50	0.050	0.5000	0	99.1	70	130	0.522	20	
Sample ID:	2106C57-001DMS	Samp	Туре: МS	6	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	Four Corner Use I	n Batc	h ID: B7	9326	F	RunNo: 7	9326				
Prep Date:		Analysis [Date: 6/	24/2021	S	SeqNo: 2	786703	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium		400	5.0	250.0	125.0	110	70	130			
Sample ID:	2106C57-001DMSE) Samp	Туре: МS	SD	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	Four Corner Use I	n Batc	h ID: B7	9326	F	RunNo: 7	9326				
Prep Date:		Analysis [Date: 6/	24/2021	5	SeqNo: 2	786704	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium		390	5.0	250.0	125.0	107	70	130	1.88	20	
Sample ID:	МВ	Samp	Туре: МЕ	BLK	Tes	tCode: E	PA Method	200.7: Dissol	ved Metal	s	
Client ID:	PBW	Batc	h ID: A7	9359	F	RunNo: 7	9359				
Prep Date:		Analysis [Date: 6/	25/2021	S	SeqNo: 2	788409	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		ND	0.020								
Manganese		ND	0.0020								
Nickel		ND	0.010								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Lee Ranch Coal Co

Lee Ranch Groundwater

Р Sample pH Not In Range

Value above quantitation range

Analyte detected in the associated Method Blank

Analyte detected below quantitation limits

RL Reporting Limit

в

Е

J

Client:

Project:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Sample ID:	LLLCS	Samp	Type: LC	SLL	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	BatchQC	Bato	h ID: A7	9359	R	unNo: 7	9359				
Prep Date:		Analysis	Date: 6/	25/2021	S	eqNo: 2	788410	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.025	0.020	0.02000	0	123	50	150			
Manganese		ND	0.0020	0.002000	0	92.3	50	150			
Nickel		ND	0.010	0.005000	0	59.7	50	150			
Zinc		0.013	0.010	0.01000	0	128	50	150			
Sample ID:	: LCS SampType: LCS				Test	Code: El	PA Method	200.7: Dissol	ved Metal	s	
Client ID:	LCSW	Bato	h ID: A7	9359	R	unNo: 7	9359				
Prep Date:		Analysis Date: 6/25/2021			S	eqNo: 2	788411	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.49	0.020	0.5000	0	97.8	85	115			
Manganese		0.48	0.0020	0.5000	0	95.7	85	115			
Nickel		0.46	0.010	0.5000	0	92.0	85	115			
Zinc		0.50	0.010	0.5000	0	101	85	115			
Sample ID:	2106C57-001DMS	Samp	Туре: М	6	TestCode: EPA Method 200.7: Dissolved Metals						
Client ID:	Four Corner Use In	n Bato	ch ID: A7	9359	R	unNo: 7	9359				
Prep Date:		Analysis	Date: 6/	25/2021	S	eqNo: 2	788413	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nickel		0.45	0.010	0.5000	0	89.9	70	130			
Zinc		0.61	0.010	0.5000	0.1016	102	70	130			
Sample ID:	2106C57-001DMSD	Samp	Туре: М	SD	Test	Code: El	PA Method	200.7: Dissol	ved Metal	s	
Client ID:	Four Corner Use In	n Bato	h ID: A7	9359	R	unNo: 7	9359				
Prep Date:		Analysis	Date: 6/	25/2021	S	eqNo: 2	788414	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nickel		0.45	0.010	0.5000	0	89.3	70	130	0.644	20	
Zinc		0.61	0.010	0.5000	0.1016	101	70	130	0.870	20	

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106C57

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WO#:	2106C57
	14-Jul-21

Client: Project:		Lee Ranch Coal Co Lee Ranch Ground) water								
Sample ID:	MB	Samp	Гуре: М І	BLK	Tes	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	PBW	Batc	h ID: B7	9406	R	lunNo: 7	9406				
Prep Date:		Analysis [Date: 6/	25/2021	S	eqNo: 2	791112	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead		ND	0.00050								
Selenium		ND	0.0010								
Sample ID:	LCSLL	Samp	Гуре: LC	SLL	Test	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	BatchC	C Batc	h ID: B7	9406	R	unNo: 7	9406				
Prep Date:		Analysis [Date: 6/	25/2021	S	eqNo: 2	791113	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead		0.00053	0.00050	0.0005000	0	106	50	150			
Selenium		ND	0.0010	0.001000	0	65.3	50	150			
Sample ID:	LCS	Samp	Type: LC	s	Tes	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	LCSW	Batc	h ID: B7	9406	R	unNo: 7	9406				
Prep Date:		Analysis [Date: 6/	25/2021	S	eqNo: 2	791114	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead		0.013	0.00050	0.01250	0	103	85	115			
Selenium		0.025	0.0010	0.02500	0	98.9	85	115			
Sample ID:	MB	Samp	Гуре: МІ	BLK	Test	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	PBW	Batc	h ID: D7	9527	R	unNo: 7	9527				
Prep Date:		Analysis I	Date: 7	1/2021	S	eqNo: 2	797060	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		ND	0.0010								
Copper		ND	0.0010								
Sample ID:	LCSLL	Samp	Type: LC	SLL	Tes	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	BatchC	C Batc	h ID: D7	9527	R	unNo: 7	9527				
Prep Date:		Analysis [Date: 7	1/2021	S	eqNo: 2	797061	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		ND	0.0010	0.001000	0	92.4	50	150			
Copper		ND	0.0010	0.001000	0	90.4	50	150			
Sample ID:	LCS	Samp	Type: LC	:s	Tes	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	LCSW	Batc	h ID: D7	9527	R	unNo: 7	9527				
Prep Date:		Analysis [Date: 7	/1/2021	S	eqNo: 2	797062	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

WO#:	2106C57

Cliants		Lee Densh Coal C	-								
Client: Project:		Lee Ranch Coal Co) water								
Floject:		Lee Kalicii Ground	water								
Sample ID:	LCS	Samp	Туре: LC	s	Tes	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	LCSW	Bato	ch ID: D7	9527	F	RunNo: 79527					
Prep Date:		Analysis	Date: 7/	1/2021	S	eqNo: 2	797062	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		0.022	0.0010	0.02500	0	87.1	85	115			
Copper		0.023	0.0010	0.02500	0	90.0	85	115			
Sample ID:	2106C5	7-003DMSLL Samp	Type: MS	3	Tes	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	PLD3	Bato	:h ID: D7	9527	F	lunNo: 7	9527				
Prep Date:		Analysis	Date: 7/	1/2021	S	eqNo: 2	797067	Units: mg/L			
Analyte		Result	POI	SPK value	SPK Ref Val	%REC	Lowl imit	- Highl imit	%RPD	RPDI imit	Qual
Copper		0.023	0.0010	0.02500	0.001278	87.8	70	130	701 CI D		Quui
Completio			T		Tee						
Sample ID:	210605	7-003DMSDL Samp		5D 105.07	Tes		PA 200.8: L	JISSOIVED MIE	ais		
Client ID:	PLD3	Batt	n id: d	9527	r c		9527	11.1.1			
Prep Date:		Analysis	Date: 7	1/2021	5	eqNo: 2	797068	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper		0.023	0.0010	0.02500	0.001278	85.3	70	130	2.77	20	
Sample ID:	2106C5	7-005DMSLL Samp	Type: MS	6	Tes	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	PLD4	Bato	ch ID: D7	9527	F	lunNo: 7	9527				
Prep Date:		Analysis	Date: 7/	1/2021	S	eqNo: 2	797070	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper		0.024	0.0010	0.02500	0.002944	83.9	70	130			
Sample ID:	MB	Samp	Tvpe: MI	BLK	Tes	tCode: El	PA 200.8: D	Dissolved Met	als		
Client ID:	PBW	Bato	ch ID: B7	9615	F	unNo: 7	9615				
Prep Date:		Analysis	Date: 7/	7/2021	S	SeaNo: 2	800263	Units: mg/L			
Apolyto		Pocult		SPK voluo			Low/Limit	Highl imit	0/ PDD	PDD imit	Qual
Arsenic		ND	0.0010			/01\LU	LOWLINII	riigneinni			Quai
=		2					B A B A B A B A B A B A B A B A B A B A B A B A B A B A 				
Sample ID:	LCSLL	Samp	Type: LC	SLL	Tes	tCode: El	PA 200.8: [Dissolved Met	als		
Client ID:	BatchC	C Bato	ch ID: B7	9615	F	tunNo: 7	9615				
Prep Date:		Analysis	Date: 7/	7/2021	5	eqNo: 2	800264	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		0.0011	0.0010	0.001000	0	106	50	150			

Qualifiers:

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ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#:	2106C57

Client:		Lee Ranch C	Coal Co)								
Project:		Lee Ranch C	Bround	water								
Sample ID:	LCS		Samp	Type: L	cs	Tes	tCode: El	PA 200.8: [Dissolved Met	als		
Client ID:			Doto		70645			0645				
Client ID:	LCSW		Daid		19015	r r	KUNINO: 7	9015				
Prep Date:		Ar	nalysis I	Date:	7/7/2021	S	SeqNo: 2	800265	Units: mg/L			
Analyte		F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic			0.025	0.0010	0.02500	0	98.9	85	115			
Sample ID: 2106C57-005DMSLL SampType: MS TestCode: EPA 200.8: Dissolved Metals												
Client ID:	PLD4		Bato	h ID: B	79615	F	RunNo: 7	9615				
Prep Date:		Ar	nalysis I	Date:	7/7/2021	S	SeqNo: 2	800268	Units: mg/L			
Analyte		F	Result	POI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
7		· · ·	tooun	. ~-	0.101440				3			
Arsenic			0.026	0.0010	0.02500	0	105	70	130			
Arsenic Sample ID:	2106C	57-005DMSDL	0.026 Samp	0.0010 Type: N	0.02500	0 Tes	105 tCode: El	70 PA 200.8: [130 Dissolved Me	tals		
Arsenic Sample ID: Client ID:	2106C	57-005DMSDL	0.026 Samp [*] Bato	0.0010 Type: N	0.02500 ISD 79615	0 Tes F	105 tCode: El RunNo: 7	70 PA 200.8: [9615	130 Dissolved Met	tals		
Arsenic Sample ID: Client ID: Prep Date:	2106C PLD4	57-005DMSDL Ar	0.026 Samp ⁻ Batc	0.0010 Type: N th ID: B Date:	0.02500 ISD 79615 7/7/2021	0 Tes F	105 tCode: El RunNo: 7 SeqNo: 2	70 PA 200.8: [9615 800269	130 Dissolved Mer	tals		
Arsenic Sample ID: Client ID: Prep Date: Analyte	2106C	5 7-005DMSDL Ar	0.026 Samp ⁻ Batc nalysis I Result	0.0010 Type: M th ID: B Date: T	0.02500 ISD 79615 7/7/2021 SPK value	0 Tes F SPK Ref Val	105 tCode: El RunNo: 7 SeqNo: 2 %REC	70 PA 200.8: [9615 800269 LowLimit	130 Dissolved Met Units: mg/L HighLimit	tals %RPD	RPDLimit	Qual
Arsenic Sample ID: Client ID: Prep Date: Analyte Arsenic	2106C PLD4	5 7-005DMSDL Ar F	0.026 Samp Batc nalysis I Result 0.026	0.0010 Type: N th ID: B Date: 7 PQL 0.0010	0.02500 ISD 79615 7/7/2021 SPK value 0.02500	0 Tes F SPK Ref Val 0	105 tCode: El RunNo: 7 SeqNo: 2 %REC 104	70 PA 200.8: I 9615 800269 LowLimit 70	130 Dissolved Mer Units: mg/L HighLimit 130	tals %RPD 0.963	RPDLimit 20	Qual
Arsenic Sample ID: Client ID: Prep Date: Analyte Arsenic Sample ID:	2106C PLD4	57-005DMSDL Ar F 57-007DMSLL	0.026 Samp Batc nalysis I Result 0.026 Samp	0.001(Type: N th ID: B Date: ; PQL 0.001(Type: N	0.02500 1SD 79615 7/7/2021 SPK value 0.02500 IS	0 Tes F SPK Ref Val 0 Tes	105 tCode: El RunNo: 7 SeqNo: 2 %REC 104 tCode: El	70 PA 200.8: [9615 800269 LowLimit 70 PA 200.8: [130 Dissolved Mer Units: mg/L HighLimit 130 Dissolved Mer	wals %RPD 0.963	RPDLimit 20	Qual
Arsenic Sample ID: Client ID: Prep Date: Analyte Arsenic Sample ID: Client ID:	: 2106C PLD4 : 2106C : 2106C PLD5	57-005DMSDL Ar F 57-007DMSLL	0.026 Samp Batc nalysis I Result 0.026 Samp Batc	0.001(Type: N th ID: B Date: 7 PQL 0.001(Type: N th ID: B	0.02500 ISD 79615 7/7/2021 SPK value 0.02500 IS 79615	0 Tes F SPK Ref Val 0 Tes F	105 tCode: EI RunNo: 7 SeqNo: 2 %REC 104 tCode: EI RunNo: 7	70 PA 200.8: [9615 800269 LowLimit 70 PA 200.8: [9615	130 Dissolved Mer Units: mg/L HighLimit 130 Dissolved Mer	tals %RPD 0.963 tals	RPDLimit 20	Qual
Arsenic Sample ID: Client ID: Prep Date: Analyte Arsenic Sample ID: Client ID: Prep Date:	2106C3 PLD4 2106C3 2106C3 PLD5	57-005DMSDL Ar F 57-007DMSLL Ar	0.026 Samp Batc nalysis I Result 0.026 Samp Batc nalysis I	0.001(Type: N th ID: B Date: 7 PQL 0.001(Type: N th ID: B Date: 7	0.02500 ISD 79615 7/7/2021 SPK value 0.02500 IS 79615 7/7/2021	0 Tes F SPK Ref Val 0 Tes F S	105 tCode: El RunNo: 7 SeqNo: 2 %REC 104 tCode: El RunNo: 7 SeqNo: 2	70 PA 200.8: [9615 800269 LowLimit 70 PA 200.8: [9615 800273	130 Dissolved Mer Units: mg/L HighLimit 130 Dissolved Mer Units: mg/L	%RPD 0.963	RPDLimit 20	Qual
Arsenic Sample ID: Client ID: Prep Date: Analyte Arsenic Sample ID: Client ID: Prep Date: Analyte	2106C PLD4	57-005DMSDL Ar F 57-007DMSLL Ar F	0.026 Samp Batc nalysis I Result 0.026 Samp Batc nalysis I Result	0.0010 Type: N h ID: B Date: ; PQL 0.0010 Type: N ch ID: B Date: ; PQL	0.02500 1SD 79615 7/7/2021 SPK value 0.02500 1S 79615 7/7/2021 SPK value	0 Tes SPK Ref Val 0 Tes SPK Ref Val	105 tCode: EI RunNo: 7 SeqNo: 2 %REC 104 tCode: EI RunNo: 7 SeqNo: 2 %REC	70 PA 200.8: [9615 800269 LowLimit 70 PA 200.8: [9615 800273 LowLimit	130 Dissolved Met Units: mg/L HighLimit 130 Dissolved Met Units: mg/L HighLimit	tals %RPD 0.963 tals %RPD	RPDLimit 20 RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:	2106C57
	14-Jul-21

Client: Project:	Lee Ran Lee Ran	ch Coal Co ch Groundwater								
Sample ID:	MB-60998	SampType:	MBLK	Tes	tCode: EP	A Method	245.1: Mercu	ry		
Client ID:	PBW	Batch ID:	60998	R	RunNo: 79	504				
Prep Date:	6/29/2021	Analysis Date:	6/30/2021	S	SeqNo: 27	95167	Units: mg/L			
Analyte Mercury		Result PQI ND 0.0002	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LLLCS-60998	SampType:	LCSLL	Tes	tCode: EP	A Method	245.1: Mercu	ry		
Client ID:	BatchQC	Batch ID:	60998	R	RunNo: 79	504		-		
Prep Date:	6/29/2021	Analysis Date:	6/30/2021	S	SeqNo: 27	95168	Units: mg/L			
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND 0.0002	20 0.0001500	0	55.9	50	150			
Sample ID:	LCS-60998	SampType:	LCS	TestCode: EPA Method 245.1: Mercury						
Client ID:	LCSW	Batch ID:	60998	R	RunNo: 79	504				
Prep Date:	6/29/2021	Analysis Date:	6/30/2021	S	SeqNo: 27	95169	Units: mg/L			
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0046 0.0002	20 0.005000	0	91.7	85	115			
Sample ID:	2106C57-001CM	S SampType: I	MS	Test	tCode: EP	A Method	245.1: Mercu	ry		
Client ID:	Four Corner Use	In Batch ID:	60998	R	RunNo: 79	504				
Prep Date:	6/29/2021	Analysis Date:	6/30/2021	S	SeqNo: 279	95195	Units: mg/L			
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0050 0.0002	0.005000	0	101	75	125			
Sample ID:	2106C57-001CM	SD SampType:	MSD	Tes	tCode: EP	A Method	245.1: Mercu	ry		
Client ID:	Four Corner Use	In Batch ID:	60998	R	RunNo: 79	504				
Prep Date:	6/29/2021	Analysis Date:	6/30/2021	S	SeqNo: 27	95196	Units: mg/L			
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0052 0.0002	0.005000	0	104	75	125	3.19	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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WO#:	2106C57

Client: Project:	Lee Ranch Coal Co Lee Ranch Groundv	vater									
Sample ID: MB SampType: mblk Test						PA Method	300.0: Anions	;			
Client ID: PBW	Batch	ID: R7	9319	F	RunNo: 7	9319					
Prep Date:	Analysis D	ate: 6/	23/2021	S	SeqNo: 2	786049	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	ND	0.10									
Chloride	ND	0.50									
Nitrogen, Nitrate (As N)	ND	0.10									
Sulfate	ND	0.50									
Sample ID: LCS	SampT	ype: Ics	6	TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch	ID: R7	9319	F	RunNo: 7	9319					
Prep Date:	Analysis D	ate: 6/	23/2021	S	SeqNo: 2	786050	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	0.50	0.10	0.5000	0	100	90	110				
Chloride	4.6	0.50	5.000	0	92.8	90	110				
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	95.5	90	110				
Sulfate	9.4	0.50	10.00	0	94.1	90	110				

Qualifiers:

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:	2106C57
	14-Jul-21

Client:	Le	e Ranch Coal Co										
Project:	Lee	e Ranch Groundwa	ater									
Sample ID:	MB-61154	TestCode: Total Phenolics by SW-846 9067										
Client ID:	PBW	Batch	ID: 61	154	F	RunNo: 7	9604					
Prep Date:	7/7/2021	Analysis Da	ite: 7/	7/2021	S	SeqNo: 2	799936	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Phenolics		ND	2.5									
Sample ID:	LCS-61154	SampTy	pe: LC	S	Tes	tCode: To	otal Phenol	ics by SW-840	6 9067			
Client ID:	LCSW	Batch	ID: 61	154	RunNo: 79604							
Prep Date:	7/7/2021	Analysis Da	ite: 7/	7/2021	S	SeqNo: 2	799937	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Phenolics		19	2.5	20.00	0	95.5	54.7	121				
Sample ID:	MB-61270	SampTy	pe: ME	BLK	Tes	tCode: To	otal Phenol	ics by SW-84	6 9067			
Client ID:	PBW	Batch	ID: 612	270	F	RunNo: 7	9759					
Prep Date:	7/13/2021	Analysis Da	ite: 7/	13/2021	S	SeqNo: 2	805582	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Phenolics		ND	2.5									
Sample ID: LCS-61270 SampType: LCS TestCode: Total Phenolics by SW-846 9067												
Client ID:	LCSW	Batch	ID: 612	270	F	RunNo: 7	9759					
Prep Date:	7/13/2021	Analysis Da	ite: 7/	13/2021	S	SeqNo: 2	805583	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Phenolics		19	2.5	20.00	0	95.5	54.7	121				

Qualifiers:

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- P Sample pH Not In Range
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Client:	Lee Ranch Coal Co
Project:	Lee Ranch Groundwater

Sample ID: Ics-1 100.1uS eC SampType: Ics				Tes	tCode: SI	M2510B: Sp	pecific Condu	ictance		
Client ID: LCSW Batch ID: R79464 RunNo: 79464										
Prep Date:	Analysis Da	te: 6/	29/2021	S	eqNo: 2	793496	Units: µmho	os/cm		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	100.1	0	99.5	85	115			

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:	2106C57
	14-Jul-21

Client:	Lee Ranch Coal Co					
Project:	Lee Ranch Groundwater					
Sample ID: mb-1	alk SampType: mblk TestCode: SM2320B: Alkalinity					
Client ID: PBW	Batch ID: R79464 RunNo: 79464					
Prep Date:	Analysis Date: 6/29/2021 SeqNo: 2793460 Units: mg/L CaCO3					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Total Alkalinity (as CaC	CO3) ND 20.00					
Sample ID: Ics-1	alk SampType: Ics TestCode: SM2320B: Alkalinity					
Client ID: LCSV	V Batch ID: R79464 RunNo: 79464					
Prep Date:	Analysis Date: 6/29/2021 SeqNo: 2793461 Units: mg/L CaCO3					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Total Alkalinity (as CaC	CO3) 73.52 20.00 80.00 0 91.9 90 110					
Sample ID: mb-2	alk SampType: mblk TestCode: SM2320B: Alkalinity					
Client ID: PBW	Batch ID: R79464 RunNo: 79464					
Prep Date:	Analysis Date: 6/29/2021 SeqNo: 2793483 Units: mg/L CaCO3					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Total Alkalinity (as CaC	CO3) ND 20.00					
Sample ID: Ics-2	SampType: Ics TestCode: SM2320B: Alkalinity					
Client ID: LCSV	V Batch ID: R79464 RunNo: 79464					
Prep Date:	Analysis Date: 6/29/2021 SeqNo: 2793484 Units: mg/L CaCO3					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Total Alkalinity (as CaC	CO3) 74.84 20.00 80.00 0 93.5 90 110					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#:	2106C57
	14-Jul-21

Client:	Lee	Ranch Coal Co									
Project:	Lee	Ranch Groundw	ater								
Sample ID:	MB-61008	SampTy	pe: ME	BLK	Tes	tCode: SN	M2540C MC	D: Total Diss	olved So	lids	
Client ID:	PBW	Batch	ID: 61	008	F	RunNo: 7 9	9486				
Prep Date:	6/29/2021	Analysis Da	ate: 6/	30/2021	S	SeqNo: 27	794322	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved	Solids	ND	20.0								
Sample ID:	LCS-61008	SampTy	pe: LC	s	Tes	tCode: SN	M2540C MC	D: Total Diss	olved So	lids	
Client ID:	LCSW	Batch	ID: 61	800	F	RunNo: 7 9	9486				
Prep Date:	6/29/2021	Analysis Da	ate: 6/	30/2021	S	SeqNo: 27	794323	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved	Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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	NMENTAL Bis Ntory	н. 7	lall Environi EL: 505-345 Website: clie	nental Analysis L 4901 Ha Albuquerque, 1 5-3975 FAX: 505- ents.hallenvironm	aboratory wkins NE VM 87109 345-4107 ental.com	Sa	mple Log-In Check List
Client Name: L	ee Acres Water Users	Wo	k Order Nu	mber: 2106C5	,		RcptNo: 1
Received By:	Sean Livingston	6/23/2	021 4:35:0	0 PM	5	~_L	yst
Completed By: Reviewed By:	Desiree Dominguez	6/23/2 6-20	021 5:14:1 へ-こり	4 PM	T	N	
unpres / b	: Tracy Co	verbe	- 6.2	3.21			
Chain of Custo	dy						
1. Is Chain of Cust	ody complete?			Yes 🖌	N		Not Present
2. How was the sa	mple delivered?			Courier			
Log In							
3. Was an attempt	made to cool the samp	les?		Yes 🗸	Nr		
						· ·	
4. Were all samples	received at a tempera	ture of >0° C	to 6.0°C	Yes	No		
5. Sample(s) in pro	per container(s)?			Approve	by client.		
and sense and states				res 💌	INC		
6. Sufficient sample	volume for indicated te	est(s)?		Yes 🔽	No		
7. Are samples (exc	ept VOA and ONG) pro	perly preserv	ed?	Yes 🗸	No		
8. Was preservative	added to bottles?			Yes	No	\checkmark	NA 🗌
9. Received at least	1 vial with headspace	<1/4" for AQ \	/OA?	Yes	No		
10. Were any sample	e containers received br	roken?		Yes	No		
				0000			# of preserved bottles checked
11. Does paperwork r (Note discrepanci	natch bottle labels?			Yes 🗹	No		for pH: 30-24, Ce
2. Are matrices corre	ectly identified on Chain	of Custodv?		Yes V	No		(だろ) マロン(2) unless noted) Adjusted? Nの
3. Is it clear what an	alyses were requested?	?		Yes 🗹	No		10 6124
4. Were all holding ti	mes able to be met?			Yes 🖌	No		Checked by: RLC 6/24/21
(ii no, notity custo	mer for authorization.)						Unpres. (B: SPA 6,23:2)
pecial Handling	(if applicable)						
15. Was client notifie	d of all discrepancies w	ith this order	?	Yes	No		NA 🗹
Person Not	fied:	A RET TRAVENISTI SEVERA DEVISA DA A	Date	: [in and	
By Whom:			Via:	eMail] Phone	Fax	In Person
Regarding:			NITERATOR ARCINES				
6 Additional ranged							The second s
. Additional remark	(S)						
Cooler Informat	on om % Condition	Castle		a di Romana di S			
1 8.0) Good	Seal Intact	Seal No	Seal Date	Signed I	Зу	
2 11	.0 Good						

Cliniting Laboration Cliniting Laboration Cliniting Laboration Cliniting Laboration Laboration Laboration Laboration Laboration	Constraint X Banded Constraint X Banded Inform Matchines Property Property <td< th=""><th>t.</th><th>Chain-</th><th>of-Cus</th><th>stody Record</th><th>Turn-Around Time:</th><th></th><th></th><th></th><th></th><th>Γ</th></td<>	t.	Chain-	of-Cus	stody Record	Turn-Around Time:					Γ
Polici difficación	Construction Construction Construction Construction Construction Addings Actioness: FOED 770 Contin, NM \$700 Mark to \$200 Stress FOED 770 Contin, NM \$700 Mark to \$200 Stress FOED 770 Contin, NM \$700 Mark to \$200 Stress FOED 770 Contin, NM \$700 Mark to \$200 Stress FOED 770 Contin, NM \$700 Conting the stress FOED 770 Stres FOED 770 Stress FOED	Client: Lee Ran	ch tr			X Standard	🗆 Rush			POD ATODY	
Melling Address: POID: Point :: Out of a constrained in the constrained	Mailing Activess: Color 201: 751 Control Mailing Activess: Color 201: 751 Control Mailing Activess: Color 201: 751 Control Mailing Activess: Mailing Activ					Project Name: Lee Ranch	Groundwater			BURALUKT	
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Prove : 903.353.08C Prove : 91.000 P	Phone R: 500:303:303:303:303:303:303:303:303:303:		And a second sec			PO#: 453035065	-		Tel. 505-345-3975 Fax 505-345	5-4107	
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Lee Ranch Wells

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LR Wells		
Max:	32/уг.	
Test for:	Hall Bottels	
pН	(1) 500mL NP plastic.	
Conductivity	(1) 250mL HNO3 plastic	
Total Dissolved Solids	(1) 125mL HNO3 plastic	
Dissolved Sodium	(1) 125mL H2SO4 plastic	
Dissolved Potassium	(1) 500mL NaOH Plastiic	
Dissolved Calcium	(1) 1L Amber H2So4 Glass	
Magnesium		
Sodium Adsorption Ratio		
Bicarbonate as CaCO3		
Carbonate as CaCO3		
Chloride		
Fluoride		
Surate		
Dissolved Nitrate		
Total Phenois		
Dissolved Aluminum		
Dissolved Arsenic		
Dissolved Barum		
Dissolved Boron		
Dissolved Cadmium		
Dissolved Color		
Dissolved Copper		
Total Cvanide		
Dissolved Iron		
Total Iron		
Dissolved Lead		
Dissolved Manganese		
Total Manganese		
Total Mercury		
Dissolved Molybdenum		
Dissolved Nickel		
Dissolved Selenium		
Dissolved Silver		
Dissolved Vanadium		
Dissolved Zinc		
Static Water Level		