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Revenue Virginius Mine GW-4 Characterization and Replacement

Technical Revision No. 12 CDRMS Permit No. M-2012032 March 1, 2021

Prepared with:

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2 Background Information

The Revenue-Virginius Mine (the Mine), owned and operated by Ouray Silver Mines Inc. (OSMI), is an active silver mine located approximately 5 miles southwest of Ouray Colorado along County Road 26. The Sneffels District has a rich mining history that began with the staking of the Virginius in 1876 in Governor Basin. The Revenue Tunnel was built as a lower access point to the Virginius in 1893. The bulk of mining activity occurred from 1878 through 1912, with intermittent mining since. The Mine is currently permitted to operate under Amendment 1 to DRMS designated mining permit (112-d) M-2012-032. The Mine is in a state of construction and development, moving towards ore production.

Several Technical Revisions (TRs) to Amendment 1 of M-2012-032 have been filed over the recent years. These revisions, summarized below, have focused on improved mill functioning, waste reduction, and improved environmental protocols. Recent TRs are summarized briefly below.

TR11 – Updated the water monitoring program. Allowed placement of Pilot Passive Water Treatment Materials withing permit boundary. Updated reclamation plan to incorporate Waste Storage Pad and address minor modifications to topsoil placement.

TR10 – Allowed the construction of the five-stage passive treatment system with discharge to surface water as permitted through CDPHE (CO-0000003 Modification 5) along with monitoring well GW-4 (Figure 1). GW-4 intended to expand groundwater monitoring as the site moved towards production and facilities expanded in the downstream direction to better monitor the entirety of the operation.

TR09 – Updated groundwater standards, allowed the sale of mixed tailings and waste rock as road base, allowed for the relocation of buildings and construction of additional sheds.

TR08 – Allowed for infiltration of mine discharge to groundwater following passive treatment in a sulfate reducing bioreactor.

3 Project Rationale

The Mine hired contractor Catamount Drilling of Montrose, CO to drill monitoring well GW-4, permitted in TR-10, in August 2020. Map 1 shows the location of GW-4. The presence of

organics in the well was first noted during well development and subsequent sampling. Field notes from the Mine's third-party sampler (PureWater Systems of Ridgway. Colorado) indicated oil and grease in the well on November 12, 2020 that were originally attributed to drilling fluids. OSMI attempted (Table 1) to remove the organics through the use of absorbent socks and bailing. Produced water was captured in buckets and taken to lined sumps in the shop for proper disposal. With little improvement in water quality, OSMI probed the bottom of the well with a sludge judge (a hollow clear tube), discovering a foot of orange/brown petroleum scented material remaining in the bottom of the well. OSMI contacted DRMS regarding the issue. Results from sampling performed following discussion with DRMS are described below.

3.1 GW-4 Characterization and Monitoring

In response to DRMS's February 1, 2021 letter, OSMI established a new surface water sampling location, SW-22 and gathered data from GW-4 to evaluate the nature and extent of organic substances found in GW-4. OSMI has obtained Safety Data Sheets from the driller (Appendix A) and obtained initial grab samples (GRO, DRO, MTBE, BTEX, and Oil and Grease) from GW-4 and the new surface water sampling location SW-22 (Map 1). OSMI chose SW-22 because i) it is currently the closest, safely accessible monitoring point, which is accessed by hanging the bladder pump from the bridge, and ii) OSMI has been considering adding a stream monitoring station at the bridge because it is below the outfall and the natural durable channel lends itself to flow measurement via a rating curve once the channel shape is determined and gauging-marks are established.

Initial results from GW-4 and SW-22 are presented in Table 2 with complete lab reports in Appendix B. Oil and grease data has not yet been received. As noted in Table 2, Diesel range organics (DRO, C10-C28) were detected in GW-4 at relatively low concentration of 8.44 mg/L and at SW-22 at 0.3 mg/L. There is no standard for DRO in The Basic Standards and Methodologies for Surface Water (Colorado Regulation 31) or Groundwater (Regulation 41). Nonetheless, OSMI notified the Water Quality Control Division spill hotline of the detection in surface water immediately. Richard Mruz, Work Leader Hazardous Waste Corrective Action Unit, indicated that historic spills are not in their purview. The source is not yet definitively from organics found at GW-4. Confounding factors include:

- Vehicle traffic in the corridor,
- the sample was taken at a bridge built with creosote coated lumber,
- coated timbers were used heavily in historic mining,
- historic upgradient mills, and
- the Ruby Trust mining operation upstream.

OSMI is not aware of any other petroleum distillate analyses in Sneffels Creek. Oil sheens have not been observed at Sneffels Creek monitoring stations.

The Mine reviewed the site archaeological reports (Appendix C, submitted under separate, confidential, cover as hard copy) and historical photographs to evaluate the presence of a potential historical origin for organics in GW-4. The archaeological report indicates that a machine shop, a building also visible in the 1897 photograph (Figure 2), was located just upgradient of GW-4, suggesting an historic source for the organic materials. While the diesel

range organics found in GW-4 overlap with expected organic ranges for hydraulic fluid and rock oil (Appendix 1), no significant spillage was observed on the surface around GW-4, supporting the conclusion that GW-4 organics are likely historic.

3.2 GW-4 Replacement Well Location

OSMI is proposing to construct a replacement well, GW-4R (Map 1). The location of GW-4R is intended to capture groundwater flow downgradient of the mill operations where flow occurs through the fractures that run generally east to west.

4 Construction and Implementation

4.1 Characterization and Monitoring Plan Implementation

OSMI will voluntarily monitor groundwater and surface water to further characterize the organics detected at GW-4 and evaluate the source of DRO in surface water at SW-22. The voluntary effort may include:

- adding an analytical suite appropriate to characterize the chemical composition of 100year-old machine shop-related organic material to the Water Quality Monitoring Plan,
- adding petroleum hydrocarbons to quarterly sampling stations in Sneffels Creek, including SW-22, and
- performing additional sampling at GW-4 and SW-22 for a more complete hydrocarbon analytical suite.

4.2 GW-4R Construction and Location

The approximate location of GW-4R can be seen on Map 1 and Figure 2. The well, expected to be approximately 60 feet deep, will be drilled with perforated pipe, a completion packer or bentonite plug will be placed a few feet below the groundwater intersection. Final coordinates and well construction details will be submitted to DRMS and the State Engineer's Office upon completion.

GW-4R will be drilled in early summer 2021. Following well development, it will be added to the regular quarterly sampling schedule performed under DRMS permit M-2012-032. GW-4 will be removed from the standard quarterly sampling protocols, however, it will not be plugged and abandoned until OSMI has completed further characterization. Results of the characterization sampling including next steps, if any, will be communicated to DRMS.

5 Reclamation

GW-4 will be plugged and abandoned after OSMI has completed characterization. GW-4R will be used to monitor groundwater conditions downgradient of the mill and will be plugged and abandoned after the site has achieved full closure.

Description Date 9/28/2020 Compressed Air - development 10/9/2020 Pump - development Compressed Air with surfactant - development 10/12/202010/16/2020 Bailing 10/20/2020 Bailing and sorbent socks 11/5/2020 Bailing 11/17/2020 Bailing Sorbent socks 12/8/2020 12/14/2020 Sorbent socks 12/21/2020 Sorbent socks 12/28/2020 Sorbent socks 12/29/2020 Bailing, sludge judge saw a foot of sludge in well bottom 1/4/2021 Bailing and sorbent socks

Table 1. GW-4 Activity Log

Ouray Silver Mines Inc. Technical Revision 12 M-2012-032

Form No.		WELL CONSTRU				For	Office Use	Only
GWS-31	State of Colorado, Office of the State Engineer							
02/2017	1313 Sherman St., Room 821, Deriver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us							
1. Well Permi				Number:	1005393	-		
2. Owner's We	ell Designation: G	W-4				_		
3. Well Owner	Name: Ouray Silv	er Mines				-		
	on Street Address		Road 26 Ouray	, Co 81427		-		
5. As Built GP	S Well Location (r	equired): 🗖 Z	one 12 💽 Zo	ne 13 Eastin	g: 258640.0 Northing: 44	120664		
		/4, <u>NE</u> 1/4,	Sec., 21	Twp. 43	N or S , Range 8	E or	W. N	MP.M.
County: _ Subdivision: _	Duray				-, Lot, Block	- Filir	or (Unit)	
	face Elevation:	fee	et Date Com	pleted: 11/	28/2017 Drilling Meth		2 (our d)	
	Aquifer Name :	Alluvial	т	otal Depth:	30 feet Dep	th Completed:	30	feet
9. Advance No					? Yes No, Date No	otification Give	n:	
10. Aquifer Ty		One Confining			Multiple Confining Layers)	Laramie-F		
(Check on		(Not overlain b	y Type ill)	Type II	(Overlain by Type III)	Type III (a	lluvial/coll	uvial)
11. Geologic	-				12. Hole Diameter (in.)	From	(ft)	To (ft)
Depth	Туре	Grain Size	Color	Water Loc.	5	0		30
0' - 3'	Waste Rock	gravel-cobble	Grey/Brown					
3'-5'	Soil		Brown					
5' - 25'	Bedrock		Grey	21'	13. Plain Casing			
25' - 29'	Soll		Brown			Vall Size (in)	From (ft)	To (ft)
29' - 30'	Bedrock		Grey		2 SS		0'	15
					Bardarated Carlos c			
					Perforated Casing Scree			To (ft)
						Vall Size (in)	From (ft)	To (ft)
					2 55	.001	15'	30"
					14. Filter Pack:	15 Packe	r Placeme	at:
				-	Material Sand	Type	raceme	·
					Size 10/20 Inert	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
					Interval 30'-13'	Depth		
					16. Grouting Record	Depart		
					Material Amount	Density	Interval	Method
Remarks:					Bentonite 50 lb bkt		13' - 5'	Tremmie
					Cement 100 lb		5' - 0'	Tremmie
					the second se			
17. Disinfectio	n: Type N/A				Amt. Used			
18. Well Yield	Estimate Data:		Check bo	x if Test Dat	a is submitted on Form Nur	mber GWS-39, 1	Well Yield 1	est Report
Well Yield E	stimate Method:	N/A						
Static Level				Estimated Y	ield (gpm)			
Date/Time	measured:			Estimate Le	ngth (hrs)			
Remarks:								
19. I have read th	e statements made h	erein and know th	he contents ther	eof, and they a	are true to my knowledge. This	document is sign	ed (or name	entered if
filling online) and o	ertified in accordance	e with Rule 17.4 c	of the Water We	I Construction	Rules, 2 CCR 402 2. The filling	of a document th	at contains fa	alse
statements is a vio	considers the entry	91 108(1)(e), C.R.S	S., and is punish	able by fines u	p to \$1,000 and/or revocation of	of the contracting	license. If f	ling online
				to be complian	toe with mule 17.4.			
Company Name: Ourse Silver Mi			Email:	diaman and	Phone w/area		License Nu	mber:
Ouray Silver Mi		1 HI D	environmenta	augouraysitve	ermines.co (970) 3	25-9830		-
Sign los cotos	1900 Main St. Uni	ic #1, Ouray, Co		and 7754				
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Figure 1. GW-4 Well Log. Construction log for Well GW-4 with permit and receipt number.



Figure 2. Photograph of the Revenue Mill, June 1897. Denver Public Libraries Special Collections, Revenue tunnel and mills of the Caroline and Glacier Bay mining companies. Photograph taken by William Henry Jackson.



Revenue Mine M-2012-032 Technical Revision 12: GW-4 Characterization and Replacement

Appendix A: Drilling Fluids

SAFETY DATA SHEET			Sale Agent
ARDEE TM/MC 32			PETRO CAMADA
000003000414			
Version 2.0		Revision Date 2018/04/26	Print Date 2018/04/26
,			
SECTION 1. IDENTIFICATION			
Product name	:	ARDEE TM/MC 32	
Product code	:	RDE32P20, RDE32IBC, RDE32DF	RM, RDE32, RDE32DCT
Manufacturer or supplier's de	etails	Petro-Canada America Lubricants 115N Oak Park Avenue #1C Oak Park IL 60301-1366 United States	Inc.
Emergency telephone num- ber		Petro-Canada Lubricants Inc.: +1 9 CHEMTREC Transport Emergency Poison Control Centre: Consult loca emergency number(s).	: 1-800-424-9300;
Recommended use of the c	hen	ical and restrictions on use	
Recommended use		Ardee oils are designed for use in ludrill equipment and other air-operat	
Prepared by	:	Product Safety: +1 905-491-0565	

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	viscous liquid	
Colour	dark brown	1
Odour	Mild petroleum oil like.	

GHS Classification

Effects on or via lactation

GHS label elements	
Hazard statements	: May cause harm to breast-fed children.
Precautionary statements	: Prevention: Obtain special instructions before use.
, Pakersi	Avoid contact during pregnancy/ while nursing. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Response: IF exposed or concerned: Get medical advice/ attention.

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rsion 2.0	Revision Date 2018/04/26	Print Date 2018/04/26
Potential Health Effects		
Primary Routes of Entry	: Eye contact Ingestion Inhalation Skin contact	
Aggravated Medical Condi- tion	: None known.	
Other hazards None known.		
IARC	No component of this product presen equal to 0.1% is identified as probabl human carcinogen by IARC.	at at levels greater than or le, possible or confirmed
OSHA	No component of this product presen equal to 0.1% is identified as a carcin gen by OSHA.	t at levels greater than or nogen or potential carcino-
NTP	No component of this product presen equal to 0.1% is identified as a known by NTP.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration
lubricating oils (petroleum), C15-30, hydrotreat- ed neutral oil-based	72623-86-0	70 - 90 %
distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	5 - 10 %
Alkanes, C14-16, chloro	1372804-76-6	1 - 5 %

SECTION 4. FIRST AID MEASURES

If inhaled

: Move to fresh air.

Artificial respiration and/or oxygen may be necessary. Seek medical advice.

In case of skin contact

 In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
 Wash skin thoroughly with soap and water or use recognized skin cleanser.
 Wash clothing before reuse.
 Seek medical advice.

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SAFETY DATA SHEET ARDEE TM/MC 32 000003000414 Version 2.0 Print Date 2018/04/26 Revision Date 2018/04/26 In case of eye contact : Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention. If swallowed Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice. Most important symptoms : First aider needs to protect himself.

SECTION 5. FIREFIGHTING MEASURES

and effects, both acute and

delayed

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	: No information available.
Specific hazards during fire- fighting	: Cool closed containers exposed to fire with water spray.
Hazardous combustion prod- ucts	Carbon oxides (CO, CO2), sulphur oxides (SOx), sulphur compounds (H2S), phosphorus oxides (POx), aldehydes, ketones, hydrocarbons, smoke and irritating vapours as products of incomplete combustion.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	5	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.
Environmental precautions	÷	If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	(3)	Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation. Contact the proper local authorities.

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SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition. Keep container closed when not in use.
Conditions for safe storage	5	Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sun- light.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Personal protective equipme				de e 4
Personal protective equipme Respiratory protection	: Use respirato		ess adequate local e	
			sure assessment der	nonsirales
	Respirator se	lection must be b	mmended exposure based on known or ar of the product and the	guidelines. nticipated
	Respirator se exposure leve	lection must be b	ased on known or ar	guidelines. nticipated
Filter type	Respirator se exposure leve	lection must be b els, the hazards o of the selected r	ased on known or ar	guidelines. nticipated

Components with workplace control parameters

SAFETY DATA SHEET ARDEE TM/MC 32 000003000414 Version 2.0 Print Date 2018/04/26 Revision Date 2018/04/26 Remarks Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. : Wear face-shield and protective suit for abnormal processing Eye protection problems. Skin and body protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Protective measures Wash hands and face before breaks and immediately after handling the product. Wash contaminated clothing before re-use. Ensure that eyewash station and safety shower are proximal to the work-station location. Remove and wash contaminated clothing and gloves, includ-Hygiene measures ing the inside, before re-use. Wash face, hands and any exposed skin thoroughly after

handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Appearance	÷	viscous liquid
	Colour	ŝ	dark brown
	Odour	-	Mild petroleum oil like.
	Odour Threshold	8	No data available
	pН		No data available
	Pour point	ŝ	-48 °C (-54 °F)
	Boiling point/boiling range		No data available
	Flash point		180 °C (356 °F) Method: Cleveland open cup
	Fire Point	:	No data available
	Auto-Ignition Temperature	2	No data available
	Evaporation rate	•	No data available
_	Flammability		Low fire hazard. This material must be heated before ignition
			will occur.
	Upper explosion limit	ŝ	No data available
	Lower explosion limit	B	No data available
	Vapour pressure		No data available

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17		~	~
Ve	ersion	12.	0

Relative vapour density	: No data available	
Relative density	: No data available	
Density	: 0.8792 kg/l (15 °C / 59 °F)	
Solubility(ies)		
Water solubility	: insoluble	
Partition coefficient: n- octanol/water	: No data available	
Viscosity		
Viscosity, kinematic	: 31.9 cSt (40 °C / 104 °F)	
	6.0 cSt (100 °C / 212 °F)	
Explosive properties	: Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.	

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SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reac- tions	: Hazardous polymerisation does not occur. Stable under normal conditions.
Conditions to avoid	: No data available
Incompatible materials	: Reactive with oxidising agents, reducing agents, acids, halo- gens and halogenated compounds.
Hazardous decomposition products	May release COx, SOx, H2S, POx, metal oxides, hydrocar- bons, smoke and irritating vapours when heated to decompo- sition.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes Eye contact Ingestion Inhalation Skin contact	of exposure	
Acute toxicity		
Product: Acute oral toxicity	Remarks: No data available	
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhala-	
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ion 2.0	F	Revision Date 2018/04/26	Print Date 2018/04/26
		on toxicity emarks: No data available	
Acute dermal toxicity	to	ssessment: The substance or mixtur xicity emarks: No data available	e has no acute dermal
Components:			
		0, hydrotreated neutral oil-based: D50 (Rat): > 5,000 mg/kg,	
Acute inhalation toxicity	E	C50 (Rat): > 5.2 mg/l xposure time: 4 h est atmosphere: dust/mist	
Acute dermal toxicity	: LC	D50 (Rabbit): > 2,000 mg/kg,	
distillates (petroleum), so Acute oral toxicity		waxed heavy paraffinic: D50 (Rat): > 5,000 mg/kg,	
totic oral toxicity	. 66	500 (Mar). > 5,000 mg/kg,	
Acute dermal toxicity	: LC	050 (Rabbit): > 5,000 mg/kg,	
Acute dermal toxicity	: LC	050 (Rabbit): > 5,000 mg/kg,	
Acute dermal toxicity Skin corrosion/irritation	: LC	050 (Rabbit): > 5,000 mg/kg,	
-		050 (Rabbit): > 5,000 mg/kg,	
Skin corrosion/irritation	3	050 (Rabbit): > 5,000 mg/kg,	
Skin corrosion/irritation Product: Remarks: No data available	rritation	050 (Rabbit): > 5,000 mg/kg,	
Skin corrosion/irritation Product: Remarks: No data available Serious eye damage/eye i Product:	rritation	050 (Rabbit): > 5,000 mg/kg,	
Skin corrosion/irritation Product: Remarks: No data available Serious eye damage/eye i Product: Remarks: No data available	rritation	050 (Rabbit): > 5,000 mg/kg,	
Skin corrosion/irritation Product: Remarks: No data available Serious eye damage/eye i Product: Remarks: No data available Respiratory or skin sensit	rritation	050 (Rabbit): > 5,000 mg/kg,	
Skin corrosion/irritation Product: Remarks: No data available Serious eye damage/eye i Product: Remarks: No data available Respiratory or skin sensit No data available Serm cell mutagenicity	rritation	050 (Rabbit): > 5,000 mg/kg,	
Skin corrosion/irritation Product: Remarks: No data available Serious eye damage/eye i Product: Remarks: No data available Respiratory or skin sensit No data available Serm cell mutagenicity No data available	rritation	050 (Rabbit): > 5,000 mg/kg,	
Skin corrosion/irritation Product: Remarks: No data available Serious eye damage/eye i Product: Remarks: No data available Respiratory or skin sensit No data available Serm cell mutagenicity No data available Carcinogenicity	rritation	050 (Rabbit): > 5,000 mg/kg,	

STOT - repeated exposure

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No data available No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
Product: Toxicity to fish	: Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	: Remarks: No data available
Toxicity to algae	: Remarks: No data available
Toxicity to bacteria	: Remarks: No data available
Persistence and degradabilit	у
Product:	
Biodegradability	: Remarks: No data available
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
Other adverse effects No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company.
	Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR Not regulated as a dangerous good

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

The components of this product are reported in the following inventories: DSL On the inventory, or in compliance with the inventory **TSCA** All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

SECTION 16. OTHER INFORMATION

Further information



0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

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For Copy of SDS	: Internet: lubricants.petro-canada.co United States, telephone: 1-800-268 6285 For Product Safety Information: 1 90	8-5850; fax: 1-800-201-
Prepared by	: Product Safety: +1 905-491-0565	
Revision Date	: 2018/04/26	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Revision Date 04-Oct-2017

Revision Number 1

SAFETY DATA SHEET



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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier		
Product Name	SUPER TECH	
Other means of identification		
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended Use	Hydraulic fluids	
Uses advised against	No information available	
Details of the supplier of the safety	data sheet	
Supplier Name	Warren Distribution, Inc.	
Supplier Address	727 S.13th Street Omaha NE 68102 US	
Supplier Phone Number	Phone:800-424-9300 Fax:402-977-5857 Contact Phone402-977-5786	
Supplier Email	alowery@wd-wpp.com	
Distributor	Wal-Mart Stores Incorporated Bentonville, AR USA 72716	
Emergency telephone number		
Company Emergency Phone Number	800-424-9300	

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).



Carcinogenicity

Category 1A

GHS Label elements, including precautionary statements

Emergency Overview

Signal word	Danger	
Hazard Statements May cause cancer		
Appearance Brown	Physical state Viscous liquid Liquid	Odor Mild

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

No information available

Interactions with Other Chemicals

No information available.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Percent	Trade Secret
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	30 - 60	*
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	30 - 60	*
Petroleum distillates, hydrotreated middle	64742-46-7	0.1 - 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice	Note: When using this product in high pressure equipment - Accidential high velocity dermal injection of this material requires immediate medical attention.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.	
Ingestion	Call a physician or poison control center immediately. Do NOT induce vomiting.	
Most important symptoms and effe	ects, both acute and delayed	
Most Important Symptoms and Effects	No information available.	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician	Treat symptomatically.	



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Uniform Fire Code Combustible Liquid: III-B

Hazardous Combustion Products Carbon oxides.

Explosion Data Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.	
Other Information	Refer to protective measures listed in Sections 7 and 8.	
Environmental precautions		
Environmental precautions Methods and material for containme	Prevent further leakage or spillage if safe to do so. ent and cleaning up	
Methods for containment Methods for cleaning up	Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.	



7. HANDLING AND STORAGE

Precautions for safe handling

 Handling
 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment. Take off contaminated clothing and wash before reuse.

 Conditions for safe storage, including any incompatibilities
 Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

 Incompatible Products
 Oxidizing agent.

 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Exposure Guidelines
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The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	TWA: 5 mg/m³, as oil mist, mineral STEL: TWA: 10 mg/m³, as oil mist, mineral	TWA: 5 mg/m ³ , as oil mist, mineral	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.



Particle Size

Particle Size Distribution

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Appearance Color	Viscous liquid, Liquid Brown No information available	Odor Odor Threshold
Property_	Values	Remarks Method
рН	UNKNOWN	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	207 C / 405 F	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	.88	None known
Water Solubility	Negligible	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/wat	t er No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	6.79	None known
Explosive properties	No data available	
Oxidizing properties	No data available	
Other Information		
Softening Point	No data available	
VOC Content (%)	No data available	

No data available

Mild No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Oxidizing agent.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

P	roduct Information	
	Inhalation	Specific test data for the substance or mixture is not available.
	Eye contact	Specific test data for the substance or mixture is not available.
	Skin contact	Specific test data for the substance or mixture is not available.
	Ingestion	Specific test data for the substance or mixture is not available.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	> 15 g/kg (Rat)	-	-
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	> 5000 mg/kg (Rat)	-	-
Petroleum distillates, hydrotreated middle 64742-46-7	= 7400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 4.6 mg/L (Rat)4 h

Information on toxicological effects

Symptoms

No information available.



Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum distillates,	A2	Group 1	Known	Х
hydrotreated heavy				
paraffinic				
64742-54-7				
Petroleum distillates,	A2	Group 1	Known	Х
hydrotreated heavy				
naphthenic				
64742-52-5				
ACGIH (American Conference of Governmental Industrial Hygienists)				
A2 - Suspected Human (
IARC (International Age	ency for Research on Cance	er)		
Group 1 - Carcinogenic t				
NTP (National Toxicolo	av Program)			

NTP (National Toxicology Program) Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	Contains a known or suspected carcinogen.
Target Organ Effects	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI).
Aspiration Hazard	No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document Not applicable



12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7		96h LC50: > 5000 mg/L (Oncorhynchus mykiss)		48h EC50: > 1000 mg/L
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5		96h LC50: > 5000 mg/L (Oncorhynchus mykiss)		48h EC50: > 1000 mg/L
Petroleum distillates, hydrotreated middle 64742-46-7		96h LC50: = 35 mg/L (Pimephales promelas) 96h LC50: > 10000 mg/L (Pimephales promelas)		

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 331

14. TRANSPORT INFORMATION

<u>DOT</u> Proper Shipping Name Hazard Class	NOT REGULATED NON-REGULATED N/A
TDG	Not regulated
<u>MEX</u>	Not regulated



ICAO	Not regulated
IATA Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A
IMDG/IMO Hazard Class	Not regulated N/A
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Not determined
DSL	Not determined

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Toluene - 108-88-3	Developmental

U.S. State Right-to-Know Regulations

Chemical name New Jersey M	Massachusetts Pennsylvania	Rhode Island Illin	nois
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Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7					Х
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5					Х
Toluene 108-88-3	Х	Х	Х	Х	Х

International Regulations

Mexico

National occupational exposure limits

Chemical name	Carcinogen Status	Exposure Limits
Petroleum distillates, hydrotreated heavy paraffinic	A2	
Petroleum distillates, hydrotreated heavy naphthenic	A2	

A2 - Suspected Human Carcinogen

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class Not determined

16. OTHER INFORMATION

NFPA HMIS	Health Hazards 1 Health Hazards 1*	Flammability 1 Flammability 1	Instability 0 Physical Hazard 0	Physical and Chemical Hazards Personal Protection X
Chronic Hazard Star	Legend * = Chronic H	ealth Hazard		
Prepared By Issuing Date Revision Date Revision Note	23 British Latham, N 1-800-572 18-Jul-20 04-Oct-20	2-6501 12		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

Revenue Mine M-2012-032 Technical Revision 12: GW-4 Characterization and Replacement

Appendix B: Laboratory Reports



February 24, 2021

Report to: Briana Greer Ouray Silver Mines 285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Accounts Payable Ouray Silver Mines 1900 Main St PO Box 564 Ouray, CO 81427

Bill to:

Project ID: ACZ Project ID: L64296

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 16, 2021. This project has been assigned to ACZ's project number, L64296. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L64296. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after March 26, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed and approved this report.





Ouray Silver Mines

February 24, 2021

Project ID:

ACZ Project ID: L64296

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 groundwater samples from Ouray Silver Mines on February 16, 2021. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L64296. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for organic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. (R1) Applies to: /TPH C10 TO C28

Control Sample (LCS) Precision (RPD) was above acceptance limits (21%). Both LCSW and LCSWD recoveries were within acceptance criteria.



Ouray Silver Mines

Project ID: Sample ID: GW-4

ACZ Sample ID: *L64296-01* Date Sampled: *02/15/21 11:15* Date Received: *02/16/21* Sample Matrix: *Groundwater*

BTEX/Gasoline Range Organics (C6-C10)

Analysis Method: M8021B/8015D GC/PID/FID Extract Method: 5030C

L PQL
1
1
2
1
1
5 0.05
L UCL
_



Project ID: Sample ID: GW-4

OTP

ACZ Sample ID: *L64296-01* Date Sampled: *02/15/21 11:15* Date Received: *02/16/21* Sample Matrix: *Groundwater*

0.0606

*

%

70

130

Diesel Range Organics (C10-C28)

Analysis Method: M8015D GC/FID Extract Method: M3511

Workgroup: Analyst: Extract Date: Analysis Date:	WG514799 ttg 02/18/21 17:14 02/23/21 13:49								
Compound		CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28			8.44		0.0606	*	mg/L	0.242	0.485
Surrogate Recover	ies	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL

85.11

84-15-1


Organic Analytical Results

Ouray Silver Mines

Project ID: Sample ID: GW-4

ACZ Sample ID: *L64296-01* Date Sampled: *02/15/21 11:15* Date Received: *02/16/21* Sample Matrix: *Groundwater*

Volatile Organics by GC/MS

Analysis Method: M8260C/D GC/MS Extract Method: 5030C

Workgroup:	WG514572
Analyst:	jmm
Extract Date:	02/17/21 15:49
Analysis Date:	02/17/21 15:49

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Methyl Tert Butyl Ether	1634-04-4	<4	U	1	*	ug/L	4	4
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	101.3		1	*	%	70	130
Dibromofluoromethane	1868-53-7	98.8		1	*	%	70	130
Toluene-d8	2037-26-5	97.9		1	*	%	70	130

ACZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Ouray Silver Mines

Project ID: Sample ID: SW-22 ACZ Sample ID: L64296-02 Date Sampled: 02/15/21 12:15 Date Received: 02/16/21 Sample Matrix: Surface Water

BTEX/Gasoline Range Organics (C6-C10)

Analysis Method: M8021B/8015D GC/PID/FID Extract Method: 5030C

Workgroup: Analyst: Extract Date: Analysis Date:	WG514571 jmm 02/17/21 16:28 02/17/21 16:28								
Compound		CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene		71-43-2	<1	U	1	*	ug/L	1	1
Ethylbenzene		100-41-4	<1	U	1	*	ug/L	1	1
m p Xylene		1330-20-7	<2	U	1	*	ug/L	2	2
o Xylene		95-47-6	<1	U	1	*	ug/L	1	1
Toluene		108-88-3	<1	U	1	*	ug/L	1	1
TVH C6 to C10		TVH	<0.05	U	1	*	mg/L	0.05	0.05
Surrogate Recover	ies	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	e	460-00-4	113.1		1	*	%	70	130
Bromofluorobenzene	e (TVH)	460-00 4	112.7		1	*	%	70	130



OTP

Project ID: Sample ID: SW-22 ACZ Sample ID: L64296-02 Date Sampled: 02/15/21 12:15 Date Received: 02/16/21 Sample Matrix: Surface Water

0.06

*

%

70

130

Diesel Range Organics (C10-C28)

Analysis Method: M8015D GC/FID Extract Method: M3511

Workgroup: Analyst: Extract Date: Analysis Date:	WG514799 ttg 02/18/21 17:16 02/23/21 14:16								
Compound		CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28			0.3	J	0.06	*	mg/L	0.24	0.48
Surrogate Recover	ies	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL

80.51

84-15-1



Organic Analytical Results

Ouray Silver Mines

Project ID: Sample ID: SW-22

ACZ Sample ID: L64296-02 Date Sampled: 02/15/21 12:15 Date Received: 02/16/21 Sample Matrix: Surface Water

Volatile Organics by GC/MS

Analysis Method: M8260C/D GC/MS Extract Method: 5030C

Workgroup:	WG514572
Analyst:	jmm
Extract Date:	02/17/21 16:17
Analysis Date:	02/17/21 16:17

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Methyl Tert Butyl Ether	1634-04-4	<4	U	1	*	ug/L	4	4
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	99.9		1	*	%	70	130
Dibromofluoromethane	1868-53-7	99.3		1	*	%	70	130
Toluene-d8	2037-26-5	98.2		1	*	%	70	130



Ouray Silver Mines

Project ID: Sample ID: TB210209-1

ACZ Sample ID:	L64296-03
Date Sampled:	02/15/21 12:15
Date Received:	02/16/21
Sample Matrix:	Surface Water

BTEX/Gasoline Range Organics (C6-C10)

Analysis Method: M8021B/8015D GC/PID/FID Extract Method: 5030C

Workgroup: Analyst: Extract Date: Analysis Date:	WG514571 jmm 02/17/21 15:25 02/17/21 15:25								
Compound		CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene		71-43-2	<1	U	1	*	ug/L	1	1
Ethylbenzene		100-41-4	<1	U	1	*	ug/L	1	1
m p Xylene		1330-20-7	<2	U	1	*	ug/L	2	2
o Xylene		95-47-6	<1	U	1	*	ug/L	1	1
Toluene		108-88-3	<1	U	1	*	ug/L	1	1
TVH C6 to C10		TVH	<0.05	U	1	*	mg/L	0.05	0.05
Surrogate Recover	ies	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	9	460-00-4	112.2		1	*	%	70	130
Bromofluorobenzene	e (TVH)	460-00 4	111		1	*	%	70	130



Organic Reference

Report Header	Explanations								
Batch	A distinct set of s	amples analyzed at a specific time							
Found	Value of the QC	Гуре of interest							
Limit	Upper limit for RPD, in %.								
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)								
LCL	Lower Control Limit								
MDL	MDL Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #4)								
	Allows for instrument and annual fluctuations.								
PCN/SCN	PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis								
PQL	QL Practical Quantitation Limit. Synonymous with the EPA term "minimum level".								
QC	True Value of the	Control Sample or the amount added to	o the Spike						
Rec	Amount of the tru	e value or spike added recovered, in %	(except for LCSS, mg/	Kg)					
RPD	Relative Percent	Difference, calculation used for Duplica	te QC Types						
Upper	Upper Recovery	Limit, in % (except for LCSS, mg/Kg)							
UCL	Upper Control Lir	nit							
Sample	Value of the Sam	ple of interest							
QC Sample Ty	pes								
SURR	Surrogate		LFB	Laboratory Fortified Blank					
INTS	Internal Standard		LFM	Laboratory Fortified Matrix					
AS	Analytical Spike (Post Digestion)	LFMD	Laboratory Fortified Matrix Duplicate					
ASD	Analytical Spike (Post Digestion) Duplicate	LRB	Laboratory Reagent Blank					
DUP	Sample Duplicate		MS/MSD	Matrix Spike/Matrix Spike Duplicate					
LCSS	Laboratory Contro	ol Sample - Soil	PBS	Prep Blank - Soil					
LCSW	Laboratory Contro	ol Sample - Water	PBW	Prep Blank - Water					
QC Sample Ty	pe Explanations								
Blanks		Verifies that there is no or minir	mal contamination in the	e prep method or calibration procedure.					
Control Sar	nples	Verifies the accuracy of the me	thod, including the prep	procedure.					
Duplicates		Verifies the precision of the inst	trument and/or method.						
Spikes/Fort	tified Matrix	Determines sample matrix inter	ferences, if any.						
ACZ Qualifiers	(Qual)								
0	Analyte concentra	ation is estimated due to result exceedir	ng calibration range.						
н	Analysis exceede	d method hold time. pH is a field test w	vith an immediate hold t	ime.					
J	Analyte concentra	ation detected at a value between MDL	and PQL. The associat	ed value is an estimated quantity.					
L	Target analyte re	sponse was below the laboratory define	d negative threshold.						
U	The material was	analyzed for, but was not detected abo	ve the level of the asso	ciated value.					
	The associated v	alue is either the sample quantitation lin	nit or the sample detect	ion limit.					
Method Refere	nces								
(1)	EPA 600/4-83-02	0. Methods for Chemical Analysis of W	ater and Wastes, Marc	h 1983.					
(2)	EPA 600/4-90/02	0. Methods for the Determination of Or	ganic Compounds in Di	rinking Water (I), July 1990.					
(3)									
(4)	EPA SW-846. Te	est Methods for Evaluating Solid Waste							
(5)		s for the Examination of Water and Wa							
Comments									
(1)	QC results calcul	ated from raw data. Results may vary s	lightly if the rounded va	lues are used in the calculations.					
(2)		rease, solid & biological matrices for or							
(3)	-	"XQ" column indicates there is an exte							
	associated with tl								
(4)									

If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit. (4)

For a complete list of ACZ's Extended Qualifiers, please click:

https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf



ACZ Project ID: L64296

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64296-01	WG514571	*All Compounds*	M8021B/8015D GC/PID/FID	Q6	Sample was received above recommended temperature.
		Benzene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		Ethylbenzene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		m p Xylene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		o Xylene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		Toluene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		TVH C6 to C10	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
	WG514799	*All Compounds*	M8015D GC/FID	Q6	Sample was received above recommended temperature.
		TPH C10 to C28	M8015D GC/FID	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8015D GC/FID	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG514572	*All Compounds*	M8260C/D GC/MS	Q6	Sample was received above recommended temperature.
		Methyl Tert Butyl Ether	M8260C/D GC/MS	Q9	Insufficient sample received to meet method QC requirements.
L64296-02	WG514571	*All Compounds*	M8021B/8015D GC/PID/FID	Q6	Sample was received above recommended temperature.
		Benzene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		Ethylbenzene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		m p Xylene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		o Xylene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		Toluene	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
		TVH C6 to C10	M8021B/8015D GC/PID/FID	Q9	Insufficient sample received to meet method QC requirements.
	WG514799	*All Compounds*	M8015D GC/FID	Q6	Sample was received above recommended temperature.
		TPH C10 to C28	M8015D GC/FID	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8015D GC/FID	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG514572	*All Compounds*	M8260C/D GC/MS	Q6	Sample was received above recommended temperature.
		Methyl Tert Butyl Ether	M8260C/D GC/MS	Q9	Insufficient sample received to meet method QC requirements.
L64296-03	WG514571	*All Compounds*	M8021B/8015D GC/PID/FID	Q6	Sample was received above recommended temperature.



Ouray Silver Mines

ACZ Project ID: L64296

No certification qualifiers associated with this analysis

ACZ	Laboratories, Inc.
2773 Downhill Drive	Steamboat Springs, CO 80487 (800) 334-5493

Ouray Silver Mines

Receipt Verification

Sample Receipt

ACZ Project ID: L64296 Date Received: 02/16/2021 13:19 Received By: Date Printed: 2/17/2021

NO

YES

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NA

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- 1) Is a foreign soil permit included for applicable samples?
- 2) Is the Chain of Custody form or other directive shipping papers present?
- 3) Does this project require special handling procedures such as CLP protocol?
- 4) Are any samples NRC licensable material?
- 5) If samples are received past hold time, proceed with requested short hold time analyses?
- 6) Is the Chain of Custody form complete and accurate?
- 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?

A change was made in the relinquished/ received by section prior to ACZ custody.

A change was made in the relinquished/ received by section prior to ACZ custody.

A change was made in the relinguished/ received by section prior to ACZ custody.

A change was made in the relinquished/ received by section prior to ACZ custody.

Sampl	es/	Con	tain	ers

8) Are all containers intact and with no leaks?

L64296-01 Container B2375474 (VIAL UP AMBER): This container was received broken.

- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits?¹
- 12) Is there sufficient sample volume to perform all requested work?
- 13) Is the custody seal intact on all containers?
- 14) Are samples that require zero headspace acceptable?
- 15) Are all sample containers appropriate for analytical requirements?
- 16) Is there an Hg-1631 trip blank present?
- 17) Is there a VOA trip blank present?
- 18) Were all samples received within hold time?

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

REPAD LPII 2012-03

L64296-2102241528

Page	13	of	15
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YES	NO	NA
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		Х

NA indicates Not Applicable

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Х Х Х

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ACZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

ACZ Project ID: L64296 **Ouray Silver Mines** Date Received: 02/16/2021 13:19 Received By: Date Printed: 2/17/2021 Temp Rad(µR/Hr) Custody Seal Cooler Id Temp(°C) Criteria(°C) Intact? _____ _____ ___ _____ _____ 6806 10.4 <=6.0 15 Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCI preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

Name Address: CompanySold. Status a Goosties Telephone: E-mail/Decourd Telephone: Name CompanyAlex Curtes Sylewing CompanyAlex Curtes Sylewing E-mail: Curtes Sylewing Name Address: CompanyAlex Curtes Sylewing Address: CompanyAlex Curtes Sylewing Address: CompanySold. Status Sylewing Address: CompanyAlex Curtes Sylewing Address: Company Sold. Status Sylewing Address: Company Sold. Status Sylewing Address: Company Sold. Status Sylewing Address: Company Sold. Sylewing Yes E-mail: Curtes Sylewing Mater Status Status Sylewing Address: Telephone: Yes No Yes No Yes No Sampler's Status Status Company Sol No Test Status Status Status Company Sol No Sampler's Status Status Company Sol No Conce & Special Sol Sampler's Status Company Sol No Conce & Special Sol Sampler's Status Company Sol No	Report to:	teamboat Springs, CO 80487 (800) 334					
CompanySolud Statements Telephone: CompanySolud Statements Telephone: Telephone: Telephone: Invoice to: Telephone: Name: Advice Statements Address: Company Compan	Name: Briang G	reg	Add	ess:			
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Revenue Mine M-2012-032 Technical Revision 12: GW-4 Characterization and Replacement

Appendix C: Archeology Report

SUBMITTED UNDER SEPARATE, CONFIDENTIAL, COVER

CULTURAL RESOURCE INVENTORY OF PROPOSED DISTURBANCE AREAS AT THE REVENUE TUNNEL OURAY COUNTY, COLORADO

by

Jonathon C. Horn Principal Investigator

Alpine Archaeological Consultants, Inc. P.O. Box 2075 Montrose, Colorado 81402-2075

Prepared for

Star Mine Operations LLC 1675 Larimer St., Suite 820 Denver, Colorado 80202

October 2012