South Dakota Spill Report Form

PRCF #: **Case #:** 2026.123

Reported (MM/DD/YY): 8/10/26	Time:	Recorded By: HK	
A. REPORTER	Reported By: Timm Comer		
	Organization Name: Dakota Gold Corp.	☑ Discharger ☐ Public ☐ State ☐ Local ☐ Federal	
	Phone:	Email:	
	Address:		
	City:	State:	Zip:
B. DISCHARGER (Responsible Party) ☒ As Above in A	Name:		
	Address: 106 Glendale Drive, Ste A		
	City: Lead	State: SD	Zip: 57754
	Phone:	Email:	
C. INCIDENT DATE & LOCATION ☐ As Above In B	Spill Date: (MM/DD/YY) 08/10/26	Spill Time:	
	Street or Approx. Location: Paradise Gulch Ln		
	Survey Description: 44.401415, -103.800008		
	City: Lead	County: Lawrence	State: SD Zip: 57754

D. MATERIAL

Material type (Code/Name): ☐ Hazardous Substance ☐ Material Unknown ☐ Oil ☑ Other	Quantity Spilled	Spilled in Water	Units (Check one)	
Drilling Fluid	unk	unk	☐ lb. ☐ bbl.	☑ gal. ☐ oth.
			☐ lb. ☐ bbl.	☐ gal. ☐ oth.
			☐ lb. ☐ bbl.	☐ gal. ☐ oth.

E. SOURCE

Source of Spill: ☐ AST ☐ UST ☐ Railway ☐ Transport ☐ Fixed Facility ☐ Pipeline ☐ Highway ☑ Other

Description: Drilling an exploration hole

Regulated Tank Facility: ☐ Tank Facility ID #:

F. MEDIUM

Medium Affected: ☐ Air ☐ Land ☐ Water ☐ Groundwater ☐ Within Facilities Only

Waterway Affected: tributary of False Bottom Creek

G. CAUSE

Reported Cause: ☐ Transportation Accident ☐ Natural Phenomenon ☐ Operational Error ☐ Unknown ☐ Dumping ☑ Other ☐ Equipment Failure

Description: Pressure spike causing a fracture

H. DAMAGES

# of Injuries: # of Fatalities:

I. ACTIONS

Response Action Taken:
Ceased drilling to assess

K. NOTIFIED

Responding Agency: ☐ DANR ☐ Local ☑ Discharger ☐ Federal ☐ EPA ☐ Other

Agencies Notified: DANR, OEM

K. COMMENTS

Comments:

Department of Agriculture and Natural Resources
Inspection, Compliance, and Remediation Program
523 East Capitol Avenue
Pierre, South Dakota 57501

Business Hours M – F 8:00-5:00 pm
Normal Business Hours- (605)773-3296
After Business Hours- (605) 773-3231

DEPARTMENT of AGRICULTURE and NATURAL RESOURCES
JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

Timm Comer
Dakota Gold Corp.
106 Glendale Dr, Ste A
Lead, SD 57754

August 11, 2026

Subject: Department of Agriculture and Natural Resources File Number #2026.123: pertaining to a drilling fluid release off Paradise Gulch Lane near Lead, South Dakota.

Dear Mr. Comer,

The Department of Agriculture and Natural Resources (DANR) is contacting you regarding the event noted above. A copy of the initial spill report form is enclosed for your review. Based on the information provided, an unknown volume of drilling fluid was released into a creek during exploratory drilling operations. The procedures for the assessment and cleanup of spills such as this were developed to protect surface and groundwater resources. In this situation, DANR requires the following work be performed (DANR acknowledges that some of this work may already have been performed):

- Provide DANR with any photos taken at the time of release, photos showing current site conditions, and an SDS for each released material as applicable;
- By **September 11, 2026**, please complete and return the attached Written Contamination Incident Follow Up Report form.

Hanna Kollbaum has been assigned as the project manager for this case. She will review the information provided and will contact you if further remedial action is necessary. If you have questions or need additional information, please do not hesitate to contact her at (605) 773-3296. Thank you for your cooperation and assistance.

Sincerely,

for

Jaclyn McGuire
Inspection, Compliance, & Remediation Program
(605) 773-3296

cc: Paul Thomson, Lawrence County Emergency Manager
Barbara Baker, Lawrence County Administrative Assistant
Roberta Hudson, DANR

INCIDENT FOLLOW-UP REPORT

DANR CASE FILE #: 2026.123

RETURN COMPLETED FORM TO:

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES (DANR)
INSPECTION, COMPLIANCE, AND REMEDIATION PROGRAM
JOE FOSS BUILDING
523 EAST CAPITOL AVENUE
PIERRE SD 57501-3182

NAME/TYPE OF PRODUCT SPILLED: Exploration Drilling Water

TOTAL AMOUNT OF PRODUCT SPILLED: Estimated to be no more than 360 gallons (included fluid remaining in the drill hole, surrounding rock formations and entered stream)

POUNDS OF ACTIVE INGREDIENT SPILLED (fertilizer/pesticide spills): Estimated 0.9 lbs EZ-Mud Plus (active ingredient) & 1.4 lbs EZ-Mud DP Gold (active ingredient)

AMOUNT OF PRODUCT RECOVERED: Estimated that minimal amount of active ingredients was recovered from the released material

WAS SURFACE WATER OR GROUND WATER IMPACTED BY THE SPILL?: Yes

SPILL DATE: 08/10/2026 DATE CLEANUP OCCURRED: 08/10/2026

SPILL LOCATION (physical address, directions, distance to nearest intersection or landmark, etc.):
Paradise Gulch, near the historic Maitland Mining District

LATITUDE/LONGITUDE: 44.398, 103.7962

LAND USE (Residential, Commercial, Agricultural, Industrial, Other – describe): Park Forest

RESPONSIBLE PARTY: DTRC LLC

MAILING ADDRESS: 106 Glendale Drive, Suite A

CITY/STATE: Lead, SD TELEPHONE NUMBER: (605) 717-2540

PROPERTY OWNER: Maitland Partners LLC

MAILING ADDRESS: 2700 4TH AVE

CITY/STATE: Sioux Falls / SD TELEPHONE NUMBER: (605) 201-7379

CONSULTANT / CLEANUP CONTRACTOR (if applicable): Not Applicable

MAILING ADDRESS

CITY/STATE: TELEPHONE NUMBER:

INSURANCE PROVIDER (if applicable): Not Applicable

NAME OF INSURED:

POLICY NUMBER: CLAIM NUMBER:

MAILING ADDRESS:

CITY/STATE: TELEPHONE NUMBER:

INCIDENT FOLLOW-UP REPORT (Page 2 of 2)

DANR CASE FILE #: 2026.123

WAS SOIL EXCAVATED?: No DIMENSIONS OF EXCAVATION: Not Applicable

CUBIC YARDS EXCAVATED: Not Apllicable

DISPOSAL SITE (Name of Facility): Not Applicable

DISPOSAL DATE: Not Applicable ***If soil was disposed, attach copies of disposal receipts***

FERTILIZER/PESTICIDE SPILLS ONLY

WAS CONTAMINATED SOIL/MATERIAL LAND APPLIED?: Not Applicable

APPLICATION DATE Not Applicable ***Requires DANR Pre-Approval***

WAS SPILL CONTAINED TO IMMEDIATE AREA?: Estimated to be no more than 360 gallons (included fluid remaining in the drill dole, surrounding rock formations and entered stream)

DISTANCE TO AND NAME OF NEAREST SURFACE WATER (include currently dry perennial streams):

Material that entered the adjacent surface water stream appears to have only traveled approximately 1000' downstream based on visual inspection.

DISTANCE TO NEAREST WATER WELL (if applicable): Approximately 1700'

OWNER OF NEAREST WATER WELL (if applicable): Rocky & Cathy Darrah

DESCRIBE RESPONSE ACTION AND ADDITIONAL WORK PLANNED:

See Attachment 1

FORM COMPLETED BY: TimmComer DATE: 08/21/2026

E-MAIL ADDRESS: tcomer@dakotagoldcorp.com

Original – DANR
Copy – Keep for your records.

ATTACHMENT 1

After noticing the possible incident of a greyish color in a pool of water in the stream in Paradise Gulch on 08/10/2026 by DTRC LLC personnel, the drilling contractor was notified and drilling operations upgradient of the stream at the site were immediately shutdown at approximately 11:00AM. Drilling at the site had commenced following the normal switch-out of drill crews from "night shift" to "day shift" with drilling commencing at approximately 8:00AM that morning. The exploration drill hole had begun by the "night shift" crew during the preceding shift. Field personnel from the drilling crew and DTRC LLC staff then began an immediate assessment of the stream in Paradise Gulch downgradient of the drill site. During that assessment by field personnel of the stream in Paradice Gulch downgradient of the drill site, they noted some evidence of the potentially released drilling water within pooling of water locations in the stream for approximately 1000' downgradient of the point from where the drilling water appeared to have entered the stream. Following completion of initial assessment by DTRC LLC field staff (Shawn Woods), Mathew Albrecht (Environmental Specialist) was notified, and he then notified Mark Rantapaa (VP of Operations) and Timm Comer (Environmental Director)) at DTRC LLC at approximately 12:00PM. Members of DTRC LLC management team arrived at the at site of the incident at approximately 12:20PM, and following a briefing, Mark, Timm, Matt and Shawn began an assessment of the potential release on the adjacent stream in Paradise Gulch. At that time, there were no observed fish in the steam in Paradise Gulch. Then at approximately 2:20PM on 08/10/2026, Timm Notified the South Dakota Department of Natural Resources (SDDANR) [Roberta Hudson] who then put Timm in contact with Hanna Kollbaum at the SDDANR Spill Notification telephone number provided by Roberta. Timm then contacted Hanna at approximately 2:34PM. With an initial verbal report of the incident. As follow-up after that conversation, Timm returned to the incident site and conducted another assessment, at 6 locations on the stream in Paradise Gulch and 1 location on False Bottom Creek that was downgradient from the confluence of the stream in Paradise Gulch with False Botton Creek, which included the taking of photos. At that time, there were no observed fish in the steam in Paradise Gulch and no observed potential effects to fish noted in False Bottom Creek. Then at approximately 4:00PM Timm met with Matthew Carrerio and Raul Vasquez from the SDDANR at the DTRC LLC offices in Lead and traveled to the incident site. Upon arrival at the incident site at approximately 4:16PM, Timm, Matthew and Raul met briefly with the drilling contractor and noted that plugging of the exploration drill hole associated with the incident had begun. They then proceeded to conduct another assessment of the release on the adjacent stream in Paradise Gulch at various locations and the location on False Bottom Creek. Again, at that time, there were no observed fish in the steam in Paradise Gulch and no observed potential effects to fish noted in False Bottom Creek. Timm, Matthew and Raul completed the assessment at approximately 5:00PM and returned to the DTRC LLC Offices in Lead. As follow-up, Timm agreed to have another assessment completed the next morning by Matt Albrecht of the site and indicated that he would also complete an additional assessment upon arrival at the office later in the day. The next morning on 08/11/2026 at approximately 7:48AM, Matt Albrecht went to the incident site and proceeded to conduct another assessment of the release on the adjacent stream in Paradise Gulch at various locations and on False Bottom Creek. Again, at that time, there were no observed fish in the steam in Paradise Gulch and no observed potential effects to fish noted in False Bottom Creek. Later that morning, Timm then travel to the incident site and proceeded at approximately 10:55AM to conduct an additional assessment of the adjacent stream in Paradise Gulch at various locations and on False Bottom Creek, including the taking of additional photos. Again, at that time, there were no observed fish in the steam in Paradise Gulch and no observed potential effects to fish noted in False Bottom Creek. Timm also confirms at that time that the plugging of the exploration drill hole had been completed at approximately 6:00PM on 08/10/2026. Upon arrival back at the offices at approximately 11:30AM Timm provided verbal updated to both Hanna and Matthew at the SDDANR. Additionally, at approximately 4:46PM on 08/11/2026, photos taken at the incident site (Attachment 2), product information and SDSs of material added to the exploration drilling water (Attachments 3), a figure noting the approximate visual extent of the incident (Attachment 4), and figure showing an enlarged view on the site (Attachment 5) were emailed to both Hanna and Matthew at SDDANR. A copy of letter and completed South Dakota Spill Report Form (Attachment 6) was received via email on 08/11/2026 following verbal notification of the incident is also included in this report.

ATTACHMENT 2



Site 01 (08/10/2026)

Drill Pad [redacted] location off of Paradise Gulch road

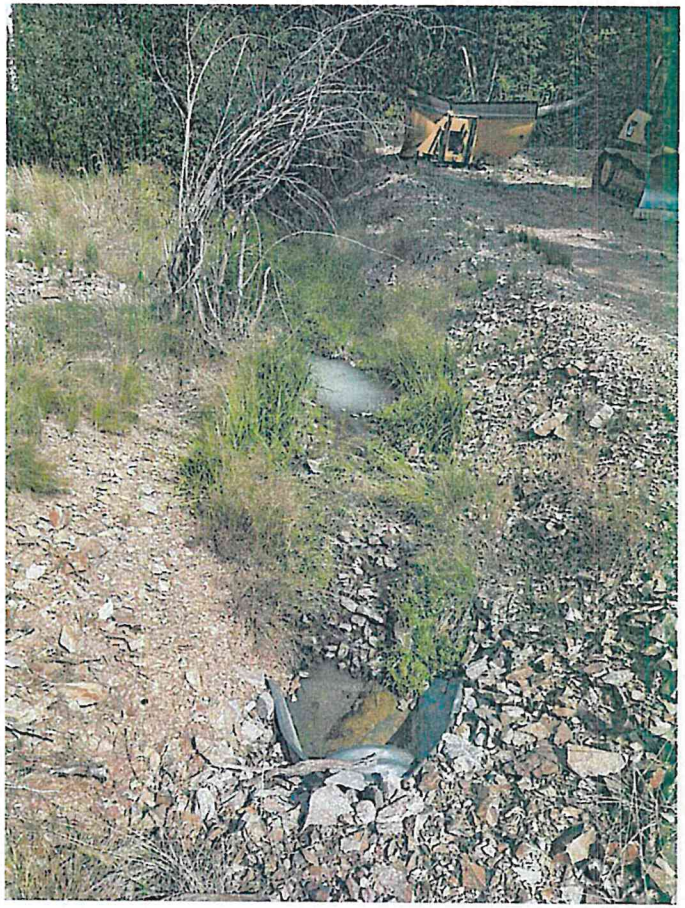


Site 02 (08/10/2026



Site 02 (08/1112026)

Below drill pad at point of entry to Stream on Paradise Gulch

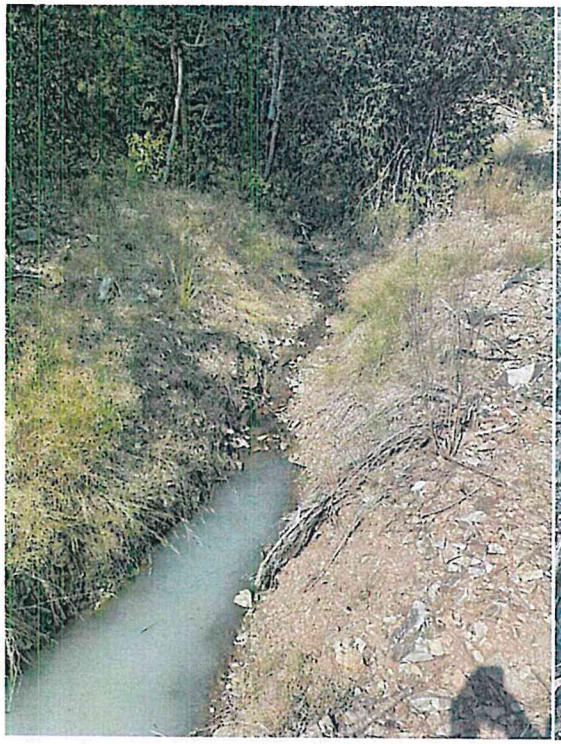


Site 02 (08/10/2026



Site 02 (08/11/2026)

Down gradient from entry point upgradient of culvert/road crossing on Paradise Gulch road



Site 04 (08/10/2026



Sites 04-05 (08/11/20206)



Site 05 (08/10/2026)

Down gradient from culvert/road across on Paradise Gulch road



Site 06 (08/10/2026



Site 06 (08/11/2026)

Down gradient from Sites 4 & 5 adjacent to Paradise Gulch road

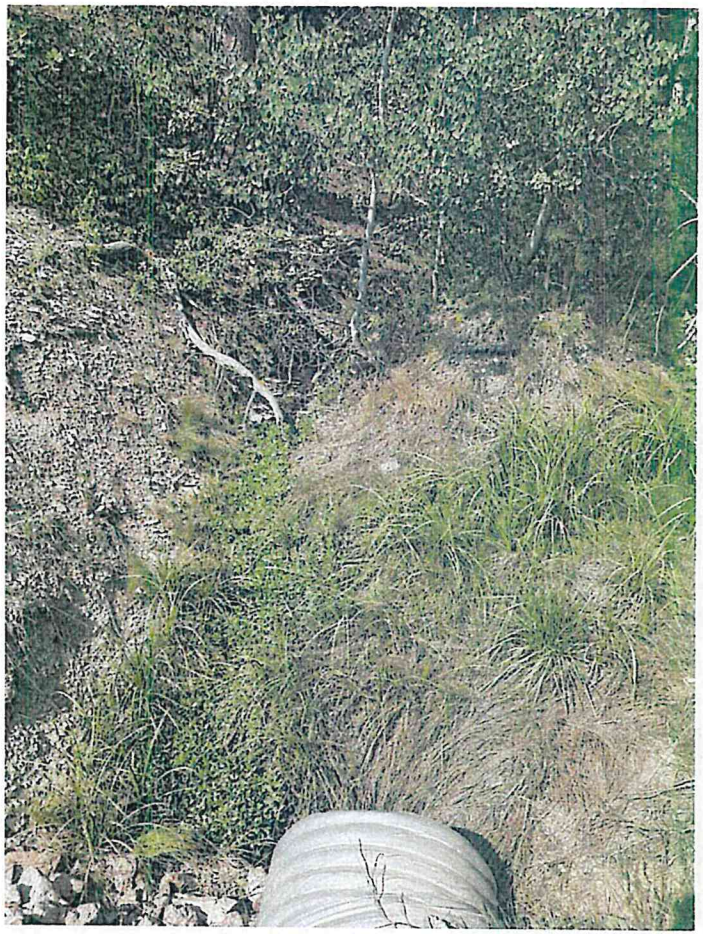


Site 07 (08/10/2026



Site 07 (08/11/2026)

Down gradient from Site 6 adjacent to Paradise Gulch road

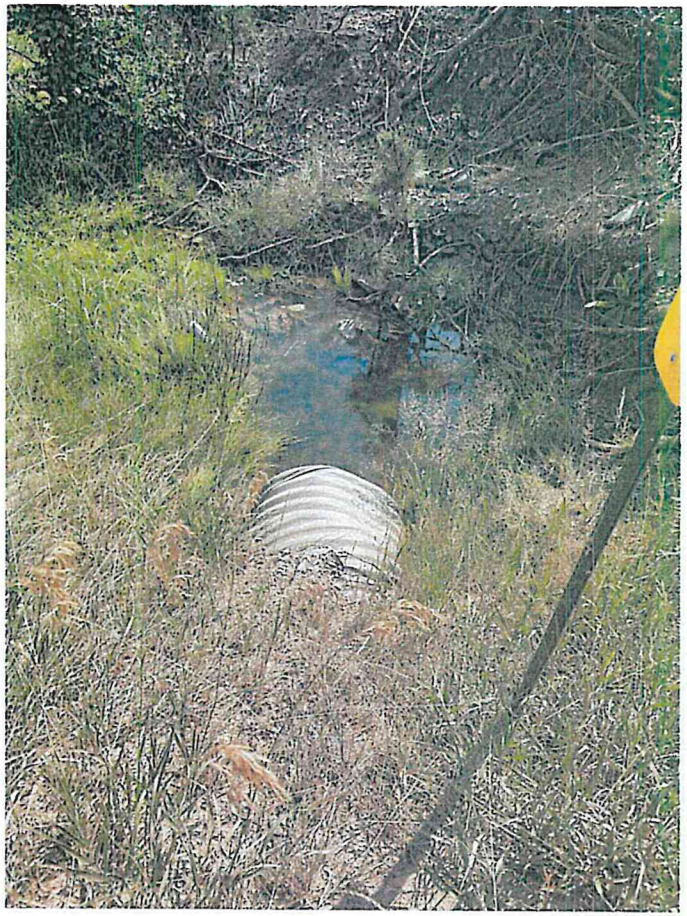


Site 08 (08/10/2026



Site 08 (08/1112026)

Up gradient of culvert under Maitland Road on Paradise Gulch



Site 09 (08/10/2026



Site 08 (08/11/2026)

Down Gradient of culvert under Maitland Road



Site 10 (08/10/2026



Sites 10-11 (08/11/20206)



Site 11 (08/10/2026)

Upgradient of culvert on Ida Grey Road on False Bott Creek downgradient of confluence of Paradise Gulch

ATTACHMENT 3

EZ-MUD® PLUS

Polymer Emulsion

Description

EZ-MUD® PLUS liquid polymer emulsion contains partially hydrolyzed polyacrylamide/polyacrylate (PHPA) copolymer and is used primarily as a viscosifier and borehole stabilizer to prevent reactive shales and clays from swelling and sloughing. EZ-MUD PLUS is also added to low-solids drilling fluids to increase lubricity and to improve the carrying capacity of air/foam injection fluids.EZ-MUD PLUS polymer emulsion is a high molecular weight version of EZ-MUD polymer emulsion with improved properties.

Applications/Functions

The use of EZ-MUD PLUS polymer assists or promotes the following:

- Stabilize reactive shale and clay formations
- Improve borehole and excavation stability
- Enhance slurry rheological properties
- Alleviate mud rings, bit balling and booting-off in clay formations
- Reduce drill pipe torque and pumping pressure
- Minimize rod chatter in diamond core drilling
- Create "stiff-foam" and maintain foam integrity
- Flocculate non-reactive solids in reserve pit at low concentrations

Advantages

- Liquid form – mixes easily with minimum shear in fresh water
- Efficient shale/clay stabilizer and viscosifier
- Non-fermenting
- Cost-effective - small amounts produce desired results
- Breaks down chemically with bleach (sodium hypochlorite)
- NSF/ANSI Standard 60 Certified

Typical Properties

• Appearance	Thick, opaque white liquid
• Density	8.33 lbs/gal (1.00 g/cm^3)
• Flash point, PMCC °F, °C	>200 (>93.3)
• Thermal stability, °F, °C	250 (121)

Recommended Treatment

Approximate Amounts of EZ-MUD® PLUS High Molecular Weight Polymer Emulsion Added to Water Based Fluids

Pints/bbl*	Quarts/100 gal	Liters/m^3
0.5 – 1.8	0.6 – 2.0	1.5 – 5.0

**1 bbl = 42 U.S. gallons*

- It is recommended that Soda Ash (sodium carbonate) be added to the make-up water prior to the addition of EZ-MUD PLUS high molecular weight liquid polymer emulsion for reduction of excess calcium and pH adjustment.
- The above are generalized concentrations of EZ-MUD PLUS high molecular weight liquid polymer emulsion to be added to water-based drilling fluids. The ultimate usage concentration will be based on local geology, application and mixing efficiency. In the event that further information is needed, please refer to the Product Data Sheet or contact your local Baroid IDP representative.

Packaging

EZ-MUD PLUS polymer emulsion is packaged in 5-gal (19-liter) plastic pail weighing 42-lbs (19-kg) and a 25-kg (55-lb) plastic pail.

Availability

EZ-MUD PLUS polymer emulsion can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

Baroid Industrial Drilling Products
Product Service Line, Halliburton
3000 N. Sam Houston Pkwy E.
Houston, TX 77032

Customer Service	(800) 735-6075 Toll Free	(281) 871-4612
Technical Service	(877) 379-7412 Toll Free	(281) 871-4613

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Rev. 02/06/2014

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

HALLIBURTON

SAFETY DATA SHEET

Product Trade Name: **EZ-MUD® PLUS**

Revision Date: 24-Sep-2018 **Revision Number:** 25

1. Identification

1.1. Product Identifier

Product Trade Name:	EZ-MUD® PLUS
Synonyms	None
Chemical Family	Blend
Internal ID Code	HM003646

1.2 Recommended use and restrictions on use

Application	Additive
Uses advised against	No information available

1.3 Manufacturer's Name and Contact Details

Halliburton Energy Services, Inc.
645 - 7th Ave SW Suite 1800
Calgary, AB
T2P 4G8
Canada
Telephone: 1-403-231-9300

Manufacturer/Supplier
Baroid Fluid Services
Product Service Line of Halliburton Energy Services, Inc.
P.O. Box 1675
Houston, TX 77251
Telephone: (281) 871-4000

Prepared By	Chemical Stewardship Telephone: 1-281-871-6107 e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number

Emergency Telephone Number	1-866-519-4752 or 1-760-476-3962 Global Incident Response Access Code: 334305 Contract Number: 14012

2. Hazard Identification

2.1 Classification of the substance or mixture

As adopted by the competent authority, this product does not require an SDS or hazard warning label.

Not classified

2.2. Label Elements

Hazard Pictograms

Signal Word: Not Classified

Hazard Statements Not Hazardous

Precautionary Statements

Prevention	None
Response	None
Storage	None
Disposal	None

2.3 Other hazards which do not result in classification
None known

3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - Canada	HMIRA Registry Number	Filing Date	Decision Granted Date
Hydrotreated light petroleum distillate	64742-47-8	10 - 30%	Asp. Tox. 1 (H304)	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	1 - 5%	Acute Tox. 3 (H301) Eye Corr. 1 (H318) Aquatic Acute 2 (H401) Aquatic Chronic 3 (H412)	Not applicable	Not applicable	Not applicable

The exact percentage (concentration) of the composition has been withheld as proprietary.

4. First aid measures

4.1. Description of first aid measures

Inhalation	If inhaled, move victim to fresh air and seek medical attention.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Skin	Wash with soap and water. Get medical attention if irritation persists. Remove contaminated shoes and discard.
Ingestion	Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

4.2 Most important symptoms/effects, acute and delayed
Causes eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media
Suitable Extinguishing Media
Water fog, carbon dioxide, foam, dry chemical.
Extinguishing media which must not be used for safety reasons
None known.

5.2 Specific hazards arising from the substance or mixture
Special exposure hazards in a fire
Decomposition in fire may produce harmful gases. Use water spray to cool fire exposed surfaces.

5.3 Special protective equipment and precautions for fire-fighters
Special protective equipment for firefighters
Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Ensure adequate ventilation.
See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

7. Handling and Storage

7.1. Precautions for safe handling

Handling Precautions
Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Ensure adequate ventilation. Wash hands after use. Launder contaminated clothing before reuse. Use appropriate protective equipment.
Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Information
Store away from oxidizers. Keep container closed when not in use. Product has a shelf life of 12 months.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Hydrotreated light petroleum distillate	64742-47-8	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Not applicable	Not applicable

8.2 Appropriate engineering controls

Engineering Controls A well ventilated area to control dust levels. Local exhaust ventilation should be used in areas without good cross ventilation.

8.3 Individual protection measures, such as personal protective equipment

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection Not normally needed. But if significant exposures are possible then the following respirator is recommended:
Organic vapor respirator with a dust/mist filter. (A2P2/P3)

Hand Protection Impervious rubber gloves.

Skin Protection Rubber apron.

Eye Protection Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions None known.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State:	Liquid	**Color**	White to gray
Odor:	Mild hydrocarbon	**Odor Threshold:**	No information available

Property Remarks/ - Method	Values
pH:	No data available
Freezing Point / Range	No data available
Melting Point / Range	No data available
Pour Point / Range	No data available
Boiling Point / Range	175 °C / 347 °F
Flash Point	> 93 °C / > 200 °F (PMCC)
Flammability (solid, gas)	No data available
Upper flammability limit	No data available
Lower flammability limit	No data available
Evaporation rate	< 1
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	1
Water Solubility	Partly soluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidizing Properties	No information available

9.2. Other information

VOC Content (%) No data available

10. Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Will Not Occur

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Ammonia. Oxides of nitrogen. Carbon monoxide and carbon dioxide.

11. Toxicological Information

11.1 Information on likely routes of exposure

Principle Route of Exposure Eye or skin contact, inhalation.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

Inhalation	May cause mild respiratory irritation.
Eye Contact	In vitro tests indicate that the product is not an eye irritant.
Skin Contact	May cause mild skin irritation.
Ingestion	May cause mild gastric distress.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

11.3 Toxicity data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrotreated light petroleum distillate	64742-47-8	>5000 mg/kg-bw (rat) (similar substance)	>2000 mg/kg-bw (rabbit) (similar substance)	>5.2 mg/L (rat, 4 h, vapor) (similar substance)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	200-300 mg/kg-bw (rat)	>2000 mg/kg-bw (rabbit)	No data available

Substances	CAS Number	Skin corrosion/irritation
Hydrotreated light petroleum distillate	64742-47-8	Non-irritating to the skin (similar substances)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Non-irritating to the skin Not a dermal irritant

Substances	CAS Number	Serious eye damage/irritation
Hydrotreated light petroleum distillate	64742-47-8	Non-irritating to rabbit's eye (similar substances)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Causes severe eye irritation which may damage tissue. Causes serious eye damage (similar substances)

Substances	CAS Number	Skin Sensitization
Hydrotreated light petroleum distillate	64742-47-8	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Did not cause sensitization on laboratory animals (guinea pig)

Substances	CAS Number	Respiratory Sensitization
Hydrotreated light petroleum distillate	64742-47-8	Based on available data, the classification criteria are not met.
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	No information available

Substances	CAS Number	Mutagenic Effects
Hydrotreated light petroleum distillate	64742-47-8	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects. (similar substances)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects. (similar substances)

Substances	CAS Number	Carcinogenic Effects
Hydrotreated light petroleum distillate	64742-47-8	Did not show carcinogenic effects in animal experiments (similar substances)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Did not show carcinogenic effects in animal experiments (similar substances)

Substances	CAS Number	Reproductive toxicity
Hydrotreated light petroleum distillate	64742-47-8	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)
Poly(oxy-1,2-ethanediyl),	69011-36-5	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal

.alpha.-tridecyl-.omega.-hydroxy-, branched		experiments.

Substances	CAS Number	STOT - single exposure
Hydrotreated light petroleum distillate	64742-47-8	No significant toxicity observed in animal studies at concentration requiring classification.
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	STOT - repeated exposure
Hydrotreated light petroleum distillate	64742-47-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	Aspiration hazard
Hydrotreated light petroleum distillate	64742-47-8	Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Not applicable

12. Ecological Information

12.1. Toxicity

Product Ecotoxicity Data

No data available

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Hydrotreated light petroleum distillate	64742-47-8	ErL50(72 h)>10000 mg/L (Skeletonema costatum)	LC50(96 h)>10000 mg/L (Scophthalmus maximus) NOELR(28 d)>1000 mg/L (fish)	No information available	LC50(48 h)>10000 mg/L (Acartia tonsa) NOELR(21 d)=1000 mg/L (Daphnia magna)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	IC50(72 h)=1-10 mg/L (Desmodesmus subspicatus)	LC50(96 h)=1-10 mg/L (Cyprinus carpio)	No information available	EC50(48 h)=1-10 mg/L (Daphnia magna) EC50(21 d)=0.37 mg/L (Daphnia magna)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Hydrotreated light petroleum distillate	64742-47-8	Readily biodegradable (68.1% @ 28d)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Readily biodegradable (> 60% @ 28d)

12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Hydrotreated light petroleum distillate	64742-47-8	No information available
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	LogPow=4.9

12.4. Mobility in soil

Substances	CAS Number	Mobility
Hydrotreated light petroleum distillate	64742-47-8	No information available
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	No information available

12.5 Other adverse effects
No information available

13. Disposal Considerations

13.1. Waste treatment methods

Disposal methods	Disposal should be made in accordance with federal, state, and local regulations.
Contaminated Packaging	Follow all applicable national or local regulations.

14. Transport Information

Canadian TDG

UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

US DOT

UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

IMDG/IMO

UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

IATA/ICAO

UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable
Special Precautions for User None

15. Regulatory Information

Canadian Regulations

Canadian Domestic Substances List (DSL) All components listed on inventory or are exempt.

US Regulations

US TSCA Inventory All components listed on inventory or are exempt.

TSCA Significant New Use Rules - S5A2

Substances	CAS Number	TSCA Significant New Use Rules - S5A2

Hydrotreated light petroleum distillate	64742-47-8	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Not applicable

EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous Substances
Hydrotreated light petroleum distillate	64742-47-8	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Not applicable

EPA SARA (311,312) Hazard Class

None

EPA SARA (313) Chemicals

Substances	CAS Number	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Hydrotreated light petroleum distillate	64742-47-8	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Not applicable	Not applicable

EPA CERCLA/Superfund Reportable Spill Quantity

Substances	CAS Number	CERCLA RQ
Hydrotreated light petroleum distillate	64742-47-8	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	Not applicable

EPA RCRA Hazardous Waste Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

NFPA Ratings: Health 0, Flammability 1, Reactivity 0
HMIS Ratings: Health 0, Flammability 1, Reactivity 0 , PPE: C

16. Other information

Preparation Information

Prepared By

Chemical Stewardship
Telephone: 1-281-871-6107
e-mail: fdunexchem@halliburton.com

Revision Date: 24-Sep-2018

Reason for Revision SDS sections updated:
2

Additional information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

Key or legend to abbreviations and acronyms used in the safety data sheet

bw – body weight
CAS – Chemical Abstracts Service
EC50 – Effective Concentration 50%
ErC50 – Effective Concentration growth rate 50%
LC50 – Lethal Concentration 50%
LD50 – Lethal Dose 50%
LL50 – Lethal Loading 50%
mg/kg – milligram/kilogram
mg/L – milligram/liter

NIOSH – National Institute for Occupational Safety and Health
NTP – National Toxicology Program
OEL – Occupational Exposure Limit
PEL – Permissible Exposure Limit
ppm – parts per million
STEL – Short Term Exposure Limit
TWA – Time-Weighted Average
UN – United Nations
h - hour
mg/m^3 - milligram/cubic meter
mm - millimeter
mmHg - millimeter mercury
w/w - weight/weight
d - day

Key literature references and sources for data
www.ChemADVISOR.com/
OSHA
ECHA C&L

Disclaimer Statement
This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

End of Safety Data Sheet

EZ-MUD® DP GOLD

Borehole Stabilizing Dry Polymer

Description

EZ-MUD® DP GOLD borehole stabilizing dry synthetic polymer contains high molecular weight partially hydrolyzed polyacrylamide/polyacrylate (PHPA) copolymer. EZ-MUD DP GOLD water-soluble polymer, when mixed with fresh water, hydrates quickly and forms a clear, viscous fluid. EZ-MUD DP GOLD dry polymer provides excellent borehole stability through a coating mechanism (encapsulation).

Applications/Functions

The use of EZ-MUD DP GOLD dry polymer assists and promotes the following:

- Stabilize reactive clay and shale formations
- Keep trench excavation open during the construction
- Produce high viscosity solids-free slurry
- Enhance rheological properties of a low-solids drilling mud
- Enhance core recovery in continous wireline coring operations
- Flocculate non-reactive solids in reserve pit at low concentrations
- Reduce torque and drag

Advantages

- Disperses and mixes easily with minimal shear
- Improved product performance due to enhanced solubility of product mixed
- Enhanced product utilization due to reduction in amounts of un-yielded product produced during mixing
- Helps impart high degree of lubricity
- Compatible with other drilling fluid additives when added in proper sequence
- Non-fermenting
- No petroleum distillates involved
- Breaks down chemically with bleach (sodium hypochlorite)
- NSF/ANSI Standard 60 Certified

Typical Properties

Appearance	Yellow, free-flowing granules
pH (0.15% solution)	7.5
Density	1.45 (as packaged)

Recommended Treatment

Approximate Amounts of EZ-MUD DP GOLD Added to Drilling Fluid System

Drilling Application/Desired Property	lbs/100 gal	lbs/bbl	kg/m^3
Added to fresh water (To formulate a clay-free drilling fluid)			
• To help stabilize water-sensitive formations	0.5 - 2.0	0.2 – 0.8	0.6 – 2.4

• To help stop rod vibration, reduce torque and pumping pressure	0.5 - 1.5	0.2 - 0.6	0.6 - 1.8
Added to QUIK-GEL® or BORE-GEL® Drilling Fluids			
• To help retard reactive shale and clay and enhance lubricity	0.25 - 0.75	0.1 - 0.3	0.3 - 1.0
Added to injection liquid in air/foam drilling applications			
• To help improve foam performance and hole conditions	0.5 - 1.0	0.2 - 0.4	0.6 - 1.2

Notes:

- Make-up water used to mix EZ-MUD DP GOLD polymer, viscosifier or additive should meet the following quality:
  total chloride less than 1500 ppm (mg/L)
  total hardness less than 150 ppm as calcium
  total chlorine less than 50 ppm
  water pH between 8.5-9.5
- Reduce total hardness of make-up water by adding soda ash (sodium carbonate) at 0.5 to 1 pound per 100 gallons (0.6 - 1.2 kg/m^3) of make-up water.
- EZ MUD DP polymer, viscosifier or additive can be chemically broken down with regular household liquid bleach (5% sodium hypochlorite). Use one gallon of liquid bleach per 100 gallons (10 liters/m^3) of fluid formulated with EZ MUD DP polymer, viscosifier or additive. Do not use perfumed liquid bleach or solid calcium hypochlorite.

Packaging

- EZ-MUD DP GOLD polymer, viscosifier or additive is packaged in 14-lb (6.35-kg) resealable plastic containers.

Availability

EZ-MUD DP GOLD dry polymer can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

Baroid Industrial Drilling Products
Product Service Line, Halliburton
3000 N. Sam Houston Pkwy E.
Houston, TX 77032

Customer Service	(800) 735-6075 Toll Free	(281) 871-4612
Technical Service	(877) 379-7412 Toll Free	(281) 871-4613

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Rev. 06/26/2014

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: **EZ-MUD® DP GOLD**

Revision Date: 08-Dec-2013

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: EZ-MUD® DP GOLD
Synonyms: None
Chemical Family: Polymer
Application: Stabilizer

Manufacturer/Supplier
Baroid Fluid Services
Product Service Line of Halliburton
P.O. Box 1675
Houston, TX 77251
Telephone: (281) 871-4000
Emergency Telephone: (281) 575-5000

Prepared By
Chemical Compliance
Telephone: 1-580-251-4335
e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT (w/w)	ACGIH TLV-TWA	OSHA PEL-TWA
Contains no hazardous substances	Mixture	60 - 100%	Not applicable	Not applicable

3. HAZARDS IDENTIFICATION

Hazard Overview Airborne dust may be explosive.

4. FIRST AID MEASURES

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Skin Wash with soap and water. Get medical attention if irritation persists.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Ingestion Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician Not Applicable

5. FIRE FIGHTING MEASURES

Flash Point/Range (F):	> 450
Flash Point/Range (C):	> 232
Flash Point Method:	Not Determined
Autoignition Temperature (F):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined

Fire Extinguishing Media	All standard firefighting media.
Special Exposure Hazards	Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this potential. Decomposition in fire may produce toxic gases.
Special Protective Equipment for Fire-Fighters	Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.
NFPA Ratings:	Health 0, Flammability 1, Reactivity 0
HMIS Ratings:	Health 0, Flammability 1, Physical Hazard 0 , PPE: B

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures	Slippery when wet. Use appropriate protective equipment.
Environmental Precautionary Measures	Prevent from entering sewers, waterways, or low areas.
Procedure for Cleaning / Absorption	Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions	Avoid creating or inhaling dust. Slippery when wet. Avoid contact with eyes, skin, or clothing.
Storage Information	Keep from excessive heat. Store away from oxidizers. Store in a cool, dry location. Keep container closed when not in use. Product has a shelf life of 12 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use in a well ventilated area.
Personal Protective Equipment	If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.
Respiratory Protection	Not normally necessary.
Hand Protection	Normal work gloves.
Skin Protection	Normal work coveralls.

Eye Protection	Wear safety glasses or goggles to protect against exposure.
Other Precautions	None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Color:	White to yellow
Odor:	Odorless
pH:	6 - 8 (5%)
Specific Gravity @ 20 C (Water=1):	0.8 - 1.0
Density @ 20 C (lbs./gallon):	Not Determined
Bulk Density @ 20 C (lbs/ft3):	48-55
Boiling Point/Range (F):	219
Boiling Point/Range (C):	103
Freezing Point/Range (F):	Not Determined
Freezing Point/Range (C):	Not Determined
Vapor Pressure @ 20 C (mmHg):	< 1
Vapor Density (Air=1):	> 1
Percent Volatiles:	< 3
Evaporation Rate (Butyl Acetate=1):	< 1
Solubility in Water (g/100ml):	Soluble
Solubility in Solvents (g/100ml):	Not Determined
VOCs (lbs./gallon):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistokes):	Not Determined
Partition Coefficient/n-Octanol/Water:	Not Determined
Molecular Weight (g/mole):	Not Determined

10. STABILITY AND REACTIVITY

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid	None anticipated
Incompatibility (Materials to Avoid)	Strong oxidizers.
Hazardous Decomposition Products	Ammonia. Oxides of nitrogen. Carbon monoxide and carbon dioxide.
Additional Guidelines	Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure	Eye and skin contact.

Sympotoms related to exposure

Acute Toxicity

Inhalation	None known.
Eye Contact	Non-irritating to rabbit's eye
Skin Contact	Not irritating to skin in rabbits.
Ingestion	None known

Chronic Effects/Carcinogenicity May contain ethylene oxide in the headspace of the drum. Ethylene oxide is a cancer and reproductive hazard.

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Contains no hazardous substances	Mixture	No data available	No data available	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

Ecotoxicity Product

Acute Fish Toxicity: LC50: (96 hour) 180 mg/l (Lepomis macrochirus)
TLM96: 130 mg/l (Oncorhynchus mykiss)
TLM96: >1000 mg/l (Pimephales promelas)

Acute Crustaceans Toxicity: Not determined

Acute Algae Toxicity: EC50: > 500 mg/l (Selenastrum capricornutum)

Ecotoxicity Substance

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Contains no hazardous substances	Mixture	No information available	No information available	No information available	No information available

12.2 Persistence and degradability
No information available

12.3 Bioaccumulative potential
No information available

12.4 Mobility in soil
No information available

12.5 Results of PBT and vPvB assessment
No information available.

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

Disposal Method Disposal should be made in accordance with federal, state, and local regulations.

Contaminated Packaging Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT
Not restricted

Canadian TDG
Not restricted

ADR
Not restricted

Air Transportation

ICAO/IATA
Not restricted

Sea Transportation

IMDG
Not restricted

Other Transportation Information

Labels: None

15. REGULATORY INFORMATION

US Regulations

US TSCA Inventory	All components listed on inventory or are exempt.
EPA SARA Title III Extremely Hazardous Substances	Not applicable
EPA SARA (311,312) Hazard Class	None
EPA SARA (313) Chemicals	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).
EPA CERCLA/Superfund Reportable Spill Quantity	Not applicable.
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.
California Proposition 65	The California Proposition 65 regulations apply to this product.
MA Right-to-Know Law	One or more components listed.
NJ Right-to-Know Law	One or more components listed.
PA Right-to-Know Law	One or more components listed.

Canadian Regulations

Canadian DSL Inventory	All components listed on inventory or are exempt.
WHMIS Hazard Class	Un-Controlled

16. OTHER INFORMATION

The following sections have been revised since the last issue of this SDS
Not applicable

Additional Information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

END OF MSDS

cdhfinechemical.com

POLYACRYLAMIDE CAS NO 9003-05-8	MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Polyacrylamide

CAS-No. : 9003-05-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd
7/28 Vardaan House
New Delhi -110002
INDIA

Telephone : +91 11 49404040
Email : care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : $(C_3H_5NO)_n$
Molecular weight : 71.07 g/mol

CAS-No. : 9003-05-8

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive. Handle and store under inert gas.
Storage class (TRGS 510): Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: > 200 °C
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	May form combustible dust concentrations in air.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.750 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available

p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - > 1,000 mg/kg(2-Propenamide, homopolymer)

Skin corrosion/irritation
No data available(2-Propenamide, homopolymer)

Serious eye damage/eye irritation
No data available(2-Propenamide, homopolymer)

Respiratory or skin sensitisation
No data available(2-Propenamide, homopolymer)

Germ cell mutagenicity
No data available(2-Propenamide, homopolymer)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No data available(2-Propenamide, homopolymer)

Specific target organ toxicity - single exposure
No data available(2-Propenamide, homopolymer)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(2-Propenamide, homopolymer)

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(2-Propenamide, homopolymer)

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(2-Propenamide, homopolymer)

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -

14.4 Packaging group
ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.

ATTACHMENT 4



Dakota Gold Corp.

N

0 250

feet

Scale 1:1,200

Pad: [redacted]

Entry

Departure

Paradise Gulch Creek (Affected: 1012')

Drillhole: [redacted]

10ft Contour

Confidential

Date: 08/11/2026

Author: Taylor Ballert

DAKOTA GOLD

ATTACHMENT 5



Dakota Gold Corp.

N

0 500

feet

Scale 1:2,400

Pad: [redacted]

Entry

Departure

Paradise Gulch Creek (Affected: 1012')

Drillhole: [redacted]

10ft Contour

Confidential

Date: 08/11/2026

Author: Taylor Ballert

DAKOTA GOLD

ATTACHMENT 6

Timm Comer

From: Kollbaum, Hanna <Hanna.Kollbaum@state.sd.us>
Sent: Tuesday, August 11, 2026 10:21 AM
To: Timm Comer
Cc: pthomson; bbaker@lawrence.sd.us; Hudson, Roberta
Subject: [External]SD DANR Case #2026.123 - Drilling fluid release
Attachments: 2026.123.pdf; Incident Follow Up Report.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Caution: This is an external email. Please take care when clicking links or opening attachments.

Good morning,

I have attached a spill report form and an initial letter outlining our requirements regarding the drilling fluid release on August 10, 2026. I have also attached an incident follow up report. This report is a standard form and questions that do not apply to your situation may be left blank. If you have any questions or concerns, don't hesitate to contact me!

Best,

Hanna Kollbaum, Environmental Scientist I
SD DANR | Inspection, Compliance, and Remediation Program
Office: 605-773-3296 | 24-Hour Spill Reporting: 605.773.3231

DEPARTMENT of AGRICULTURE and NATURAL RESOURCES
JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

Timm Comer
Dakota Gold Corp.
106 Glendale Dr, Ste A
Lead, SD 57754

August 11, 2026

Subject: Department of Agriculture and Natural Resources File Number #2026.123: pertaining to a drilling fluid release off Paradise Gulch Lane near Lead, South Dakota.

Dear Mr. Comer,

The Department of Agriculture and Natural Resources (DANR) is contacting you regarding the event noted above. A copy of the initial spill report form is enclosed for your review. Based on the information provided, an unknown volume of drilling fluid was released into a creek during exploratory drilling operations. The procedures for the assessment and cleanup of spills such as this were developed to protect surface and groundwater resources. In this situation, DANR requires the following work be performed (DANR acknowledges that some of this work may already have been performed):

- Provide DANR with any photos taken at the time of release, photos showing current site conditions, and an SDS for each released material as applicable;
- By **September 11, 2026**, please complete and return the attached Written Contamination Incident Follow Up Report form.

Hanna Kollbaum has been assigned as the project manager for this case. She will review the information provided and will contact you if further remedial action is necessary. If you have questions or need additional information, please do not hesitate to contact her at (605) 773-3296. Thank you for your cooperation and assistance.

Sincerely,

for

Jaclyn McGuire
Inspection, Compliance, & Remediation Program
(605) 773-3296

cc: Paul Thomson, Lawrence County Emergency Manager
Barbara Baker, Lawrence County Administrative Assistant
Roberta Hudson, DANR

South Dakota Spill Report Form

PRCF #: **Case #:** 2026.123

Reported (MM/DD/YY): 8/10/26	Time:	Recorded By: HK	
A. REPORTER	Reported By: Timm Comer		
	Organization Name: Dakota Gold Corp.	☑ Discharger ☐ Public ☐ State ☐ Local ☐ Federal	
	Phone:	Email:	
	Address:		
	City:	State:	Zip:
B. DISCHARGER (Responsible Party) ☒ As Above in A	Name:		
	Address: 106 Glendale Drive, Ste A		
	City: Lead	State: SD	Zip: 57754
	Phone:	Email:	
C. INCIDENT DATE & LOCATION ☐ As Above In B	Spill Date: (MM/DD/YY) 08/10/26	Spill Time:	
	Street or Approx. Location: Paradise Gulch Ln		
	Survey Description: 44.401415, -103.800008		
	City: Lead	County: Lawrence	State: SD Zip: 57754

D. MATERIAL

Material type (Code/Name): ☐ Hazardous Substance ☐ Oil ☑ Other ☐ Material Unknown

Quantity Spilled	Spilled in Water	Units (Check one)
Drilling Fluid	unk	unk	☐ lb. ☐ bbl. ☑ gal. ☐ oth.
		☐ lb. ☐ bbl. ☐ gal. ☐ oth.
		☐ lb. ☐ bbl. ☐ gal. ☐ oth.

E. SOURCE

Source of Spill: ☐ AST ☐ UST ☐ Railway ☐ Transport ☐ Fixed Facility ☐ Pipeline ☐ Highway ☑ Other

Description: Drilling an exploration hole

Regulated Tank Facility: ☐ Tank Facility ID #:

F. MEDIUM

Medium Affected: ☐ Air ☐ Land ☐ Water ☐ Groundwater ☐ Within Facilities Only

Waterway Affected: tributary of False Bottom Creek

G. CAUSE

Reported Cause: ☐ Transportation Accident ☐ Operational Error ☐ Dumping ☐ Equipment Failure ☐ Natural Phenomenon ☐ Unknown ☑ Other

Description: Pressure spike causing a fracture

H. DAMAGES

# of Injuries: # of Fatalities:

I. ACTIONS

Response Action Taken:
Ceased drilling to assess

K. NOTIFIED

Responding Agency: ☐ DANR ☐ Local ☑ Discharger ☐ Federal ☐ EPA ☐ Other

Agencies Notified: DANR, OEM

K. COMMENTS

Comments:

Department of Agriculture and Natural Resources
Inspection, Compliance, and Remediation Program
523 East Capitol Avenue
Pierre, South Dakota 57501

Business Hours M – F 8:00-5:00 pm
Normal Business Hours- (605)773-3296
After Business Hours- (605) 773-3231

DEPARTMENT of AGRICULTURE and NATURAL RESOURCES
JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

August 27, 2026

Timm Comer
Dakota Gold Corp.
106 Glendale Dr, Ste A
Lead, SD 57754

Re: No Further Action designation for DANR File #2026.123: pertaining to a drilling mud release off Paradise Gulch Lane near Lead, South Dakota.

Dear Mr. Comer,

The Department of Agriculture and Natural Resources (DANR) has reviewed the available information regarding the above referenced case and determined that remaining contamination does not pose a current risk to human health or additional risk to the environment. As a result of this determination, DANR is assigning this case a No Further Action designation.

Please note, if future problems arise from the remaining contamination Dakota Gold Corp. may be responsible for conducting assessment or remediation. The No Further Action designation will be recorded in DANR's release database and can be found at https://apps.sd.gov/NR421nteractiveMap.

Thank you for your cooperation in protecting the ground water resources of South Dakota. If you have questions or concerns about this site's No Further Action designation, please contact Hanna Kollbaum of my staff at (605) 773-3296.

Sincerely,

Hunter Roberts
Secretary

cc: Paul Thomson, Lawrence County Emergency Manager
Barbara Baker, Lawrence County Administrative Assistant
Roberta Hudson, DANR Minerals, Mining, & Superfund Program

DEPARTMENT of AGRICULTURE and NATURAL RESOURCES
JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

MEMORANDUM

8/27/26

To: Terry Florentz, P.E., Administrator
Inspection, Compliance, and Remediation

From: Hanna Kollbaum, Environmental Scientist I
Inspection, Compliance, and Remediation

8/27/2026

Date: August 27, 2026

Subject: No Further Action recommendation, pertaining to a drilling mud release off Paradise Gulch Lane near Lead, South Dakota. Department of Agriculture and Natural Resources Environmental Event #2026.123.

Site Description
The spill site is located adjacent to Paradise Gulch Lane, a rural area north of Lead, South Dakota. A small unnamed creek flows within 100 feet of the release site. The creek flows into False Bottom Creek approximately 0.25 miles downstream of the release site. There are several drinking water wells within 0.5 miles. There are no previously known releases within 0.5 miles.

Background Information
On August 10, 2026, approximately 360 gallons of drilling mud were released during exploratory drilling. The drilling mud included EZ-Mud Plus, EZ-Mud DP Gold, and water. An unknown volume of the released material entered the creek flowing adjacent to the drill site. Additional drilling mud remains in the drill hole and surrounding formations. The material was visible as discolored water in the unnamed creek up to approximately 1,000 feet downstream of the release site on the day of the release.

Response
Drilling operations ceased following the discovery of the release. The drill hole was plugged with bentonite clay and capped with cement. Dakota Gold staff performed several site assessments at the unnamed creek and in False Bottom Creek and did not observe any impacts to fish. SD DANR Rapid City staff also visited the site on August 10, 2026. Additional assessment was performed by Dakota Gold staff on August 11, 2026. The material was no longer visible the day after the release and there were still no observations of impacts to fish.

Recommendations
The released material is not hazardous and does not pose a reasonable risk to nearby drinking water wells. The material in the creek has settled out or been diluted and is unlikely to further impact surface water. DANR considers it unlikely there will be further harm to the environment or harm to human health as a result of this release. Therefore, I recommend any remaining contamination be allowed to naturally attenuate and DANR case 2026.123 be given "No Further Action" status.