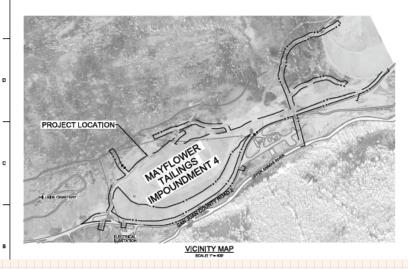


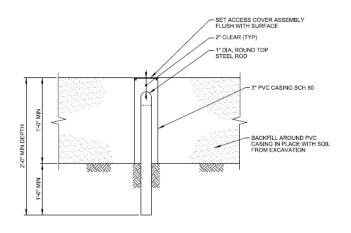


BONITA PEAK REPOSITORY
REMEDIAL DESIGN - PHASE 1
BONITA PEAK MINING DISTRICT SUPERFUND SITE
SAN JUAN COUNTY, COLORADO





US EPA | REGION 8



Agenda



- Purpose of Bonita Peak
 Repository (BPR)
- Roles & Responsibilities
- Discussion of Design
- Schedule Highlights
- Continuing Community
 Engagement

DETAIL: SOIL SETTLEMENT MONITORING POINT (SMP)









Purpose

THE BPR FACILITY IS TO BE USED TO MANAGE SITE-DERIVED MINE WASTES AND pH-STABILIZED WATER TREATMENT SLUDGE

Roles and Responsibilities

- •Lead agency
- •Responsible for successful completion of project
- •Community Involvement Point of Contact for project

•Management of HGL contract

 Major role in oversight and quality assurance and safety

- Designer of Record
- Reviews construction plans
- Provides design asst. if changes needed

EPA



USACE



CDM Smith



- •Construct the repository safely and efficiently
- Manage specialized subcontractors

Partner with HGL to execute construction of the repository

 Provide feedback on project from state perspective

•Take over O&M when remedial action is complete

HydroGeoLogic



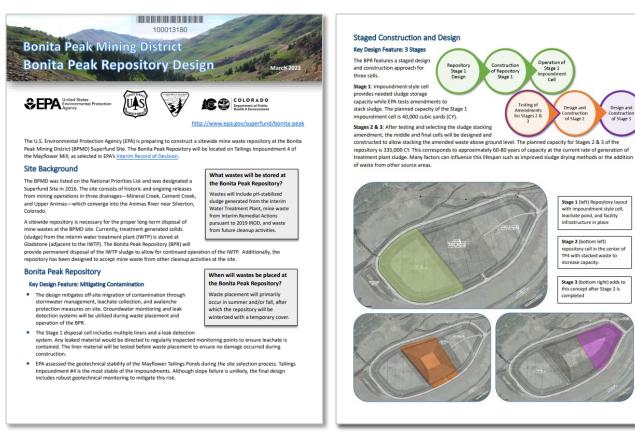
ER LLC

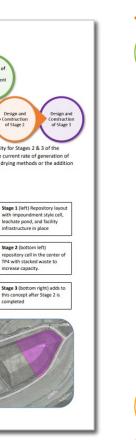


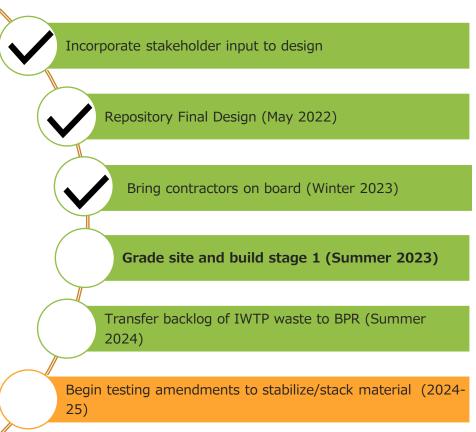
CDPHE



Discussion of Design

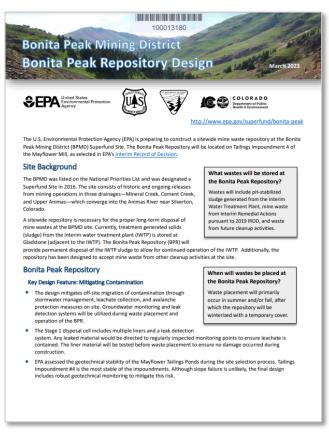






Link to Design Fact Sheet

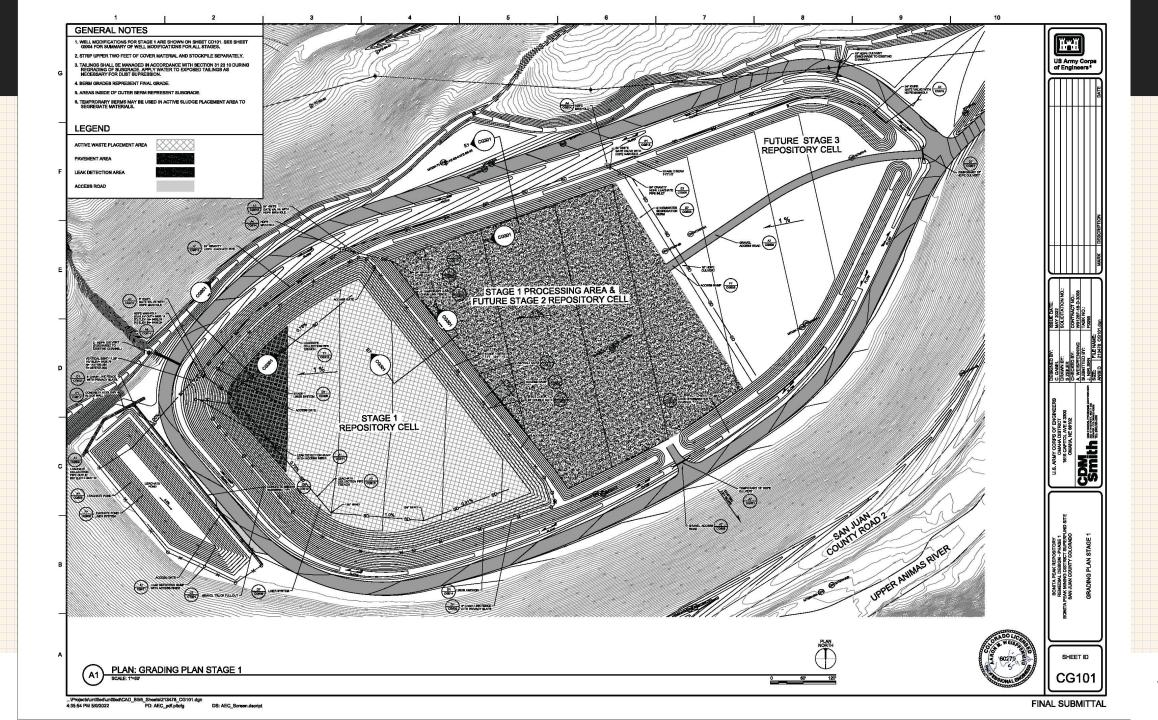
Discussion of Design

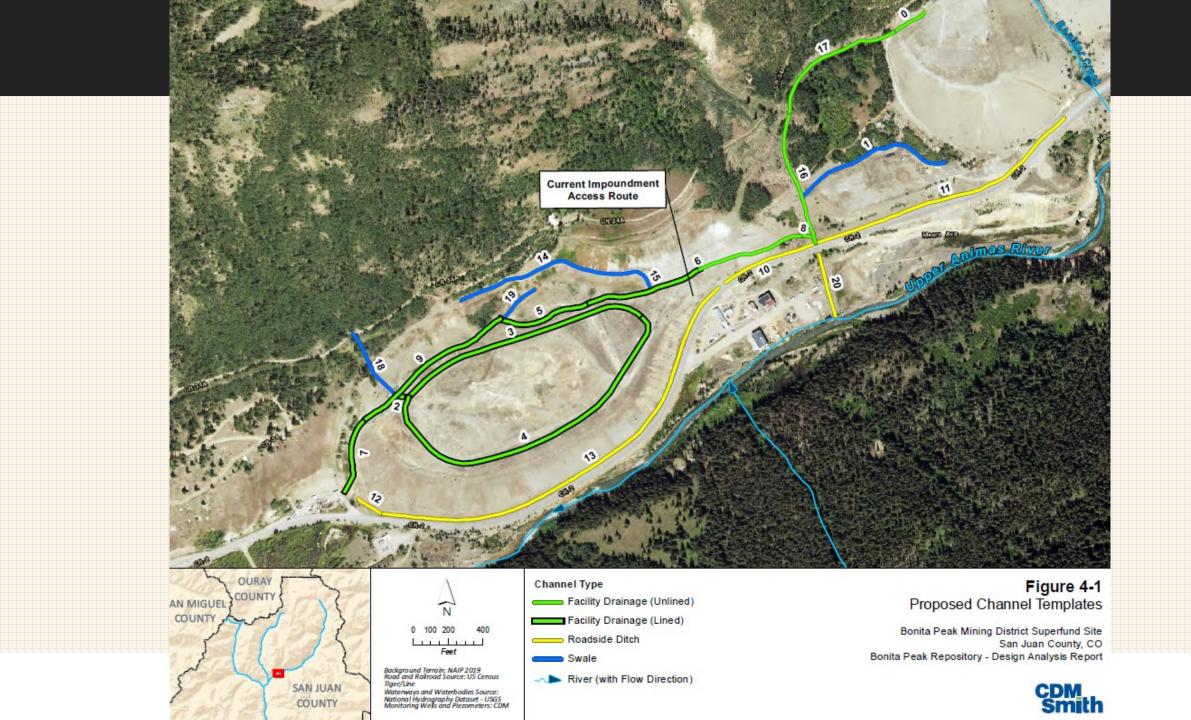




- Location: Mayflower Tailings Impoundment 4
- Max capacity, minimum disturbance
- Community input influenced the **phased design** approach
- Future phases include 2 & 3 (landfill-style impoundments)
- **Habitat:** Minimal fencing to allow elk passage and continued use throughout winter
- Fence remains around leachate pond and active cells
- Water Quality: protected through leachate collection, stormwater management improvements, leak detection, and groundwater monitoring

Link to Design Fact Sheet





Material Needs







Bonita	Peak R	epository	Phase I	Construction

Material	Yards ³
Pipe and culvert bedding	650
Channel bedding for rip rap	6,200
Channel aggregate (roadside)	2,400
Rip rap (6, 9, 15 in.)	8,500
Linear protection layer	1,200
Leachate drainage layer (CDOT 4)	7,600
Aggregate base	4,000
Aggregate surface	140
Avalanche and headwall base course	100
Boulders	30
Total needed	30,820 CY

Geotechnical Monitoring

SMPs and **DMPs**

- Surface Monitoring Points (S)
- Deformation Monitoring Points (D)

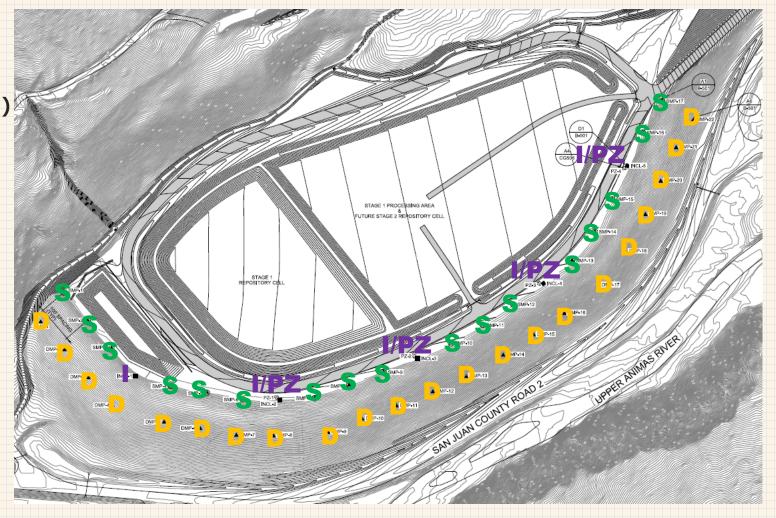
Steel rods driven into the ground with clearly marked survey on top

Inclinometers (I)

PVC casing grouted in place with instrumentation for monitoring slope changes

Piezometers (PZ)

Groundwater observation wells



Environmental Response Team (ERT) Air Monitoring

DustTrack Deployment

- ERT to deploy 3 devices to monitor dust near BPR
 - Downhill, uphill, and on top
 - Real-time data sent to EPA

Worker monitoring

- HGL to monitor worker exposure
 - regulates exposure over entire shift, not just high-dust activities
 - particularly important during movement of tails



Schedule Highlights

Soft start to set up facilities between May 15 - May 26

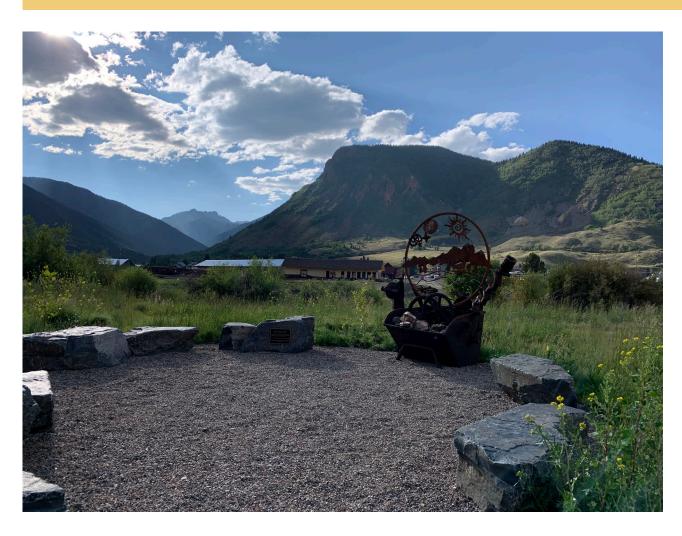
Geotechnical monitoring points to be installed throughout May/early June

Environmental Response Team air monitoring to begin prior to excavation during week of May 23

Subgrade preparation may start as early as June 5



Continuing Community Involvement

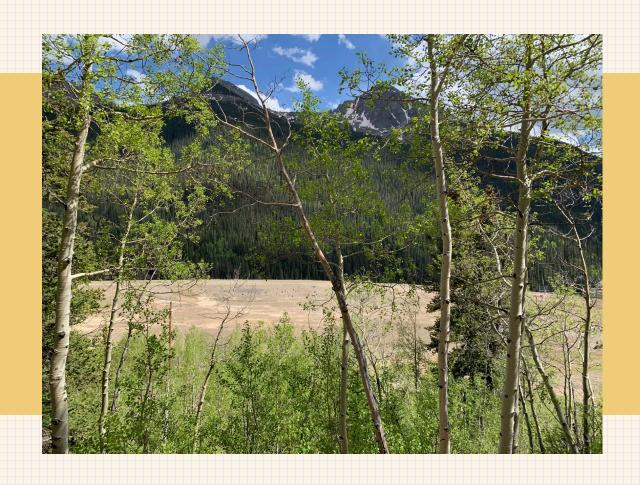


- Understand preferences of community for hauling (times of day, etc)
- Local contractor list was provided to HGL
- Repository Construction Fact Sheet in progress
- On May 10th, EPA will meet with local officials in San Juan County (afternoon) and host a public availability session from 6:00-7:00 pm
- EPA, USACE, CDPHE, and HGL will maintain open communication with stakeholders throughout project
 - Updates through PG and CAG meetings
 - Monthly newsletters
 - Project Communication SOP

Resources

- Bonita Peak Mining District Sitewide Repository Proposal
 Plan Fact Sheet, July 2020.
- Proposed Plan for Bonita Peak Repository, July 2020.
- Interim Record of Decision for Bonita Peak Repository,
 April 2021.
- Technical Considerations Report, Remedial Design Bonita
 Peak Repository Interim Remedial Action Phase 1, April
 2021.
- Remedial Design, Bonita Peak Repository, Phase 1 Design

 Analysis Report, May 2022
 - o Appendix H: Drawings
 - Appendix I: Specifications



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