




**MINERALS PROGRAM INSPECTION REPORT**  
**PHONE: (303) 866-3567**

The Division of Reclamation, Mining and Safety conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

<b>MINE NAME:</b> NCCI Pit #1	<b>MINE/PROSPECTING ID#:</b> M-2001-107	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Weld
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> April 20, 2023	<b>INSP. TIME:</b> 10:30
<b>OPERATOR:</b> Northern Colorado Constructors, Inc. Aggreg	<b>OPERATOR REPRESENTATIVE:</b> Chris Zadel	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Partial Bond	<b>BOND AMOUNT:</b> \$486,745.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Peter Hays Amber Michels Hunter Ridley	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> April 24, 2023	

**GENERAL INSPECTION TOPICS**

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

## OBSERVATIONS

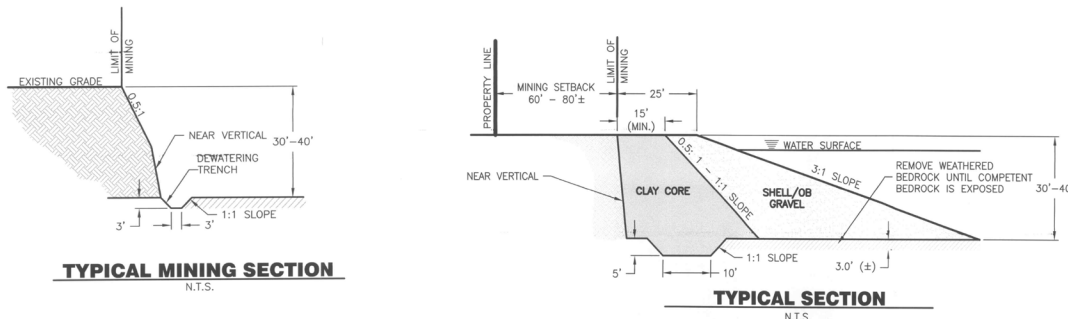
The NCCI Pit #1 site was inspected by Peter Hays, Amber Michels, Hunter Ridley and Joel Renfro with the Division of Reclamation, Mining and Safety (Division/DRMS) to observe the installation of the clay liner. Mr. Chris Zadel with Northern Colorado Constructors, Inc. and Mr. J.C. York with J&T Consulting, Inc. were present during the inspection.

A map based on the observations from this inspection and the latest available Google Earth image is attached for reference.

The site is an 112c regular construction materials operation permitted for 175.63 acres. The site is in final reclamation. The approved post-mining land use for the site is developed water resources. The construction of the clay liner around the perimeter of the southern portion of the site is on-going and nearing completion.

The purpose of this inspection was to observe a section of excavated clay liner keyway and the clay liner construction process. The preparation and cleaning of the keyway was observed and the construction of the overall liner system was discussed during the inspection. The types of equipment utilized for the liner construction and the quality control methods used to ensure the liner meets the SEO requirements were also discussed and observed during the inspection.

The liner was being constructed as depicted in the approved Mining and Reclamation Plans. The typical mining and reclamation cross-section are below:



The perimeter highwall was excavated at a nearly vertical to a 1.5H:1V slope with a dewatering trench at the base of the highwall. The clay liner keyway was excavated inward of the dewatering trench at a 1H:1V slope to a depth of 5 feet. The moisture conditioned clay core material was placed in horizontal lifts with scrapers and compacted by a sheepsfoot compactor at a 1H:1V outer slope. The perimeter slope of the liner (shell) was backfilled with sand and gravel to protect the liner from the effects of rapid drawdown during the operation of the reservoir. The area between the clay core and the highwall (Zone 4) was backfilled with overburden along the south, east and west sides to create an additional impermeably water barrier. Zone 4 was backfilled with sand along the south side to allow groundwater to migrate east to the river along the boundary. The clay liner construction is expected to be complete by May or June of this year. The SEO required leak testing will start after the completion of the liner.

The Division currently holds a financial warranty in the amount of \$486,745.00. The financial warranty amount is adequate to complete reclamation at the site based on the observations from this inspection.

Photographs taken during the inspection are attached. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303.866.3567 x 8124, or by email at [peter.hays@state.co.us](mailto:peter.hays@state.co.us).

**Inspection Contact Address**

Chris Zadel  
Northern Colorado Constructors, Inc.  
9075 WCR 10  
Ft. Lupton, CO 80621

Enclosure – Inspection Map

Ec: Jared Ebert, DRMS  
J.C. York, J& T Consulting, Inc.

## PHOTOGRAPHS



View of the southern portion of the site from the northwest corner looking south



View of the southern portion of the site from the northwest corner looking southeast





View of the southern portion of the site from the northwest corner looking east



View of the southern portion of the site from the northwest corner looking east





View of the keyway construction looking north



View of the keyway construction looking south





View of the southern portion of the site from the southeast corner looking north



View of the keyway construction from the south side looking north







# NCCI Pit #1

M-2001-107

April 20, 2023 Clay Liner Inspection Map

Dewatering Pump Location

## Legend

-  Dewatering Pump Location
-  Keyway section observed
-  NCCI Pit #1
-  Permit Boundary - 175.63 Ac

NCCI Pit #1

NCC

Google Earth

LG Everist, Inc. - Fort Apton



2000 ft