

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

The Division of Reclamation, Mining and Safety has 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.

MINE NAME:		MINE/PROSPECTING ID#:	MINERAL:	COUNTY:		
Superior S&G Pit		M-1979-189	Sand and gravel	Arapahoe		
INSPECTION TYPE:		INSPECTOR(S):	INSP. DATE:	INSP. TIME:		
Monitoring		Patrick Lennberg	August 15, 2019	09:00		
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:			
City of Aurora		Brian Green and Mike Holweger	112c - Construction Regular Operation			
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:			
Normal I&E Program		None	\$0.00			
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGENCY:			
NA		None	None			
WEATHER:	INSPECTOR'S SIGNATURE:		SIGNATURE DAT	E:		
Clear	11.1-10		August 16, 2019			
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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>N</u>	(FN) FINANCIAL WARRANTY N	(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 N	(SF) PROCESSING FACILITIES N	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- N	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>N</u>	(SP) STORM WATER MGT PLAN N	(RS) RECL PLAN/COMP N
(ES) OVERBURDEN/DEV. WASTE N	(SC) EROSION/SEDIMENTATION Y	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS N	(OD) OFF-SITE DAMAGE <u>N</u>	

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

OBSERVATIONS

This was an on-site meeting at the Superior S& G Pit, Division of Reclamation, Mining and Safety (DRMS) permit number M-1979-189 operated by the City of Aurora (Aurora). Brian Green with Aurora and Mike Holweger with Applied Design Services were in attendance. This is a 65.2 acre 112c operation in Arapahoe County. This site was originally permitted by Superior S & G Company. The permit was transferred to Rio Grande Company in 2004. Then in 2015 the permit was transferred to Aurora. The post mine land use approved for the site is primarily recreational centered on wetland/wildlife habitat creation.

DRMS conducted a monitoring inspection of this site on September 20, 2017. At that time based on the history of the site and the observations made during the inspection, it was cited that mining appears to have been completed and that reclamation had not been completed in accordance with Rule 3.1.3 and that the site had not been approved for temporary cessation in accordance with Rule 1.13.5. The Operator was given several options to either initiate mining or reclamation or to apply for temporary cessation from the Mined Land Reclamation Board. Since that time, the Operator has decided to complete reclamation.

Since 2017 Aurora has worked extensively to develop a Reclamation Plan for the site that met the requirements of Rule 3.1.5(7) that states "In all cases where a lake or pond is produced as a portion of the Reclamation Plan, all slopes, unless otherwise approved by the Board or Office, shall be no steeper than a ratio of 2H:1V, except from 5 feet above to 10 feet below the expected waterline where slopes shall be not steeper than 3H:1V.". In addition to meeting the requirement it has been discussed and agreed upon that there might be a few areas that are steeper than 3H:1V ratio and leaving some well-established Cottonwood trees along the banks. The Division concurs with this approach.

Recently, Aurora has completed both a LIDAR and bathymetric survey of the ponds and surrounding areas. These surveys will allow for a more focused remediation of the pit slopes to achieve the reclamation goals while limiting the amount of wetland disturbance as well as minimizing disturbances to the well-established wildlife habitat that exists at the site.

Aurora will have to file a Technical Revision to the Reclamation Plan to revise the final site configuration, using the drawings that were reviewed in the field during this inspection. It was discussed that some of Aurora's proposed revisions will be conceptual in nature and final configurations of some features (wildlife viewing platforms) and such may not be exact. DRMS understands this and as long as the final site configuration is not significantly different than what will be proposed, small variations are acceptable.

The Division emailed a copy of the required Technical Revision form to Brian and Mike the afternoon of the inspection and a copy is also being provided with this inspection report.

The Division would like to acknowledge the significant effort that the City of Aurora has put into developing a reclamation plan for the site and the innovative ways that they have thought about preserving the habitat that currently exists at the site. We look forward to seeing the results of reclamation activities not to mention the how the site fits into the overall Open Space management plan.

Photographs taken during the inspection are attached.

PERMIT #: M-1979-189 INSPECTOR'S INITIALS: JPL INSPECTION DATE: August 15, 2019

Please contact Patrick Lennberg (303)866-3567 ext. 8114 or email at patrick.lennberg@state.co.us if you have any questions regarding this report.

Inspection Contact Address

Tom Barrett City of Aurora 15151 E. Alameda Parkway Aurora, CO 80012

Enclosure: Technical Revision Form

cc: Michael Cunningham, DRMS

ec: Patricia Schuler, City of Aurora psechuler@auroragov.org

Brian Green, City of Aurora bcgreen@auroragov.org

Mike Holweger, Applied Design Services <u>ADSLLC@aol.com</u>

PHOTOGRAPHS



Photo 1: West most pond



Photo 2: Waste material pile that will be graded into surrounding area



Photo 3: Central pond looking north, potential wildlife viewing area



Photo 4: Central pond area looking east, center of photo is an area requiring grading with a pile of material that will be blended into the surrounding area to achieve a more natural appearance.



Photo 5: East most pond looking east.



Photo 6: East most pond looking north across the western portion of pond



Photo 7: Typical wildlife present at the site



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY 1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M-	Site Name:	
County	TR#	(DRMS Use only)
Permittee:		
Operator (If Other than Pern	nittee):	
Permittee Representative:		
Please provide a brief descri	ption of the proposed revision:	
which does not have more the Environmental Protection Planets this definition. If the the Division may require the to the permit.	Rules, a Technical Revision (TR) is: "a nan a minor effect upon the approved or lan." The Division is charged with dete Division determines that the proposed resubmittal of a permit amendment to me considered "filed for review" until the a	r proposed Reclamation or ermining if the revision as submitted revision is beyond the scope of a TR, ake the required or desired changes
Division (as listed below by expedite the review process. determine if it is approvable TR, you will be notified of s day review period there are	permit type). Please submit the appropriate After the TR is submitted with the appropriate within 30 days. If the Division requires specific deficiencies that will need to be still outstanding deficiencies, the Divisible lime, in writing, to provide the require	priate fee with your request to propriate fee, the Division will additional information to approve a addressed. If at the end of the 30 ion must deny the TR unless the
sufficient information to the	nat for the submittal of a TR; however, in Division to approve the TR request, in accurately depict the changes proposed	cluding updated mining and
Required Fees for Technical your request for a Technical	Revision by Permit Type - Please mark Revision.	k the correct fee and submit it with
Permit Type 110c, 111, 112 construction materials, and 112 quarries	Required TR Fee \$216	Submitted (mark only one)
112 hard rock (not DMO)	\$175	
110d, 112d(1, 2 or 3)	\$1006	