IMPOUNDMENT REVIEW--EXECUTIVE SUMMARY OF FINDINGS

Date(s) of	review:			
1) State		. County		
2) Impoun	ndment Name			
a.	Downstream Receiving	ng Stream(s): (1) of imp (2) of brea	oundment: kthrough points:	
b.	Watershed Size:	acres		
			acre-feet; (2) maximum:	acre-feet
3) Permitte	ee	5) MSHA ID. No.	•	
4) Permit 1	No	5) MSHA ID. No.		
6) MSHA	's Kisk Kating	•		
7) RA's R	emediation Priority	(I	Rate site based on worst-cas	e situation.)
UG mines Acpool al UG mine(s Bpool be extraction,' guidelines' Cpool ab (Zone A); a B) Dpool be UG mines E—no adja	are not located within bove UG mine; UG mine; UG mine; uG mine; uG mine and uG mine but permited within the low UG mine but permited within the low uG mine and uG mines are not are not located within accent or subjacent under the low uG mines are not located within accent or subjacent under the low uG mines are not located within accent or subjacent under the low uG mines are not located within accent or subjacent under the low uG mines are not located within accent or subjacent under the located within the located within accent or subjacent under the located within the locate	the "zone of extraction ine(s) not located within e "zone of extraction us nitted to go above UG names are not located will UG mine and UG mine i located within the "zone of permitted to exceed for the "zone of extraction erground mines.	one of no extraction," (Zone B). "zone of no extraction," (Zone B). "zone of no extraction," (Zone B). ing guidelines" (Zone B). inne and UG mine within "zone and ugent extraction s not within "zone of no extraction using guidelines" (Zone B). Illoor elevation of UG mine; using guidelines" (Zone B).	Zone A); and sone of no using raction," nes" (Zone and
	ndment Type: ☐ Sturry t Freeboard f		id freatment, CCB dispos	aı, eic.).
		t. Open/Emergency Spillw	av. \Box Vec \Box No	
		ng added to the impound		
		ed around impoundmen		
		-	located to provide informat	ion on
leakage fro	om the nond into the m	me7 IIVes 🗆 No		

15) Findings. Check the boxes where the review indicated a potential for:
a. □ breakthrough due to failure of seals to underground mine works,
b. □ breakthrough at unsealed underground mine openings,
c. □ breakthrough at UG mine outcrop barrier,
d. □ breakthrough at barrier between highwall and UG mine,
e. □ breakthrough at barrier between auger holes and UG mine,
f. □ breakthrough at barrier between adit and UG mine,
g. \square breakthrough at strata overlying the coal seam through natural fractures,
h. \square breakthrough at strata overlying the coal seam through mining-induced fractures.
16) If the impoundment breaks into the UG mine, is a discharge to the surface possible?
a. □ Yes (through open portals),
b. □ Yes (by causing failure of UG mine's portal backfill feet high),
c. \square Yes (by causing failure, based on 50+H, of the UG mine's outcrop barrier ft wide),
d. □ No (the above-drainage UG mine has the capacity to contain the water/slurry,
e. \square No (the below-drainage UG mine has the capacity to contain the water/slurry.
17) Are there any indications of?
a. □ leakage into the UG works,
b. □ drainage from the UG portals,
c. □ leakage through the UG mine's outcrop barrier.
18) Is there a potential for overlying underground mines to blow-out into the impoundment? \Box Yes, \Box No.
19) Has a breakthrough previously occurred at this impoundment? ☐ Yes, ☐ No.
20) Attach narrative describing adverse conditions identified in 15, 16, 17, 18, and 19.
21) Has the RA or MSHA previously required remediation with respect to a potential breakthrough? ☐ Yes, ☐ No. Describe.
22) Would the remediation required by the RA or MSHA address the current breakthrough concerns identified by the RA? ☐ Yes, ☐ No, ☐ N/A. Describe.

23) Address the status of the RA or MSHA-required remediation (include appropriate dates).
24) Address the remediation action taken by the RA and the status of the action (include appropriate dates).
25) Does an early warning system exist to alert of sudden changes in water level? ☐ Yes, ☐ No.
26) Is there an Emergency Action Plan (EAP) with phone numbers of appropriate: a. □ individuals living downstream of the embankment and the possible underground mine discharge points, b. □ facilities (e.g., public water supplies), c. □ agencies.
27) Does the EAP cover areas where a breakthrough could discharge? \square Yes, \square No.
28) Describe the affected downstream locations if: (a) dam breach occurred; (b) breakthrough resulted in discharge to other streams. Description should note type (home, school, business, industry, etc.), number, and location of properties and distance downstream, location above bank-full condition, anticipated flood stage at structure; presence of water supply intakes, high quality or special stream value, and other pertinent information.

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formation. (1)	
seam, and mining inf	
mpoundment, coal s	

		Impound	Impoundment, coal seam, and mining information.	i and mining i	nformation. (1))	All dist	All distances are in feet.
Feature	Elevations (for coal seams, give floor elev.) (msl)	Coal Seam Thickness (T) & Mining Height (H)	Mining Info (2)	Outcrop Barrier Width (W) & Vertical Dist. (D) From Edge of Barrier to Surface, e.g.	For Mines Below Impoundment. Vertical Dist. Mine Roof to Surface	Barrier Width (e.g., between auger and UG mine) & Overburden, e.g. 20W,50D	Coal Seam, Mine Name/Number, and Mining Date	Remediation Priority by Seam
Dam, Max Permitted (M) and Current (C)								
Pool Level, Max Permitted (M) and Current (C)								
Slurry Level, Current								
Coal Scam (Above Current Pool)								
Coal Seam (Above Current Pool)	•							
Coal Seam (Within Pool)								
Coal Seam (Within Pool)								
Bottom of Impoundment								
Coal Seam Below Impoundment Bottom								
Coal Seam Below Impoundment Bottom								
NOTES: (1) For all fields where von have not been able to verify the information	where you hav	ze not heen abl	e to verify the inform	Nation add a NV	add a NV for "not werified" to won	r potent	2) Mining Informatio	in specify the

bleeder pillars retained around the perimeter of the panels and adjacent to the outcrop barrier, and pillars pulled outby the bleeder row; give size of bleeder pillars and punchouts from the underground (UG) mine into the impoundment area. Mining method and recovery--e.g., UG1st (50x50) and UG2nd/2B (30x40). UG1st (#x#) number of bleeder rows, e.g., 2 rows of 30x40 pillars UG2nd/2B (30x40). UG2nd (#x) UG works--pillars pulled (i.e., area second mined) under/adjacent to the NOTES: (1) For all fields, where you have not been able to verify the information, add a NV for "not verified" to your entry. (2) Mining Information: specify the UG works--pillars not pulled (i.e., area first mined) in the panel(s) under/adjacent to the impoundment; give pillar size. UG2nd/#B (#x#) UG works-ventilation Adit adits, house coal mines, etc (generally short entries that do not connect with a conventional underground mine). Portal portals to underground mine. PO types of activity along the coal croplines and below the impoundment: C contour mine. R D road or diversion at/near the cropline. Auger auger holes. outcrop, and size of pillars.