

**Table OP-1a Summary of Environmental and Operational Monitoring  
During Plant Construction, Mine Unit Development, Related Site Development Activities (Page 1 of 3)**

Monitoring Description	Frequency and Reporting	Comments	Section Number		
			NRC		WDEQ
			TR	ER	
<i>Air Quality and Climate</i>					
Meteorological Station	Hourly (electronic). Monitoring records maintained on-site.	Temperature, humidity, incoming radiation, wind speed and direction, and precipitation. To support evaluation of potential radiation exposure.	5.7.7	--	OP 2.10
Dust Control	Daily. No reporting requirement.	Qualitative assessment of dust generated by construction equipment and road traffic to determine if dust suppression measures need to be implemented. Additional requirements may be part of WDEQ-AQD permit.	--	4.7.4.1	--
<i>Archeology and Cultural Resources</i>					
Need for Mitigation and Confirmation of Survey	Before and during development and construction activities.	Check proximity of activities to known sites to determine if mitigation is necessary per SHPO evaluation of baseline data. Check for unknown sites.	7.1.9	4.8	OP 2.4
<i>Equipment Performance - Wells and Pipelines</i>					
Mechanical Integrity Testing of Wells	Before use.	To ensure injection is into production zone.	3.2.5	1.2.2.1 and 7.4.4	OP 3.4
Pipeline Integrity	Before use.	To ensure pipeline materials competent and correctly installed.	--	7.4.2	OP 2.9.1

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			NRC		WDEQ
			TR	ER	
<i>Groundwater</i>					
Aquifer Testing and Monitor Well Sampling	Per Mine Unit Hydrologic Testing Proposal and Report to LQD before start-up of each Mine Unit. Sampling 4 times at least 14 days apart; once for parameters in Table OP-8 and 3 times for UCL parameters.	To determine effectiveness of monitor ring, absence of leakage through confining layers, static water levels, UCLs, WDEQ-WQD class-of-use, and related baseline information for evaluating mining effectiveness and restoration success.	5.7.8.2 and 7.1.5.2	4.5.4.2	OP 3.2.2 and OP 3.6.4.1
On-Site Baseline Wells	Quarterly. Data compilation over time and evaluation to be included in Annual Report to NRC and WDEQ-LQD.	Includes water level monitoring in 17 wells to evaluate overall mining impacts.	5.7.8.2	--	OP 2.11.1
<i>Soils</i>					
Topsoil Survey	Before development and construction activities. Results for plant site reported prior to construction; results for mine units reported with hydrologic testing data.	More detailed soil survey (Order 3) to complement Order 1 baseline survey to establish topsoil stripping depths and other protective measures.	--	--	OP 2.5
Evaluation of Topsoil Protection Measures	During development and construction activities. No reporting requirement.	Determine effectiveness of topsoil protection measures per operator SOP.	--	4.3.3	OP 2.5

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			NRC		WDEQ
			TR	ER	
<i>Surface Water</i>					
Storm Water Runoff Controls  Water Quality	Per operator SOP, minimum quarterly. No reporting requirements. Sampling and reporting per WYPDES.	Condition of detention basins and any erosion control measures. Water quality prior to basin discharge.	7.1.5.1	4.5.3.1	OP 2.6
<i>Wildlife</i>					
Timing Restrictions	Before development and construction activities. No reporting requirements.	Check with BLM, USFWS, and WGF to confirm timing restrictions to protect nesting raptors, migration routes, and similar concerns.	--	4.6.3	OP 2.8.1.1