



CARL A. WHITE WATER RECLAMATION PLANT Ernest Mine Complex, Creekside, Indiana County, Pennsylvania

OPERATORS REPORT

MINE POOL ELEVATIONS	_	R	AW WAT	ER PUMPS		ANALYSES			S			
Plant Site		1		Hrs. Pla			Plant Flow			MGD		
Sludge Well		2		Hrs.		ted		ìD				
Creekside		3		Hrs.		Sludge S.S.			ML/L			
E — 4		4		Hrs.		Precipitation	n		IN.			
	_	5		Hrs.		Raw Water	F	Н				
		6		Hrs.		Plant Eff.	ŗ	Н				
		1	2 3			1		1/4	1/2 3/	F		
Lime Slaker Op	eration				Lime	Bin No.	_	+		+-		
Lime Slurry Fe	eder			!	Lime Sli	urry Solids	ل ــــــــــــــــــــــــــــــــــــ					
Blower Operati	on					ecific Gravit			G			
			_					-				
FLASH MIXERS	1	2		AERATORS			1		2			
Liquid Flow (MGD)				Air Flow (CFM)								
Effluent pH				Dissolved Oxygen (MG/L)								
Sludge Recirculated (MGD)				Effluent pH								
			_	Sludge Recir	culated	(MGD)						
FINAL CLARIFIERS			1		2	3			4			
Scraper Operation (Hrs.)												
Effluent pH												
Cludge Withdrawal Time (Line)												
Sludge Withdrawal Time (Hrs.)												
Sludge Withdrawn (MGD)												
)											
Sludge Withdrawn (MGD))											
Sludge Withdrawn (MGD) Sludge Specific Gravity (G/CC)											

~ ~ ~ ~

(Operator)

II. OPERATIONS SCHEDULE

OPERATIONS SCHEDULE OPERATION TASK DESCRIPTION	DAILY	WEEKLY	BI-WEEKLY	MONTHLY	QUARTERLY	SEMI-ANNUALLY	ANNUALLY
RAW WATER PUMPS		İ	:				
Operate Equipment Rotate Pump Operation & Log Hours Check Oil Drops & Oil Level Lubricate Motors	XXX						Х
	:				,		
FLASH MIXERS			! !				
Operate Equipment	X		<u> </u>	! !	!	<u> </u>	
Lubricate Motors	· A		 -	! !	:	<u> </u>	X
Lubricate Gear Units			 .	 		Х	
Eddicate Geal Units		<u> </u>	<u> </u>			Λ	
AERATION TANKS	÷ .	ray prije da - a aratha da minja ma a minatana a a a		e t communerate esta esta esta esta esta esta esta e			
Operate Equipment	X				:	ļ	
Lubricate Motors		 	;	 	:		X
Lubricate Gear Units		i	:			Х	
Check for Dissolved Oxygen	X						
Check for Air Distribution & Mixing	X	·					
SETTLING TANKS	:						
Intermittent Operation of Scrapers	• X	<u> </u>		 	!		
Sludge Withdrawal	_ <u>^</u>					 	
Sludge Recirculation Pump Operation	X	<u>:</u>	:			 	
Exercise Electric Valve thru Range		X	!	 -	-	 -	
Exercise "Raise" Mechanism		X	1			 -	
Lubricate Motors	-1	A -	 	 	 	 	X
Lubricate Gear Units	1		 		1	X	- 4
Measure Sludge Blanket Level	X		<u> </u>			- 1	
indulate brange branner bever	-i-*	I	L	i	J	L	

OPERATIONS SCHEDULE LIME HANDLING	DAILY	WEEKLY	BI-WEEKLY	MONTHLY	QUARTERLY	SEMI-ANNUALLY	ANNUALLY
Operate Equipment	X						
Lime Feeder Adjustment	X						
Lime Slaker Cleaning	!	X					
Exercise Standby Units							
(conveyors, slaker, pump, etc)		X			<u> </u>	:	_
Alternate Equipment Use		X			!		
Clean Lime Slurry Vats and Tanks			_X		:		
Exercise Mixers & Pumps thru Range		X		: 	<u>:</u>		
Empty Grit	X				i		
Haul Grit	-	X					
Clean Dust Arresters @ Slakers	!			X	-	:	
Flush Pumps, Lime Slurry Feeders, etc.	X				<u>:</u>	:	
Flush Lime Slurry Pipelines	X						
SLUDGE WASTING	:				:	:	-
Operate Equipment	X			!			
Exercise Pumps thru Range		Х			i	:.	
Flood Sludge Wells in Cold Weather *	X				ì		
UTILITY WATER Operate Equipment Check Oil Drops & Oil Level Lubricate Motors	X						X
BLOWERS							
Alternate Equipment Use	X				;		
Check Speed vs Output Air	X						
Check Manometer	X				:		
Exercise Blowers thru Range		X			:	!	
Lubricate Motors					: .		X
Lubricate Gear Units	-					X	
Record Temperature and Pressure		X				i	

^{*} End of shift

OPERATIONS SCHEDULE	DAILY	WEEKLY	BI-WEEKLY	MONTHLY	QUARTERLY	SEMI-ANNUALLY	ANNUALLY
EMERGENCY GENERATOR							
Exercise Generator no-load		X		ļ 	 	 	
Exercise Generator full-load						X	
Lubrication		7			X		
Battery Check		Х					
Oil & Gas Filter Change					İ		X
INSTRUMENTATION							
Operate Equipment	X				:		
Exercise Transmitter thru Range		Х					
Purge Air Bubbler System	X					1	
Clean pH Probes		X_				ļ	
Clean Purge Pipes		X		į		<u></u>	
Check Flow Distribution	X				<u>!</u>	1	إ
Calibrate Equipment Clean Bubbler Tubes	-			:	1	X	
Record Flows of all Instruments	X		<u>X</u>			 	
HOUSEKEEPING							
Sweep Floors		X			<u>.</u>	ļ	
Dust Furniture		<u>X</u>		<u> </u>	:	-	<u>:</u>
Clean Toilet Fixtures	:	X		 	!		
Scrub Floors Cut Lawn	1		X	<u> </u>		-	
Remove Snow (As Needed)	X		X	1		<u> </u>	
LABORATORY							
Pau Wator Analysis	-			X			-
Raw Water Analysis Stream Analysis				^		:	
Measure Settleable Solids of Sludge	X	X				 	-
Check pH of Raw Water & Plant Effluent	X						+
Analyze % Solids of Sludge	X						
Analyze % Solids of Lime Slurry	X				 	 	-
Determine Specific Gravity of Sludge	X						
Determine Specific Gravity of Lime						1	
Slurry	X						
Measure Dissolved Oxygen in Aeration							
Tank	X					<u> </u>	

OPERATIONS SCHEDULE	DAILY	WEEKLY	BI-WEEKLY	MONTHLY	QUARTERLY	SEMI-ANNUALLY	ANNUALLY
LABORATORY (con't)				İ			
Measure pH of Flash Mixers & Aeration Tank Effluent	X						
UTILITIES							
Record Electric Power Used				Х	!		
Record City Water Usage	!			X			
MAINTENANCE Dust and Wipe Equipment Misc. Spot Painting				X		X	
Mise. Spot Fainting					 	, A	
MISCELLANEOUS							
Check Mine Level at Plant	X	· -				-	
Check Mine Level at Creekside Check Mine Level @ Sludge Pit	X		<u> </u>	<u> </u>	-	1	
Check Mine Level @ E-4	Λ	X		 			
Record Motor Amperage	 	X			 		
Record Equipment Hours of Operation	X	Α		 			
Record Weather & Precipitation	X	<u> </u>	-			 	
Service Vehicles	+			X		i	:
	·	J			4	J	نـــــــــــــــــــــــــــــــــــــ

III. RAW WATER ANALYSIS

CARL A. WHITE WATER RECLAMATION PLANT

RAW WATER ANALYSIS .

Date Collected: January 2, 1980		
Collected By: HML, RAW		
Date (s) Analyzed: January 2, 1980		
pH	3.10	·
Cold Acidity (mg/l as CaCO ₃)	1273	
Hot Acidity (mg/l as CaCO ₃)	1262	
Total Alkalinity (mg/l as CaCO ₃)	0	
Sulfates (mg/l)	1950	
Conductivity (umhos/cm)	2020	
Total Solids (mg/l)	3000	
Suspended Solids (mg/l)	523	
Dissolved Solids (mg/l)	2477	
Iron (mg/l)	409	
Manganese (mg/l)	9.3	
Aluminum (mg/l)	105	
REMARKS:		
		
		
		

Analyst: 4 H. Th. Th. L. L.