

DESCRIPTION:	6M Zone 1 Lubrication and Service	FREQUENCY:	6 Months
LOCATION:	ST041 Goodna Sewerage Treatment Plant	STANDARD JOB No.:	LTS326

Tools & Equipment
Spare Parts/Materials List
Castrol SP220 Oil
Castrol Hyspin AWH46
Castrol EPL2 Grease
Castrol Perfecto T68
Castrol AP3 Grease
Reference
Maintenance Group
Grit Classifier and Conveyor
Grit Pump
Wash Presses
Grit Vortex Paddle
Band Screens
Incline Rotary Drum Screens
PTA Penstocks
Air Treatment Facility
Procedural Steps:
*Before isolating any equipment where possible observe in running condition. Check for correct operation.
Grit Classifier and Conveyor
Check classifier for noise, leaks, vibration.
Check conveyor for noise, leaks, vibration.
Check classifier drive gearbox for oil leaks.
Check conveyor drive gearbox for oil leaks.
Check valve actuator and airlines for leaks and defects.
Isolate Classifier and Grit Conveyor
Open the inspection hatch on the sedimentation tank.
Check baffle plate in the sedimentation tank for entanglement and coarse substances.
Ensure that the discharge pipe and overflow edge are free from obstruction.

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Drain sedimentation chamber.	
Check stirring unit for deformations and blockages.	
Clear blockages if any.	
Check classifier drive gearbox oil for contamination. Top up with SP220 if required.	
Check classifier drive gearbox breather and clear any obstructions.	
Grease classifier drive gearbox stuffing box with AP3 grease.	
Check classifier structure for loose bolts, defects.	
Check access platform for loose bolts, defects.	
Check pipe work and valving for leaks and defects.	
Check conveyor drive gearbox oil for contamination. Top up with SP220 if required.	
Check conveyor drive gearbox breather and clear any obstructions.	
Check conveyor structure for loose bolts, defects.	
Clean feed water rotameter.	
Bring Classifier and Grit Conveyor back online.	
Grit Pump	
Check pump for noise, leaks, vibration.	
Check pump bearing housing for oil leaks.	
Check pump bearing oil level and for contamination. Top up with Castrol Hyspin AWH46 if required.	
Check condition of couplings and rubbers	
Check pipe work and valving for leaks, defects.	
Check pumps assembly for loose bolts, defects.	
Clean flushing water rotameter.	
Grease suction, delivery and bypass valve spindles via grease nipples with EPL2.	
Grease grit chamber valves adjacent to grit pump area via grease nipples with EPL2.	
Wash Press 1	
Check wash press for noise, leaks, vibration.	
Check wash press drive gearbox for oil leaks.	
Check wash press drive gearbox oil for contamination. Top up with SP220 if required.	
Check wash press drive gearbox breather and clear any obstructions.	
Check conveyor bearing auto greasing canister.	
Check wash press structure for loose bolts, defects.	
Check the conveyor cleaning brush, liner and screw for wear.	
<ul style="list-style-type: none"> Isolate wash press and drain feeder box. Open top cover to view brush. Open cover on discharge end to view conveyor screw and liner. Check screw diameter and liner thickness. 	

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Wash Press 2			
Check wash press for noise, leaks, vibration.			
Check wash press drive gearbox for oil leaks.			
Check wash press drive gearbox oil for contamination. Top up with SP220 if required.			
Check wash press drive gearbox breather and clear any obstructions.			
Check conveyor bearing auto greasing canister.			
Check wash press structure for loose bolts, defects.			
Check the conveyor cleaning brush, liner and screw for wear.			
<ul style="list-style-type: none"> Isolate wash press and drain feeder box. Open top cover to view brush. Open cover on discharge end to view conveyor screw and liner. Check screw diameter and liner thickness. 			
Wash Press Area			
Grease PTA drain valves located near Wash Presses via grease nipple with EPL2.			
Grit Vortex Paddle			
Check gear reducer and turn table assembly for noise, leaks, vibration.			
Check gear reducer oil level and for contamination. Top up with SP220 if required.			
Check gear reducer gearbox breather and clear any obstructions. Clean if necessary.			
Check turn table bearing oil for contamination			
Band Screen 1			
Check Band Screen for noise, vibration.			
Check Band Screen drive gearbox for oil leaks.			
Check Band Screen drive gearbox oil for contamination. Top up with SP220 if required.			
Check Band Screen drive gearbox breather and clear any obstructions. Clean if necessary.			
Grease shaft bearings and seals with EPL2. 2 grease nipples at each end.			
Check Band Screen assembly for loose bolts, covers.			
Band Screen 2			
Check Band Screen for noise, vibration.			
Check Band Screen drive gearbox for oil leaks.			
Check Band Screen drive gearbox oil for contamination. Top up with SP220 if required.			
Check Band Screen drive gearbox breather and clear any obstructions. Clean if necessary.			
Grease shaft bearings and seals with EPL2. 2 grease nipples at each end.			
Check Band Screen assembly for loose bolts, covers.			

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Inclined Screen 1
Check Inclined Screen drive gearbox for noise, leaks, vibration.
Check Inclined Screen drive gearbox oil for contamination. Top up with SP0 if required.
Check all pipe work and valving for leaks, defects. (screens wash water and ATF)
Check covers and handrail for defects.
Check all sealing gaskets on cover for defects.
Inclined Screen 2
Check Inclined Screen drive gearbox for noise, leaks, vibration.
Check Inclined Screen drive gearbox oil for contamination. Top up with SP0 if required.
Check all pipe work and valving for leaks, defects. (screens wash water and ATF)
Check covers and handrail for defects.
Check all sealing gaskets on cover for defects.
Inclined Screen 3
Check Inclined Screen drive gearbox for noise, leaks, vibration.
Check Inclined Screen drive gearbox oil for contamination. Top up SP0 if required.
Check all pipe work and valving for leaks, defects. (screens wash water and ATF)
Check covers and handrail for defects.
Check all sealing gaskets on cover for defects.
PTA Penstocks
Clean drive shafts and regrease with EPL Grease.
Inspect for wear on drive nuts.
Air Treatment Facility (ATF)
Check induction fans for noise, vibration.
Check Recirculation Pumps for noise, leaks, vibration.
Check Recirculation Pumps pipe work for leaks, defects.
Check pump mounting skid for defects and tightness of fasteners.
Check Nutrient pump and pipe work for leaks, defects.