

DESCRIPTION:	6 Monthly Zone 1 Lubrication and Service	FREQUENCY:	6 Months
LOCATION:	Bundamba Sewerage Treatment Plant	STANDARD JOB No.:	LTS325

Tools & Equipment
Spare Parts/Materials List
Castrol LMX Grease
Castrol White Oil 15 BP
Castrol Hyspin AWH100
Shell Gadus S2 V100 2
Reference
Installation, Operation and Maintenance Manual for Gorman-Rupp Super T Series
Maintenance Group
Aeration Tank 5
Aeration Tank 4
Aeration Tank 3
Anaerobic Tank 3
Anaerobic Tank 4
Anaerobic Tank 5
Plug Valve Pits
Knife Gate Pits
WAS Pump Station
Procedural Steps
Before isolating any equipment where possible observe in running condition. Check for correct operation.
Aeration Tank 5
MIXERS
Mixer A Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.
Mixer B Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.
Mixer A Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.
Mixer B Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.
Mixer A Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.
Mixer B Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.
Mixer Zone 4 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.
Mixer Zone 8 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.
Remove grease from penstock spindles and re-grease with LMX Grease.

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A-RECYCLE PUMPS			
A-Recycle Pump 1 - Lift pump and clear any build-up of rag and debris around propeller. Access condition of pump.			
A-Recycle Pump 2 - Lift pump and clear any build-up of rag and debris around propeller. Access condition of pump.			
Aeration Tank 4			
MIXERS			
Mixer A Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer B Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer A Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer B Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer A Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer B Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 4 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 8 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Remove grease from penstock spindles and re-grease with LMX Grease.			
A-RECYCLE PUMPS			
A-Recycle Pump 1 - Lift pump and clear any build-up of rag and debris around propeller. Access condition of pump.			
A-Recycle Pump 2 - Lift pump and clear any build-up of rag and debris around propeller. Access condition of pump.			
Aeration Tank 3			
MIXERS			
Mixer A Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer B Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer A Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer B Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer A Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer B Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 4 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 8 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Remove grease from penstock spindles and re-grease with LMX Grease.			
A-RECYCLE PUMPS			
A-Recycle Pump 1 - Lift pump and clear any build-up of rag and debris around propeller. Access condition of pump.			
A-Recycle Pump 2 - Lift pump and clear any build-up of rag and debris around propeller. Access condition of pump.			

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Anaerobic Tank 3			
Mixer Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Remove grease from penstock spindles and re-grease with LMX Grease.			
Anaerobic Tank 4			
Mixer Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Remove grease from penstock spindles and re-grease with LMX Grease.			
Anaerobic Tank 5			
Mixer Zone 1 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 2 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Mixer Zone 3 – Lift mixer and clear any build-up of rag and debris around propeller. Access condition of mixer.			
Remove grease from penstock spindles and re-grease with LMX Grease.			
WAS Pump 1			
Check valves and pipe work for leaks.			
Check pumps for leaks, noise and/or vibration.			
Remove coupling guard and check condition on couplings and rubbers.			
Check oil level (Hyspin AWH100) top up if needed.			
Refer to referenced manual for guidance.			
Grease motor bearings with 10 shots of Shell Gadus S2 V100 2			
***** Ensure that the grease exit ports are opened during lubrication*****			
WAS Pump 2			
Check valves and pipe work for leaks.			
Check pumps for leaks, noise and/or vibration.			
Remove coupling guard and check condition on couplings and rubbers.			
Check oil level (Hyspin AWH100) top up if needed.			
Refer to referenced manual for guidance.			
Grease motor bearings with 10 shots of Shell Gadus S2 V100 2			
***** Ensure that the grease exit ports are opened during lubrication*****			

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	Main Plug Valve Pit
	Access condition of valve from ground level. Check valve for rotation.
	Plug Valve Pit No.1
	Access condition of valve from ground level. Check valve for rotation.
	Plug Valve Pit No.2
	Access condition of valve from ground level. Check valve for rotation.
	Knife Gate Valve Pit No.1
	Access condition of valve from ground level. Check valve for rotation.
	Knife Gate Valve Pit No.2
	Access condition of valve from ground level. Check valve for rotation.
	Knife Gate Valve Pit No.3
	Access condition of valve from ground level. Check valve for rotation.