

DESCRIPTION:	12 Monthly Zone 3 Lubrication and Service	FREQUENCY:	12 Months
LOCATION:	Goodna Sewerage Treatment Plant	STANDARD JOB No.:	LTS330

	Tools & Equipment
	Spare Parts/Materials List
	Castrol EPL2 Grease
	Castrol Whitemor WOM 14
	Castrol AP3 Grease
	Shell Omala 220 or equivalent
	Castrol Ultratak
	Reference
	Follow correct shut down procedures before working on any equipment.
	Goodna Sludge Dewatering Plant Operation & Maintenance Manual Volume 1 May 2008
	Section 7 Maintenance & Section 8 Lubrication Schedule
	Maintenance Group
	BFP Wash Water Pumps
	Sludge Hopper
	Macerator
	Sludge Feed Pumps
	Sludge Buffer Tank (WAS) Mixer
	Gravity Deck & Belt Press No.1
	Gravity Deck & Belt Press No.2
	Poly Mixing Unit No.1
	Poly Mixing Unit No.2
	Service Water Pumps and Storage Tanks
	Air Treatment Facility (ATF) Feed Pumps
	Procedural Steps:
	*Before isolating any equipment where possible observe in running condition. Check for correct operation.

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	Belt Press Wash Water Pump Station
	Inspect Belt Press Facility Effluent pumps for noise, leaks and vibration.
	Check valves and pipe work for leaks and defects.
	Check pumps base, frame and cover for defects and corrosion.
	Sludge Hopper – Scissor Lift required
	Check and grease bell housing gland packing on Incline, Slewing and Horizontal Reversing Conveyors.
	Replace oil in Drive Gearmotors on above conveyors.
	Check Drive Gearmotors for noise, leaks and vibration.
	Check that grease has not hardened in grease lines to Clam Shell Gates conical outlets.
	Apply ELP2 grease to Clam Shell grease lines.
	Ensure load cells are free from build-up of dirt and debris.
	Inspect Sludge Hopper and structure for defects.
	Inspect Pneumatic rams for leaks and general appearance, includes mountings.
	Macerator
	Check for any abnormal noises and vibration
	Carry out 12 month service on valves and inspect pipe work.
	Inspect all fasteners and for leaks.
	Replace oil in Gearbox.
	Apply grease to greasing point
	Remove covers on macerator and check the condition of the blades. Clear any debris build up from inside.
	Sludge Feed Pumps
	Inspect Sludge Feed pumps for noise, leaks and vibration.
	Inspect pipe work and valving for leaks and defects.
	Change Gearboxes oil with Shell Omala 220 or equivalent checking for contamination.
	Sludge Buffer Tank (WAS) Mixer
	Inspect davit and winch.
	Check mixer for any abnormal noises and vibration

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	Gravity Deck No.1
	Check wear on doctor blades.
	Check spray bar operation.
	Check wear on spray pipe brush.
	Check roller bearing seals.
	Check condition of roller bearings
	Check condition of rollers
	Clean inside belt washing box.
	Check seals on gravity zone skirts and wash boxes.
	Check tracking devices.
	Check belt wear.
	Replace oil in Drive Gearmotor.
	Check all grease lines, grease nipples and automatic greasers for defects & level.
	Top up auto greasers if required with Ultratak grease
	Belt Press No.1
	Check wear on doctor blades.
	Check spray bar operation.
	Check wear on spray pipe brush.
	Check roller bearing seals.
	Check condition of roller bearings
	Check condition of rollers
	Clean inside belt washing box.
	Check tracking devices.
	Check belt wear.
	Replace oil in Drive Gearmotor.
	Replace Mixer Gearbox oil checking for contamination.
	Check all grease lines, grease nipples and automatic greasers for defects & level.
	Top up auto greasers if required with Ultratak grease
	Check and grease bell housing gland packing on Horizontal Conveyor.
	Replace Conveyor Drive Gearmotor oil checking for contamination.
	Check Conveyor Drive Gearmotor for noise, leaks and vibration.

	Gravity Deck No.2
	Check wear on doctor blades.
	Check spray bar operation.
	Check wear on spray pipe brush.
	Check roller bearing seals.
	Check condition of roller bearings
	Check condition of rollers
	Clean inside belt washing box.
	Check seals on gravity zone skirts and wash boxes.
	Check tracking devices.
	Check belt wear.
	Replace oil in Drive Gearmotor.
	Check all grease lines, grease nipples and automatic greasers for defects & level.
	Top up auto greasers if required with Ultratak grease
	Belt Press No.2
	Check wear on doctor blades.
	Check spray bar operation.
	Check wear on spray pipe brush.
	Check roller bearing seals.
	Check condition of roller bearings
	Check condition of rollers
	Clean inside belt washing box.
	Check tracking devices.
	Check belt wear.
	Replace oil in Drive Gearmotor.
	Replace Mixer Gearbox oil checking for contamination.
	Check all grease lines, grease nipples and automatic greasers for defects & level.
	Top up auto greasers if required with Ultratak grease
	Check and grease bell housing gland packing on Horizontal Conveyor.
	Replace Conveyor Drive Gearmotor oil checking for contamination.
	Check Conveyor Drive Gearmotor for noise, leaks and vibration.

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Poly Mixing Unit No.1
Inspect and clean drain valves.
Inspect agitator motor and gearbox (sealed unit).
Inspect fasteners.
Inspect shut-off, regulating, check and solenoid valves along with associated pipe work.
Inspect feeder gearbox and motor (sealed unit).
Grease feeder gearwheels.
Inspect feeder cylinder.
Check Poly Dosing pumps for any abnormal noise and vibration.
Inspect Poly Dosing pumps fasteners and seals.
Replace oil in Poly Dosing Pump gearboxes.
Poly Mixing Unit No.2
Inspect and clean drain valves.
Inspect agitator motor and gearbox (sealed unit).
Inspect fasteners.
Inspect shut-off, regulating, check and solenoid valves along with associated pipe work.
Inspect feeder gearbox and motor (sealed unit).
Grease feeder gearwheels.
Inspect feeder cylinder.
Check Poly Dosing pumps for any abnormal noise and vibration.
Inspect Poly Dosing pumps fasteners and seals.
Replace oil in Poly Dosing Pump gearboxes.
Service Water Pumps
Check valves and pipe work for leaks and defects.
Check Service Water Pump 1 for noise, leaks, vibration.
Check Service Water Pump 2 for noise, leaks, vibration.
Check Service Water Pump 3 for noise, leaks, vibration.
Check Surge Vessel for leaks, defects.
Check Service Water Mixing Pump for noise, leaks, vibration.
Check Service Water Storage Tanks for leaks, defects.
ATF Feed Pumps
Check valves and pipe work for leaks and defects.
Check Surge Vessel for leaks, defects.
Check ATF Feed Pump 1 for noise, leaks, vibration.
Check ATF Feed Pump 2 for noise, leaks, vibration.