

<b>DESCRIPTION:</b>	6 Monthly Zone 3 Lubrication and Service	<b>FREQUENCY:</b>	6 Months
<b>LOCATION:</b>	Goodna Sewerage Treatment Plant	<b>STANDARD JOB No.:</b>	LTS329

<b>Tools &amp; Equipment</b>
<b>Spare Parts/Materials List</b>
Castrol EPL2 Grease
Castrol Whitemor WOM 14
Castrol AP3 Grease
Castrol Ultratak
<b>Reference</b>
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
<b>Maintenance Group</b>
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
<b>Procedural Steps:</b>
<b>*Before isolating any equipment where possible observe in running condition. Check for correct operation.</b>
<b>Belt Press Wash Water Pump Station</b>
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.

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<b>Sludge Hopper – Scissor Lift Required</b>
Check and grease bell housing gland packing on Incline, Slewing and Horizontal Reversing Conveyors.
Check Drive Gearmotors oil level and for contamination on above conveyors. Top up if required.
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 Pneumatic rams for leaks and general appearance, includes mountings.
<b>Macerator</b>
Check for any abnormal noises and vibration
Inspect pipe work and valving for leaks and defects.
Inspect all fasteners and for leaks.
Check Gearbox oil level and for contamination. Top up if required.
Apply grease to greasing point
<b>Sludge Feed Pumps</b>
Inspect Sludge Feed pumps for noise, leaks and vibration.
Inspect pipe work and valving for leaks and defects.
Check Gearboxes oil level and for contamination. Top up if required.
<b>Sludge Buffer Tank (DWAS) Mixer</b>
Inspect davit and winch.
Check mixer for any abnormal noises and vibration
<b>Gravity Deck No.1</b>
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.
Check Drive Gearmotor oil level and for contamination. Top up if required.
Check all grease lines, grease nipples and automatic greasers for defects & level.
Top up auto greasers if required with Ultratak grease

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	<b>Belt Press No.1</b>
	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.
	Check Drive Gearmotor oil level and for contamination. Top up if required.
	Check Mixer Gearbox oil level and for contamination. Top up if required.
	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.
	Check Conveyor Drive Gearmotor oil level and for contamination. Top up if required.
	Check Conveyor Drive Gearmotor for noise, leaks and vibration.
	<b>Gravity Deck No.2</b>
	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.
	Check Drive Gearmotor oil level and for contamination. Top up if required.
	Check all grease lines, grease nipples and automatic greasers for defects & level.
	Top up auto greasers if required with Ultratak grease

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	<b>Belt Press No.2</b>
	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.
	Check Drive Gearmotor oil level and for contamination. Top up if required.
	Check Mixer Gearbox oil level and for contamination. Top up if required.
	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.
	Check Conveyor Drive Gearmotor oil level and for contamination. Top up if required.
	Check Conveyor Drive Gearmotor for noise, leaks and vibration.
	<b>Poly Mixing Unit No.1</b>
	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
	Check Poly Dosing Pump gearbox oil level and for contamination. Top up if required.

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	<b>Poly Mixing Unit No.2</b>
	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
	Check Poly Dosing Pump gearbox oil level and for contamination. Top up if required.
	<b>Service Water Pumps</b>
	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.
	<b>Air Treatment Facility (ATF) Feed Pumps</b>
	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.