

<b>DESCRIPTION:</b>	Major Zone 1 Lubrication and Service	<b>FREQUENCY:</b>	12 Months
<b>LOCATION:</b>	Canungra Sewerage Treatment Plant	<b>STANDARD JOB No.:</b>	LTS708

<b>Tools &amp; Equipment</b>
<b>Spare Parts/Materials List</b>
Castrol Alpha SP220 Oil
Castrol AP3 Grease
Castrol Spheerol EPL2
Esso EP350 Grease
<b>Reference</b>
Follow correct shut down procedures before working on any equipment.
<b>Maintenance Group</b>
Inlet Screens Inclined Conveyors
Grit Conveyor
Belt Filter Press
Gravity Drainage Deck
BFP / GDD wash water Pump
Inclined Sludge Conveyor
Sludge Bin
WAS/ Scum Pump
Membrane Permeate System Vacuum Pumps
Filtrate Pump Station
Aeration Mixers
<b>Procedural Steps</b>
<b>Before isolating any equipment, where possible observe in running condition. Check for correct operation.</b>
<b>Inlet Screen 1 Conveyor</b>
Check gear motor unit for oil leaks.
Change gear motor oil with SP220.
Check screen brush for damage and wear.
Check conveyor liner for wear.
Check conveyor screw for wear and tear.
Check tightness of all gear motor fasteners.
Check tightness of all conveyor bolts.
Check conveyor and support frame weld for defects.

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<b>Inlet Screen 2 Conveyor</b>
Check gear motor unit for oil leaks.
Change gear motor oil with SP220.
Check screen brush for damage and wear.
Check conveyor liner for wear.
Check conveyor screw for wear and tear.
Check tightness of all gear motor fasteners.
Check tightness of all conveyor bolts.
Check conveyor and support frame weld for defects.
<b>Grit Conveyor</b>
Check gear motor unit for oil leaks.
Change gear motor oil with SP220.
Check screen brush for damage and wear.
Check conveyor liner for wear.
Check conveyor screw for wear and tear.
Check tightness of all gear motor fasteners.
Check tightness of all conveyor bolts.
Check conveyor and support frame weld for defects.
<b>Sucrose Unloading Pump</b>
Change gear motor oil with SP220.
Check tightness of all gear motor fasteners.
Check condition of flexi hose and camlock fittings.
<b>Belt Filter Press</b>
Check gear motor unit for oil leaks.
Check gear motor oil level and oil for contamination. Top up with SP220.
Check all auto lube levels and refill. Castrol Spheerol EPL2
Check tightness of all gear motor fasteners.
Inspect the belt for cracks/wear and/or folding
Inspect the deflector blades for cracks and/or wear
Inspect the sealing strips for cracks and/or wear
Inspect the press rolls for uneven wear

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<b>Gravity Drainage Deck</b>
Check gear motor unit for oil leaks.
Check gear motor oil level and oil for contamination. Top up with SP220.
Check all auto lube levels and refill. Castrol Spheerol EPL2
Check tightness of all gear motor fasteners.
Inspect the belt for cracks/wear and/or folding
Inspect the deflector blades for cracks and/or wear
Inspect the sealing strips for cracks and/or wear
Inspect the press rolls for uneven wear
<b>Inclined Belt Sludge Conveyor</b>
Grease the motor pulley gear with Esso EP350 Grease. (find Castrol equivalent)
Remove belt covers and check condition of belt, wear and tears.
Check condition of rollers.
<b>Sludge Bin</b>
Check gear motor unit for oil leaks.
Check gear motor oil level and oil for contamination. Top up with SP220.
Check tightness of all gear motor fasteners.
Check bell housing packing box temperature.
Check bell housing packing box for leaks.
Check/verify screw conveyor liner for wear.
Check/verify screw conveyor trough for wear.
Check/verify screw conveyor screw for wear.
<b>Aeration Mixer 1</b>
Lift mixer and carry out visual check of condition and remove any rag/debris.
Inspect condition of lifting chain and integrity of connection point to mixer.
<b>Aeration Mixer 2</b>
Lift mixer and carry out visual check of condition and remove any rag/debris.
Inspect condition of lifting chain and integrity of connection point to mixer.
<b>Aeration Mixer 3</b>
Lift mixer and carry out visual check of condition and remove any rag/debris.
Inspect condition of lifting chain and integrity of connection point to mixer.
<b>Aeration Mixer 4</b>
Lift mixer and carry out visual check of condition and remove any rag/debris.
Inspect condition of lifting chain and integrity of connection point to mixer.

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<b>Filtrate Pump 1</b>
Check while running for noise, vibration and leaks at sealing point.
Check top guide rail bracket is secure
Remove pump
Check lifting chain, shackles, eye bolts and guide rail for corrosion and/or defects
Remove element from volute and check impeller condition
Check for signs of mechanical seal leakage and internal condition of volute
Replace oil checking for contaminates
Replace pump checking for good seal
Check ease of operation of isolation valve
Undertake internal inspection of non-return valve checking for wear and correct operation.
<b>Filtrate Pump 2</b>
Check while running for noise, vibration and leaks at sealing point.
Check top guide rail bracket is secure
Remove pump
Check lifting chain, shackles, eye bolts and guide rail for corrosion and/or defects
Remove element from volute and check impeller condition
Check for signs of mechanical seal leakage and internal condition of volute
Replace oil checking for contaminates
Replace pump checking for good seal
Check ease of operation of isolation valve
Undertake internal inspection of non-return valve checking for wear and correct operation.
<b>WAS / Scum Pumps</b>
Change gear motor oil with SP220.
Check pressure relief valves for abnormal noise and vibration. Possible bypassing or line blockages.
<b>Membrane Permeate System Vacuum Pumps</b>
Check Pumps for excessive noise, vibrations.
Check pipe work for leaks, defects.
Clean the vacuum pump cooling fins.
Clean the vacuum pump separator.
Replace the vacuum pump water cooler.
Replace the vacuum pump air filter.