

<b>DESCRIPTION:</b>	Major Zone 1 Lubrication and Service	<b>FREQUENCY:</b>	12 Months
<b>LOCATION:</b>	Boonah Sewerage Treatment Plant	<b>STANDARD JOB No.:</b>	LTS702

	<b>Tools &amp; Equipment</b>
	<b>Spare Parts/Materials List</b>
	Castrol LMX Grease
	Castrol SP220 Oil
	Schaeffer's #221 Moly Ultra EP grease or equivalent
	Schaeffer's 209A ISO 220 oil or equivalent
	<b>Reference</b>
	Follow correct shut down procedures before working on any equipment.
	Spiral Sieve O & M Manual - Inspection, Servicing and Maintenance section 7
	O & M Manual Submittal Package 5HP Floating Brush Aerator – Boonah STP Aerator
	<b>Maintenance Group</b>
	Inlet Spiral Sieve
	Vetiver Grass Filtration Pump Station
	Submittal Package 5HP Floating Brush Aerator
	<b>Procedural Steps</b>
	<b>Before isolating any equipment, where possible observe in running condition. Check for correct operation.</b>
	<b>Inlet Structure</b>
	Spiral Sieve Gearbox and motor for leaks, noise and vibration
	Spiral Sieve is operating correctly and for defects.
	<b>Isolate Spiral Sieve and :</b>
	Check Spiral Sieve wear rails for wear via holding screw.
	Check screen brush for damage and wear.
	Check for widening of sieve basket.
	Check water cleaning system.
	Change oil in gearbox with SP220.
	Refill drive end grease chamber.

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	<b>5HP Floating Brush Aerator</b>
	<b>Fafnir Stainless Steel, Enclosed Tail-Bearing</b>
	Apply 8 to 9 shots of Schaeffer's #221 Moly Ultra EP grease into the grease nipple located on the outside cover of the enclosed Tail- Bearing. Visually inspect the bearing to insure the shaft is aligned in the centre of the bearing.
	Visually check for any debris around the seal, clear any debris. If auto lube fitted, refill.
	<b>Dodge Gear Reducer</b>
	Carry out oil change with Schaeffer's 209A ISO 220. You should put 5 pints of oil in the TA2 gear reducer model used on the 5hp aerators.
	<b>Drive End Bearing</b>
	Apply grease to the Dodge Piloted Flange Bearing. <i>Slowly</i> pump grease until it starts coming out of the bearing.
	Visually inspect the bearing to insure the shaft is aligned in the centre of the bearing.
	<b>Drive Shaft Grease Seal Plates</b>
	Slowly pump 2 to 3 shots of grease into the seal cavity. Visually check for any debris around the seals. Any buildup of solids around the seal, clear any debris.
	<b>Paraflex Coupler</b>
	Visually inspects for any element misalignment or wear of the paraflex coupling element.
	Visually inspect floats, mooring arms, and remove any debris that may be wrapped around the drive and tail shaft.