

[illegible]

<b>DESCRIPTION:</b>	ST034 Brush Aerators Inspection & Service	<b>FREQUENCY:</b>	
<b>LOCATION:</b>	ST034 Karana Downs STP	<b>STANDARD JOB No.:</b>	

<b>Procedural Steps</b>
<b>Before isolating any equipment where possible observe in running condition. Check for correct operation.</b>
<b>Review Notes and Scope before undertaking Intermediate Service.</b>
<b>NOTES</b>
Aerators 1 & 2 are mounted on a single frame and located in aeration zone.
Aerators 3 & 4 are mounted on a single frame and located in mixing zone.
One set of aerators to remain operational until ready for change over.
Minor repairs or replacements can be undertaken under the intermediate service, however, request to be submitted to Urban Utilities for approval before proceeding.
<b>SCOPE</b>
1. Remove mixing zone aerators 3 & 4.
2. Undertake intermediate service on mixing zone aerators 3 & 4.
3. Remove aeration zone aerators 1 & 2.
4. Mixing zone aerators 3 & 4 to be relocated to aeration zone and commission.
5. Undertake intermediate service on aeration zone aerators 1 & 2.
6. Aeration zone aerators 1 & 2 to be relocated to mixing zone and commission.
<b>INTERMEDIATE SERVICE</b>
Before isolating any equipment, inspect for unusual noise, vibration, leaks.
Remove aerators from bioreactor as per scope.
Check condition of rubber flaps.
Remove paddle covers to check condition of paddles and shaft for wear & tear.
Check condition of paddle covers for cracks or defects.
Remove all four bearing caps to inspect condition of bearings for wear & tear.
Check condition of couplings for wear & tear and alignment.
Refill auto-greases or replace if no longer functioning. .
Replace oil – both GMUs. Visually check condition of old oil. Check no water ingress.
If fitted, remove breather and clean to ensure it is functioning correctly .
Pressure test floats.
Check structural integrity of floats.
Check structural integrity of aerator frame.