

DESCRIPTION:	Mechanical – ST041 Gravity Drainage Deck 1 – Inspection and Service	FREQUENCY:	
LOCATION:		STANDARD JOB No.:	

[illegible]

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INTERMEDIATE SERVICE
NOTES:
Minor repairs and/or additional replacements other than already documented can be undertaken, however, request to be submitted to Urban Utilities for approval before proceeding.
Before isolating any equipment, check for unusual noise, vibration, leaks.
<i>Lubrication:</i>
Grease bearings (4 grease nipples) – mounting type SNL 209. Use Shell Alvania EP2 or equivalent. 10 grams per lubrication point.
Grease bearings (2 grease nipples) – mounting type SNL 217. Use Shell Alvania EP2 or equivalent. 25 grams per lubrication point.
Regulating slide smooth surface (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Belt tensioner toothed rack and drive sprocket (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
<i>Belt:</i>
Check the belt has no cracks or any signs of folding or holes.
Check the pin seam.
Check that the belt is running in a central position through the machine.
Check the sealing strips (gravity zone) for wear and ensure they have the correct setting to prevent sludge from escaping at the sides of the machine.
<i>Belt Tensioning System:</i>
Check set pressure.
Check smooth operation of belt tensioning system (4 of).
Inspect for wear & tear of drive sprocket or toothed rack.
<i>Belt Regulating System:</i>
Check condition of bellows.
Check smooth operation of regulating system (2 of).
Check guide elements of belt tracking equipment.
Check condition of feeler rods.
<i>Pneumatic Equipment:</i>
Check the pneumatic equipment for correct pressure.
Check pneumatic equipment for leaks.
<i>Rollers:</i>
Check all rollers for uneven wear and to ensure they are clean.
Check all rollers for condition and integrity of surface coatings.

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MAJOR SERVICE
NOTES:
Minor repairs and/or additional replacements other than already documented can be undertaken, however, request to be submitted to Urban Utilities for approval before proceeding.
Before isolating any equipment, check for unusual noise, vibration, leaks.
<i>Lubrication:</i>
Grease bearings (4 grease nipples) – mounting type SNL 209. Use Shell Alvania EP2 or equivalent. 10 grams per lubrication point.
Grease bearings (2 grease nipples) – mounting type SNL 217. Use Shell Alvania EP2 or equivalent. 25 grams per lubrication point.
Regulating slide smooth surface (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Belt tensioner toothed rack and drive sprocket (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
<i>Belt:</i>
Check that the belts have no cracks or any signs of folding or holes.
Check the pin seam.
Check that the belt is running in a central position through the machine.
Replace all side seal strips and adjust to belt.
<i>Belt Tensioning System:</i>
Check the set pressure.
Check smooth operation of belt tensioning system (4 of).
Inspect for wear & tear of drive sprocket or toothed rack.
<i>Belt Regulating System:</i>
Check condition of bellows.
Check smooth operation of regulating system (2 of).
Check guide elements on belt tracking equipment.
Check condition of feeler rods.
<i>Pneumatic Equipment:</i>
Replace air filter.
Check the pneumatic equipment for correction operation.
Check pneumatic equipment for leaks.
<i>Rollers & Bearings:</i>
Check all rollers for uneven wear and to ensure they are clean.
Check all rollers for condition and integrity of surface coatings.
Remove bearings caps and inspect condition of bearings.

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OVERHAUL
Before isolating any equipment, check for unusual noise, vibration, leaks.
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<i>Lubrication:</i>
Grease bearings (4 grease nipples) – mounting type SNL 209. Use Shell Alvania EP2 or equivalent. 10 grams per lubrication point.
Grease bearings (2 grease nipples) – mounting type SNL 217. Use Shell Alvania EP2 or equivalent. 25 grams per lubrication point.
Regulating slide smooth surface (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Belt tensioner toothed rack and drive sprocket (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
<i>Belt:</i>
Check the belt for cracks, signs of folding, and holes
Check the pin seam
Check that the belt is running in a central position through the machine
Replace all side seal strips and adjust to belt
<i>Belt Tensioning System:</i>
Check the belt tension.
Check smooth operation of belt tensioning system (4 of).
Stroke belt tensioner full length and check for burrs on shaft and sleeves.
Inspect for wear of drive sprocket or toothed rack.
<i>Belt Regulating System:</i>
Check condition of bellows.
Check smooth operation of regulating system (2 of).
Check guide elements on belt tracking equipment.
Check condition of feeler rods.
<i>Pneumatic Equipment:</i>
Check the pneumatic equipment (belt guiding) for leaks, correct displays and leaks.
Check pneumatic equipment for leaks.
Replace air filter.

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	<i>Rollers & Bearings:</i>		
	Check all rolls for uneven wear and to ensure they are clean.		
	Check all rollers for condition and integrity of surface coatings.		
	Renew all bearings.		
	Check all bearing housing seals for defects / missing.		
	Check condition of bearing housing.		
	<i>Deflector Blades:</i>		
	Check the deflector blades for flaking, cracks, uneven wear, as well as checking the correct contact pressure		
	<i>Wash Systems:</i>		
	Check the belt cleaning unit: clean all wash nozzles. Check for correct operation.		
	<i>Gear Motor Unit:</i>		
	Check the gearbox for leaks.		
	Check whether the motors or gearbox are dirty (risk of overheating)		
	Replace oil – gear motor unit. Check condition of old oil.		
	Apply grease to bearing cavities – gear motor unit drive. Use Klueber Petamo GHY 133N or equivalent. Fill bearing cavities between the rolling elements 2/3 full with grease when oil change is done (2 lubrication points)		
	<i>Frame, Platform and Handrail:</i>		
	Check support frame, body, safety mesh, handrails and platforms for corrosion or defects.		
	Remove frame for refurbishment if required.		