

Bioresources - Tankered Trade Waste			
Document Title	SOP 22 Using the JRP Logger and Tanker Discharge		
Document Owner Role	TTW Manager	Version Number	3.0
Date of Last Review	28/01/22	Date of next Review	28/1/24
Identified Risks			
<ul style="list-style-type: none"> • HS&W risks associated with unsuitable / volatile / hazardous waste streams. • Excessive solids could damage the pipework infrastructure • Activated Sludge Process lanes collapse: from Overloading of nutrients <ul style="list-style-type: none"> ○ Inhibition of the microbial activity through the introduction of too many inhibitory compounds such as metals or cyanide or pH concentrations are too extreme • Digesters inhibits Methane (CH₄) generation due to: <ul style="list-style-type: none"> ○ excessive volume of heavy metals such as Chromium (Cr III) and Cadmium (Cd) ○ They can poison the active bacteria and inhibit the methanogenic bacteria ○ This leads the presence of organic acids • Combined Heat Power process impacted by: <ul style="list-style-type: none"> ○ High concentrations of Hydrogen Sulphide (H₂S) can damage engines ○ High concentrations of Siloxanes (Si) pas through the biogas and result in silica deposits. ○ These damage the engine valves, oil life etc leading to greater downtime and more equipment to be replaced • Compliance risks • Loss of waste permits if waste not listed on them permitted or waste does not have the appropriate EWC. • Final effluent discharge consents missed due to high solids or heavy metals or Phosphorus (P) • BAS Compliance for Biosolids non-conforming if too high metal content • Wider environmental damage from failures of the treatment processes due to unsuitable waste streams being accepted. 			
<p>If this is a printed version, please ensure that it is still within the current review period, if not 'DO NOT USE' and contact your line manager for a new version</p>			
<p style="text-align: center;">Remember – If you can't do the job safely, don't do it. 'DO NOT CARRY OUT THE PROCEDURE' And seek advice from your line manager</p>			

Introduction
<p>This document contains the procedure for inducting drivers and ensuring they can dispose the waste in a safe and competent manner and are aware of the relevant requirements, site rules, and emergency actions.</p>

Key Roles and Responsibilities	
Tankered Trade Waste Manager (TWM):	<ul style="list-style-type: none"> ○ Ensure that the operating procedures are followed ○ Ensure that the Tankered Trade Waste Technicians (TTWT) have undergone appropriate training ○ Can make approval decisions if they have been deemed as technically competent ○ Investigate HSW & Environmental concerns from the TTWT
Tankered Process Team (TPT):	<p>In absence of the TTWM:</p> <ul style="list-style-type: none"> ○ Ensure that the operating procedures are followed ○ Ensure that the Tankered Trade Waste Technicians (TTWT) have undergone appropriate training ○ Can make approval decisions if they have been deemed as technically competent ○ Investigate HSW & Environmental concerns from the TTWT
Tankered Trade Waste Technicians (TTWT)/Technical Competent Persons(TCP):	<ul style="list-style-type: none"> ○ TTWT have undergone appropriate training and have a valid CMS certificate ○ TTWT have been deemed as technically competent ○ Ensure driver has the correct PPE ○ Make sure the driver knows how to use the equipment, such as the Bauer couplings and the loggers. ○ TTWT to show drivers how to use loggers if needed ○ Raise concerns with the TTWM and commercial team if the driver is not sufficiently trained to use their tanker equipment and controls
Commercial Team:	<ul style="list-style-type: none"> ○ Contact customer if driver is not sufficiently trained to use their tanker equipment and controls
Tanker Driver:	<ul style="list-style-type: none"> ○ Watch the induction video with no interruptions ○ Answer induction questions ○ Follow TTWT instructions ○ Comply with Severn Trent Water (STW) Personal Protective Equipment (PPE) and health and safety requirements

Required Training	
Tankered Trade Waste Technicians (TTWT)	<ul style="list-style-type: none"> ● In date CMS training ● Experience undertaking sampling and lab testing ● Health and safety and PPE requirement for STW sites ● How to operate loggers ● STW induction
Tankered Process Team (TPT)	<p>The requirements for the TTWT in addition to:</p> <ul style="list-style-type: none"> ● Tankered Waste experience or 12 months experience in the waste industry ● CIWM Hazardous Waste Classification course ● Cranfield University Biological Processes/Activated Sludge Treatment course

	<ul style="list-style-type: none"> • University degree or similar level of experience and knowledge in a Scientific Area • Understanding of Health, Safety, Wellbeing and Environmental Compliance
Tankered Trade Waste Manager (TWM):	<ul style="list-style-type: none"> • In date CMS training • Experience of working in the Waste Industry • Understanding of Health, Safety, Wellbeing and Environmental Compliance • Spill response knowledge

Documentation & Resources
<ul style="list-style-type: none"> • Standard Operating Procedures (SOP) • CWID (Commercial Waste Information Database) • PPE: Hard hat/bump cap, Hi visibility vest or jacket, Safety boots, Gloves, Eye protection, Ear protection • Logger fob

Procedure:

Paperwork Review & Sample Analysis

1. On arrival at site, the driver will report to the onsite to the Tankered Trade Waste Technician (TTWT).
2. The TTWT will ensure that the driver was inducted according to the Induction Procedure (SOP 07).
3. A sample of the waste is tested according to the standard sampling procedure (SOP 10).
4. The paperwork is checked according to the Waste Acceptance procedure (SOP02).
5. Once the checks are complete, the delivery must be booked into CWID.
6. The TTWT must check the special requirements in CWID to ascertain if any additional procedures are required to ensure safe disposal of the waste.

After these steps have been completed and the waste is considered suitable for the sewage treatment works, then the TTWT can safely escort the driver to the inlet.

Discharging

1. The driver must park at the correct off-loading point, they should then connect the 4" offloading pipe to the tanker and release valve.
2. The driver should fill the pipe and then check for any leaks
3. The driver must not pressurise offloading until they have logged on and the valve is open
4. Some Severn Trent Water (STW) sites are gravity discharge only, where this is the case, the driver must not pressurise the discharge.
5. The driver must supervise the tanker discharge
6. The driver must ensure that the pipe is clear when they have finished off-loading
7. The driver must also ensure that the pipe is disconnected and the area is clean – A hosepipe is available to clean after discharge

If there is a serious spillage, a TTWT should be informed or call the booking number to raise it.

Using the Logger

- Check the logger is available for use as shown (image 1)
- Swipe the logger fob across the grey box sensor on the side of the JRP logger (image 2)
- Use the arrows if necessary to select Trade Import and press accept (image 3)
- Select Trade Waste and accept (image 4)
- The screen will then ask for a user code (image 5)
- The user code is the CWID booking number or alternatively the paper waste transfer note TW number. This should be entered using the arrows below as shown in image 6
- Check the details are correct and press accept (image 7)
- The valve should start to open
- Once the valve is open and the site allows pressurised off-loading, the driver can turn on the tanker pressure.
- Whilst there is a flow then the valve will remain open. When no flow is detected, the valve will close automatically after a short delay.
- Should the valve begin closing for any reason, the driver should immediately the tanker outlet valve and de-pressurise the tanker barrel.
- When the tanker is fully discharged the driver must ensure that the line is de-pressurised, before disconnecting his pipes
- Any spillages must be washed down immediately using the wash down hose
- Any defects or incidents must be reported immediately to site personnel

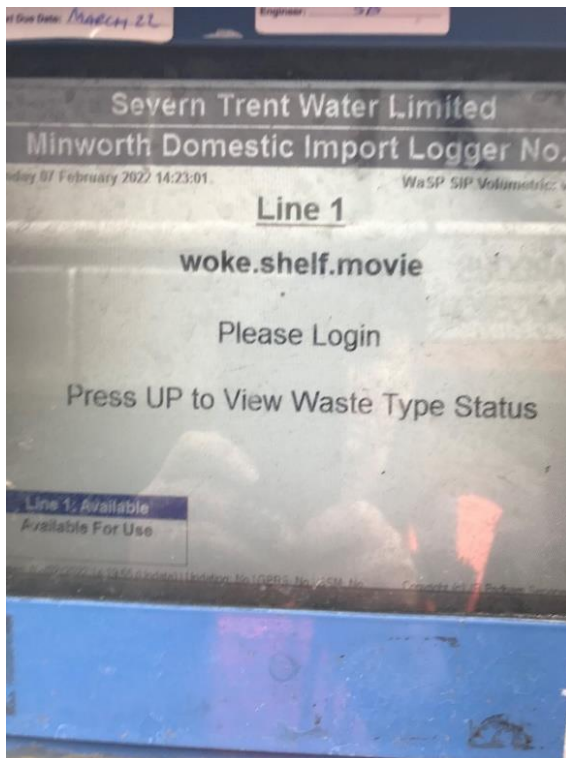


Figure 1 JRP Logger screen before logged in



Figure 2: JRP Logger & swipe point



Figure 3 Trade Import Screen

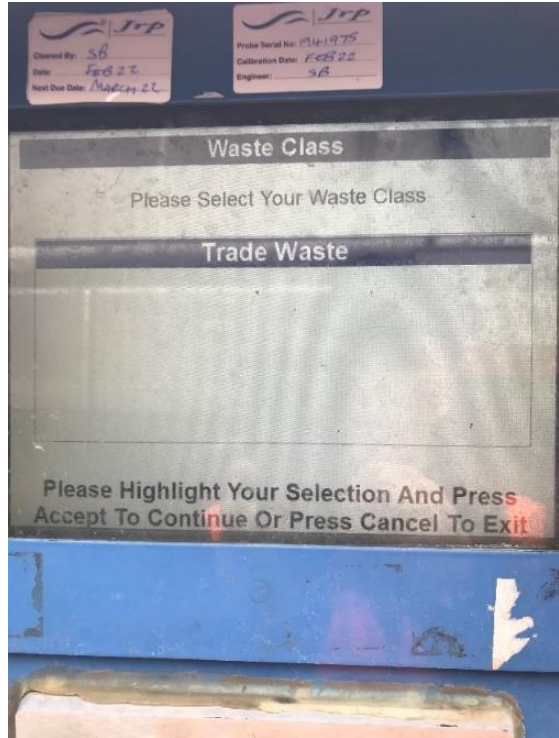


Figure 4 Trade Waste Screen

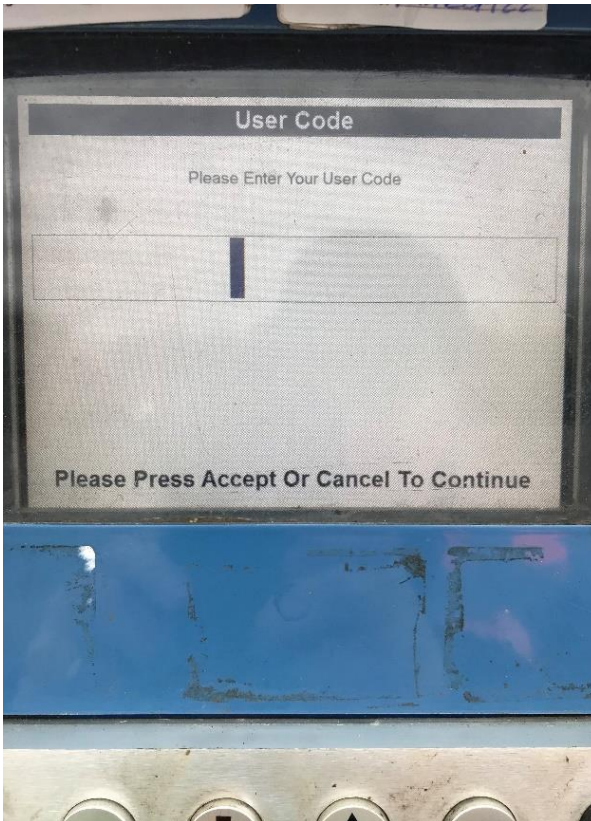


Figure 5 Enter Pin / CWID booking Reference

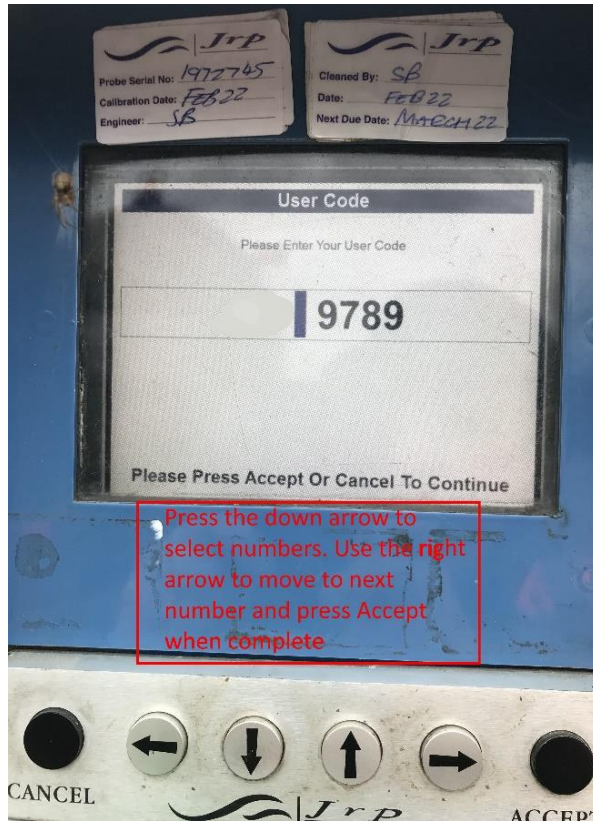


Figure 6 How to enter pin number

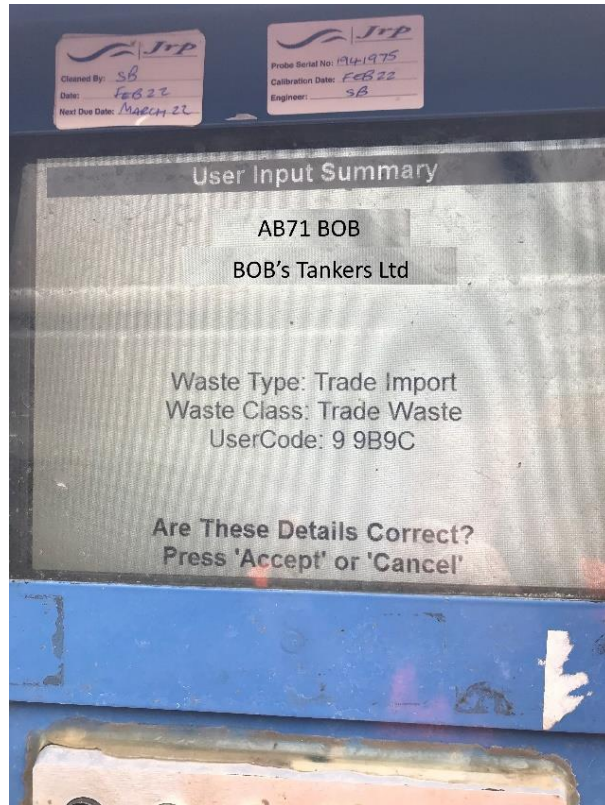


Figure 7 Check details

References:

- SOP 01 TTW Waste Approval Procedure
- SOP 02 TTW Waste Acceptance Procedure
- SOP 03 TTW Waste Non-Conformance Procedure
- SOP 07 TTW Induction Procedure
- SOP 10 Standard Sampling Tests

Version Control			
Version	Date	Details	Published By
3.0	28/01/2022	Tankered Trade Waste Induction Procedure	O.Boertje & C.Bane