

**From:** Kate Logan <Kate.Logan@WasteConnections.com>  
**Sent:** Friday, January 9, 2026 11:55 PM  
**To:** Baitong Chen; Nathaniel Dickel; Christina Ojeda  
**Cc:** Amanda Froman  
**Subject:** South Coast AQMD v. Chiquita Canyon, LLC (Case No. 6177-4) – Condition 27(f)(i)  
**Attachments:** 2026-01-09 Chiquita Leachate Tanker Loading by Vacuum in Tank Farm 7.pdf;  
2026-01-09 Chiquita SOP-Truck Valve Tagging.pdf; 2026-01-09 Chiquita SOP Leachate  
Tanker Loading by Trailer Pump in Tank Farm (PDF).pdf; 2026-01-09 Chiquita SOP  
Leachate Tanker Loading by Electric Pump.pdf

[EXTERNAL SENDER: Use caution with links/attachments]

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All,

In accordance with Condition 27(f)(i) of the Stipulated Order for Abatement in Case No. 6177-4, Chiquita Canyon, LLC submits for South Coast AQMD review and approval the attached revised standard operating procedures developed under Condition 27(f) that include instructions for leachate tanker truck operations, as applicable to the leachate tank farms installed on site, in accordance with industry standards and best management practices.

Thank you,  
Kate

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# SOG (Leachate Tanker Loading by Vacuum Tank Farm 7)

Prepared for: Chiquita Canyon Landfill (CCL)



Rev 0 01/09/2026

<b>TASK</b>	Leachate transfer operations using vacuum tankers in tank farm facility.					
<b>POTENTIAL HAZARDS</b>	Slips/Trips/Falls	<input checked="" type="checkbox"/>	Heat / Cold	<input checked="" type="checkbox"/>	Splash/ Fumes	<input checked="" type="checkbox"/>
	Cuts / Laceration	<input type="checkbox"/>	Dust	<input checked="" type="checkbox"/>	Biological	<input checked="" type="checkbox"/>
	Pinch / Crush	<input checked="" type="checkbox"/>	Noise / Vibration	<input checked="" type="checkbox"/>	Haz Waste	<input checked="" type="checkbox"/>
	High Pressure	<input checked="" type="checkbox"/>	Fire	<input checked="" type="checkbox"/>	Exhaust	<input checked="" type="checkbox"/>
<b>PPE REQUIRED</b>	<ul style="list-style-type: none"><li>• Hard Hat</li><li>• Safety Toe Shoes</li><li>• Gas Meter</li><li>• FR Clothing (High Viz)</li><li>• Respirator (if applicable)</li><li>• Chemical Gloves</li><li>• Safety Glasses</li></ul>					

## 1. Purpose

To outline the safe and efficient procedure for loading leachate into a tanker truck using a vacuum system within a tank farm while ensuring compliance and worker safety. The goal of this SOP is to prevent leachate overflow, leaks, spillage, equipment failure/malfunction, operator and/or other human error, exposure of leachate and leachate vapors into the atmosphere in and around the tank farm areas, as well as to provide information on proper maintenance and troubleshooting of the tank farm area.

## 2. Scope

Applicable to all personnel involved in leachate transfer operations using vacuum tankers at the tank farm facility.

## 3. Responsibilities

- **Tank Farm Technician**- must follow this SOP, wear appropriate PPE, and monitor the process. Inspect and maintain equipment before use.
- **Tank Farm Supervisors**- ensure compliance with safety and environmental regulations.
- **Tank Farm Gatekeepers** – Manage, monitor, and document all tanker truck operations within the tank farm.
- **Tanker Driver**- Assists with hose connection and ensures vehicle readiness.

## 4. Safety Precautions

- **Never** leave the vacuum system unattended during loading.
- **Never** bypass safety devices.
- **Never** leave the loading area unattended during loading.
- **Always** wear appropriate PPE when needed.
- **Always** maintain communication between tank farm tech and driver.
- Avoid direct contact with leachate.

## SOG (Leachate Tanker Loading by Vacuum Tank Farm 7)

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- Report any equipment failure, malfunction, or maintenance requirement to the supervisor on duty immediately..
- In case of a spill or other release, activate spill response procedures.

### 5. Equipment & Materials

- Vacuum pump system
- Suction hoses and couplings
- Flow meter
- Drip pans and absorbents
- Buckets
- Hoses and fittings rated for leachate transfer
- Secondary containment (if required)
- Spill kit (absorbents, containment booms, pads)
- Emergency eyewash and safety shower stations nearby
- Valve tags

### 6. Pre-Loading Checks

#### 6.1 Inspection of Equipment

- Inspect the **tanker, vacuum pump, and hoses** for leaks, wear, or damage.
- Ensure all valves and connections are in **good working condition**.
- Verify that the **vacuum system** is functioning properly.

#### 6.2 Site Preparation

- A tanker truck will enter tank farm area and be positioned on a level, designated loading area. Tank farm tech will verify which tank volume the truck is authorized to be loaded with.
- In consultation with the truck driver, an expected volume will be calculated based on the truck's empty "scale in" weight and max weight rating once filled (the difference is therefore the amount of liquid that can be loaded onboard).
- Confirm driver is wearing the required PPE.
- Tank farm techs will place dip pans and buckets under all potential spill points.
- Driver will apply wheel chocks to the driver's side.

### 7. Loading Procedure

#### 7.1 Connecting the System

- Ensure tanker truck is properly grounded (if required).
- Tank farm tech will hand over hose to driver.
- Tank farm tech will verify **hose clamps and fittings** are tight.
- Tank farm tech will verify the hose is empty of liquid and bleed the hose to relieve pressure.
- Driver will connect hose to tanker and tank farm tech will verify it is properly connected.
- Gatekeeper will verify the designated leachate tank loading port is connected.

## SOG (Leachate Tanker Loading by Vacuum Tank Farm 7)

Prepared for: Chiquita Canyon Landfill (CCL)

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### 7.2 Vacuum Loading Process

- Ensure correct pulling valves are open and treatment manifold ball valve is locked and closed.
- Ensure flowmeter is zeroed out and / or level stick is provided.
- Driver opens valve on truck.
- Tank farm tech opens valve to approved/verified tank.
- Monitor the **flow rate and pressure** to prevent overloading.
- Maintain **constant communication** with driver/personnel during loading.

### 7.3 Completion of Loading

- Once calculated gallons are achieved the driver will shut off truck valve.
- Tank farm tech closes ball valve, and driver clears the house between valve and tanker by opening the bleeder.
- Driver will then close valve and disengage PTO.
- Tank farm tech will disconnect the hose from the tanker carefully to prevent spills.
- Cap is applied to the tanker and to the hose.
- All valves are tagged on tanker (reference to Tagging SOP).
- Top hatch of tanker is verified sealed.
- The scrubbers are verified empty.
- The truck is released once all documentation is verified by Gatekeeper.

## 8. Post-Loading Actions

- Inspect **hoses and connections** for any leaks or defects.
- Clean up any **minor spills** using the spill kit.
- During and after leachate transfer, visually inspect the tank and area to ensure no spills occurred. If a spill is identified it must be reported immediately to CCL staff.

## 9. Spill & Emergency Response

- In case of a minor spill:
  - Ensure the source of the spill has ceased.
  - Use **spill absorbents** to contain and clean up.
  - Dispose of contaminated materials properly.
- In case of a major spill:
  - **Stop operations immediately** and notify the supervisor.
  - Ensure the source of the spill has ceased.
  - **Activate the spill response plan.**
  - Evacuate the area if necessary.

## 10. Documentation & Reporting

- Record all **loading activities, inspections, and any incidents.**
- Report any **equipment malfunctions** or environmental concerns to management.

## SOG (Leachate Tanker Loading by Vacuum Tank Farm 7)

Prepared for: Chiquita Canyon Landfill (CCL)

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- Record spills, leaks, and releases pursuant to the spill response plan.

### Additional References

- CCL must also comply with the applicable leachate tank operations requirements in CCL's *Leachate Unit Management Plan*, *ETLF Operation HASP*, *Leachate Management Plan*, and *Data Management Plan*. This SOP may be modified by on or more of these plans.

## **SOG (Leachate Tanker Loading by Vacuum Tank Farm 7)**

Prepared for: Chiquita Canyon Landfill (CCL)

Authorized By:  
Rev 0 01/09/2026



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Embedded Excel	0
Format changes	0
<b>Total Changes:</b>	50

## SOP (Truck Valve Tagging)

Prepared for: Chiquita Canyon Landfill (CCL)

Rev 0 01/09/2026



<b>TASK</b>	Ensure all trucks valves are properly tagged and securely closed to complete the loading process, preventing leaks, spills, and contamination.					
<b>POTENTIAL HAZARDS</b>	Slips/Trips/Falls	<input checked="" type="checkbox"/>	Heat / Cold	<input checked="" type="checkbox"/>	Splash/ Fumes	<input type="checkbox"/>
	Cuts / Laceration	<input type="checkbox"/>	Dust	<input checked="" type="checkbox"/>	Biological	<input checked="" type="checkbox"/>
	Pinch / Crush	<input type="checkbox"/>	Noise / Vibration	<input checked="" type="checkbox"/>	Haz Waste	<input checked="" type="checkbox"/>
	High Pressure	<input checked="" type="checkbox"/>	Fire	<input checked="" type="checkbox"/>	Exhaust	<input checked="" type="checkbox"/>
<b>PPE REQUIRED</b>	<ul style="list-style-type: none"><li>• Hard Hat</li><li>• Safety Toe Shoes</li><li>• FR Clothing (High Viz)</li><li>• Safety Glasses</li><li>• Chemical Gloves</li></ul>					

### 1. Purpose

To outline that all truck valves are properly tagged and securely closed to complete the loading process, preventing leaks, spills, and contamination.

### 2. Scope

This procedure applies to all transport trucks involved in loading operations, bulk liquid, and hazardous material.

### 3. Responsibilities

- **Tank Farm Technician**- must follow this SOP, wear appropriate PPE, and monitor the process. Inspect and maintain equipment before use.
- **Gatekeeper**- must follow this SOP, wear appropriate PPE, conduct walkthrough and maintain manifest documentation.
- **Truck Driver**- Confirms tags are in place before departure.
- **Tank Farm Supervisors**- ensure compliance with safety and environmental regulations.

### 4. Equipment & Materials

- Tug Tight Locking Tags (Red)

### 5. Tagging Procedure

#### 5.1 Prep-Valve Tagging

- If top hatch has been opened during the filling process, confirm the driver has tightened all wing nuts on the hatches.

## SOP (Truck Valve Tagging)

Prepared for: Chiquita Canyon Landfill (CCL)

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### 6. Initiation of Walkthrough

- **Responsible Party:** CCL Gatekeeper
  - **Action:** The Gatekeeper will initiate a walkthrough with the driver and Tank Farm Technician after filling a truck with the approved liquids.

### 7. Tagging Process

- **Responsible Party:** Tank Farm Technician
  - **Action:** The tank farm technician will provide locking tags to the driver as each closed valved is identified, indicating that it is properly shut.



### 8. Valve Locking

- **Responsible Party:** Truck Driver
  - **Action:** The driver will **Lock** and **Tag** all drain and release valves to indicate they been properly closed and secured.

### 9. Documentation & Reporting

- **Responsible Party:** Gatekeeper
  - **Action:** The Gatekeeper will document “**all valves tagged**” on the manifest.

### 10. Approval for Departure

- **Responsible Party:** Gatekeeper
  - **Action:** The manifest will indicate that “**all valves tagged**” and given to the driver who is then approved to depart from the tank farm.

## SOP (Truck Valve Tagging)

Prepared for: Chiquita Canyon Landfill (CCL)

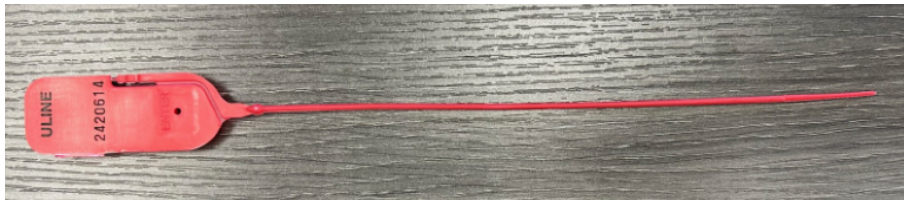
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### NOTES

- Ensure that all tags are visible and securely attached.
- Follow all safety protocols during the tagging process to prevent any accidents.

### Example of Locking Tag



## SOP (Truck Valve Tagging)

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Embedded Graphics (Visio, ChemDraw, Images etc.)	0
Embedded Excel	0
Format changes	0
<b>Total Changes:</b>	4

# SOP (Leachate Tanker Loading by Trailer Pump)

Prepared for: Chiquita Canyon Landfill (CCL)

Rev 5 1/09/2026



TASK	Leachate transfer operations using trailer pump.					
<b>POTENTIAL HAZARDS</b>	Slips/Trips/Falls	<input checked="" type="checkbox"/>	Heat / Cold	<input checked="" type="checkbox"/>	Splash/ Fumes	<input checked="" type="checkbox"/>
	Cuts / Laceration	<input checked="" type="checkbox"/>	Dust	<input checked="" type="checkbox"/>	Biological	<input checked="" type="checkbox"/>
	Pinch / Crush	<input checked="" type="checkbox"/>	Noise / Vibration	<input checked="" type="checkbox"/>	Haz Waste	<input checked="" type="checkbox"/>
	High Pressure	<input checked="" type="checkbox"/>	Fire	<input checked="" type="checkbox"/>	Exhaust	<input checked="" type="checkbox"/>
<b>PPE REQUIRED</b>	<ul style="list-style-type: none"><li>• Hard Hat</li><li>• Safety Toe Shoes</li><li>• 5 Gas Meter</li><li>• FR Clothing (High Viz)</li><li>• Respirator (if applicable)</li><li>• Chemical Gloves</li><li>• Safety Glasses</li></ul>					

## 1. Purpose

To provide a standardized, safe, and efficient procedure for transferring leachate to a tanker truck using a pump-based system equipped with vacuum. The goal of this SOP is to prevent leachate overflow, leaks, spillage, equipment failure/malfunction, operator and/or other human error, exposure of leachate and leachate vapors into the atmosphere in and around the tank farm areas, as well as to provide information on proper maintenance and troubleshooting.

## 2. Scope

This SOP applies to all operators involved in leachate tanker filling operations using the trailer vacuum pump system in a tank farm transfer station.

## 3. Responsibilities

- **Tank Farm Technician-** Must follow this SOP, wear appropriate PPE, and monitor the process. Inspect and maintain equipment before use.
- **Tank Farm Supervisors-** Ensure compliance with safety and environmental regulations.
- **Tank Farm Gatekeepers-** Manage, monitor, and document all tanker truck operations within the tank farm.
- **Tanker Driver** – Assists with hose connection and ensures vehicle readiness.

## 4. Safety Precautions

- **Never** leave the vacuum system unattended during loading.
- **Never** bypass safety devices.
- **Never** leave the loading area unattended during loading.
- **Always** wear appropriate PPE when needed.
- **Always** maintain communication between tank farm tech and driver.
- Avoid direct contact with leachate.

## SOP (Leachate Tanker Loading by Trailer Pump)

Prepared for: Chiquita Canyon Landfill (CCL)

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- Report any equipment failure, malfunction, or maintenance requirement to the supervisor on duty immediately.
- In case of a spill or other release, activate spill response procedures.

### 5. Equipment & Materials

- Transfer Pump (Diesel-Powered)
- Suction hoses and couplings
- Flow meter
- Drip pans and absorbents
- Buckets
- Hoses and fittings rated for leachate transfer
- Secondary containment (if required)
- Spill kit (absorbents, containment booms, pads)
- Emergency eyewash and safety shower stations nearby
- Valve Tags

### 6. Procedure

#### 6.1 Pre-Filling Checks

- Inspect all hoses, couplings, and the pump for leaks, damage, or wear.
- Ensure all valves and connections are in good, working condition.
- Ensure pump has sufficient fuel (diesel).
- All tanker trucks will enter tank farm area guided by Tank Farm staff and be assigned designated loading area. Tank farm tech will walk the line and verify which tank volume the truck is authorized to be loaded with.
- In consultation with the truck driver, an expected volume will be calculated based on the truck's empty "scale in" weight and max weight rating once filled (the difference is therefore the amount of liquid that can be loaded onboard).
- Confirm driver is wearing all proper PPE.
- Tank farm techs will place drip pans and buckets under all potential spill points. Driver will apply wheel chocks to the driver's side.

#### 6.2 Hose Setup

- Tank farm tech will verify the hose is empty of liquid and bleed the hose to relieve pressure.
- The driver will properly connect and secure hose to his tanker from the designated loading area.
- Gatekeeper verifies the correct tank is being pulled from.
- Ensure correct pulling valves is open and treatment manifold ball valve is locked and closed.
- Ensure flowmeter is zeroed out and or level stick is provided.
- Ensure additional manifold poly valves are in the closed position before opening the correct poly valves and tank.
- Tank farm tech will open the approved/verified tank outlet valve and the manifold poly valves.
- Connect discharge hose from the pump's outlet to the tanker's intake valve.

## SOP (Leachate Tanker Loading by Trailer Pump)

Prepared for: Chiquita Canyon Landfill (CCL)

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- Secure all connections using proper clamps or camlocks.
- Driver opens valve on truck.
- Tech will open ball valve at the designated loading area.
- If applicable, bond/ground hoses to avoid static discharge.

### 6.3 Pump Operations and Filling

- Driver's pump must be in neutral, open exhaust valve and tech to verify and confirm exhaust has been uncapped and open position to allow trailer to breath.
- Tank Farm tech will start/prime pump, increase RPMs to 1,400
- Transfer process begins from pump to tanker to calculated volume.
- Monitor the flow and listen for unusual sounds or leaks.
- Stay near the pump and truck throughout the operation.
- Monitor fill level using mag meter, sight gauge, level stick.
- As tanker approaches the calculated volume pump is idled down to 900 RPMs.
- Once total gallons are achieved, driver will signal tech to cut off flow and close load out ball valve.

### 6.4 Completion and Shutdown

- Once calculated gallons are achieved, the trailer pump is shut off and load out ball valve at the designated load out area is closed.
- Tank farm tech will turn on compressor and apply air to clear the hose from the pump to tanker.
- Once hose is clear, driver is to close truck valve, and tech will also stop supplying air and close tank valve.
- Tech will then shut off Compressor and bleed off remaining air left in air hose; tech will then bleed air from loading hose passed the check valve and verify and confirm hose is empty and pressure has been relieved.
- Tank farm tech will disconnect the hose from the tanker carefully to prevent spills.
- Cap is applied to the tanker and to the hose by the driver.
- All tanker valves are tagged by the driver (please refer to Valve Tagging SOP).
- Top hatch of tanker is verified closed by the driver.
- The scrubbers are verified empty by the driver and walk around must be conducted with Gatekeeper as per Truck Valve Tagging SOP.
- Truck is released once all paperwork is verified by Tank Farm Gatekeeper.
- Tank farm tech will close manifold poly valves and tank outlet valve.

### 6.5 Overfilled Trucks

- When loading with pump and truck is overweight, liquid needs to be pushed back into tank that was pulled from.
- Reverse hoses on pump inlets.
- Hook up trailer to pump & manifold.
- Calculate how much weight is needed to pull off trailer.
- Before turning on pump, tank valve and manifold valves should be in the open position.
- Once pump is turned **ON** to push back at **900 RPM**, driver can open valve.
- Once push back time has been achieved, Tank Farm Tech will turn off pump and close all valves.

## SOP (Leachate Tanker Loading by Trailer Pump)

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- Confirm air hose is connected to **outlet bleeder**; driver will open valve to push residual liquid still in the hose into trailer.
- Once hose is clear, driver will close valve.
- Tank Farm Tech will bleed pressure from hose before disconnecting.
- Valve will be capped and tagged.
- Always conduct a final walk through around the entire truck to ensure everything is good for any issues that might arise.

### Transfer Truck or Next Truck in line going to same facility to pull liquid off a truck:

- Tank Farm staff must guide all trucks to staging area.
- Set up trays under potential spill points.
- Hook up hose to overloaded truck.
- Stage transfer truck next to overloaded truck and hook up other end of hose to transfer truck.
- Have transfer truck build vacuum (**10 in vacuum**).
- Overloaded trailer exhaust valve needs to be open
- Calculate how much weight to pull off (every min. will take off (**2,000-2500 Lbs.**)
- Once transfer truck has enough vacuum, overloaded truck and transfer truck will open valves at the same time and the timer starts.
- Once time has been achieved, driver in over-filled truck will close truck valve and open truck bleeder to empty liquid in hose.
- Both ends can now be disconnected, final walk around can be conducted, and truck can be tagged out.

## 7. Post- Operations

- Inspect for physical damage to hoses, pipes, and tanks such as cracks, any exposures of reinforcements, damaged gaskets, and corroded or cracked fittings.
- Clean up any **minor spills** using the spill kit.
- During and after leachate transfer, visually inspect the tank and area to ensure no spills occurred.

If a spill is identified, it must be reported immediately to CCL staff.

## 8. Spill & Emergency Response

- In case of a minor spill:
  - Ensure the source of the spill has ceased.
  - Use **spill absorbents** to contain and clean up.
  - Dispose of contaminated materials properly.
- In case of a major spill:
  - **Stop operations immediately** and notify the supervisor.
  - Ensure the source of the spill has ceased.
  - **Activate the spill response plan.**
  - Evacuate the area if necessary.
- In case of a fire:
  - Stop operations immediately and notify the supervisor.

## SOP (Leachate Tanker Loading by Trailer Pump)

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- If the fire can be contained, use one of the fire extinguishers available throughout the tank farm.
- Evacuate the area and call emergency services, if necessary.
- In case of exhaust:
  - Keep clear proximity of exhaust ventilation actively loading.
- In case of pressure:
  - Relieve pressure by opening bleeder valve.
- Follow spill precautions detailed above, if necessary.

### 9. Documentation & Reporting

- Record all **loading activities, inspections, and any incidents.**
- Report any **equipment malfunctions** or environmental concerns to management.
- Record spills, leaks, and releases pursuant to the spill response plan.

### Additional References

- CCL must also comply with the applicable leachate tank operations requirements in CCL's *Leachate Unit Management Plan*, *ETLF Operation HASP*, *Leachate Management Plan*, and *Data Management Plan*. This SOP may be modified by one or more of these plans.

# SOP (Leachate Tanker Loading by Electric Pump at Tank Farms)

Prepared for: Chiquita Canyon Landfill (CCL)

Rev 0 01/09/2026



<b>TASK</b>	Leachate transfer operations using electric pump into tankers in tank farm facility.					
<b>POTENTIAL HAZARDS</b>	Slips/Trips/Falls	<input checked="" type="checkbox"/>	Heat / Cold	<input checked="" type="checkbox"/>	Splash/ Fumes	<input checked="" type="checkbox"/>
	Cuts / Laceration	<input type="checkbox"/>	Dust	<input checked="" type="checkbox"/>	Biological	<input checked="" type="checkbox"/>
	Pinch / Crush	<input type="checkbox"/>	Noise / Vibration	<input checked="" type="checkbox"/>	Haz Waste	<input checked="" type="checkbox"/>
	High Pressure	<input checked="" type="checkbox"/>	Fire	<input checked="" type="checkbox"/>	Exhaust	<input checked="" type="checkbox"/>
<b>PPE REQUIRED</b>	<ul style="list-style-type: none"><li>• Hard Hat</li><li>• Blackline 5 Gas Meter</li><li>• Safety Toe Shoes</li><li>• FR Clothing (High Viz)</li><li>• Respirator (if applicable)</li><li>• Chemical Gloves</li><li>• Safety Glasses</li></ul>					

## 1. Purpose

To outline the safe and efficient procedure for loading leachate into a tanker truck using an electric pump system within a tank farm while ensuring compliance and worker safety. The goal of this SOP is to prevent leachate overflow, leaks, spillage, equipment failure/malfunction, operator and/or other human error, exposure of leachate and leachate vapors into the atmosphere in and around the tank farm areas, as well as to provide information on proper maintenance and troubleshooting of the tank farm area.

## 2. Scope

Applicable to all personnel involved in leachate transfer operations using a stainless steel electric pump into tankers at the tank farm facility.

## 3. Responsibilities

- **Tank Farm Technician** – Wears appropriate PPE and monitors the pump process. Inspects and maintains equipment before use.
- **Tank Farm Gatekeepers** – Manage, monitor, and document all tanker truck operations within the tank farm.
- **Tank Farm Supervisors** – Ensure compliance with safety and environmental regulations.
- **Tanker Driver** – Assists with hose connection and ensures vehicle readiness.

## 4. Safety Precautions

- **Never** operate pump dry.
- **Never** bypass safety devices.
- **Never** leave the loading area unattended during loading.
- **Always** wear appropriate PPE when needed.
- **Always** maintain communication between tank farm tech and driver.

# SOP (Leachate Tanker Loading by Electric Pump at Tank Farms)

Prepared for: Chiquita Canyon Landfill (CCL)

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- Avoid direct contact with leachate.
- Report any equipment failure, malfunction, or maintenance requirement immediately to the supervisor on duty.
- In case of a spill or other release, activate spill response procedures.

## 5. Equipment Details & Materials

- Stainless steel pump system
- Suction hoses and couplings
- Mag meter
- Drip pans, containing absorbent
- Buckets
- Hoses and fittings rated for leachate transfer
- Valve tags
- Secondary containment (if required)
- Spill kit (absorbents, containment booms, pads)
- Emergency eyewash and safety shower stations nearby

## 6. Pre-Operation of Electric Pump Inspection

### 1. Visual Inspection:

- The tank farm tech shall:
  - Check for visible damage, leaks, or loose fittings; and
  - Inspect suction and discharge hoses/connections.

### 2. Electrical Check:

- The tank farm tech shall inspect power cord and plug for damage.

### 3. Fluid Check:

- The tank farm tech shall ensure the pump casing is filled with liquid to aid in priming.
- Do not run the pump dry.

## 7. Start-Up Procedure of Electric Pump

### 1. Prime the pump:

- Fill pump casing with liquid through the fill port if not already primed.
- Check that the suction line is submerged and free of air leaks.

### 2. Power On:

- Turn on the disconnect switch or breaker.
- Start the pump using the control panel or motor starter.

### 3. Monitor Startup:

- Ensure suction is drawing and discharge flow is smooth.
- Watch (meter) for proper reading.
- Listen for unusual sounds (cavitation, vibration, knocking, etc.).

### 4. Check Flow:

# SOP (Leachate Tanker Loading by Electric Pump at Tank Farms)

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- Confirm that flow rate meets operational requirements (200-300 GPM target).

## 8. Pre-Loading Checks

### 8.1 Inspection of Equipment

- Inspect the **tanker, electric pump, and hoses** for leaks, wear, or damage.
- Ensure all valves and connections are in **good, working condition**.
- Verify that the **electric pump system** is functioning properly.

### 8.2 Site Preparation

- All tanker trucks will enter tank farm area guided by Tank Farm staff and be assigned designated loading area. Tank farm tech will walk the line and verify which tank volume the truck is authorized to be loaded with.
- In consultation with the truck driver, an expected volume will be calculated based on the truck's empty "scale in" weight and max weight rating once filled (the difference is therefore the amount of liquid that can be loaded onboard).
- Confirm driver is wearing the required PPE.
- Tank farm techs will place drip pans under all potential spill points.
- Driver will apply wheel chocks to the driver's side.

## 9. Loading Procedure

### 9.1 Connecting the System

- Ensure tanker truck is properly grounded.
- Tank farm tech will hand over hose to driver.
- Tank farm tech will verify **hose clamps and fittings** are tight.
- Tank farm tech will verify the hose is empty of liquid and bleed the hose to relieve pressure.
- Driver will connect hose to his tanker and tank farm tech will verify it is properly connected.
- Gatekeeper will verify the designated leachate tank loading port is connected.

### 9.2 Electric Pump Loading Process

- Ensure correct pulling valves are open and treatment manifold ball valve is locked and closed.
- Ensure the mag meter is zeroed out.
- Driver will uncap all exhaust points and scrubber.
- If applicable, driver will open internal/external valves & inlet valve.
- Driver opens valve on truck.
- Tank farm tech opens valve to approved/verified tank.
- The tank farm tech shall monitor the **flow rate and pressure** to prevent overloading.
- Maintain **constant communication** with driver/personnel during loading to ensure that the driver and personnel are aware of changes in equipment and liquid transfer status.

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**\*If pump loses prime due to tank being emptied refer to Section 7.1 Start-Up Procedure\***

## 9.3 Completion of Loading

- Once calculated gallons are achieved, the driver will signal cut off and maintain valve open while tank farm tech pushes compressed air between ball valve housing and tanker.
- Driver will then close trailer inlet valve and tech will release pressure from the housing between ball valve and tanker with bleeder.
- Tank farm tech will disconnect the hose from the tanker carefully to prevent spills.
- Cap is applied to the tanker and to the hose by the driver.
- All valves are tagged on tanker by the driver, see Truck Valve Tagging SOP for additional details.
- Top hatch of tanker is verified sealed by the driver.
- The scrubbers are verified empty by the driver.
- The truck is released once all documentation is verified by Gatekeeper.

## 9.4 Overfilled Truck

- When loading trailers with PTO and the truck is overweight, excessive liquid needs to be pushed back with PTO pressure.
- Determine how much liquid is needed to pull out to determine how much liquid needs to be pushed back based on the total weight and PSI of the truck.
- Check the level on the tank will be pushing back into.
- If hose is hooked up to pump, the check valve will not allow liquid to push back. (hoses would need to be reversed).
- If pushing back directly into manifold, hook the truck/trailer back to manifold.
- Once hooked up, both tank and manifold valves can be opened.
- Driver can relieve all vacuum and air from trailer.
- Driver will adjust lever over to pressure (before driver engages PTO, driver should open trailer valve.)
- Once liquid has been pushed back, driver will need to relieve all pressure from trailer for vacuum to engage.

**\*Sometimes pressure is not needed. If tank is empty or low within the same bank, identify potential gravity feedback to tank.**

- Open tank valve, manifold valve, and trailer valve and confirm liquid is flowing back into tank.

## 10. Post-Loading Actions

- Turn off motor at control panel.
- Inspect for physical damage to hoses, pipes, and tanks such as cracks, any exposures of reinforcements, damaged gaskets, and corroded or cracked fittings.
- Clean up any **minor spills** using the spill kit.
- During and after leachate transfer, visually inspect the tank and area to ensure no spills occurred. If a spill is identified, it must be reported immediately.

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## 11. Spill & Emergency Response

- In case of a minor spill:
  - Ensure the source of the spill has ceased.
  - Use **spill absorbents** to contain and clean up.
  - Dispose of contaminated materials properly.
- In case of a major spill:
  - **Stop operations immediately** and notify the supervisor.
  - Ensure the source of the spill has ceased.
  - **Activate the spill response plan.**
  - Evacuate the area, if necessary.
- In case of a fire:
  - Stop operations immediately and notify the supervisor.
  - If the fire can be contained, use one of the fire extinguishers available throughout the tank farm.
  - Evacuate the area and call emergency services, if necessary.
- In case of exhaust:
  - Keep clear proximity of exhaust ventilation actively loading.
- In case of pressure:
  - Relieve pressure by opening bleeder valve.
  - Follow spill precautions detailed above, if necessary.

## 12. Pump Emergency Procedure

In case of pump failure, fluid leak, or electrical fault:

- Shut down the pump immediately.
- Notify supervisor.
- Supervisor will notify Barney's Electrical to isolate power at the breaker.
- Activate the spill response plan, if necessary.
- Evacuate the area, if necessary.

## 13. Troubleshooting Guide

Symptom	Possible Cause	Solution
No suction	Pump not primed	Fill casing with fluid
Low flow rate	Clogged suction/discharge line	Clean lines
Excessive vibration	Worn impeller or bearing	Inspect/replace components
Overheating motor (Barney's Electrical will be notified)	Voltage mismatch, overload	Verify voltage, check amperage
Leaks	Damaged seals or fittings	Replace seals, tighten fittings

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### 14. Documentation & Reporting

- Record all **loading activities, inspections, and any incidents.**
- Report any **equipment malfunctions** or environmental concerns to management.
- Record spills, leaks, and releases pursuant to the spill response plan.

### Additional References

- CCL must also comply with the applicable leachate tank operations requirements in CCL's *Leachate Unit Management Plan*, *ETLF Operation HASP*, *Leachate Management Plan*, *Spill Response Plan*, and *Data Management Plan*. This SOP may be modified by one or more of these plans.