

	SMITH CONSTRUCTION, INC. Safety Management System	Doc No:	SCI-S018
		Initial Issue Date	06/30/2025
		Revision Date:	Initial Version
SEWER FLUSH			Revision No.
Preparation: Safety Mgr	Authority: President	Issuing Dept: Safety	Page:
			Page 1 of 3

Purpose

The purpose of this procedure is to define the requirements to safely and efficiently perform Sewer Flush.

Scope

This policy details the Risks, PPE, Equipment, Key Responsibilities, instruction for Sewer Flush. When performing vacuum truck operations inside Valero Ardmore Refinery, activities must be performed in accordance with SHG E-31 "Vacuum Truck Operation Safety & Health Guidelines".

Risks

- **Exposure to Dangerous Vapors**
- **Damage to equipment during on-loading/off-loading**
- **Metal Splinters from Cable**
- **Slips, Trips, Sprang's, Strains during liner install**
- **Cuts and pinches during liner tear out**

PPE

- **Basic PPE**
- **Fresh Air Equipment (12 Pack, Hoses and Mask)**

Equipment

- Vactor
- Vacuum Truck

Key Responsibilities

Supervisors

- Shall ensure that this policy is followed and properly executed by trained personnel.

Employees

- Shall follow all aspects of this procedure.



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Page: Page 2 of 3

Process Instructions

PRE-WORK & SET-UP

1. **Complete the pre-trip log for pump truck**
2. **Complete the JSA**
3. **Obtain permit to pull products** from vessel/tank
4. **Position the Vactor** (Super Sucker) next to the first manhole. Use a ground guide for final position to ensure that any objects are free, and the Super Sucker has enough clearance to safely operate.
5. **Position a vacuum truck** at the back of the super sucker and attach the connecting vacuum hose to the super sucker to pull water out of the debris box, this is done to continue the cleaning process with the Vactor and only having to offload water with the vacuum truck.
6. **Connect the non-perforated suction hose to the main suction pipe** located at the front of the Super Sucker.
7. **Open the manway**, using the manway picker and lower the suction hose into the sewer box.

SEWER FLUSH PROCESS

8. **Turn suction pump off** and begin breakdown of the pump truck and equipment.
9. **Engage the Blower and idle up to -13 to -15" of vacuum** and begin cleaning out the sewer box until the water and debris are sufficiently clean (the water level should be below the sewer pipe that is being flushed).
10. **Begin Sewer Jetting.** Insert the sewer flush hose with sewer cleaning attachment connected, into the sewer pipe.
11. **Continuously feed the hose through the pipe** until water flows easily through the sewer box and into the sewer pipe.
 - o Before moving to the next sewer box, offload the water in the vacuum truck at the desalter following **SCI-001-Desalter Offload Procedure**.
 - o **NOTE:** WHEN MOVING TO EACH ADDITIONAL SEWER BOX, ENSURE THAT THE NEXT SEWER BOX IS IN THE SAME UNIT AS THE ONE JUST COMPLETED.
 - o SEWER BOX 1-3 PLATFORMER
 - o SEWER BOX 4-7 CAT UNIT
 - o SEWER BOX 8-9 CRUDE
12. **Repeat steps 1-11** for each additional sewer box until complete.
13. **Grating Cleanout** – Grating cleanout has several steps which must be followed in this order.
14. **Grating Inspection** – Gratings do not always need to be washed out, and not all sections of the grating runoff systems need to be cleaned, at every sewer flush. Therefore, the first action to take is to inspect

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Preparation: Safety Mgr	Authority: President	Issuing Dept: Safety	Page: Page 3 of 3	

the grating system by walking beside the grating and physically looking inside to see where the debris is located. If debris is present, then cleanout is required.

15. **Location Selection** – Choose a location at the bottom of the runoff slope section for the grating to be cleaned.
16. **Washout** – Using the hydro-excavation hose located at the passenger side of the Vactor, unreel the blue hose out as needed and begin washout from top to bottom, so that you are washing the debris to the Vactor.
17. **Vacuum Debris** – Once all the debris have been washed down to the Vactor, using the Vactor set-up process detailed above in this procedure (see steps 1-7) the grating will not have a manway, but will have sections that are accessible and able to be opened. Begin vacuuming out all debris that has accumulated from the washout. Repeat this process for all three gratings.

CLEAN-UP & COMPLETION

18. **Once all 9 sewer boxes and all 3 gratings are complete**, review each area to ensure all used hose has been collected for disposal.
19. **Clean all equipment**
20. **Notify Supervisor** that Sewer Flush is complete