



Region 6 Compliance Assurance and Enforcement Division
INSPECTION REPORT

Inspection Date(s):	06/19/2018		
Media:	Water		
Regulatory Program(s)	Clean Water Act		
Company Name:	INEOS-Calabrian		
Facility Name:	INEOS-Calabrain		
Facility Physical Location:	5500 State Hwy 366		
(city, state, zip code)	Port Neches, TX 77651		
Mailing address:	5500 State Hwy 366		
(city, state, zip code)	Port Neches, TX 77651		
County/Parish:	Jefferson County		
Facility Contact:	Roberto Gutierrez	Quality & Technical Manager	
	Kristen Westbrooks	Operations Manager	
	409-727-1471 ext 140		
FRS Number:			
Identification/Permit Number:			
Media Number:	TX0062448		
NAICS:			
SIC:	2899		
Personnel participating in inspection:			
Michael Williams	EPA	Inspector	281-983-2150
Troy Lewis	INEOS	Production Supervisor	409-727-1471
Kristen Westbrooks	INEOS	Operations Manager	409-727-1471
Vicky Martin	INEOS	Safety Coordinator	409-727-1471
EPA Lead Inspector Signature/Date			
EPA Lead Inspector Signature/Date			
	Michael D. Williams		Date
Supervisor Signature/Date			
Supervisor Signature/Date	Carol Peters		

Section I - Introduction

PURPOSE OF THE INSPECTION

EPA Region 6 inspector, Michael Williams, arrived at INEOS Calabrain Corp. at 10:46 am on June 19, 2018 for an unannounced inspection. I met with Kristen Westbrook, Operation Manager. I presented my credentials to Kristen and informed her that this was an EPA lead inspection to determine compliance with the Clean Water Act. The scope of the inspection was with permit LA0062448 and facility operations and maintenance under the Clean Water Act.

The information presented in this report is based on the materials and information supplied by the INEOS Calabrain Corp. representatives (the permittee), observations made during the inspection and records and reports maintained by the permittee.

FACILITY DESCRIPTION

INEOS Calabrain Corp. is located at 5500 State Hwy 366, Port Neches, Texas. The plant makes sulfur dioxide and related derivatives such as sodium bisulfate, sodium metabisulfite and sodium thiosulfate used in wastewater treatment, mining, oilfield and pulp and paper industries. The plant process combines molten sulfur and oxygen to form SO₂. The SO₂ produced on site is combined with caustic to form a sodium bisulphite/ Sodium sulfite solution. This solution is used in a reaction to form sodium metabisulphite.

Wastewater generated comes from the cooling tower blowdown, boiler blowdown, steam condensate, utility water, wash down water, and storm water. The facility treats the wastewater by adding caustic to increase the pH to help settle solids in the two onsite lagoons. The site occasionally adds liquid bleach to help lower COD and ferrous sulfate for settling agent. The site discharges to outfall 001

Section II- Observations

This inspection revealed the following observations:

- On the day of the inspection, the conveyance system made of earthen berms could not contain wastewater flow to the lower lagoon during wet weather conditions.
- *Bypass*- On the day of the inspection, the facility had an unauthorized discharge from the conveyance system. The bypass resulted from the discharge of wastewater over the berm of the conveyance system.
- *Metal Exceedance*- INEOS have changed settling/ coagulant agent from Alum to Ferrous Sulfate. INEOS believes Alum was contributing to metal exceedance. No metal exceedance the last 12 months.

Section III- Areas of Concerns

This inspection revealed the following areas of concerns:

Proper Operation and Maintenance

- The permittee is required to properly operate and maintain all facilities and systems at all times. To ensure INEOS Calabrain Corp can convey all wastewater during wet weather conditions, it needs to identify practices, design measures, and identify the criteria to prevent bypass or unauthorized discharges. INEOS Calabrain Corp. needs to evaluate the integrity of all earthen berms to ensure it is not compromised.

Section IV – LIST OF APPENDICES

- Appendix A – INEOS Calabrain Corp. Photo log

Appendix A

INEOS Calabrain Corp. Photo log



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 1

Location: INEOS-Calabrian		
City: Port Neches	County/Parish: Jefferson	State: Texas





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 2

Location: INEOS-Calabrian		
City: Port Neches	County/Parish: Jefferson	State: Texas

