

4.1.4 - Fugitive emissions

IPPC Permit Number: DP3430LX

Operator: ZF Automotive UK Ltd

Installation: ZF Automotive UK Ltd, Pontypool

Fugitive emissions to surface water, sewer and groundwater

1. With regard to subsurface structure.

- There were no fugitive emissions to groundwater during 2021.
- ZF Pontypool has an existing layout showing the location of all drains and subsurface pipework. The layout is updated when required by the Facilities department.
- 3 subsurface interceptors are installed between the land drains and the outfall to the Afon Llywd. These are inspected and cleaned on an annual basis; checks are also performed for water quality against our discharge permit.
- Generally, all pipework is above ground; leaks are easily spotted, repaired as soon as is practical and the leak controlled until the repair can be carried out.
- The main sewer system from the effluent building to the site boundary was checked during the August shutdown 2006. GD Environmental Services carried out a CCTV survey no issues were identified with the sewer apart from minor damage to the pipework from the effluent to the Chemical storage area. This section of pipe work has never been used and forms part of the original installation allowing for future expansion which never occurred.
- Ground water monitoring was carried out in August 2007, local to the zinc plating process, to establish baseline characteristics. No evidence of fugitive emissions from the process was found.

2. Surfacing.

- There were no fugitive emissions to surface water during 2021.
- The site has been constructed on a concrete base which varies between 200 & 300mm thick. The majority of internal areas are epoxy coated. All machine sumps are also epoxy coated to prevent leaching into the soil, these are also cleaned regularly.
- The Senior Management team and shop floor representatives conduct regular weekly audits with regard to shop floor condition and local housekeeping. Process plant floors and bunded areas are inspected against a separate audit plan.
- All roadside surface water drains have spill mats positioned adjacent to them, all staff are aware of site spillage procedure.
- All above ground storage tanks are held within bunded areas; these are inspected regularly and are in good condition. Bulk storage bunds have also a secondary impervious layer applied.
- All bulk storage tanks are fitted with high level warning indication.

3. Air Emissions

- There were no fugitive emissions to air during 2021.
- The site conducted air monitoring in regard to fugitive emissions of hydrogen fluoride, Hydrogen Chloride, Chromium, Nickel, cobalt, Zinc, Sodium and Potassium from the Zinc and Zinc Nickel processes in May 2019 which found no evidence of fugitive emissions being released from the operation of the process.
- The site conducted stack air monitoring in regard to fugitive emissions of hydrogen fluoride and Hydrogen Chloride from the Zinc Nickel processes in July 2018 which found low level of emissions being released from the operation of the process. The air monitoring will be repeated by the end of May 2022 and the report submitted to Natural Resources Wales once received.
- A new anodising process was installed in 2016. Although production has increased it is currently low compared to the plant's maximum capacity, production demands had been set to increase by 1 million Calipers with the introduction of PSA production volumes, however, production has steadily increased with the although volumes have not been as high as anticipated.



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