

Solutia UK Ltd
(a subsidiary of Eastman Chemical Company)
Corporation Road
Newport
South Wales
NP19 4XF

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Ian Oakes
Technical Specialist (PPC/RSR)
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

EPR/NP3335GR ANNUAL REPORT FOR 2015 AS REQUIRED BY 4.2.2(a) OF PERMIT.

Dear Mr Oakes, Please find below the annual report for 2015.

1.0 W1 Discharge of Ground and Stormwater Storage Facility.

GSSF successfully operated without NaOH pH adjustment and CO₂ neutralisation following removal of silica containing liquors during first quarter.

On-site laboratory closed in June, requiring GCMS analysis of samples to be done by third party off-site laboratory.

No out of consent results for substances/parameters with emission limit values. Note that change of laboratory testing for Total Tetrachloroethene has a limit of detection of <3 ug/l compared to emission limit value of 2.5 ug/l.

Objective limit of 5.0 mg/l for total iron has been comfortably met both by weekly in-house testing (maximum 0.45 mg/l) and third party quarterly testing (maximum 0.08 mg/l). Oxidation of iron contained in groundwater during storage and mixing with storm water has allowed achievement of the objective limit. Comparison of test results between laboratories confirmed good agreement, 0.06 mg/l in-house c.f. 0.037 mg/l third party.



Responsible Care



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Tel: 01633 278221 - International: +44 1633 278221

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Results for Micro Pollutants (suite of historic site substances without a limit value set) with few exceptions are less than limits of detection. TMQ results of 0.4 to 8.2 ug/l are within the historic range of results considered acceptable for discharge. 3rd and 4th Quarters results for Benzothiazole are both 0.5 ug/l, marginally above the 0.1 Limit of Detection quoted by the off-site Laboratory. Previous in-house testing has routinely reported results of zero. The difference is suspected to be due to the changed laboratory testing and will be monitored for future quarters.

2.0 Groundwater Carbon Filters Discharge to the GSSF.

Carbon filter outlets are analysed for Micro Pollutants, total phenol and total iron without any limits being set. Analysis of Micro Pollutants and Phenol is to monitor the effectiveness of carbon treatment. Analysis of iron is for reference when managing the discharge of GSSF to meet objective limit.

All results for Micro Pollutants and Phenol are below limits of detection except for a single result of 1.8 ug/l for TMQ on the outlet of the South Borehole Carbon Filter. As the past 5 years of weekly in-house analysis of the carbon filter outlets have never detected any Micro Pollutants or Phenol, the result was considered suspect. To assess whether it was a spurious result a repeat sample was taken which analysed TMQ at below the limit of detection.

Results for total iron are at the lower end of historic range, most likely as a consequence of several months of low rainfall.

3.0 Tref-y-Nant Brook and Pontycysllte Adit.

The Brook and Adit are analysed for Micro Pollutants, Phenol and Total Organic Carbon, without any limits being set, to assess site impact on adjacent surface waters.

All results for the Brook were below their limit of detection.

Results for the Adit were below the limit of detection with the exception of Aniline at 0.5 ug/l and Benzothiazole at 0.1 ug/l. These results are within the expected historic range.

4.0 Dewatering Boreholes and Culvert Sumps.

Groundwater from the Mid and South Dewatering boreholes, Brook Culvert Sump and Road Culvert Sump are analysed for Micro Pollutants, Phenol and Total Organic Carbon, without any limits being set, to assess on-site changes to groundwater.

Results for the Mid Borehole, South Borehole and Brook Culvert Sump show detection of substances in the historical range.

Results for the Road Culvert Sump were less than the limit of detection with the exception of one result of 3.6 ug/l for TMQ on 8th June. During normal operation this sump collects solely rain water and expectation is for no constituents to be detected. Subsequent scheduled sample, analysed as being below the limit of detection.

5.0 Rhosymedre Quarry.

Collected leachate and groundwater from borehole B3 are analysed for Micro Pollutants, Phenol and Total Organic Carbon, without any limits being set. Analysis of leachate being discharged as a Trade Effluent to sewer is to monitor longer term changes within the quarry fill. Analysis of up-gradient Borehole B3 is to maintain historical monitoring of groundwater approaching the exit of the quarry.

Results for Quarry Leachate are at the low end of historical range of detection. This may be as a result of low rainfall during most of the year.

Results for Borehole B3 are within historical range of detection.

Please let me know if you have any questions.

Yours sincerely,



Nicola Newton
HSE Manager
Solutia UK Ltd, Newport

Tel: 01633 754549
e-mail: nnnewt@eastman.com