



SCA Hygiene UK Ltd
Oakenholt Papermill
Chester Road
Flint
Flintshire
CH6 5PU

30th Jan 2014

F.A.O. Alison Soper
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

Dear Ms Soper

MONITORING RETURNS N. WALTON

CHECKED V6 AUTHORIZATION

TRACKING

OK FOR PUBLIC REGISTER

INITIALS DATE

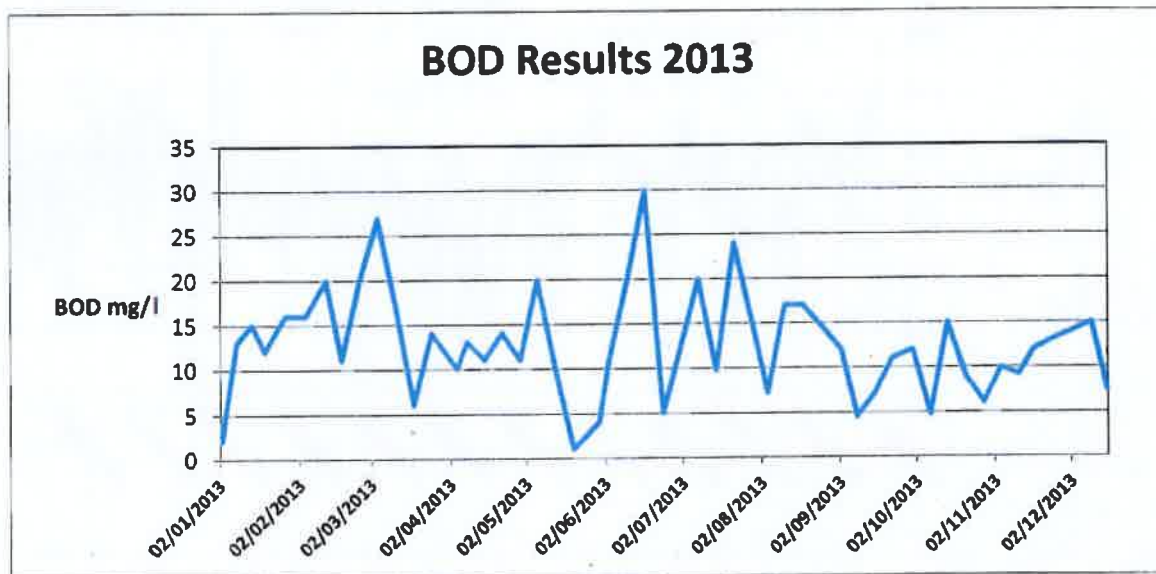
AS	3/2/14
JB	3-2-14
AS	25/2/14
JB	EDRM

Permit requirement 4.2.2 – Permit EPR/BV3715IL

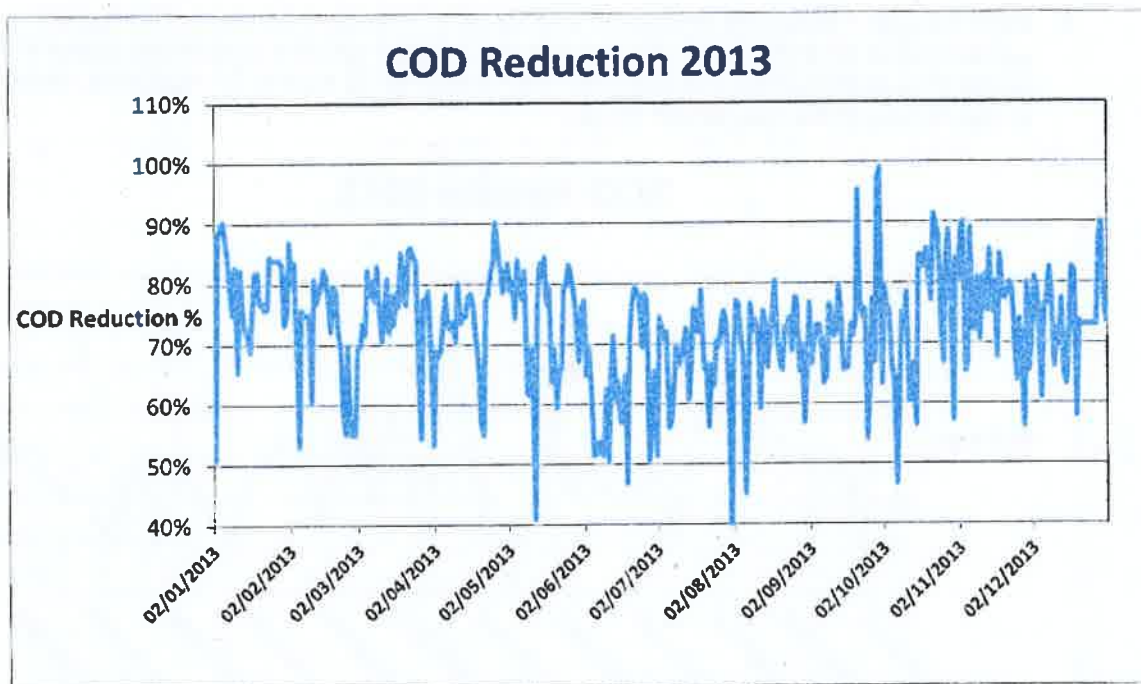
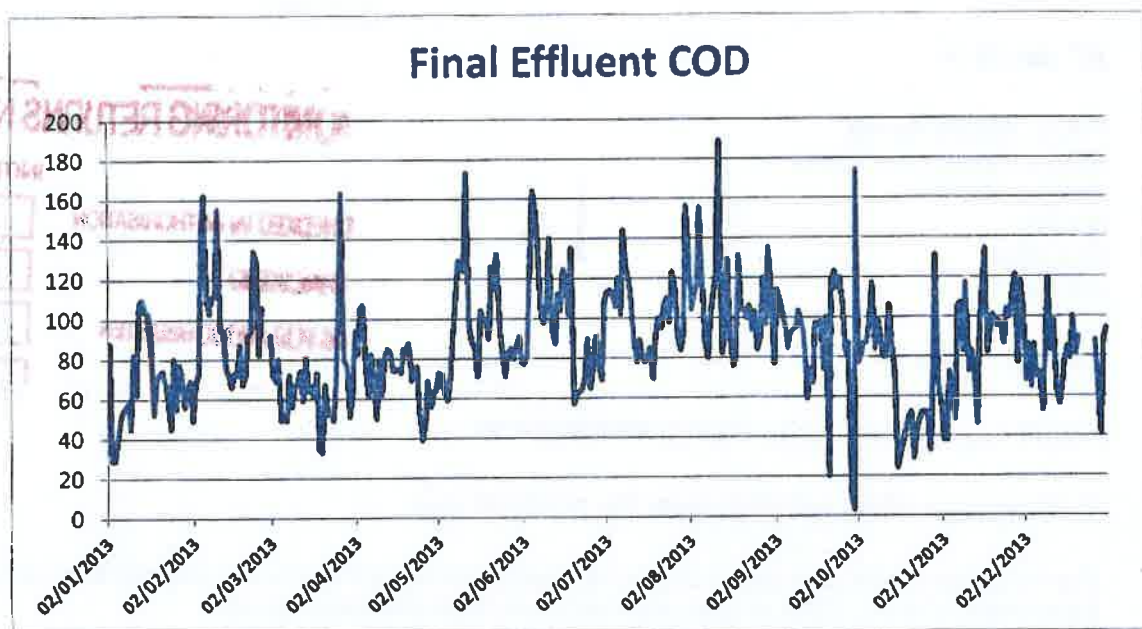
Performance of the activities over the previous year

The following information details the current performance of the effluent plant for the main parameters of BOD, COD, suspended solids, pH, flow and temperature.

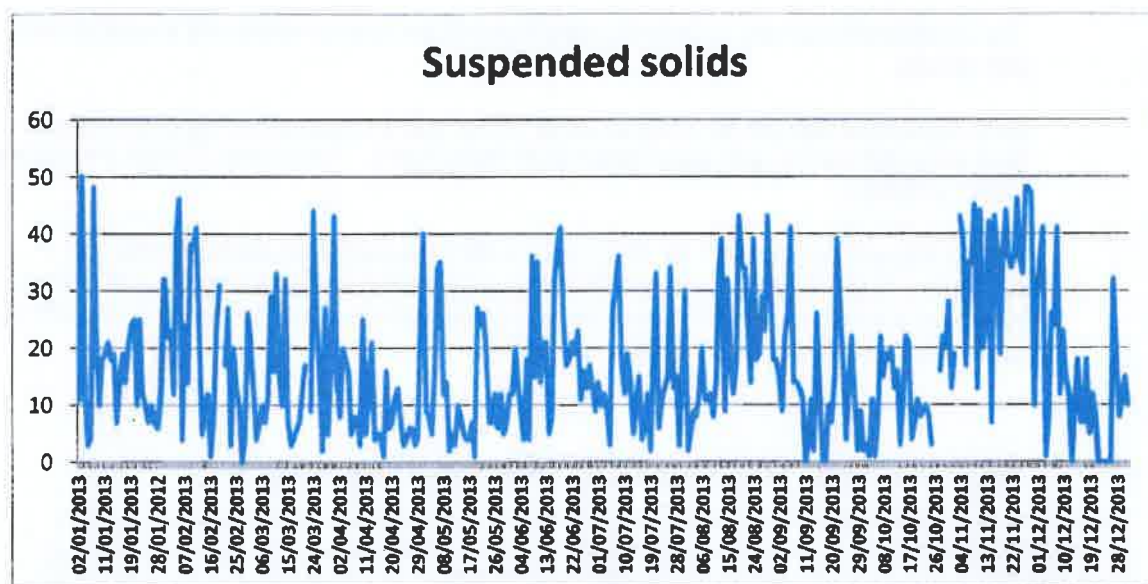
1. **BOD Results** – these are measured weekly by an outside laboratory. The current permit limit is 50 mg/l. The 2013 average is 12.6 mg/l with the level being above the EA target limit of 25 mg/l on 2 occasions. The specific BOD level is 0.1 Kg/tonne, which is in the middle of the new BREF range.



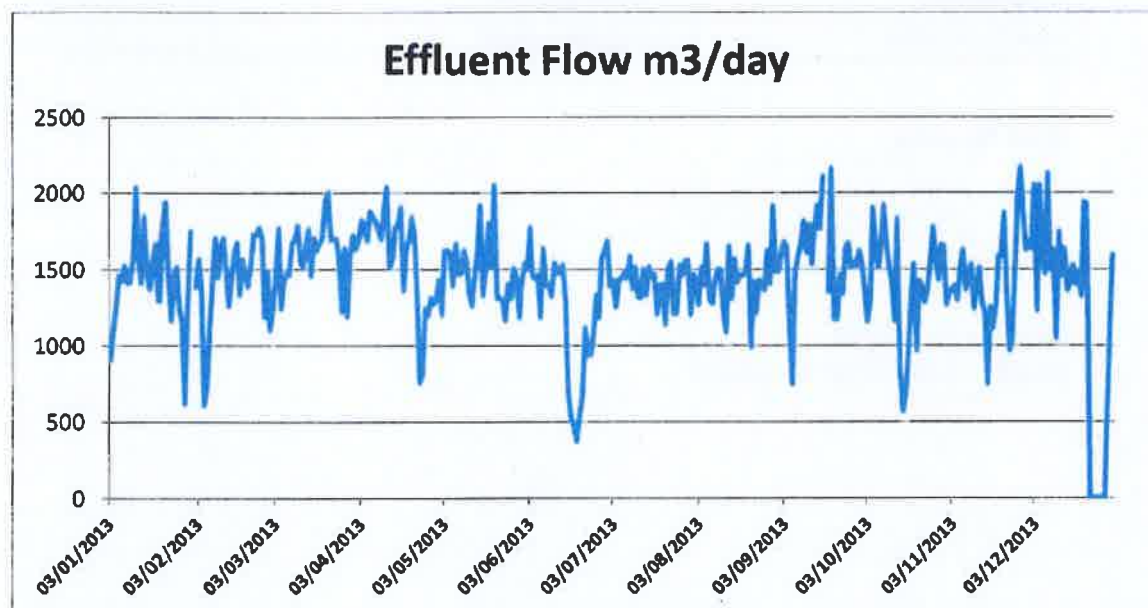
2. COD Results – The graphs below show both the final effluent COD and the COD removal across the plant. The average is 86 mg/litre with a removal efficiency of 73%. The average COD/tonne (0.765) is in the mid range of the BREF due to the low water usage on site.



3. Suspended solids – Average Suspended Solids discharge for 2013 was 17 mg/litre. The current permit limit is 50 mg/litre.



4. Flow



Total Flow – Average Total Flow discharge for 2013 was 1440m³. The current permit limit is 2200m³.

5. pH – Average pH for 2013 was pH7.91. The current permit limits are between pH 5-9
6. Temperature – Average temperature for 2013 was 20.7°C. The current permit limit is 25°C. Temperature is trending higher than previous years. This rise is expected, as the fans in the cooling tower are thermostatically controlled to increase energy efficiency. We are currently looking into purchasing a more efficient heat exchanger.

The additional quarterly monitoring requirement for heavy metals are showing very low results.

CO2 emissions remain an integral focus of the mill, incorporating the Greenhouse Gas emission permit and associated EUETS systems. Producing 27,003.3 tonnes of CO2 for 2013.

All the effluent parameters for 2013 were within the permit conditions (with the exception of the Part A/B submitted for the suspended solids during 08 Jan 2013). However it can be seen from the above graphs that there are peaks on some of the parameters particularly the suspended solids.

2013 overall results using table S4.2 Performance parameters

Parameter	Units
NO _x /ADT	0.294 Tonnes/ADT
CO ₂ /ADT	0.386 Tonnes/ADT
BOD/ADT	0.094 Kg/ADT
Suspended Solids/ADT	0.125 Kg/ADT
Total Nitrogen	0.033 Kg/ADT
Total Phosphorus	0.0108 Kg/ADT

Kind Regards



Miss Alana Corbett
Quality / Environmental Leader