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TOYOTA



Julia Frost
Regulatory Officer
Natural Resources Wales
Chester Road
Buckley
Flintshire, CH7 3AJ

Ref: Environmental Permit EPR/BK6483IU/V003

Date: 17/12/2015

Dear Julia,

With reference to permit improvement condition 9.22 and our subsequent response on 24/04/2010, I attach the Quarter 4 report for monitoring of our Waste Water Treatment Plant emissions. The report compares sample analysis by Toyota and a UKAS accredited lab, using methods based on TGN M18.

If you have any queries, please do not hesitate to contact me.

Yours sincerely,

Keith Martin
Senior Engineer
Facilities and Environment

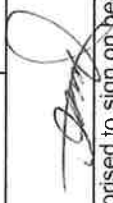
Enc: Reporting Form "Sewer2/280709A" (Q4)

MONITORING RETURNS N. WAL	
CHECKED V/A	AUTHORISATION
JB	4-1-16
JB	5/1
JB	5/1
JB	5/1

Permit Number: EPR/BK6483IU/V003
Facility: Deeside engine Casting

Operator: Toyota Motor Manufacturing (UK) Ltd
Form Number: Sewer2 / 280709A

Reporting of emissions to sewer for Quarter:				Q4 Oct - Dec 2015		TMUK		UKAS Accredited Lab.		
Emission Point	Substance / Parameter	ELV	Reference Period	Sample Date	Test Method	Result	Test Method	Result	Uncertainty	
S1	pH	5 - 10	Daily Composite Sample	02/12/2015	Laboratory bench pH probe.	7.17	Based "The Measurement of Electrical Conductivity and Laboratory Determination of the pH Value of Natural, Treated and Wastewaters 1978".	6.8	1%	
S1	Total Suspended Solids	200 mg/l	Daily Composite Sample	02/12/2015	Internal Method: Filter Paper + balance	6.0 mg/l	Based on "Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980."	43.0 mg/l	9.20%	
S1	COD	1500 mg/l	Daily Composite Sample	02/12/2015	Internal Titration Method	537.0 mg/l	Dichromate oxidation / digestion.	445.0 mg/l	8.90%	
S1	Total Hydrocarbon Oil	150 mg/l	Daily Composite Sample	02/12/2015	Internal Gravimetric Method	19.0 mg/l	Solvent extract of the sample / GC/FID	5.01 mg/l	17.40%	
S1	Sulphate	1000 mg/l	Daily Composite Sample	02/12/2015	Internal Method AA Spectrophotometer	320.0 mg/l	Determination by ICPOES.	247.0mg/l	6.40%	
S1	Copper	1 mg/l	Daily Composite Sample	02/12/2015	Internal Method AA Spectrophotometer	0.1 mg/l	Determination by ICAMS	<0.001 mg/l	2.70%	
S1	Zinc	2 mg/l	Daily Composite Sample	02/12/2015	Internal Method AA Spectrophotometer	0.13 mg/l	Determination by ICAMS	0.025 mg/l	5.70%	
S1	Lead	1 mg/l	Daily Composite Sample	02/12/2015	Internal Method AA Spectrophotometer	0.1 mg/l	Determination by ICAMS	<0.001 mg/l	2.50%	
S1	Nickel	1 mg/l	Daily Composite Sample	02/12/2015	Internal Method AA Spectrophotometer	0.1 mg/l	Determination by ICAMS	0.013 mg/l	2.20%	

Signed:  Date: 17/12/2015
(authorised to sign on behalf of operator)