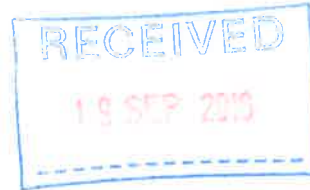


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TOYOTA



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

Ref: Environmental Permit EPR/BK6483IU/V003

Date: 30/08/2016

Dear Julia,

With reference to permit improvement condition 9.22 and our subsequent response on 24/04/2010, I attach the Quarter 3 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" (Q3)

MONITORING RETURN
NATURAL RESOURCES WALES

	INITIALS	DATE
CHECKED VS AUTHORISATION	UF	26/9
TRACKING	JB	19.9.16
OK FOR PUBLIC REGISTER	JF	26/9
WATER VERIFICATION		

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:			Q3 Jul - Sep 2016			TMUK			UKAS Accredited Lab.		
Emission Point	Substance / Parameter	ELV	Reference Period	Sample Date	Test Method	Result	Test Method	Result	Test Method	Result	Uncertainty
S1	pH	5 - 10	Daily Composite Sample	24/08/2016	Laboratory bench pH probe.	7.83	Based on "The Measurement of Electrical Conductivity and Laboratory Determination of the pH Value of Natural, Treated and Wastewaters 1978".	7.6	Based on "The Measurement of Electrical Conductivity and Laboratory Determination of the pH Value of Natural, Treated and Wastewaters 1978".	7.6	1%
S1	Total Suspended Solids	200 mg/l	Daily Composite Sample	24/08/2016	Internal Method: Filter Paper + balance	51 mg/l	Based on "Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980."	45 mg/l	Based on "Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980."	45 mg/l	9.20%
S1	COD	1500 mg/l	Daily Composite Sample	24/08/2016	Internal Titration Method	700 mg/l	Dichromate oxidation / digestion.	552 mg/l	Dichromate oxidation / digestion.	552 mg/l	8.90%
S1	Total Hydrocarbon Oil	150 mg/l	Daily Composite Sample	24/08/2016	Internal Gravimetric Method	11 mg/l	Solvent extract of the sample / GC/FID	8.38 mg/l	Solvent extract of the sample / GC/FID	8.38 mg/l	17.40%
S1	Sulphate	1000 mg/l	Daily Composite Sample	24/08/2016	Internal Method AA Spectrophotometer	360 mg/l	Determination by ICPOES.	245 mg/l	Determination by ICPOES.	245 mg/l	6.40%
S1	Copper	1 mg/l	Daily Composite Sample	24/08/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	0.001 mg/l	Determination by ICPMS	0.001 mg/l	2.70%
S1	Zinc	2 mg/l	Daily Composite Sample	24/08/2016	Internal Method AA Spectrophotometer	0.39 mg/l	Determination by ICPMS	0.059 mg/l	Determination by ICPMS	0.059 mg/l	5.70%
S1	Lead	1 mg/l	Daily Composite Sample	24/08/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	<0.001 mg/l	Determination by ICPMS	<0.001 mg/l	2.50%
S1	Nickel	1 mg/l	Daily Composite Sample	24/08/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	0.01 mg/l	Determination by ICPMS	0.01 mg/l	2.20%

Signed:  Date: 30/08/2016
(authorised to sign on behalf of operator)