

Toyota Motor Manufacturing (UK) Ltd

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TOYOTA



Lara Cubley
Regulatory Officer
Natural Resources Wales
Chester Road
Buckley
Flintshire, CH7 3AJ

Ref: Environmental Permit EPR/BK6483IU/V003

Date: 11/07/2013

Dear Lara,

With reference to permit improvement condition 9.22 and our subsequent response on 24/04/2010, I attach the Quarter 2 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" (Q2)

MONITORING RETURN WALFS

	INITIALS	DATE
CHECKED Vs AUTHORISATION	LC	6.9.13
TRACKING	JB	15.8.13
OK FOR PUBLIC REGISTER	LC	6.9.13
	JB	EDM

Permit Number:
Facility:

EPR/BK6483IU/V003
Deeside engine Casting

Operator:
Form Number:

Toyota Motor Manufacturing (UK) Ltd
Sewer2 / 280709A

Reporting of emissions to sewer for Quarter:				Q2 April - June 2013				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	20/06/2013	Laboratory bench pH probe.	7.37	Based "The Measurement of Electrical Conductivity and Laboratory Determination of the pH Value of Natural, Treated and Wastewaters 1978".	7.1	0.14		
S1	Total Suspended Solids	200 mg/l	Daily Composite Sample	20/06/2013	Internal Method: Filter Paper + balance	57.0 mg/l	Based on "Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980."	65.0 mg/l	18.50%		
S1	COD	1500 mg/l	Daily Composite Sample	20/06/2013	Internal Titration Method	806.0 mg/l	Dichromate oxidation / digestion.	700.0 mg/l	17.70%		
S1	Total Hydrocarbon Oil	150 mg/l	Daily Composite Sample	20/06/2013	Internal Gravimetric Method	0.0 mg/l	Solvent extract of the sample / GC/FID	0.59 mg/l	34.90%		
S1	Sulphate	1000 mg/l	Daily Composite Sample	20/06/2013	Internal Method AA Spectrophotometer	420.0 mg/l	Determination by ICPOES.	332.0 mg/l	16.00%		
S1	Copper	1 mg/l	Daily Composite Sample	20/06/2013	Internal Method AA Spectrophotometer	0.1 mg/l	Determination by ICPMS	0.001 mg/l	21.60%		
S1	Zinc	2 mg/l	Daily Composite Sample	20/06/2013	Internal Method AA Spectrophotometer	0.26 mg/l	Determination by ICPMS	0.094 mg/l	15.40%		
S1	Lead	1 mg/l	Daily Composite Sample	20/06/2013	Internal Method AA Spectrophotometer	0.1 mg/l	Determination by ICPMS	<0.001 mg/l	14.20%		
S1	Nickel	1 mg/l	Daily Composite Sample	20/06/2013	Internal Method AA Spectrophotometer	0.1 mg/l	Determination by ICPMS	0.011 mg/l	22.70%		

Signed:

 (authorised to sign on behalf of operator)

Date:

11/07/13