

# Toyota Motor Manufacturing (UK) Ltd

Burnaston  
Derbyshire  
East Midlands  
DE1 9TA  
United Kingdom

Tel 01332 282121  
Fax 01332 282801  
www.toyotauk.com

# TOYOTA

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

Ref: Environmental Permit EPR/BK6483IU

Date: 14 November 2016

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,



Chris Mould  
Principal Engineer  
Facilities and Environment


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

Permit Number: EPR/BK64831U/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 2016		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	06/10/2016	Laboratory bench pH probe.	7.72	Based on "The Measurement of Electrical Conductivity and Laboratory Determination of the pH Value of Natural, Treated and Wastewaters 1978".	7.4	1%
S1	Total Suspended Solids	200 mg/l	Daily Composite Sample	06/10/2016	Internal Method: Filter Paper + balance	44 mg/l	Based on "Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980."	47 mg/l	9.20%
S1	COD	1500 mg/l	Daily Composite Sample	06/10/2016	Internal Titration Method	586 mg/l	Dichromate oxidation / digestion.	489 mg/l	8.90%
S1	Total Hydrocarbon Oil	150 mg/l	Daily Composite Sample	06/10/2016	Internal Gravimetric Method	10 mg/l	Solvent extract of the sample / GCFID	9.45 mg/l	17.40%
S1	Sulphate	1000 mg/l	Daily Composite Sample	06/10/2016	Internal Method AA Spectrophotometer	170 mg/l	Determination by ICPOES.	323 mg/l	6.40%
S1	Copper	1 mg/l	Daily Composite Sample	06/10/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	<0.001 mg/l	2.70%
S1	Zinc	2 mg/l	Daily Composite Sample	06/10/2016	Internal Method AA Spectrophotometer	0.2 mg/l	Determination by ICPMS	0.024 mg/l	5.70%
S1	Lead	1 mg/l	Daily Composite Sample	06/10/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	<0.001 mg/l	2.50%
S1	Nickel	1 mg/l	Daily Composite Sample	06/10/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	0.01 mg/l	2.20%

Signed: \_\_\_\_\_ Date: \_\_\_\_\_



14/11/16

(authorised to sign on behalf of operator)