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## Environmental Report for the 2<sup>nd</sup> Quarter of 2016

### **Groundwater and surface water monitoring system**

- Groundwater monitoring system is designed to monitor the impact of plant operation on groundwater.
- Surface water quality is monitored in the Kotrcina stream at two stream profiles.

<b>Monitoring place</b>	<b>Marking</b>	<b>Pollution indicators</b>
Bore	SM-1, SM-2, SM-3, SM-4, SM-5, PM-1, PM-2, PM-4, PM-7, PM-8, PM-9, PM-10, PM-11, PM-13	water temperature, water level, pH, conductivity, COD-Mn, non-polar extractives, BTEX, TOC
Kotrcina stream	PV-1, PV-2	water temperature, pH, conductivity, dissolved oxygen, COD-Mn, nitric nitrogen, non-polar extractives, BTEX, hydrocarbon index, TOC
Rainwater sewage <i>(behind oil separator)</i>	DK-2 Kia	non-polar extractives



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## Indexes of industrial waste water contamination

- Quantity of industrial waste water discharged into the public sewerage in the 2nd quarter 2016: **90,823 m<sup>3</sup>**

Indicator	pH	COD <sub>Cr</sub>	BOD <sub>5</sub>	Soluble Substances	N total	P total
Unit		mg/l	mg/l	mg/l	mg/l	mg/l
<b>Public sewerage limit</b> (Decree No. 55/2004 Coll.)	6-9	800	400	2 500	70	10
<b>Concentration of pollutants*</b>	8,39	243	81	1 160	11,1	0,26

*\* Indicators are set by qualified spot sample*



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## Air protection

- KMS operates the following sources of air pollution divided in terms of Decree No. 410/2012 Coll.:

Large air pollution source	Medium air pollution sources
Paint Shop	Press Shop
Vehicle Process Center (VPC)	Body Shop
Tank Farm	Assembly Shop
	Engine Shop
	Canteen
	Main Office
	Section 6 (Utility buildings)
	Fuel Station

- During the trial operation in 2007, the first authorized measure of emissions was executed for all sources that fulfilled this obligation.
- Repeated authorized measures are carried out in the set legislative deadlines every 3 or 6 years.
- The results confirmed compliance with the emission limits of all previously measured sources.



On May 23<sup>rd</sup> - 24<sup>th</sup>, 2016, the first and periodical authorized measurement of emissions was carried out to verify compliance with the set emission limits in waste gas from object SO 200 Body Shop. The measurement confirmed that the emission limits were complied with.

Exhaust	Pollutant	Emission limit [mg.m <sup>-3</sup> ]	Average measured value [mg.m <sup>-3</sup> ]	Result	Exhaust	Pollutant	Emission limit [mg.m <sup>-3</sup> ]	Average measured value [mg.m <sup>-3</sup> ]	Result
V9	solids	150	<1	COMPLIANCE	V11	solids	150	<1	COMPLIANCE
	2.3 group	1	<0,08	COMPLIANCE		2.3 group	1	<0,08	COMPLIANCE
	5.1 group	0,05	<0,01	COMPLIANCE		3.2 group	3	<0,15	COMPLIANCE
						5.1 group	0,05	<0,01	COMPLIANCE
V10	solids	150	<1	COMPLIANCE	V12	solids	150	<1	COMPLIANCE
	2.3 group	1	<0,08	COMPLIANCE		2.3 group	1	<0,08	COMPLIANCE
	3.2 group	3	<0,15	COMPLIANCE		3.2 group	3	<0,15	COMPLIANCE
	5.1 group	0,05	<0,01	COMPLIANCE		5.1 group	0,05	<0,01	COMPLIANCE

*Status conditions expressing the mass concentration of 0°C, 101.3 kPa, dry gas.*



On May 24<sup>th</sup>, 2016, the periodical authorized measurement of emissions was carried out to verify compliance with the set emission limits in waste gas from object SO 300 Paint Shop. The measurement confirmed that the emission limits were complied with.

Exhaust	Pollutant	Emission limit [mg.m <sup>-3</sup> ]	Average measured value [mg.m <sup>-3</sup> ]	Result
V05-58	solids	3	1	COMPLIANCE

*Status conditions expressing the mass concentration of 0°C, 101.3 kPa, wet gas.*

On May 24<sup>th</sup>, 2016, the periodical authorized measurement of emissions was carried out to verify compliance with the set emission limits in waste gas from object SO 400 Assembly Shop. The measurement confirmed that the emission limits were complied with.

Exhaust	Pollutant	Emission limit [mg.m <sup>-3</sup> ]	Average measured value [mg.m <sup>-3</sup> ]	Result
V1	solids	3	2	COMPLIANCE

*Status conditions expressing the mass concentration of 0°C, 101.3 kPa, wet gas.*



## Waste management

- Kia Motors Slovakia produces hazardous and other wastes from its operation.
- Their amount and way of disposal in the 2<sup>nd</sup> quarter of 2016 are shown in the table.

Wastes	Amount in t	Recovery in %	Disposal in %
Hazardous	1 300,14	4,32	95,68
Others	15 471,36	98,55	1,45
<b>Total</b>	<b>16 771,50</b>	<b>91,25</b>	<b>8,75</b>

- According to the Law about wastes, Kia Motors Slovakia, as obliged person, ensures responsibilities for collection, recovery and recycling of packaging materials by itself and at its own cost.