

Release summary for the month

October-16

Operator: Tata Steel UK Ltd

Release Point:

W1 (LSO)

Location: Port Talbot

Permit:

BL7108

	S.Solids*	COD	BOD	Sulphides	Thiocyanate	Cyanide	PAH	Phenols	A+N+N	Iron	Lead	Zinc	Nickel	Chromium	Oil	Date	Discharge	Discharge
	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)		(m3/hr)	(m3)
Week 1	50.8	57.0		0.0	3.6	0.010	0.013	0.230	15.4	4.6	0.1	0.9	0.03	0.04	1.8	01-Oct-16	1590.6	38175.4
																02-Oct-16	1625.2	39004.6
																03-Oct-16	1389.6	33351.2
																04-Oct-16	1694.6	40669.7
																05-Oct-16	1583.1	37993.5
																06-Oct-16	1370.1	32882.2
Week 2	49.7	66.0		0.0	1.4	0.010	0.005	0.070	11.7	2.7	0.0	0.6	0.01	0.00	1.8	07-Oct-16	1269.5	30468.7
																08-Oct-16	960.2	23045.8
																09-Oct-16	987.8	23706.2
																10-Oct-16	1197.4	28738.2
																11-Oct-16	927.2	22252.4
																12-Oct-16	937.2	22493.4
Week 3	83.2	34.0		0.0	2.0	0.010	0.033	0.010	9.5	2.0	0.0	0.4	0.03	0.00	1.0	13-Oct-16	813.6	19527.6
																14-Oct-16	750.8	18020.2
																15-Oct-16	415.8	9979.6
																16-Oct-16	434.0	10416.0
																17-Oct-16	857.8	20588.3
																18-Oct-16	1204.7	28912.5
Week 4	31.4	31.0		0.0	0.6	0.010	0.006	0.030	16.3	1.8	0.0	0.5	0.01	0.00	1.6	19-Oct-16	946.3	22710.5
																20-Oct-16	1017.8	24427.8
																21-Oct-16	974.3	23384.2
																22-Oct-16	881.9	21166.0
																23-Oct-16	1214.3	29143.9
																24-Oct-16	1894.6	45470.5
Week 5																25-Oct-16	1919.1	46057.3
																26-Oct-16	1393.9	33453.2
																27-Oct-16	1711.7	41080.8
																28-Oct-16	1408.5	33803.0
																29-Oct-16	1775.3	42607.1
																30-Oct-16	1595.9	38300.8
Mean Weekly ave. limit	20	220	20	0.1	4	0.1	0.05	0.5	50	5	0.5	2.0	0.5	0.5	5.0	31-Oct-16	408.8	9810.954
																	1198.4 6000	28762.6 -

* Suspended solids breaches reported on a monthly basis

Signed on behalf of the Operator



Dated 26-Jan-2017

Form I&S W1 Monthly

Release summary for the month

November-16

Operator: Tata Steel UK Ltd

Release Point:

W1 (LSO)

Location: Port Talbot

Permit:

BL7108

	S.Solids*	COD	BOD	Sulphides	Thiocyanate	Cyanide	PAH	Phenols	A+N+N	Iron	Lead	Zinc	Nickel	Chromium	Oil	Date	Discharge (m3/hr)	Discharge (m3)
	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)			
Week 1	32.90	61.00		0.00	1.40	0.010	0.026	0.060	31.70	1.70	0.03	0.44	0.04	0.06	3.03	01-Nov-16	373	8964
																02-Nov-16	576	13828
																03-Nov-16	291	6977
																04-Nov-16	335	8042
																05-Nov-16	261	6261
																06-Nov-16	351	8422
Week 2	50.60	10.00		0.00	0.91	0.010	0.009	0.010	16.17	1.50	0.00	0.41	0.00	0.00	0.83	07-Nov-16	214	5148
																08-Nov-16	166	3984
																09-Nov-16	322	7726
																10-Nov-16	370	8891
																11-Nov-16	445	10669
																12-Nov-16	336	8056
Week 3	89.71	26.00		0.00	0.11	0.010	0.030	0.000	11.62	1.70	0.03	0.40	0.00	0.00	2.76	13-Nov-16	669	16061
																14-Nov-16	735	17630
																15-Nov-16	637	15294
																16-Nov-16	369	8860
																17-Nov-16	924	22186
																18-Nov-16	616	14777
Week 4	71.71	47.00		0.00	1.81	0.000	0.013	0.129	17.97	2.14	0.04	0.56	0.00	0.00	2.14	19-Nov-16	736	17674
																20-Nov-16	977	23444
																21-Nov-16	1361	32672
																22-Nov-16	1467	35205
																23-Nov-16	803	19268
																24-Nov-16	685	16428
Week 5																25-Nov-16	915	21971
																26-Nov-16	1273	30553
																27-Nov-16	1803	43282
																28-Nov-16	1499	35984
																29-Nov-16	1517	36417
																30-Nov-16	1143	27423
Mean Weekly ave. limit																		
	20	220	20	0.1	4	0.1	0.05	0.5	50	5	0.5	2.0	0.5	0.5	5.0		739.0 6000	17736.5 -

* Suspended solids breaches reported on a monthly basis

Signed on behalf of the Operator



Dated 27-Jan-2017

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

December-16

Operator: Tata Steel UK Ltd

Release Point:

W1 (LSO)

Location: Port Talbot

Permit:

BL7108

	S.Solids*	COD	BOD	Sulphides	Thiocyanate	Cyanide	PAH	Phenols	A+N+N	Iron	Lead	Zinc	Nickel	Chromium	Oil**	Date	Discharge	Discharge
	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)	Conc. (mg/l)		(m3/hr)	(m3)
Week 1	74.86	84		0.00	1.27	0.00	0.006	0.07	10.40	2.20	0.04	0.19	0.04	0.01	6.00	01-Dec-16	926	22219
																02-Dec-16	933	22381
																03-Dec-16	529	12702
																04-Dec-16	479	11503
																05-Dec-16	374	8987
																06-Dec-16	477	11440
Week 2	59.70	77		0.00	1.70	0.00	0.012	0.11	18.00	1.10	0.01	0.29	0.00	0.00	7.80	07-Dec-16	613	14714
																08-Dec-16	825	19809
																09-Dec-16	182	4363
																10-Dec-16	181	4347
																11-Dec-16	427	10249
																12-Dec-16	375	9008
Week 3	64.60	59		0.00	0.99	0.00	0.003	0.13	26.40	1.80	0.09	0.69	0.07	0.01	3.47	13-Dec-16	799	19164
																14-Dec-16	1302	31259
																15-Dec-16	1044	25066
																16-Dec-16	541	12983
																17-Dec-16	475	11393
																18-Dec-16	616	14784
Week 4	57.70	26		0.00	2.20	0.01	0.008	0.01	15.50	1.10	0.03	0.50	0.00	0.00	3.37	19-Dec-16	1110	26634
																20-Dec-16	907	21776
																21-Dec-16	870	20887
																22-Dec-16	958	22992
																23-Dec-16	382	9167
																24-Dec-16	598	14344
Week 5	63.40	36		0.00	0.80	0.01	0.018	0.04	11.80	1.20	0.03	0.49	0.01	0.01	7.40	25-Dec-16	213	5119
																26-Dec-16	144	3456
																27-Dec-16	286	6864
																28-Dec-16	82	1971
																29-Dec-16	111	2661
																30-Dec-16	199	4786
Mean																31-Dec-16	447	10732
Weekly ave. limit	20	220	20	0.1	4	0.1	0.05	1	50	5	0.5	2.0	0.5	0.5	5.0		561.5 6000	13476.2 -

* Suspended solids breaches reported on a monthly basis

** Oil weekly average breaches reported in the following Part As - S5N_16_92A, S5N_16_95A, S5N_17_01A

Signed on behalf of the Operator

Dated 27-Jan-2017

Form I&S W1 Monthly

Operator: Tata Steel UK Ltd**Release Point:** W1**Location:** Port Talbot**Permit:** BL7108

Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
Phenol	Max load (kg/day)	59.2	14.1	12.5	350
	Mean load (kg/day)	4.5	0.9	1.1	
	Max conc. (mg/l)	1.8	0.5	0.8	
	Mean conc. (mg/l)	0.1	0.0	0.1	2
Soluble chromium	Max load (kg/day)	2.0	0.0	0.0	
	Mean load (kg/day)	0.1	0.0	0.0	
	Load (kg/mth)	1.96	0.00	0.00	200
	Max conc. (mg/l)	0.20	0.00	0.00	
	Mean conc. (mg/l)	0.01	0.00	0.00	0.2
Soluble lead	Max load (kg/day)	2.34	0.00	3.13	
	Mean load (kg/day)	0.08	0.00	0.20	
	Load (kg/mth)	2.3	0.0	6.2	300
	Max conc. (mg/l)	0.10	0.00	0.10	
	Mean conc. (mg/l)	0.00	0.00	0.01	0.3
Soluble iron	Max load (kg/day)	10.8	10.8	10.0	
	Mean load (kg/day)	1.2	0.8	0.9	
	Max conc. (mg/l)	1.1	0.3	0.6	
	Mean conc. (mg/l)	0.1	0.0	0.1	
Free cyanide	Max load (kg/day)	6.6	1.8	2.3	45
	Mean load (kg/day)	0.6	0.1	0.1	
	Max conc. (mg/l)	0.2	0.1	0.1	
	Mean conc. (mg/l)	0.02	0.01	0.01	0.2
PAH's	Load (kg/mth)	12.8	10.4	1.0	250
	Concentration (mg/l)	0.002	0.005	0.005	1

Signed on behalf of the Operator**Dated** 26-Jan-2017**Form I&S W1 Quarterly**

Release summary for the quarter Oct to Dec-16

Operator: Tata Steel UK Ltd

Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
Dock Return Suspended solids	Max. monthly conc. of return (mg/l)	30.0	3.5	45.8	20 above background
	Max daily back-ground conc. (mg/l)	48.0	102.0	90.0	
	Mean background conc. (mg/l)	24.5	71.3	46.4	
Dock Flow*	Max daily flowrate (m3/day)	73088			350000
	Mean daily flowrate (m3/day)	42916			
	Max flowrate (m3/hour)	3122			16000
	Mean flowrate (m3/hour)	1787			
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	22152	24816	22374	
	Mean daily abstraction rate (m3/day)	22122	19774	20947	
Dock Return Temperature	Max daily discharge temperature (C)	25	27	23	36
	Mean daily discharge temperature (C)	24	23	20	

*Inconsistent data during November and December 2016 - investigation ongoing.

Signed on behalf of the Operator



Dated 26-Jan-2017

Form I&S W5

Release summary for the quarter Oct to Dec

Operator: Tata Steel UK Ltd

Release Point: W3 (ABO)

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
Suspended solids	Maximum daily* concentration (mg/)	140	102	156	200
	Mean daily concentration (mg/)	43	36	45	
Oil and grease	Maximum daily concentration (mg/)	13	11	15	20
	Mean daily concentration (mg/)	5	6	8	
Number of days of discharge in the month		0	11	8	

* Breaches now reported as weekly averages same as LSO

Signed on behalf of the Operator



Dated 26-Jan-2017

Form I&S W3

Releases to Controlled Waters

Annual release summary for the year 2016

Operator: Tata Steel UK Ltd **Release Point:** W1
Location: Port Talbot **Permit:** BL7108

Substance	Annual Release (kg)	Limit (kg)
Suspended solids	782306	2250000
Oil and grease	52799	360000
Free cyanide	288	2700
Ammoniacal nitrogen	87947	400000
Phenol	2394	18000
Soluble lead	172	
Soluble chromium	116	
PAH's*	194	
Total iron	42111	
Soluble iron	1483	
Total aluminum	12662	
Total manganese	13182	
Total zinc	13129	
Soluble zinc	9974	

Signed on behalf of the Operator

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Dated

27-Jan-2017

Form I&S Annual W1

Release summary for the quarter Oct to Dec

Operator: Tata Steel UK Ltd

Release Point: W4

Location: Port Talbot

Permit: BL7108 / RP3730BV

Release Point W4: Spot sample results during storm discharge					
Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
pH	Max daily	8.8	9.8	8.1	
	Mean daily	8.5	9.2	8.1	
	Min daily	0.0	0.0	0.0	
Suspended solids (mg/l)	Max daily conc.	27.0	280.0	341.0	
	Mean daily conc.	24.5	151.0	341.0	
Total iron (mg/l)	Max daily conc.	0.2	0.0	0.4	
	Mean daily conc.	0.1	0.0	0.4	
Soluble iron (mg/l)	Max daily conc.	0.1	0.0	0.0	
	Mean daily conc.	0.1	0.0	0.0	
Oil and grease (mg/l)	Max daily conc.	0.1	0.0	0.0	
	Mean daily conc.	0.5	0.1	0.1	
Number of days of discharge in the month (daily rainfall > 15 mm).		1	1	0	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
27-Oct-16	27	8.8	0.05	0.05	0.50
08-Nov-16	22	8.5	0.01	0.01	0.05
05-Dec-16	341	8.1	0.39	0.01	0.05

Signed on behalf of the Operator



Dated 26-Jan-2017

Form I&S W4