

Releases to Controlled Waters

Release summary for the month

July-18

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	26.3	86		0.0	1.7	0	0.00	0.03	65	1.1	0.0	0.17	0.0	0.0	0.5	01-Jul-18	2650.9	63622.0
																02-Jul-18	3546.6	85118.0
																03-Jul-18	1703.1	40874.0
																04-Jul-18	1893.2	45437.0
																05-Jul-18	2000.1	48003.0
																06-Jul-18	1863.6	44727.0
Week 2	36.9	48.0		0.0	1.1	0	0.00	0.00	24	0.9	0.0	0.3	No Data	0.1	1.1	07-Jul-18	1787.6	42902.0
																08-Jul-18	1847.0	44327.0
																09-Jul-18	1809.3	43424.0
																10-Jul-18	2084.3	50023.0
																11-Jul-18	1974.7	47393.0
																12-Jul-18	1561.9	37485.0
Week 3	42.9	26.0		0.0	0.1	0	0.00	0.00	52	3.2	0.0	1.3	No Data	0.0	0.2	13-Jul-18	1472.7	35344.0
																14-Jul-18	1356.2	32549.0
																15-Jul-18	957.8	22987.0
																16-Jul-18	716.0	17184.0
																17-Jul-18	1166.0	27985.0
																18-Jul-18	881.9	21165.0
Week 4	94.6	26.0		0.0	1.0	0	0.00	0.01	19	4.3	0.1	0.9	No Data	0.0	0.8	19-Jul-18	378.1	9074.0
																20-Jul-18	211.2	5069.0
																21-Jul-18	238.0	5712.0
																22-Jul-18	105.2	2524.0
																23-Jul-18	240.3	5768.0
																24-Jul-18	639.0	15335.0
Week 5																25-Jul-18	534.8	12836.0
																26-Jul-18	881.2	21149.0
																27-Jul-18	1128.5	27085.0
																28-Jul-18	739.4	17746.0
																29-Jul-18	1241.6	29799.0
																30-Jul-18	1238.0	29712.0
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-Jul-18	610.5	14652
																	1272.9 6000	30548.7 -

A breach was recorded and send rgearding the A+N=N S5N/18/99A

Signed on behalf of the Operator

Dated

19-Oct-2018

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

August-18

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	56.0	30		0.0	0.9	0.00	0.000	0.03	32	0.6	0.0	0.38	No Data	0.0	0.7	01-Aug-18	331.7	7961.0
																02-Aug-18	493.7	11848.0
																03-Aug-18	745.5	17892.0
																04-Aug-18	575.2	13804.0
																05-Aug-18	784.6	18830.0
																06-Aug-18	576.5	13835.0
Week 2	65.1	63.0		0.0	No Data	0.00	0.000	0.00	34	0.9	0.0	0.5	No Data	0.0	1.7	07-Aug-18	505.0	12120.0
																08-Aug-18	658.9	15814.0
																09-Aug-18	285.1	6842.0
																10-Aug-18	464.5	11149.0
																11-Aug-18	388.3	9320.0
																12-Aug-18	849.8	20396.0
Week 3	72.9	11.0		0.0	2.3	0.10	0.000	0.00	23	0.3	0.0	0.2	0.0	0.0	1.5	13-Aug-18	402.8	9666.0
																14-Aug-18	1032.9	24789.0
																15-Aug-18	1316.0	31585.0
																16-Aug-18	1155.2	27724.0
																17-Aug-18	1667.0	40008.0
																18-Aug-18	1132.3	27176.0
Week 4	71.4	80.0		0.0	0.0	0.00	0.010	0.00	20	3.5	0.0	0.4	0.0	0.0	0.0	19-Aug-18	777.5	18659.0
																20-Aug-18	1428.1	34275.0
																21-Aug-18	864.8	20754.0
																22-Aug-18	1787.1	42890.0
																23-Aug-18	1553.9	37293.0
																24-Aug-18	1195.1	28682.0
Week 5																25-Aug-18	1896.3	45511.0
																26-Aug-18	1974.0	47376.0
																27-Aug-18	2721.2	65309.0
																28-Aug-18	5133.6	123206.0
																29-Aug-18	4242.1	101810.0
																30-Aug-18	5705.7	136937.0
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-Aug-18	5531.6	132758
																	1554.1 6000	37297.4 -

Signed on behalf of the Operator

Dated

19-Oct-2018

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

September-18

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	34.6	51		No Data	0.3	0.00	0.000	No Data	19	0.9	0.0	0.4	0.0	No Data	2.9	01-Sep-18	4244.0	101856.0
																02-Sep-18	3416.2	81989.0
																03-Sep-18	4250.5	102011.0
																04-Sep-18	3459.7	83033.0
																05-Sep-18	3045.1	73083.0
																06-Sep-18	2622.7	62945.0
Week 2	31.7	no data		No Data	1.1	0.00	0.010	No Data	19	0.4	0.1	0.2	0.0	No Data	2.7	07-Sep-18	2406.2	57750.0
																08-Sep-18	4047.6	97143.0
																09-Sep-18	3286.2	78869.0
																10-Sep-18	1816.6	43599.0
																11-Sep-18	1435.2	34444.0
																12-Sep-18	2078.5	49883.0
Week 3	31.7	22.0		No Data	1.6	0.00	0.000	No Data	12	0.5	0.0	0.2	0.0	No Data	1.4	13-Sep-18	2162.8	51907.0
																14-Sep-18	1033.3	24799.0
																15-Sep-18	2027.3	48655.0
																16-Sep-18	1696.2	40708.0
																17-Sep-18	1612.0	38688.0
																18-Sep-18	2998.5	71965.0
Week 4	50.3	0.0		No Data	2.6	0.00	No Data	No Data	19	0.5	0.0	0.3	0.0	No Data	3.1	19-Sep-18	2728.4	65483.0
																20-Sep-18	2055.3	49328.0
																21-Sep-18	2052.5	49260.0
																22-Sep-18	1937.2	46492.0
																23-Sep-18	2496.6	59918.0
																24-Sep-18	3274.6	78590.0
Week 5	47.7	No Data		No Data	3.9	0.00	No Data	No Data	5	1.1	0.0	0.25	0.0	No Data	1.01	25-Sep-18	2768.0	66431.0
																26-Sep-18	2567.5	61621.0
																27-Sep-18	1929.7	46312.0
																28-Sep-18	1522.8	36548.0
																29-Sep-18	1998.2	47956.0
																30-Sep-18	2770.8	66499.0
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		2524.7 6000	60592.2 -

Signed on behalf of the Operator

Dated

22-Oct-2018

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the quarter July to Sep-18

Operator: Tata Steel UK Ltd

Release Point: W1

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
Phenol	Max load (kg/day)	8.2	0.0	4.6	350
	Mean load (kg/day)	0.5	0.0	0.2	
	Max conc. (mg/l)	0.2	0.0	0.1	
	Mean conc. (mg/l)	0.0	0.0	0.0	2
Soluble chromium	Max load (kg/day)	2.0	0.2	0.0	
	Mean load (kg/day)	0.2	0.0	0.0	
	Load (kg/mth)	5.62	0.21	0.00	200
	Max conc. (mg/l)	0.40	0.00	0.00	
	Mean conc. (mg/l)	0.02	0.00	0.00	0.2
Soluble lead	Max load (kg/day)	6.36	2.08	4.48	
	Mean load (kg/day)	0.59	0.07	0.15	
	Load (kg/mth)	18.3	2.1	4.5	300
	Max conc. (mg/l)	0.10	0.00	0.13	
	Mean conc. (mg/l)	0.02	0.00	0.00	0.3
Soluble iron	Max load (kg/day)	253.8	217.9	0.0	
	Mean load (kg/day)	20.2	8.3	0.0	
	Max conc. (mg/l)	12.0	4.4	0.0	
	Mean conc. (mg/l)	1.1	0.7	0.0	
Free cyanide	Max load (kg/day)	2.2	2.7	0.0	45
	Mean load (kg/day)	0.1	0.2	0.0	
	Max conc. (mg/l)	0.1	0.1	0.0	
	Mean conc. (mg/l)	0.01	0.01	0.00	0.2
PAH's	Load (kg/mth)	1.1	0.6	0.00	250
	Concentration (mg/l)	0.017	0.011	0.010	1

Signed on behalf of the Operator



Dated 22-Oct-2018

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter July to Sep-18

Operator: Port Talbot

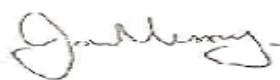
Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Jul	Month Aug	Sep	Limit
Dock Return	Max. monthly conc. of return (mg/l)	19.3	124.0	19.7	20 above background
Suspended solids	Max daily back-ground conc. (mg/l)	16.2	46.0	14.4	
	Mean background conc. (mg/l)	9.7	17.7	10.0	
Dock Flow*	Max daily flowrate (m3/day)	109347	105724	239946	350000
	Mean daily flowrate (m3/day)	62957	65452	141688	
	Max flowrate (m3/hour)	8452	9551	9999	16000
	Mean flowrate (m3/hour)	2627	2732	5925	
Abstracted flows	Max daily abstraction rate (m3/day)	22469	23708	27113	
(Afan docks feeder)	Mean daily abstraction rate (m3/day)	19468	22166	20921	
Dock Return Temperature	Max daily discharge temperature (C)	Inconclusive results			36
	Mean daily discharge temperature (C)				

Signed on behalf of the Operator



Dated 22-Oct-2018

Form I&S W5

Releases to Controlled Waters

Release summary for the quarter July to Sep

Operator: Port Talbot

Release Point: W3 (ABO)

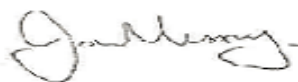
Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	July	Month Aug	Sep	Limit
Suspended solids	Maximum daily* concentration (mg/)	8	46	187	200 (weekly)
	Mean daily concentration (mg/)	8	30	48	
Oil and grease	Maximum daily concentration (mg/)	2	15	18	20 (weekly)
	Mean daily concentration (mg/)	2	9	7	
Number of days of discharge in the month		1	6	15	

* Breaches now reported as weekly averages same as LSO

Signed on behalf of the Operator



Dated 19-Oct-2018

Form I&S W3

Releases to Controlled Waters

Release summary for the quarter July to Sep

Operator: Port Talbot

Release Point: W4

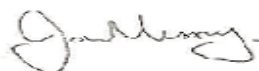
Location: Port Talbot

Permit: BL7108 / RP3730BV

Release Point W4: Spot sample results during storm discharge					
Parameter	Reporting Units	July	Month Aug	Sep	Limit
pH	Max daily	9.5	8.2	9.8	
	Mean daily	9.5	8.2	9.8	
	Min daily	0.0	0.0	0.0	
Suspended solids (mg/l)	Max daily conc.	68.0	95.0	18.0	
	Mean daily conc.	68.0	95.0	18.0	
Total iron (mg/l)	Max daily conc.	0.0	0.0	0.0	
	Mean daily conc.	0.0	0.0	0.0	
Soluble iron (mg/l)	Max daily conc.	0.0	0.0	0.0	
	Mean daily conc.	0.0	0.0	0.0	
Oil and grease (mg/l)	Max daily conc.	0.0	0.0	0.0	
	Mean daily conc.	0.1	0.1	0.1	
Number of days of discharge in the month (daily rainfall > 15 mm).		0	0	0	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
12-Jul-18	68	9.5	0.01	0.01	0.05
28-Aug-18	95	8.2	0.01	0.01	0.05
20-Sep-18	18	9.8	0.01	0.01	0.05

Signed on behalf of the Operator



Dated

22-Oct-2018

Form I&S W4