

Releases to Controlled Waters

Release summary for the month

October-20

Operator: Tata Steel UK Ltd

Release Point:

W1 (LSO)

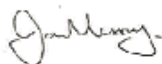
Location: Port Talbot

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	46.0	38.0		0.1	0.4	0.05	0.00	0.050	35	0.8	0.1	0.67	0.1	0.1	4.8	01-Oct-20	1985.8	39594.0
																02-Oct-20	2588.5	33887.0
																03-Oct-20	3035.5	46617.0
																04-Oct-20	2414.8	47267.0
																05-Oct-20	2406.2	55353.0
																06-Oct-20	1271.5	38112.0
Week 2	23.1	51.0		0.1	1.2	0.05	0.01	0.050	12	1.1	0.1	0.7	0.1	0.1	5.1	07-Oct-20	1602.0	61254.0
																08-Oct-20	1662.0	15846.0
																09-Oct-20	1330.2	53750.0
																10-Oct-20	1303.0	59089.0
																11-Oct-20	1435.0	63505.0
																12-Oct-20	2165.1	41299.0
Week 3	28.6	24.0		0.1	1.9	0.05	0.02	0.060	16	0.8	0.2	0.8	0.1	0.1	2.6	13-Oct-20	2790.1	31836.0
																14-Oct-20	2706.3	53808.0
																15-Oct-20	2898.9	36971.0
																16-Oct-20	2819.8	19568.0
																17-Oct-20	2854.1	50875.0
																18-Oct-20	3655.0	50314.0
Week 4	26.6	41.0		0.1	1.3	0.05	0.00	0.050	15	1.0	0.1	0.6	0.1	0.1	3.9	19-Oct-20	3098.3	34835.0
																20-Oct-20	4413.5	23036.0
																21-Oct-20	3465.3	30608.0
																22-Oct-20	4307.5	38996.0
																23-Oct-20	4736.4	35843.0
																24-Oct-20	4139.6	65617.0
Week 5																25-Oct-20	4354.1	45992.0
																26-Oct-20	4010.7	53139.0
																27-Oct-20	4061.0	53701.0
																28-Oct-20	4646.9	77801.0
																29-Oct-20	3270.4	40712.0
																30-Oct-20	1227.0	76463.0
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-Oct-20	2468.4	59242
																	2874.9 6000	46288.1 -

Signed on behalf of the Operator



Dated

31-Jan-2021

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

November-20

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	20.0	19		0.1	0.7	0.06	0.00	0.0	19.4	0.8	0.1	0.3	0.1	0.1	4.0	01-Nov-20	2926.6	77181.0
																02-Nov-20	3318.1	53600.0
																03-Nov-20	3771.1	49505.0
																04-Nov-20	2637.8	2842.0
																05-Nov-20	1939.2	42729.0
																06-Nov-20	2135.4	12855.0
Week 2	23.7	35		0.0	0.8	0.05	0.03	0.1	19.2	1.0	0.1	0.6	0.1	0.1	3.1	07-Nov-20	2857.8	24215.0
																08-Nov-20	3841.5	25710.0
																09-Nov-20	4114.6	25434.0
																10-Nov-20	4187.0	46136.0
																11-Nov-20	3228.5	53858.0
																12-Nov-20	3828.9	59458.0
Week 3	27.1	70		0.1	1.9	0.05	0.00	0.1	23.4	0.6	0.1	0.3	0.1	0.1	2.1	13-Nov-20	4258.8	39381.0
																14-Nov-20	4500.4	46080.0
																15-Nov-20	5225.9	47871.0
																16-Nov-20	3370.0	57621.0
																17-Nov-20	3622.4	13280.0
																18-Nov-20	2984.9	39492.0
Week 4	22.3	57		0.1	1.4	0.05	0.01	0.1	17.2	1.2	0.1	1.3	0.1	0.1	3.2	19-Nov-20	3305.6	63048.0
																20-Nov-20	3250.2	42507.0
																21-Nov-20	3006.7	58238.0
																22-Nov-20	3739.4	37902.0
																23-Nov-20	4184.9	39706.0
																24-Nov-20	4475.7	60109.0
Week 5																25-Nov-20	4020.0	38031.0
																26-Nov-20	4473.9	28762.0
																27-Nov-20	4233.4	24024.0
																28-Nov-20	5660.6	41680.0
																29-Nov-20	5941.6	30961.0
																30-Nov-20	7572.0	45887
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		3887.1	38669.1
																	6000	-

Signed on behalf of the Operator

Dated

31-Jan-2021

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the month

December-20

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	27.1	0		0.1	1.0	0.05	0.04	0.05	19.0	1.2	0.1	1.11	0.05	0.1	3.7	01-Dec-20	1763.6	42327.0
																02-Dec-20	1879.7	45112.5
																03-Dec-20	2023.7	48567.6
																04-Dec-20	2558.7	61408.6
																05-Dec-20	2630.6	63134.9
																06-Dec-20	2433.8	58411.8
Week 2	32.0	29		0.1	0.9	0.05	0	0.05	13.2	2.3	0.1	0.5	0.14	0.1	4.6	07-Dec-20	1942.0	46608.1
																08-Dec-20	1953.9	46893.1
																09-Dec-20	0.0	0.0
																10-Dec-20	0.0	0.0
																11-Dec-20	0.0	0.0
																12-Dec-20	0.0	0.0
Week 3	35.1	24		0.1	3.4	0.07	0	0.09	16.3	3.6	0.0	0.5	0.13	0.0	4.6	13-Dec-20	0.0	0.0
																14-Dec-20	0.0	0.0
																15-Dec-20	0.0	0.0
																16-Dec-20	155.1	3722.8
																17-Dec-20	2336.5	56076.1
																18-Dec-20	1706.9	40965.8
Week 4	36.9	50		0.1	4.0	0.05	0	0.05	17.6	3.1	0.1	0.6	0.06	0.0	5.3	19-Dec-20	1914.7	45952.2
																20-Dec-20	2743.3	65840.3
																21-Dec-20	1884.4	45225.4
																22-Dec-20	2628.6	63086.4
																23-Dec-20	3167.9	76030.2
																24-Dec-20	2724.7	65394.0
Week 5	38.3	76		0.1	1.9	0.06	0.01	0.05	15	1.8	0.1	0.71	0.1	0.1	2.91	25-Dec-20	2689.4	64546.6
																26-Dec-20	2719.6	65271.5
																27-Dec-20	2634.9	63238.4
																28-Dec-20	2558.0	61392.9
																29-Dec-20	3029.1	72698.8
																30-Dec-20	2739.9	65757.4
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-Dec-20	2708.5	65004.39
																	1791.2 6000	42989.2 -

* S5N_20_71A

Signed on behalf of the Operator

Dated

31-Jan-2021

Form I&S W1 Monthly

Releases to Controlled Waters

Release summary for the quarter october to Dec-20

Operator: Tata Steel UK Ltd

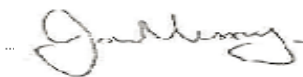
Release Point: W1

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
Phenol	Max load (kg/day)	6.6	12.6	18.5	350
	Mean load (kg/day)	0.2	0.4	0.6	
	Max conc. (mg/l)	0.0	0.0	0.0	
	Mean conc. (mg/l)	0.0	0.0	0.0	2
Soluble chromium	Max load (kg/day)	4.1	0.0	0.6	
	Mean load (kg/day)	0.2	0.0	0.0	
	Load (kg/mth)	7.61	0.00	0.74	200
	Max conc. (mg/l)	0.10	0.00	0.00	
	Mean conc. (mg/l)	0.01	0.00	0.00	0.2
Soluble lead	Max load (kg/day)	0.00	0.00	0.56	
	Mean load (kg/day)	0.00	0.00	0.02	
	Load (kg/mth)	0.0	0.0	0.6	300
	Max conc. (mg/l)	0.00	0.00	0.00	
	Mean conc. (mg/l)	0.00	0.00	0.00	0.3
Soluble iron	Max load (kg/day)	36.8	41.1	16.4	
	Mean load (kg/day)	8.9	6.0	3.6	
	Max conc. (mg/l)	0.7	0.0	0.0	
	Mean conc. (mg/l)	0.2	0.2	0.1	
Free cyanide	Max load (kg/day)	0.0	5.0	30.4	45
	Mean load (kg/day)	0.0	0.2	1.5	
	Max conc. (mg/l)	0.0	0.0	0.0	
	Mean conc. (mg/l)	0.00	0.00	0.03	0.2
PAH's	Load (kg/mth)	12.5	15.6	0.03	250
	Concentration (mg/l)	0.018	0.005	0.004	1

Signed on behalf of the Operator



Dated 21-Jan-2021

Form I&S W1 Quarterly

Releases to Controlled Waters

Release summary for the quarter october to Dec

Operator: Port Talbot

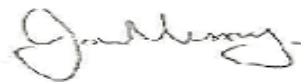
Release Point: W3 (ABO)

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
Suspended solids	Maximum daily* concentration (mg/)	53	40	111	200 (weekly)
	Mean daily concentration (mg/)	16	18	19	
Oil and grease	Maximum daily concentration (mg/)	14	18	19	20 (weekly)
	Mean daily concentration (mg/)	7	8	7	
Number of days of discharge in the month		22	22	31	

Signed on behalf of the Operator



Dated 21-Jan-2021

Form I&S W3

Releases to Controlled Waters

Release summary for the quarter october to Dec

Operator: Port Talbot

Release Point: W4

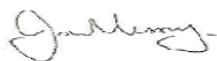
Location: Port Talbot

Permit: BL7108 / RP3730BV

Release Point W4: Spot sample results during storm discharge					
Parameter	Reporting Units	Oct	Month Nov	Dec	Limit
pH	Max daily	9.6	9.1	11.2	
	Mean daily	9.3	8.9	11.2	
	Min daily	8.8	8.7	11.2	
Suspended solids (mg/l)	Max daily conc.	204.0	68.0	82.0	
	Mean daily conc.	49.3	33.0	82.0	
Total iron (mg/l)	Max daily conc.	1.6	6.6	0.1	
	Mean daily conc.	0.3	3.2	0.1	
Soluble iron (mg/l)	Max daily conc.	0.1	0.1	0.1	
	Mean daily conc.	0.1	0.1	0.1	
Oil and grease (mg/l)	Max daily conc.	9.4	2.1	1.8	
	Mean daily conc.	3.8	1.5	1.8	
Number of days of discharge in the month (daily rainfall > 15 mm).		11	5	4	

Date of monthly sample	Suspended solids	pH	Total iron	Soluble iron	Oil and grease
29-Oct-20	204	9.6	1.60	0.10	9.40
23-Nov-20	68	11.2	0.10	0.10	2.10
11-Dec-20	82	11.2	0.10	0.10	1.80

Signed on behalf of the Operator



Dated

21-Jan-2021

Form I&S W4

Releases to Controlled Waters

Release summary for the quarter

October to Dec-20

Operator: Port Talbot

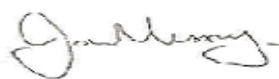
Release Point: W5

Location: Port Talbot

Permit: BL7108

Parameter	Reporting Units	oct	Month Nov	Dec	Limit
Dock Return Suspended solids	Max. monthly conc. of return (mg/l)	9.9	4.3	3.6	20 above background
	Max daily back-ground conc. (mg/l)	8.0	5.2	7.2	
	Mean background conc. (mg/l)	8.0	3.3	5.4	
Dock Flow*	Max daily flowrate (m3/day)	196245	203247	203483	350000
	Mean daily flowrate (m3/day)	176880	124767	198553	
	Max flowrate (m3/hour)	8207	8530	8490	16000
	Mean flowrate (m3/hour)	7382	5566	8284	
Abstracted flows (Afan docks feeder)	Max daily abstraction rate (m3/day)	30086	32091	31774	
	Mean daily abstraction rate (m3/day)	24699	25316	26657	
Dock Return Temperature	Max daily discharge temperature (C)	27	22	24	36
	Mean daily discharge temperature (C)	25	26	21	

Signed on behalf of the Operator



Dated 21-Jan-2021

Form I&S W5

Releases to Controlled Waters

Annual release summary for the year

2020

Operator: Port Talbot

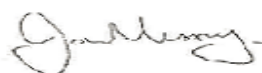
Release Point: W1

Location: Port Talbot

Permit: BL7108

Substance	Annual Release (kg)	Limit (kg)
Suspended solids	433373	2250000
Oil and grease	42747	360000
Free cyanide	72	2700
Ammoniacal nitrogen	176002	400000
Phenol	91	18000
Soluble lead	1	
Soluble chromium	42	
PAH's*	212	
Total iron	16734	
Soluble iron	2127	
Total aluminum	10168	
Total manganese	10586	
Total zinc	12665	
Soluble zinc	8010	

Signed on behalf of the Operator



Dated

21-Jan-2021

Form I&S Annual W1