

Releases to Controlled Waters

Release summary for the month January-15

Operator: Tata Steel UK Ltd

Release Point: W1 (LSO)

Location: Port Talbot

Permit: BL7108

	S.Solids		Oil & grease		Ammonia		Sol Zinc		Flowrate			Temperature		pH		
	Conc. (mg/l)	Load (kg)	Conc. (mg/l)	Load (kg)	Conc. (mg/l)	Load (kg)	Conc. (mg/l)	Load (kg)	Max Hr (m3/hr)	Mean (m3/hr)	Daily (m3)	Max Hr C	Mean C	Max	Min	Mean
01-Jan-15	8	767	3	278	18	1726	0.3	29	2052	3995	95890	16	15	7.8	7.4	7.6
02-Jan-15	14	1347	2	192	17	1635	0.2	19	2542	4008	96202	15	14	7.7	7.4	7.5
03-Jan-15	40	4203	5	483	14	1471	0.2	21	2501	4379	105086	18	14	7.7	7.3	7.6
04-Jan-15	34	3731	4	384	11	1207	0.3	33	3133	4572	109724	21	19	8.3	7.3	7.6
05-Jan-15	30	3481	2	267	10	1160	0.2	23	2594	4834	116023	20	18	8.6	7.7	8.1
06-Jan-15	32	3376	3	306	11	1161	0.1	11	2413	4396	105509	20	17	9.2	7.6	8.2
07-Jan-15	50	5507	4	485	16	1762	0.1	11	2731	4589	110133	12	11	8.4	7.3	7.9
08-Jan-15	40	4275	5	492	15	1603	0.1	11	2231	4453	106867	20	15	8.2	7.2	7.8
09-Jan-15	18	1926	2	214	12	1284	0.2	21	2314	4459	107021	22	18	8.7	7.8	8.3
10-Jan-15	28	3316	3	355	12	1421	0.4	47	2494	4934	118411	18	15	9.4	7.8	8.2
11-Jan-15	0	0	0	0	0	0	0.0	0	2474	5095	122275	12	10	8.5	7.1	7.8
12-Jan-15	38	4488	0	12	15	1772	0.5	59	2408	4922	118118	14	11	7.8	6.9	7.3
13-Jan-15	30	4104	0	14	12	1641	0.3	41	2917	5699	136783	11	10	7.9	7.0	7.5
14-Jan-15	60	7637	8	1006	7	891	0.2	25	2236	5304	127288	22	14	9.2	7.6	8.5
15-Jan-15	32	4418	4	538	14	1933	0.2	28	2265	5752	138059	20	16	8.7	7.5	8.3
16-Jan-15	36	5121	0	14	13	1849	0.2	28	2198	5927	142248	22	20	8.7	7.8	8.2
17-Jan-15	66	8233	2	200	10	1247	0.2	25	2238	5198	124743	19	16	8.6	7.7	8.2
18-Jan-15	52	6783	1	157	15	1957	0.3	39	1880	5435	130444	14	13	8.1	7.6	7.8
19-Jan-15	22	2559	1	140	10	1163	0.5	58	1905	4847	116325	11	10	8.4	8.2	8.3
20-Jan-15	26	3242	0	37	21	2619	0.1	12	1854	5196	124702	9	9	8.3	8.1	8.2
21-Jan-15	70	9406	0	13	10	1344	0.2	27	2074	5599	134365	17	11	8.1	8.0	8.0
22-Jan-15	2	284	2	327	7	995	0.4	57	2303	5920	142077	15	11	8.4	7.9	8.1
23-Jan-15	36	5129	2	214	11	1567	0.1	14	2164	5936	142471	9	8	8.5	7.6	8.1
24-Jan-15	16	2138	1	67	11	1470	0.5	67	2477	5567	133600	10	9	8.6	7.4	7.9
25-Jan-15	2	266	3	346	11	1465	0.6	80	2180	5551	133222	10	9	8.4	7.0	7.8
26-Jan-15	26	3382	1	143	11	1431	1.3	169	2334	5420	130087	9	8	8.4	7.1	7.7
27-Jan-15	30	4146	0	41	14	1935	0.5	69	1982	5759	138208	20	12	7.6	7.0	7.3
28-Jan-15	38	5370	0	28	10	1413	0.3	42	1971	5888	141305	21	20	9.1	6.9	7.6
29-Jan-15	56	8153	0	44	10	1456	0.7	102	1978	6066	145584	21	20	8.5	7.1	8.0
30-Jan-15	64	9880	0	31	8	1235	0.2	31	2598	6432	154376	18	15	8.6	7.4	8.1
31-Jan-15	30	4435	1	207	13	1922	0.0	0	2827	6160	147833	17	13	8.7	7.8	8.2
Mean	33	4229	2	227	12	1475	0.3	39	-	5235	125644	16.2	13.6	-	-	7.9
Month limit	150	-	25	-	27.5	-	2.5	-	-	-	-	-	-	-	-	-
Max	-	9880	-	1006	-	2619	-	169	3133	-	154376	22.3	20.3	9.4	6.9	8.5
Daily limit	-	27500	-	3150	-	4000	-	-	6000	-	-	45.0	40.0	10	6	-
Month total (kg)								1201	Max pH Min pH							
Monthly limit (kg)								2100								

Signed on behalf of the Operator



Dated 26-Feb-2015

Form I&S W1 Monthly

Release summary for the month of

JAN

2015

Operator: Tata Steel UK Ltd

Transfer Points: E1, E2, E9

Location: Port Talbot

Permit: BL7108

Effluent transfer point E1: Coke Ovens BET (No.6 sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	8.9	8.9	8.9	0.0
Suspended Solids	178	28	692	194
Oil & grease	76	15	250	65
Ammoniacal Nitrogen	197	51	295	61
Cyanide	1.1	0.2	2.9	0.6
Monohydric Phenol	3.1	0.1	5.4	2.2

Effluent transfer point E2: Coal stockyards (No.10 sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
Suspended Solids	105	2	650	140
Oil & grease	2	0	15	3

Effluent transfer point E9: Ammonia liquor to BET

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
Ammonical Nitrogen	819	480	1330	228

Signed on behalf of the Operator



Dated 26/02/2015

Form Effluent 1

Release summary for the month of

JAN

2015

Operator: Tata Steel UK Ltd

Transfer Points: E3, E4, E5

Location: Port Talbot

Permit: BL7108

Effluent transfer point E3: Blast Furnace clarification ponds (No.1 sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	7.7	7.3	8.3	0.2
Suspended Solids	30	4	62	13
Oil & grease	1	0	4	1
Soluble Zinc	0.2	0.0	0.4	0.1
Total Zinc	0.6	0.1	1.8	0.4

Effluent transfer point E4: Steel Plant clarification ponds (No.5 sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	9.0	7.5	9.9	0.6
Suspended Solids	259	30	1260	309
Oil & grease	2	0	12	4
Soluble Zinc	0.2	0.0	4.0	0.7
Total Zinc	1.3	0.2	13.9	2.5

Effluent transfer point E5: Concast (Concast sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	7.2	5.4	9.9	0.7
Suspended Solids	72	4	690	137
Oil & grease	4	0	47	8
Soluble Zinc	0.1	0.0	0.2	0.1
Total Zinc	0.2	0.0	0.3	0.1

Signed on behalf of the Operator



Dated 26/02/2015

Form Effluent 2

Release summary for the month of

JAN

2015

Operator: Tata Steel UK Ltd

Transfer Points: E6, E7, E8

Location: Port Talbot

Permit: BL7108

Effluent transfer point E6: Hot rolling mill (HM canals)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	9.8	7.1	76.0	12.1
Suspended Solids	64	11	150	33
Oil & grease	8	3	16	3

Effluent transfer point E7: CAPL effluent treatment plant (CAPL sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	7.0	6.2	7.5	0.3
Suspended Solids	171	44	418	101
Oil & grease	62	3	176	41

Effluent transfer point E8: Cold mill effluent (Final effluent sump)

	Average (mg/l)	Minimum (mg/l)	Maximum (mg/l)	Standard deviation
pH	7.7	5.9	10.3	1.0
Suspended Solids	703	78	4184	748
Oil & grease	33	0	144	38

Signed on behalf of the Operator



Dated 26/02/2015

Form Effluent 3