

STACK MONITORING DATA

EPL 546

EPA Point 4 - Plant 1 – Horsley Park



Date			25/11/2019	23/01/2020	21/04/2020
Analytes	Units	Limits			
Total Solid Particles (TSP)	mg/m ³	100	7	41	17
Coarse Particulates	mg/m ³	N.A	0.59	25	0.41
Fine Particulates (PM10)	mg/m ³	N.A	6.4	17	16
Sulphur Oxides (SOX) SO ₂ +SO ₃	mg/m ³	N.A	112.6	262.2	241.9
Nitrogen Oxides (NOX)	mg/m ³	2000	73	68	79
Hydrogen Fluoride (HF)	mg/m ³	50	85	81	120
Cadmium	mg/m ³	N.A	0.0003	0.0003	<0.0002
Dry Gas Density	kg/m ³	N.A	1.31	1.31	1.31
Fluorine	mg/m ³	N.A	75	77	110
Hydrogen Chloride	mg/m ³	N.A	67	99	93
Hydrogen Sulfide	µg/m ³	N.A	0.01	0.01	0.01
Mercury	mg/m ³	N.A	0.0077	0.0071	0.017
Moisture	%	N.A	5.8	7.2	7.93
Molecular weight of stack gases	g/g-mole	N.A	29.3	29.3	29.30
Oxygen	%	N.A	16.9	15.5	15.6
Sulfuric acid mist (SO ₃)	mg/m ³	N.A	2.6	2.2	1.9
Sulphur dioxide (SO ₂)	mg/m ³	N.A	110	260	240
temperature	degress Celcius	N.A	216	217.00	219.33
Type 1 Substances	mg/m ³	N.A	0.017	0.015	0.024
Type 2 Substances	mg/m ³	N.A	0.037	0.063	0.028
Velocity	m/sec	N.A	13	9.00	11
Volatile Organic Compounds as n-propane equivalent	mg/m ³	N.A	5.9	3.3	4
Volumetric Flow rates	m ³ /sec	N.A	14	9.17	11.33

STACK MONITORING DATA

EPL 546

EPA Point 5 - Plant 2 – Horsley Park

Site not in operation



STACK MONITORING DATA

EPL 546

EPA Point 6 - Plant 3 – Horsley Park (Swindell)



Date			17.12.20	22.1.2020
Analytes	Units	Limits		
Total Solid Particles (TSP)	mg/m ³	100	33	20
Coarse Particulates	mg/m ³	N.A	1.8	1.5
Fine Particulates (PM10)	mg/m ³	N.A	32	18
Sulphur Oxides (SOX) SO ₂ +SO ₃	mg/m ³	N.A	251	98.6
Nitrogen Oxides (NOX)	mg/m ³	2000	66	41
Hydrogen Fluoride (HF)	mg/m ³	50	37	37

STACK MONITORING DATA

EPL 546



EPA Point 7 - Plant 3 Horsley Park (Ceric)

Date			17.12.19-18.12.19	17/2/20-18/2/20	22/04/2020	15/06/2020
Analytes	Units	Limits				
Total Solid Particles (TSP)	mg/m ³	100	27	39	31	52
Coarse Particulates	mg/m ³	N.A	5.5	28	17	25
Fine Particulates (PM10)	mg/m ³	N.A	21	12	13	27
Sulphur Oxides (SOX) SO ₂ +SO ₃	mg/m ³	N.A	171.8	110.2	55.3	132.6
Nitrogen Oxides (NOX)	mg/m ³	2000	110	73	63	98
Hydrogen Fluoride (HF)	mg/m ³	50	22	4.2	2	2.8
Cadmium	mg/m ³	N.A	0.0003	0.0004	0.0005	0.0003
Dioxins and Furans	ng/m ³	N.A	1.1	1.2	0.9	Not required
Dry Gas Density	kg/m ³	N.A	1.31	1.3	1.30	1.31
Fluorine	mg/m ³	N.A	21	3.9	1.9	1.4
Hydrogen Chloride	mg/m ³	N.A	19	51	24	100
Hydrogen Sulfide	µg/m ³	N.A	0.02	0.01	0.0049	0.086
Mercury	mg/m ³	N.A	0.0057	0.0041	0.0056	0.0032
Moisture	%	N.A	6.125	7.53	6.4	6.6
Molecular weight of stack gases	g/g-mole	N.A	29.30	29.2	29.2	29.40
Oxygen	%	N.A	15.3	17	17.2	16.3
Sulfuric acid mist (SO ₃)	mg/m ³	N.A	1.8	0.2	1.3	2.6
Sulphur dioxide (SO ₂)	mg/m ³	N.A	170	110	54	130
temperature	°Celcius	N.A	171.25	192.25	147.5	149.00
Type 1 Substances	mg/m ³	N.A	0.013	0.011	0.016	0.0098
Type 2 Substances	mg/m ³	N.A	0.047	0.038	0.073	0.031
Velocity	m/sec	N.A	19	13	13.25	14.67
Volatile Organic Compounds as n-propane equivalent	mg/m ³	N.A	2.5	0.45	0.61	1.4
Volumetric Flow rates	m ³ /sec	N.A	17.75	17.75	20.25	22.67

STACK MONITORING DATA

EPL 546

