

KLIL - Carmiel. 14 Stacks Test Results. Periodic. 18-19/12/2018.

Stack No.	Stack Gas Parameters Measured	Value	Units	Sampling Time <i>HH:mm</i>	Hazard Sampled	Hazard Instack Conc-n (St-d Cond-s, 0 oC) <i>mg/dscm</i>	Hazard Instack Conc-n (St-d Cond-s, 0 o C, Norm. to O2) <i>mg/dscm</i>	Hazard Emission Rate <i>Kg/Hour</i>	Remarks	Emission Standard (Buisness License)	
										Hazard Instack Conc-n (St-d Cond-s, 0 oC) <i>mg/dscm</i>	Remarks
18/12/2018											
Stack 04. 23867	Temp.	161.6	o C	10:40-11:13	Total Dust	3.42	-----	0.00192		50	-----
	Water Cont-t	7.10	% vol	10:40-11:10	NOx	185.9	-----	0.10433		350	-----
	Gas Velocity	3.83	m/sec	10:45-11:00	CO	21.8	-----	0.01223		170	-----
	Act. Gas Flow	975	acm/Hr		O2 (Measured)	7.44	-----	% vol		-----	-----
	St-d. Gas Flow	561	dscm/Hr		O2 (for Norm-n)	N.R.	-----	% vol		-----	-----
Stack 05. 23869	Temp.	191.2	o C	11:15-11:48	Total Dust	4.05	-----	0.00154		50	-----
	Water Cont-t	6.80	% vol	11:17-11:47	NOX	182.3	-----	0.06924		350	-----
	Gas Velocity	2.44	m/sec	11:25-11:40	CO	45.3	-----	0.01718		170	-----
	Act. Gas Flow	702	acm/Hr		O2 (Measured)	14.81	-----	% vol		-----	-----
	St-d. Gas Flow	380	dscm/Hr		O2 (for Norm-n)	N.R.	-----	% vol		-----	-----
Stack 06. 154022	Temp.	201.4	o C	12:08-12:41	Total Dust	1.79	-----	0.00094		50	-----
	Water Cont-t	9.02	% vol	12:10-12:40	NOX	183.1	-----	0.09588		350	-----
	Gas Velocity	3.52	m/sec	12:15-12:30	CO	21.1	-----	0.01106		170	-----
	Act. Gas Flow	1,014	acm/Hr		O2 (Measured)	11.49	-----	% vol		-----	-----
	St-d. Gas Flow	524	dscm/Hr		O2 (for Norm-n)	N.R.	-----	% vol		-----	-----

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										Hazard Instack Conc-n (St-d Cond-s, 0 oC) <i>mg/dscm</i>	Remarks	
Stack 08. 194638	Temp.	38.0	<i>o C</i>	10:40-11:09	TOC as Carbon	11.21	-----	0.01278		50/20/10	TA-LUFT	
	Water Cont-t	2.92	<i>% vol</i>									
	Gas Velocity	1.57	<i>m/sec</i>									
	Act. Gas Flow	1,345	<i>acm/Hr</i>									
	St-d. Gas Flow	1,139	<i>dscm/Hr</i>									
Stack 09. 23863	Temp.	22.0	<i>o C</i>	11:40-12:13	Vol. Fluorides	1.07	-----	0.00392		5.0	-----	
	Water Cont-t	1.20	<i>% vol</i>	11:40-12:10	SO2	0.95	-----	0.00348		?????	-----	
	Gas Velocity	4.75	<i>m/sec</i>									
	Act. Gas Flow	4,064	<i>acm/Hr</i>									
	St-d. Gas Flow	3,668	<i>dscm/Hr</i>									
Stack 11. 23875	Temp.	266.3	<i>o C</i>	10:40-11:16	Total Dust	2.79	-----	0.01244		?????	-----	
	Water Cont-t	3.93	<i>% vol</i>		SO2	0.28	-----	0.00124	< LOD	?????	-----	
	Gas Velocity	13.13	<i>m/sec</i>	10:40-11:10	NOx	55.9	-----	0.24895		?????	-----	
	Act. Gas Flow	9,276	<i>acm/Hr</i>	10:42-11:11	TOC as Carbon	5.13	-----	0.02284		50/20/10	TA-LUFT	
	St-d. Gas Flow	4,453	<i>dscm/Hr</i>	10:50-11:05	CO	78.4	-----	0.34903		?????	-----	
					O2 (Measured)	18.02	-----	<i>% vol</i>		-----	-----	
					O2 (for Norm-n)	N.R.	-----	<i>% vol</i>		-----	-----	

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										Hazard Instack Conc-n (St-d Cond-s, 0 oC) mg/dscm	Remarks
Stack 12. 23861	Temp.	134.5	o C	09:50-10:22	Total Dust	1.99	3.40	0.00190		50	-----
	Water Cont-t	7.89	% vol	10:00-10:30	NOx	168.1	286.8	0.16025		350	-----
	Gas Velocity	4.52	m/sec	10:05-10:20	CO	17.3	29.4	0.01645		170	-----
	Act. Gas Flow	1,566	acm/Hr		O2 (Measured)	10.41	-----	% vol		-----	-----
	St-d. Gas Flow	954	dscm/Hr		O2 (for Norm-n)	3.0	-----	% vol		-----	-----
Stack 14. 23877	Temp.	47.0	o C	10:00-10:29	TOC as Carbon	14.1	-----	0.01094		50/20/10	TA-LUFT
	Water Cont-t	2.54	% vol								
	Gas Velocity	2.10	m/sec								
	Act. Gas Flow	949	acm/Hr								
	St-d. Gas Flow	778	dscm/Hr								
Stack 22a 194641	Temp.	564.1	o C	12:40-13:12	Total Dust	1.58	1.91	0.00066		50	-----
	Water Cont-t	11.67	% vol	12:40-13:10	NOx	166.7	201.4	0.06931		350	-----
	Gas Velocity	9.78	m/sec	12:55-13:10	CO	23.3	28.1	0.00967		170	-----
	Act. Gas Flow	1,462	acm/Hr		O2 (Measured)	6.08	-----	% vol		-----	-----
	St-d. Gas Flow	416	dscm/Hr		O2 (for Norm-n)	N.R.	-----	% vol		-----	-----
Stack 29. 157071	Temp.	36.8	o C	10:00-10:29	TOC as Carbon	7.49	-----	0.17695		50/20/10	TA-LUFT
	Water Cont-t	1.78	% vol								
	Gas Velocity	18.85	m/sec								
	Act. Gas Flow	27,613	acm/Hr								
	St-d. Gas Flow	23,609	dscm/Hr								

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Stack No.	Stack Gas Parameters Measured	Value	Units	Sampling Time HH:mm	Hazard Sampled	Hazard Instack Conc-n (St-d Cond-s, 0 oC) mg/dscm	Hazard Instack Conc-n (St-d 0 o C, Norm. to O2) mg/dscm	Hazard Emission Rate Kg/Hour	Remarks	Emission Standard (Buisness License)				
										Hazard Instack Conc-n (St-d Cond-s, 0 oC) mg/dscm	Remarks			
17/07/2018														
Stack 17. 23881	Temp.	107.4	o C	08:50-09:46	PM, Metals (Except Mercury), SO2, NOx, CO									
	Water Cont-t	2.88	% vol		Total Dust	2.07	-----	0.002663		?????	-----			
	Gas Velocity	5.68	m/sec		As	0.0145	-----	0.000019	< LOD	0.05	TA-LUFT			
	Act. Gas Flow	1,865	acm/Hr		Cd	0.0029	-----	0.000004	< LOD	0.05	TA-LUFT			
	St-d. Gas Flow	1,289	dscm/Hr		Co	0.0029	-----	0.000004	< LOD	0.50	TA-LUFT			
					Cr	0.0053	-----	0.000007		1.0	TA-LUFT			
					Cu	0.0118	-----	0.000015		1.0	TA-LUFT			
					Mn	0.0178	-----	0.000023		1.0	TA-LUFT			
					Ni	0.0063	-----	0.000008		0.50	TA-LUFT			
					Pb	0.0109	-----	0.000014		0.50	TA-LUFT			
					Sb	0.0145	-----	0.000019	< LOD	1.0	TA-LUFT			
					Se	0.0082	-----	0.000011		0.50	TA-LUFT			
					Sn	0.0145	-----	0.000019	< LOD	1.0	TA-LUFT			
					Te	0.0145	-----	0.000019	< LOD	0.50	TA-LUFT			
					TL	0.0061	-----	0.000008	< LOD	0.05	TA-LUFT			
					V	0.0029	-----	0.000004	< LOD	1.0	TA-LUFT			
				09:30-10:00	SO2	1.52	-----	0.001954		?????	-----			
					NOX	23.9	-----	0.030853		?????	-----			
					CO	142.1	-----	0.183107		-----	-----			
					O2 (Measured)	16.81	-----	% vol		-----	-----			
					O2 (for Norm-n)	N.R.	-----	% vol		-----	-----			
		Temp.	107.1	o C	09:50-10:28	Mercury								
		Water Cont-t	3.03	% vol		Mercury	0.0060	-----	0.0000077	< LOD	0.05	TA-LUFT		
		Gas Velocity	5.67	m/sec										
	Act. Gas Flow	1,863	acm/Hr											
	St-d. Gas Flow	1,287	dscm/Hr											

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										Hazard Instack Conc-n (St-d Cond-s, 0 oC) mg/dscm	Remarks	
Stack 20. 194639	Temp.	49.5	o C	12:40-13:52	PM, Metals (Except Mercury), SO2, NOx, CO							
	Water Cont-t	2.11	% vol		Total Dust	1.65	-----	0.013891	< LOD	?????	-----	
	Gas Velocity	10.06	m/sec		As	0.0148	-----	0.000125	< LOD	0.05	TA-LUFT	
	Act. Gas Flow	10,232	acm/Hr		Cd	0.0030	-----	0.000025	< LOD	0.05	TA-LUFT	
	St-d. Gas Flow	8,420	dscm/Hr		Co	0.0030	-----	0.000025	< LOD	0.50	TA-LUFT	
					Cr	0.0053	-----	0.000045	< LOD	1.0	TA-LUFT	
					Cu	0.0115	-----	0.000097	< LOD	1.0	TA-LUFT	
					Mn	0.2689	-----	0.002264		1.0	TA-LUFT	
					Ni	0.0051	-----	0.000043	< LOD	0.50	TA-LUFT	
					Pb	0.0126	-----	0.000106	< LOD	0.50	TA-LUFT	
					Sb	0.0148	-----	0.000125	< LOD	1.0	TA-LUFT	
					Se	0.0084	-----	0.000071		0.50	TA-LUFT	
					Sn	0.0148	-----	0.000125	< LOD	1.0	TA-LUFT	
					Te	0.0148	-----	0.000125	< LOD	0.50	TA-LUFT	
					TL	0.0063	-----	0.000053	< LOD	0.05	TA-LUFT	
				V	0.0030	-----	0.000025	< LOD	1.0	TA-LUFT		
				13:35-14:05	SO2	0.83	-----	0.006997	< LOD	?????	-----	
					NOX	2.86	-----	0.024064		?????	-----	
					CO	153.5	-----	1.292263		-----	-----	
					O2 (Measured)	20.03	-----	% vol		-----	-----	
					O2 (for Norm-n)	N.R.	-----	% vol		-----	-----	
		Temp.	44.0	o C	13:55-14:43	Mercury						
		Water Cont-t	2.10	% vol		Mercury	0.0061	-----	0.000052	< LOD	0.05	TA-LUFT
		Gas Velocity	10.02	m/sec								
		Act. Gas Flow	10,195	acm/Hr								
	St-d. Gas Flow	8,536	dscm/Hr									

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										<i>Hazard Instack Conc-n (St-d Cond-s, 0 oC) mg/dscm</i>	<i>Remarks</i>
Stack 18 23883	Temp.	104.7	<i>o C</i>	15:20-15:53	Total Dust	4.18	-----	0.00491		50	-----
	Water Cont-t	5.82	<i>% vol</i>	15:20-15:50	NOX	16.6	-----	0.01046		350	-----
	Gas Velocity	5.27	<i>m/sec</i>		CO	94.8	-----	0.05964		170	-----
	Act. Gas Flow	931	<i>acm/Hr</i>		O2 (Measured)	17.17	-----	<i>% vol</i>		-----	-----
	St-d. Gas Flow	629	<i>dscm/Hr</i>		O2 (for Norm-n)	N.R.	-----	<i>% vol</i>		-----	-----
Stack 21a 194640	Temp.	566.0	<i>o C</i>	11:05-11:37	Total Dust	7.67	-----	0.00720		50	-----
	Water Cont-t	8.70	<i>% vol</i>	11:10-11:40	NOX	133.3	-----	0.03546		350	-----
	Gas Velocity	7.98	<i>m/sec</i>		CO	5.87	-----	0.00156		170	-----
	Act. Gas Flow	902	<i>acm/Hr</i>		O2 (Measured)	9.38	-----	<i>% vol</i>		-----	-----
	St-d. Gas Flow	266	<i>dscm/Hr</i>		O2 (for Norm-n)	N.R.	-----	<i>% vol</i>		-----	-----

- Remarks:**
- The Concentrations were Calculated at Standard Conditions (Dry Gas, 0 oC, Atmospheric Pressure).
TOC Concentrations were Calculated as Carbon.
Volatile Fluorides Concentration was Calculated as HF.
 - "< LOD" = less than the Limit of Determination.
"< LOQ" = less than the Limit of Quantification.