

Date	Parameter	Assessment Criteria	Unit of Measure	Discharge Point
				TOH F-490
17/12/2019	Normal stack gas flow rate		m ³ /min	Average Result
				60
	Temperature		Degrees Celsius	
				263
	Velocity		m/s	
				7.8
	Moisture		%	
				11
	Dry gas density		kg/m ³	
				1.32
	Molecular weight of stack gases		g/g.mole	
				29.6
	Stack pressure		Kpa	
				102
	Hydrogen Sulfide	5	mg/m ³	<0.5
	Odour		ou	533
	Oxygen		%	8
	Nitrogen Oxides @ stack O ₂		mg/m ³	114
	Nitrogen Oxides @ 3% O ₂	350	mg/m ³	158
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ Stack O ₂		mg/m ³	16
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ 11% O ₂	100	mg/m ³	12
	Total Solid Particulates (TSP) @ Stack O ₂		mg/m ³	30
	Total Solid Particulates (TSP) @ 3% O ₂	50	mg/m ³	42
	Volatile Organic Compounds (expressed as n-propane) @ stack O ₂		mg/m ³	<4.3
	Volatile Organic Compounds (expressed as n-propane) @ 3% O ₂	40	mg/m ³	<5.9

Date	Parameter	Assessment Criteria	Unit of Measure	Discharge Point
				TOH F-490
14/08/2019	Normal stack gas flow rate		m ³ /min	Average Result
				64
	Temperature		Degrees Celsius	
				248
	Velocity		m/s	
				7.7
	Moisture		%	
				8
	Dry gas density		kg/m ³	
				1.32
	Molecular weight of stack gases		g/g.mole	
				29.6
	Stack pressure		Kpa	
				102.9
	Hydrogen Sulfide	5	mg/m ³	<0.5
	Odour		ou	580
	Oxygen		%	7.6
	Nitrogen Oxides @ stack O ₂		mg/m ³	119
	Nitrogen Oxides @ 3% O ₂	350	mg/m ³	160
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ Stack O ₂		mg/m ³	21
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ 11% O ₂	100	mg/m ³	16
	Total Solid Particulates (TSP) @ Stack O ₂		mg/m ³	31
	Total Solid Particulates (TSP) @ 3% O ₂	50	mg/m ³	42
	Volatile Organic Compounds (expressed as n-propane) @ stack O ₂		mg/m ³	<4.2
	Volatile Organic Compounds (expressed as n-propane) @ 3% O ₂	40	mg/m ³	<5.7

Date	Parameter	Assessment Criteria	Unit of Measure	Discharge Point	
				TOH F-490	
				Run 1	Run 2
17/05/2019	Normal stack gas flow rate		m3/min	58	57
	Temperature		Degrees Celsius	275	275
	Velocity		m/s	7.4	7.5
	Moisture		%	9	11
	Dry gas density		kg/m3	1.32	1.32
	Molecular weight of stack gases		g/g.mole	29.5	29.6
	Stack pressure		Kpa	102.9	102.9
	Hydrogen Sulfide	5	mg/m3		
	Odour		ou		
	Oxygen		%	8.9	7.7
	Nitrogen Oxides @ stack O2		mg/m3		
	Nitrogen Oxides @ 3% O2	350	mg/m3		
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ Stack O2		mg/m3		
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ 11% O2	100	mg/m3		
	Total Solid Particulates (TSP) @ Stack O2		mg/m3	30.1	33.8
	Total Solid Particulates (TSP) @ 3% O2	50	mg/m3	45.1	45.8
	Volatile Organic Compounds (expressed as n-propane) @ stack O2		mg/m3		
	Volatile Organic Compounds (expressed as n-propane) @ 3% O2	40	mg/m3		

Date	Parameter	Assessment Criteria	Unit of Measure	Discharge Point
				TOH F-490
				Average Result
8/08/2018	Normal stack gas flow rate		m3/min	94
	Temperature		Degrees Celsius	286
	Velocity		m/s	12
	Moisture		%	8.6
	Dry gas density		kg/m3	1.3
	Molecular weight of stack gases		g/g.mole	29.6
	Stack pressure		Kpa	101.3
	Hydrogen Sulfide	5	mg/m3	<0.5
	Odour		ou	325
	Oxygen		%	8.4
	Nitrogen Oxides @ stack O2		mg/m3	226
	Nitrogen Oxides @ 3% O2	350	mg/m3	324
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ Stack O2		mg/m3	26
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ 11% O2	100	mg/m3	20
	Total Solid Particulates (TSP) @ Stack O2		mg/m3	22.1
	Total Solid Particulates (TSP) @ 3% O2	50	mg/m3	30.8
	Volatile Organic Compounds (expressed as n-propane) @ stack O2		mg/m3	<4.2
	Volatile Organic Compounds (expressed as n-propane) @ 3% O2	40	mg/m3	<6.1

Date	Parameter	Assessment Criteria	Unit of Measure	Discharge Point
				TOH F-490
				Average Result
26/07/2017	Normal stack gas flow rate		m3/min	63
	Temperature		Degrees Celsius	290
	Velocity		m/s	8.1
	Moisture		%	8.2
	Dry gas density		kg/m3	1.32
	Molecular weight of stack gases		g/g.mole	29.6
	Stack pressure		Kpa	101.5
	Hydrogen Sulfide	5	mg/m3	<0.3
	Odour		ou	474
	Oxygen		%	8
	Nitrogen Oxides @ stack O2		mg/m3	237
	Nitrogen Oxides @ 3% O2	350	mg/m3	329
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ Stack O2		mg/m3	15.6
	Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ 11% O2	100	mg/m3	12
	Total Solid Particulates (TSP) @ Stack O2		mg/m3	26.2
	Total Solid Particulates (TSP) @ 3% O2	50	mg/m3	36.4
	Volatile Organic Compounds (expressed as n- propane) @ stack O2		mg/m3	<3.6
	Volatile Organic Compounds (expressed as n- propane) @ 3% O2	40	mg/m3	<4.9