

2020 Q4 INCINERATION REPORT



Stericycle, ULC

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January 26th, 2021

District Manager Ministry of the Environment, Conservation and Parks Halton-Peel District Office 300-4145 North Service Road Burlington, ON L7L 6A3

Dear District Manger,

Re: Stericycle, ULC.

Certificate of Approval for a Waste Disposal Site No. A680324

As required by Condition 52 of the above-mentioned Certificate of Approval, please find attached the incinerator quarterly report for the fourth quarter of 2020.

During October 2020 there were 14 occurrences of the 4-hour CO alarm & 6 occurrences of the 12-hour CO alarm. In November 2020 there were 19 occurrences of the 4-hour CO alarm and 1 occurrence of the 12-hour CO alarm. In December 2020 there were 11 occurrences of the 4-hour CO alarm and 3 occurrences of the 12-hour CO alarm. Stericycle will continue to work with the incinerator operators to further reduce the number of CO alarms.

There was 1 occurrence of the 24-hour NOX alarm in December 2020.

Details on the above noted alarms are available in the body of the attached report.

FOURTH QUARTER 2020 INCINERATOR QUARTERLY REPORT - SUPPLEMENTAL INFORMATION

- The Emergency Bypass stack was used three (3) times during Q4 2020.
- Throughout the quarter, minor issues with either the waste feed or the proper operation of certain pieces of equipment caused alarm conditions. In all cases, the problems were fixed, and normal operations resumed. Corrective actions included adjustments to the waste feed mix and rate and corrective maintenance on affected systems.
- Throughout the fourth quarter of 2020, the incinerator was run by trained Stericycle operators Emilio Perez, Gyasi Krobea, Said M. Said & John Amissiah.
- There were no complaints received regarding the operation of the incinerator during the fourth quarter of 2020.

• Stericycle Inc. operated the incinerator on the following days during the fourth quarter:

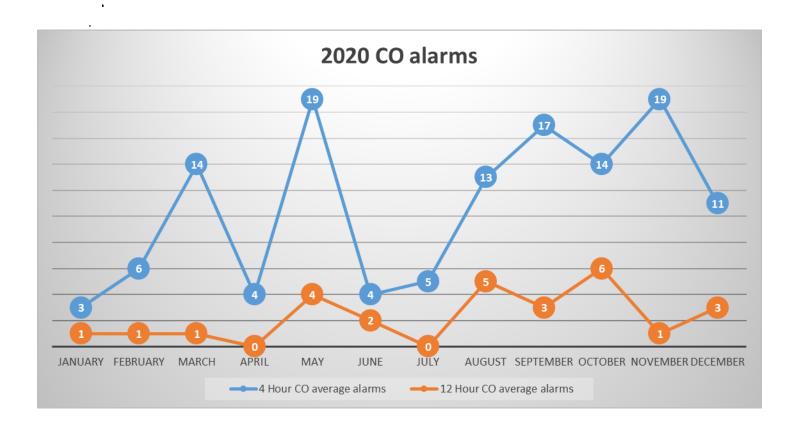
Stericycle file, operated the inclinerator on th	c following days during the fourth quarter.
Start-up	Shut Down
9/24/2020 @ 17:17	9/30/2020 @ 18:58
10/03/2020 @ 17:43	10/05/2020 @ 08:53
10/05/2020 @ 13:00	10/21/2020 @ 18:20
10/21/2020 @ 20:55	10/26/2020 @ 08:58
10/26/2020 @ 12:59	10/29/2020 @ 09:24
10/29/2020 @ 13:25	10/30/2020 @ 10:45
10/30/2020 @ 14:48	11/05/2020 @ 14:13
11/05/2020 @ 19:01	11/22/2020 @ 09:49
11/22/2020 @ 21:49	11/23/2020 @ 20:27
11/25/2020 @ 23:37	12/24/2020 @ 19:02
12/27/2020 @ 05:20	12/31/2020 @ 20:57

During Q4 of 2020 routine maintenance was performed on the incinerator during the scheduled shutdowns.

		Q4	2020 Emei	rgency Bypas	s Summary	
Date	Start Time	End Time	Duration	Emission Volume (m³)	Reason	Corrective Action
10/5/2020	21:45	23:24	1:39	360.94	Sudden failure of the quench tank water supply line caused the operator to shut- down the APC system & open the emergency bypass.	Maintenance repaired the quench tank water supply line. The APC system was restarted and the emergency bypass stack cap was closed.
10/21/2020	17:00	21:00	4:00	875.00	Failure of the quench tower water supply pump caused the ACP system to go into Emergency Bypass to prevent damage to the system and for safety of the workers in the plant.	The incinerator was brought to a controlled shut down. The quench tower water supply pump was replaced by Stericycle's maintenance team. Once the repair was complete, the APC system and the incinerator were restarted.
12/31/2020	21:10	21:12	0:02	7.29	Operator error - TM was shutting down the incinerator and accidentally held the shutdown button causing the incinerator to go off instead of going into a 4 hour shutdown.	After realizing what had happened, TM restarted the machine and proceeded with a proper 4 hour shutdown

CO Alarm Chart Q4 2020

Month	4 Hour CO average alarms	12 Hour CO average alarms
January	3	1
February	6	1
March	14	1
April	4	0
May	19	4
June	4	2
July	5	0
August	13	5
September	17.	3
October	14	6
November	19	1
December	11	3



Stericycle warrants that it has exercised best efforts to adhere to all the applicable Terms & Conditions of its Waste Disposal Site Certificate of Approval including all inspection and reporting requirements through Q4 of 2020.

Stericycle is very committed to the full compliance with all conditions of its Provisional Certificate of Approval, throughout the year, whenever a situation of possible non-compliance was identified; immediate actions were taken to ensure full compliance. Stericycle has mechanisms in place to ensure full compliance at all times. Employees are aware of their responsibilities and are trained appropriately.

Stericycle believes that the current monitoring program is sufficient and enables both Stericycle and the MECP to have a good understanding of the Site operations and to assess its compliance with the Certificate of Approval and all the relevant regulations.

However, Stericycle is very committed to looking for ways to improve its operations through better procedures, training, inspections and monitoring programs and will continue to do so.

I trust that this is the information required and that it meets with your approval. Should you have any questions or require additional information, please do not hesitate to contact me accordingly.

Regards,

Dan Kokol ESH Specialist

Phone: 905-595-8532

Email: dkokol@stericycle.com



October 2020 Incineration Averages Ranges

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Max 15.1 198.4 190.0 1017.4 1075.4 6.6 38.0 51.6 23.1 45.5 7.3 7.1 6.8 42.4 40.9 2.0 Average 11.7 4.4 68.9 903.6 1028.2 6.6 31.0 51.4 20.4 42.7 7.3 6.8 6.8 42.3 40.8 1.1 10/18/2020 Min 8.4 0.0 30.5 673.6 997.4 6.6 28.3 51.1 14.6 39.5 7.2 6.6 6.8 42.1 40.6 1.0 On		Average	11.7	2.5		994.4	1040.6		34.8	51.3	16.4			6.9	6.8	42.2	40.7	1.2	
Average 11.7 4.4 68.9 903.6 1028.2 6.6 31.0 51.4 20.4 42.7 7.3 6.8 6.8 42.3 40.8 1.1 10/18/2020 Min 8.4 0.0 30.5 673.6 997.4 6.6 28.3 51.1 14.6 39.5 7.2 6.6 6.8 42.1 40.6 1.0 On	10/17/2020	Min	9.6			941.9	1015.7	6.6	28.1	49.1	13.5			6.8	6.8	42.0	40.6	1.0	On
10/18/2020 Min 8.4 0.0 30.5 673.6 997.4 6.6 28.3 51.1 14.6 39.5 7.2 6.6 6.8 42.1 40.6 1.0 On		Max	15.1	198.4	190.0	1017.4	1075.4	6.6	38.0	51.6	23.1	45.5	7.3	7.1	6.8	42.4	40.9	2.0	
		Average	11.7	4.4	68.9	903.6	1028.2	6.6	31.0	51.4	20.4	42.7	7.3	6.8	6.8	42.3	40.8	1.1	
Max 15.1 611.6 146.7 1035.1 1100.1 6.6 36.8 51.8 22.8 46.6 7.4 7.0 6.8 42.6 41.0 2.0	10/18/2020	Min	8.4	0.0	30.5	673.6	997.4	6.6	28.3	51.1	14.6	39.5	7.2	6.6	6.8	42.1	40.6	1.0	On
		Max	15.1	611.6	146.7	1035.1	1100.1	6.6	36.8	51.8	22.8	46.6	7.4	7.0	6.8	42.6	41.0	2.0	



October 2020 Incineration Averages Ranges

Т	heDate	OX6min	COmin	NOXmin	PrimTemp°C	SecTemp°C	SNCR	DemTemp°C	CarbTemp°C	DiffTemp°C	IDFanTemp°C	QunchPH	CondPH	AtomPH	AtomA	AtomB	HEPADP	Operating Mode
	Average	11.6	3.2	89.6	978.6	1036.4	6.6	33.7	51.3	17.6	41.5	7.2	6.9	6.8	42.0	40.7	0.8	
10/19/2020	Min	9.3	0.3	26.5	946.5	1016.0	6.6	29.8	51.1	14.5	38.7	7.2	6.7	6.8	41.9	40.6	0.0	On
	Max	14.9	579.2	227.1	994.6	1068.2	6.6	36.8	51.6	21.7	45.4	7.4	7.1	6.8	42.2	40.8	2.0	
	Average	11.5	5.4	91.5	992.3	1044.4	6.6	35.4	51.3	15.9	43.2	7.2	6.9	6.8	41.8	40.6	0.9	
10/20/2020	Min	9.4	0.6	22.7	955.5	1017.7	6.6	31.0	50.9	12.7	40.3	7.2	6.7	6.8	41.7	40.5	0.0	On
	Max	14.0	668.2	203.8	1014.3	1086.8	6.6	38.6	51.5	20.3	45.2	7.3	7.1	6.8	42.0	40.7	1.0	
	Average	13.9	9.0	54.7	956.2	987.0	6.4	38.0	46.5	8.5	37.4	7.3	7.1	6.8	32.3	31.4	0.8	On/Shut-
10/21/2020	Min	10.0	0.9	-1.1	589.7	677.6	5.6	30.8	22.7	-25.0	13.4	7.2	6.7	6.8	0.1	0.0	0.0	down/Start-up
	Max	20.0	569.0	192.0	1064.5	1064.7	6.7	59.4	51.6	20.5	45.7	7.9	8.2	6.8	42.0	40.8	1.0	down/start-up
	Average	17.1	18.3	15.0	446.8	801.8	6.0	36.0	29.7	-6.3	20.8	7.7	8.1	6.9	13.4	13.0	0.3	
10/22/2020	Min	9.0	0.7	-1.1	248.6	578.6	5.6	22.4	19.3	-19.0	12.0	7.2	6.8	6.8	0.0	0.0	0.0	Start-up/On
	Max	20.0	513.5	119.0	787.0	1060.6	6.6	38.7	51.4	25.2	45.5	8.0	9.1	6.9	42.3	41.4	1.0	
	Average	12.0	6.6	53.9	883.9	1039.7	6.8	37.8	51.2	13.3	44.0	7.3	7.0	6.8	41.9	40.6	1.0	
10/23/2020	Min	10.3	0.0	17.3	787.4	1003.6	6.6	32.9	49.7	9.8	41.0	7.2	6.8	6.8	41.1	40.2	0.0	Start-up/On
	Max	16.1	647.3	155.0	974.1	1065.3	7.1	41.5	51.8	18.8	47.3	7.4	7.3	6.9	42.1	40.8	2.0	
	Average	12.6	7.6	46.4	926.0	1037.3	6.6	37.6	51.1	13.5	40.8	7.3	6.9	6.8	39.8	40.1	0.6	
10/24/2020	Min	11.0	2.1	22.2	812.3	1014.0	6.6	32.2	50.8	10.1	37.0	7.2	6.7	6.8	39.4	40.0	0.0	On
	Max	15.0	299.6	119.7	973.7	1064.8	6.8	41.1	51.3	18.7	45.2	7.4	7.0	6.8	41.1	40.4	1.0	
	Average	12.9	5.8	65.9	838.9	1030.5	6.6	35.4	51.1	15.7	42.1	7.3	6.8	6.8	39.8	40.5	0.2	
10/25/2020	Min	10.3	1.8	18.3	770.2	1014.3	6.6	32.7	51.0	9.7	38.8	7.2	6.6	6.8	39.6	40.0	0.0	On
	Max	13.9	616.8	167.2	973.4	1058.5	6.6	41.6	51.4	18.3	45.3	7.4	7.1	6.8	40.1	40.8	1.0	
	Average	12.7	21.6	45.1	737.4	1021.9	6.6	33.9	50.9	16.9	44.9	7.3	6.8	6.8	40.1	40.8	0.1	On/Shut-
10/26/2020	Min	9.4	0.0	0.0	549.5	643.3	6.6	29.5	45.8	8.2	42.8	7.2	6.7	6.8	39.8	40.4	0.0	down/Start-up
	Max	20.0	1117.6	445.2	932.2	1050.5	6.6	39.8	53.4	22.0	48.4	7.4	7.0	6.8	40.5	41.2	1.0	uowii/ Start-up
	Average	13.1	4.2	49.8	864.4	1017.1	6.6	37.8	49.4	11.6	42.3	7.4	7.1	6.8	37.5	37.5	0.6	
10/27/2020	Min	9.0	0.0	-3.3	645.3	550.7	6.6	28.9	31.5	-10.2	13.8	7.2	6.6	6.8	5.2	5.0	0.0	Start-up/On
	Max	20.3	576.9	140.9	978.4	1058.0	6.7	41.7	51.8	23.0	49.1	8.0	8.7	6.9	42.7	41.6	1.0	
	Average	11.8	4.5	43.1	928.8	1037.3	6.6	36.2	51.0	14.8	44.8	7.3	7.0	6.8	42.3	41.6	0.7	
10/28/2020	Min	10.1	0.0	14.9	756.5	965.9	6.6	28.4	50.7	10.2	40.7	7.2	6.7	6.8	40.9	40.4	0.0	On
	Max	16.1	487.7	135.1	1002.8	1064.2	6.6	40.9	51.3	22.8	48.2	7.4	7.2	6.9	43.0	44.7	1.0	
	Average	12.0	27.4	47.5	781.5	1003.3	6.6	33.6	50.7	17.1	42.4	7.2	6.9	6.9	42.5	43.5	0.4	On/Shut-
10/29/2020	Min	5.2	0.0	0.0	326.7	595.7	6.1	28.2	44.5	8.9	22.8	7.1	6.6	6.8	41.8	39.3	0.0	down/Start-
	Max	20.0	2400.2	267.3	1015.7	1083.5	6.8	42.0	51.2	22.6	48.1	7.4	7.2	7.0	43.1	45.0	1.0	up/On
	Average	14.9	7.0	26.6	730.4	734.4	6.4	37.5	41.3	3.7	33.2	7.5	7.3	6.9	28.5	26.7	0.4	Normal/Shut-
10/30/2020	Min	9.6	0.0	-9.9	315.0	106.0	5.9	28.9	13.4	-16.9	3.5	7.2	6.7	6.8	0.1	0.0	0.0	down/Off/Start-
	Max	20.2	2136.6	124.3	957.7	1767.8	6.6	46.6	51.3	20.6	51.3	8.3	8.4	6.9	42.2	39.4	1.0	up
	Average	19.4	7.4	6.4	143.4	109.2	5.8	34.4	22.5	-11.9	10.0	8.3	8.7	6.9	1.3	1.2	0.0	
10/31/2020	Min	12.7	0.0	0.0	64.8	32.9	5.7	27.2	10.2	-22.8	1.0	7.5	7.6	6.9	0.0	0.0	0.0	Start-up
	Max	20.0	393.8	46.9	314.5	800.9	6.3	45.0	43.5	11.0	28.1	8.4	8.9	7.0	29.3	28.2	0.0	

	October 2020 Incineration Feed Data																								
TheDate	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DailySum Comment
10/1/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2020	71.4	507.9	506.1	504.8	502.3	509.7	0	513.9	500.3	509.1	504.2	507	504.1	518.1	406	514.3	503.1	427.7	507	502.5	514.6	267	198.8	0	10000
10/5/2020	471.7	455.7	443.4	515.3	444.2	309.2	305.2	0	0	0	0	0	0	0	0	519	526.7	574.5	570.5	501.8	475.7	431.1	68.2	231.9	6844
10/6/2020	643.9	404.7	554.4	358	506	541.3	229.3	481.2	499	493.8	493.4	497.1	500.4	465.8	469.4	494.2	481.6	490.4	192	506	502.3	0	0	194.3	9999
10/7/2020	510.8	507.1	164.6	502.4	493.1	18	316.3	279.5	0	270.4	500	453.9	493.8	500	301.4	503.9	504.4	506.3	218.9	460.6	492.3	55.2	364.5	500.6	8918
10/8/2020	330	504.7	101	384.7	434.4	506.7	476.3	0	0	501.1	521.2	502.3	513.1	511.9	510.7	518.3	505.6	507	458.8	505.6	592.8	597.4	264.3	251.3	9999
10/9/2020	630.1	513.4	559.9	447.8	323.1	562.1	270	511.7	504.5	501.9	503.5	518.1	510.1	506.6	424.3	515.6	429.5	266.1	514.4	246	317.8	326.6	96.9	0	10000
10/10/2020	609.3	636.8	482.8	288.6	546	516.4	195.7	511.9	481.1	500.9	502.5	502.4	494.8	498.5	495.2	495.8	496.6	416.8	204.3	500	504.4	102.5	0	0	9983
10/11/2020	501.9	500.6	518.4	516.8	507.3	509	207.6	396.1	461.7	486.4	462.6	507	306.7	507.5	471.8	505.8	496	457.4	63.5	502.8	511.9	506.7	0	0	9906
10/12/2020	506.6	504.4	513.7	504.7	503	574.9	232.2	308.2	492.4	480.6	499.8	502.6	483	485.1	448.9	439.6	440	427.9	204.2	504.2	506	0	345.4	81.5	9989
10/13/2020	500.4	510.8	517.8	517.1	506.1	503.8	58.7	502.5	529.7	466.7	500	511.8	452.9	496.5	503.7	502.5	520.4	458.7	423.4	372.4	200	348.8	96.3	0	10001
10/14/2020	462	342.4	542.3	442.7	670	295.9	335.3	64	500.9	0	0	0	0	345.1	503.6	511.9	507.1	401	570.6	502.5	300.4	312.2	69.5	0	7679
10/15/2020	399.3	551.4	557.8	550	400.8	268	316.2	429.4	486.3	499.3	473	475.6	495	484.4	460.8	490	475	424	107.2	508.3	504.5	509.1	100.2	0	9966
10/16/2020	508.4	508.2	519.9	502.8	506.3	508.8	0	449.5	485.2	0	0	0	68.6	0	0	0	153	295.7	256.6	503.3	507.6	395.2	130	507.3	6806 201056
10/17/2020	501.4	508.8	508.5	506.4	510.4	625.2	0	537	509.3	515.6	508	509.2	510.7	507.5	507.2	519.3	480.3	365.6	436.9	282.1	535.5	115	0	0	10000
10/18/2020	509.4	502.8	272.5	522.7	506.5	452.9	0	0	0	0	0	0	0	0	521.3	501.8	520	478.5	516.4	511.2	500.1	506.2	304.3	0	7127
10/19/2020	472.6	379.5	575	455.8	584.9	663.1	370.8	506.7	524.9	502.6	514.4	507.6	510.5	543.1	202.1	377.9	522.2	453.6	432.2	0	0	50.4	41.6	254.3	9446
10/20/2020	500.6	458.3	489.8	422	461.4	499	329	480.2	354.9	490.3	534	485.9	502.1	496.9	456.1	480	472.7	480.8	173.9	501.2	519.6	180.8	206.2	23.6	9999
10/21/2020	506.4	508.4	468.1	551.6	0	503.6	126.8	456.2	484.6	477	493.4	545.4	489.7	472.2	454.3	483.3	483	0	0	0	0	0	0	0	7504
10/22/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	383	465.6	0	0	221	1070
10/23/2020	450.2	488.4	472.7	559.5	481.2	461.2	505.6	522.9	522.7	521.8	508.1	0	506.9	0	0	0	0	0	0	260.1	0	510.7	252.8	124.4	7149
10/24/2020	476.6	277.2	0	660.7	572	126.5	102.8	0	0	0	0	0	463	488.5	483.5	490.1	494.5	501.7	144.2	181.4	0	0	0	0	5463
10/25/2020	6	0	0	0	0	0	0	352.7	494.4	477.1	449.2	478.2	0	0	0	0	0	0	0	0	0	0	0	0	2258
10/26/2020	171.9	303.8	190.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	308.5	0	453.1	0	554.8	198.9	432.5	2614
10/27/2020	489.6	471.5	83	318.4	664.3	114.1	8.6	520.3	163.3	0	0	0	0	0	0	0	0	151.8	110.1	514.5	504.6	507.6	401	171.9	5195
10/28/2020	451.1	665.5	622.8	447.1	634.9	185	230.7	0	0	0	0	0	0	341.6	105.7	516.1	516.2	519.7	541.4	296.1	0	209.5	344.3	312.3	6940
10/29/2020	335	67.5	623	473.1	0	222.8	119.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	531	531.6	2904
10/30/2020	536.2	541.5	534.9	0	184.5	0	167.2	300.7	556.3	477.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3299
10/31/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	October 2020 CEM Calibration Log																
TheDate	COSpanRes	CO Calgas	COSpan%Drift	NOxSpanRes	NOX Calgas	NOxSpan%drift	O2SpanRes	O2 Calgas	O2SpanDrift	COZeroRes	COZero%Drift	NOxZeroRes	NOxZero%Drift	O2ZeroRes	O2 Zerogas	O2ZeroDrift	Comment
10/14/2020 6:49	0	90.4	0	0	750	0	0	8.08	0	0	0	0	0	-0.1	0	0.1	
10/14/2020 6:53	91	90.4	6.00E-02	0	750	0	0	8.08	0	0	0	0	0	0	0	0	
10/14/2020 6:57	0	90.4	0	0	750	0	8.1	8.08	2.00E-02	0	0	0	0	0	0	0	
10/14/2020 7:02	0	90.4	0	756	750	0.6	0	8.08	0	0	0	0	0	0	0	0	
10/26/2020 10:56	0	90.4	0	0	750	0	0	8.08	0	0	0	0	0	0	0	0	
10/26/2020 10:59	89	88.1	9.00E-02	0	750	0	0	8.08	0	0	0	0	0	0	0	0	
10/26/2020 11:03	0	88.1	0	0	750	0	8.3	8.08	0.2200003	0	0	0	0	0	0	0	
10/26/2020 11:20	0	88.1	0	940	776	16.4	0	8.08	0	0	0	0	0	0	0	0	
10/26/2020 11:26	0	88.1	0	779	776	0.3	0	8.08	0	0	0	0	0	0	0	0	

Carbon Monoxide > 8ppm 4 hour alarm



Carbon Monoxide > 8ppm 4 hour alarm

	Start	Stop		Op.	Stack CO	Stack CO		Actions
Date	Time	Time	Duration	Mode	@ 11% O2	as mg/m ³	Explanation	Taken
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
10/7/2020	5:30	12:00	6:30	Normal	8.8	10.2	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
10/14/2020	1:00	5:00	4:00	Normal	8.2	9.5	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
10/15/2020	4:00	9:00	5:00	Normal	9.1	10.5	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
10/16/2020	0:00	5:00	5:00	Normal	8.9	10.3	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
10/18/2020	1:00	12:00	11:00	Normal	8.4	9.7	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
10/20/2020	17:00	2:00	9:00	Normal	8.1	9.3	excess volatile gasses	continued feeding.
								The incinerator was brought to a
								controlled shut down. The
							Failure of the quench tower	quench tower water supply pump
							water supply pump caused the	was replaced by Stericycle's
							ACP system to go into Emergency	maintenance team. Once the
							Bypass to prevent damage to the	repair was complete, the APC
							system and for safety of the	system and the incinerator were
10/21/2020	17:00	21:00	4:00	Normal/Shut-Down	17.2	19.8	workers in the plant.	restarted.
								The operator monitored the CO
								levels and suspended feeding
							High CO level caused by multiple	waste untilt he CO levels
							small CO spikes in the previous	returned to the normal operating
10/24/2020	2:00	6:00	4:00	Normal	13.1	15.1	hours.	range.

Carbon Monoxide > 8ppm 4 hour alarm

								The operator monitored the CO
								levels and suspended feeding
								waste untilt he CO levels
								returned to the normal operating
10/24/2020	19:00	:00 23:00	4:00	Normal	14.6	16.8	Pile of waste fell into ash pit	
10/24/2020	19:00	23:00	4:00	NOTITIAL	14.0	10.8	Pile of waste fell lifto asif pit	The operator monitored the CO
							High CO levels across discountibles	· '
							High CO levels caused by multiple	
							CO spikes between 11:00 & 12:00	
							· ·	returned to the normal operating
10/25/2020	11:30	:30 15:30	4:00	Normal	19.1	22.0	the incinerator.	range.
							Fire Door failure prevented	The incinerator was brought to a
							sealing of primary chamber and	controlled shut-down. No waste
10/26/2020	5:00	:00 9:00	4:00	Normal	120.7	139.3	ability to maintain draft.	was fed during this period.
								The operator monitored the CO
								levels and suspended feeding
								waste untilt he CO levels
								returned to the normal operating
10/28/2020	5:00	:00 10:00	5:00	Normal	14.2	16.4	Pile of waste fell into ash pit	range.
								The operator monitored the CO
								levels and suspended feeding
								waste untilt he CO levels
								returned to the normal operating
10/29/2020	0:30	:30 6:30	6:00	Normal	12.3	14.2	Pile of waste fell into ash pit	range.
							High CO average caused by CO	No waste was fed during this
								period. The incinerator was
							1 .	l'
10/30/2020	11:00	:00 15:00	4:00	Normal	31	35.8	controlled shut-down.	down.
			3,00				High CO average caused by CO spikes that occurred as the internal rams cycled during the	waste untilt he CO levels returned to the normal operating range. No waste was fed during this period. The incinerator was brought to a controlled shut-

Carbon Monoxide > 8ppm 12 hour alarm



Carbon Monoxide > 8ppm 12 hour alarm

	Start	Stop		Op.	Stack CO	Stack CO		Actions
Date	Time	Time	Duration	Mode	@ 11% O2	as mg/m ³	Explanation	Taken
							High CO level occurred due to	
							two (2) CO spikes that lasted 1	No waste was fed during this
10/21/2020	4:00	5:00	1:00	normal	8.04	9.3	minute each.	time.
								Maitenance adjusted the draft
							High CO level caused by CO	settings, no waste was fed during
10/23/2020	13:00	17:00	4:00	normal	9.5	11.0	spikes during start-up.	this period.
								The operator monitored the CO
								levels and suspended feeding
							High CO level caused by multiple	waste untilt he CO levels
							small CO spikes in the previous	returned to the normal operating
10/24/2020	7:00	10:00	3:00	normal	8.47	9.8	hours.	range.
								The operator monitored the CO
							High CO levels caused by	levels and suspended feeding
							multiple CO spikes between	waste untilt he CO levels
							11:00 & 12:00 caused by volitile	returned to the normal operating
10/25/2020	12:00	0:00	12:00	normal	8.6	9.9	waste fed into the incinerator.	range.
							Fire Door failure prevented	The incinerator was brought to a
							sealing of primary chamber and	controlled shut-down. No waste
10/26/2020	5:00	13:00	8:00	Normal/Shut-down	42.6	49.2	ability to maintain draft.	was fed during this period.
							High CO average caused by CO	No waste was fed during this
							spikes that occurred as the	period. The incinerator was
							internal rams cycled during the	brought to a controlled shut-
10/30/2020	11:00	15:00	4:00	Shut-Down	12.33	14.2	controlled shut-down.	down.



Secondary Chamber Temperature < 1000°C

Date	Start Time	Stop Time	Duration	Op. Mode	Temp. °C	Explanation	Actions Taken
							The incinerator was brought to a
							controlled shut down. The
						Failure of the quench tower	quench tower water supply
						water supply pump caused the	pump was replaced by
						ACP system to go into Emergency	Stericycle's maintenance team.
						Bypass to prevent damage to the	Once the repair was complete,
						system and for safety of the	the APC system and the
10/21/2020	18:52	20:53	2:01	Shut-Down	926	workers in the plant.	incinerator were restarted.
						Machine was having difficulty	
10/26/2020	3:03	3:38	0:35	Normal	986	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
10/26/2020	3:58	5:02	1:04	Normal	832	maintaining upper temp	Upper burner setpoint adjusted

Quench pH out of Range (<6.4pH / >10.4pH)



Quench pH out of Range (<6.4pH / >10.4pH)

	Start	Stop		Op.	Quench		Action
Date	Time	Time	Duration	Mode	рН	Explanation	Taken
						Anti syphon valve failed allowing	
						caustic to slowly siphon into	
10/5/2020	6:38	8:54	2:16	Normal	11.13	quench tank	Replaced valve



Atomizer Amps < 36

	Start	Stop		Op.	Atom. A	Atom. B		Action
Date	Time	Time	Duration	Mode	amps	amps	Explanation	Taken
							Failure of the quench tower	The incinerator was brought to a controlled
							water supply pump caused the	shut down. The quench tower water supply
							ACP system to go into Emergency	pump was replaced by Stericycle's
							Bypass to prevent damage to the	maintenance team. Once the repair was
				Normal/Shut-			system and for safety of the	complete, the APC system and the
10/21/2020	17:01:00	20:57:00	3:56:00	down	0.3	0.2	workers in the plant.	incinerator were restarted.

Differential from Demister < 10 C



Differential from Demister < 10°C

	Start	Stop		Op.	Differential Temp		Actions
Date	Time	Time	Duration	Mode	Outlet °C	Explanation	Taken
							The incinerator was brought to a
							controlled shut down. The
						Failure of the quench tower	quench tower water supply
						water supply pump caused the	pump was replaced by
						ACP system to go into Emergency	Stericycle's maintenance team.
						Bypass to prevent damage to the	Once the repair was complete,
				Normal/Shut-		system and for safety of the	the APC system and the
10/21/2020	17:26	20:57	3:31	Down	-13	workers in the plant.	incinerator were restarted.



November 2020 Incineration Averages Ranges

Т	TheDate	OX6min	COmin	NOXmin	PrimTemp°C	SecTemp°C	SNCR	DemTemp°C	CarbTemp°C	DiffTemp°C	IDFanTemp°C	QunchPH	CondPH	AtomPH	AtomA	AtomB	HEPADP	Op Mode
	Average	10.9	1.9	50.5	741.6	981.0	6.6	33.3	50.8	17.5	43.0	7.3	6.8	6.8	42.5	41.4	0.1	
11/1/2020	Min	4.2	0.0	14.0	191.5	801.4	6.3	30.4	43.7	6.9	28.3	7.2	6.6	6.8	29.6	28.4	0.0	Start-up/On
	Max	13.2	535.2	120.0	1043.9	1067.6	6.6	36.8	51.3	19.8	44.9	7.5	7.6	6.9	43.0	41.8	1.0	†
	Average	10.7	1.2	55.8	1011.4	1036.6	6.6	34.1	51.1	17.0	43.9	7.2	6.8	6.8	42.9	41.8	0.3	
11/2/2020	Min	8.1	0.0	13.3	983.6	1017.8	6.6	31.1	50.8	9.0	41.7	7.2	6.7	6.8	42.8	41.6	0.0	On
,_,	Max	12.5	570.5	114.2	1046.6	1169.8	6.6	42.0	51.3	20.1	48.3	7.2	7.0	6.9	43.1	42.0	1.0	1 "
	Average	11.0	0.4	48.0	977.1	1029.1	6.6	34.2	51.2	17.0	44.7	7.1	6.8	6.8	42.8	41.6	0.3	
11/3/2020	Min	8.3	0.0	19.1	836.0	1015.9	6.6	30.6	50.9	9.6	42.2	5.5	5.7	6.7	42.7	41.5	0.0	On
11,3,2020	Max	14.5	43.3	102.1	1048.5	1098.4	6.6	41.6	51.4	20.6	48.5	8.0	7.1	6.8	43.0	41.8	1.0	- 0"
		10.5	2.9	60.4	994.1	1032.5	6.6	34.9	51.4	16.5	45.3	8.1	6.7	6.8	42.8	41.5	0.6	
11/4/2020	Average Min	7.6	0.0	0.0	968.8	1032.3	6.6	29.7	51.3	12.6	43.1	7.8	6.6	6.8	42.8	41.0	0.0	On
11/4/2020	Max	14.2	622.6	159.7	1017.7	1124.0	6.6	38.9	51.6	21.8	47.0	8.4	6.9	6.8	42.7	41.8	1.0	- 0"
		11.6			954.3	1004.2		31.9	51.6	19.3	44.8	7.7	6.9	6.8	42.9	41.4	0.5	On/Shut-
11/5/2020	Average		10.4	41.4			6.6											- 1 '
11/5/2020	Min	6.6	0.0	0.0	745.3	531.5	6.6	27.8	50.3	14.2	43.2	7.3	6.7	6.8	42.7	41.0	0.0	down/Off/Sta
	Max	20.4	3527.7	150.7	1049.1	1090.1	6.6	37.1	51.5	23.5	47.1	8.2	7.3	6.8	43.1	41.7	1.0	rt-up/On
44 /5 /2022	Average	10.6	3.8	76.1	980.1	1027.7	6.6	32.0	51.2	19.2	45.0	7.5	6.7	6.8	42.7	41.5	1.0	-
11/6/2020	Min	7.5	0.0	8.2	779.8	1015.3	6.6	28.4	51.0	13.7	43.2	7.3	6.6	6.8	42.6	41.4	1.0	On
	Max	14.9	566.8	171.3	1049.3	1073.3	6.6	37.4	51.3	22.7	47.3	7.8	7.0	6.9	43.0	41.7	1.0	
44 (= 1	Average	10.7	3.6	42.6	1007.9	1031.7	6.6	31.1	51.1	20.1	44.7	7.7	6.8	6.8	42.7	41.6	1.0	<u> </u>
11/7/2020	Min	7.6	0.0	8.1	927.6	1015.5	6.6	26.5	50.5	12.7	43.0	7.3	6.6	6.8	42.6	41.5	1.0	On
	Max	14.3	538.7	180.5	1058.2	1108.4	6.6	38.7	51.4	24.2	48.7	8.2	6.9	6.9	42.9	41.6	1.0	
	Average	10.7	1.4	29.0	983.9	1026.4	6.6	30.4	51.1	20.7	44.8	8.1	6.8	6.9	42.6	41.5	1.1	
11/8/2020	Min	7.3	0.0	-2.2	893.4	1015.4	6.6	27.2	50.8	12.2	42.8	7.6	6.7	6.8	42.3	41.3	1.0	On
	Max	20.0	376.9	179.0	1027.8	1078.6	6.6	39.1	51.5	23.7	49.4	8.4	6.9	6.9	42.8	41.7	2.0	
	Average	11.0	1.7	73.7	1011.3	1037.0	6.6	34.4	51.1	16.7	43.3	8.0	7.3	6.9	42.6	41.5	0.6	
11/9/2020	Min	7.8	0.0	0.0	895.7	1017.4	6.6	27.4	50.8	10.2	39.4	7.6	6.7	6.8	42.5	41.3	0.0	On
	Max	14.8	265.7	346.6	1056.9	1129.2	6.6	40.9	51.5	23.6	46.5	8.4	7.9	6.9	42.7	41.7	2.0	
	Average	11.4	5.9	37.3	1009.3	1025.7	6.6	36.2	51.6	15.3	42.3	7.7	7.9	6.8	42.6	41.4	0.0	
11/10/2020	Min	8.9	0.0	11.5	917.8	1015.0	6.6	32.9	51.2	8.5	39.2	7.4	7.9	6.8	42.4	41.2	0.0	On
	Max	14.7	600.2	129.4	1052.4	1077.7	6.9	42.8	52.0	18.6	45.1	8.2	8.1	6.9	42.7	41.6	0.0	
	Average	11.5	4.6	37.5	962.1	1022.7	6.6	37.8	52.0	14.1	45.4	7.9	8.3	6.8	42.7	41.2	0.0	
11/11/2020	Min	7.4	0.0	0.2	819.3	1000.1	6.6	34.5	51.0	9.0	42.1	7.4	8.1	6.8	42.4	40.9	0.0	On
	Max	14.7	564.7	344.6	1046.3	1049.4	6.6	43.2	52.5	17.2	49.6	8.5	8.9	6.8	43.2	41.7	0.0	
	Average	11.3	4.5	53.0	995.7	1025.0	6.6	40.6	52.0	11.4	46.0	7.8	9.0	6.8	42.8	42.2	0.0	
11/12/2020	Min	7.4	0.0	0.2	811.5	1000.1	6.6	34.1	48.5	5.8	42.1	7.4	8.1	6.7	42.4	40.9	0.0	On
	Max	15.0	564.7	344.6	1072.3	1073.7	6.6	45.4	53.1	18.5	49.6	8.5	9.0	6.8	43.5	45.0	0.0	
	Average	11.1	4.1	73.0	1002.7	1027.0	6.6	38.1	52.1	14.0	45.0	7.8	9.0	6.8	42.7	45.1	0.0	
11/13/2020	Min	8.7	0.7	17.1	963.2	1012.9	6.6	31.0	51.4	8.3	41.0	7.5	9.0	6.8	42.5	44.9	0.0	On
	Max	15.0	547.6	180.8	1058.4	1078.6	6.6	44.2	52.8	20.6	49.4	8.1	9.1	6.9	43.0	45.5	0.0	1
	Average	11.0	3.7	46.9	992.7	1022.1	6.6	36.1	52.0	15.8	45.5	7.7	9.1	6.8	42.7	44.9	0.0	
11/14/2020	Min	8.2	0.9	16.9	832.6	980.2	6.6	33.0	51.4	11.8	43.2	7.5	9.1	6.8	42.5	42.8	0.0	On
	Max	15.9	363.7	110.6	1050.3	1042.8	6.6	40.4	52.3	18.8	47.5	8.3	9.2	6.9	42.9	45.3	0.0	
	Average	10.6	2.9	62.9	1043.2	1027.0	6.6	40.6	52.4	11.8	47.3	7.4	9.3	6.8	42.9	42.2	0.0	
11/15/2020	Min	8.7	0.0	17.5	994.0	1015.6	6.6	35.7	51.7	7.6	44.1	7.3	9.2	6.8	42.7	41.8	0.0	On
, ==, ====	Max	14.4	435.3	142.7	1064.9	1079.7	6.6	45.6	53.9	16.6	50.8	7.5	9.3	6.8	43.1	42.8	0.0	1
	Average	11.5	3.3	64.7	926.9	1022.0	6.4	40.6	51.9	11.3	46.5	7.7	9.3	6.8	42.8	42.1	0.1	
11/16/2020	Min	7.2	0.8	26.7	770.6	992.7	6.0	33.6	50.9	5.9	42.4	7.7	9.2	6.8	42.6	41.8	0.1	On
,,,	Max	14.6	532.0	131.5	1060.8	1067.3	6.6	47.2	53.6	18.2	50.8	8.1	9.3	6.8	43.1	42.5	1.0	- 5"
	Average	10.7	4.8	83.8	1058.0	1030.2	6.0	39.6	52.1	12.6	46.9	7.5	9.1	6.8	42.6	42.4	0.2	
11/17/2020		8.5	0.0	-0.1	1031.2	1030.2	5.6	32.9	51.6	6.0	46.9	7.3	8.9	6.8	41.4	41.7	0.2	On
11/1//2020	Min Max	13.8	539.0	308.7	1031.2	1001.3	6.0	46.8	51.6	18.9	42.4 52.0	7.3	9.2	6.8	41.4	41.7	1.0	┧ ""
11/10/2020	Average	11.5	6.1	60.8	1021.2	1025.6	5.5	37.7	52.6	14.9	46.3	7.4	8.8	6.8	42.0	43.2	0.3	-
11/18/2020	Min	8.2	0.0	24.6	812.4	988.9	5.5	31.3	51.5	8.1	42.1	7.3	8.7	6.8	41.4	42.3	0.0	On
	Max	15.5	714.1	281.9	1083.6	1067.6	5.6	44.8	54.4	20.6	51.6	7.8	8.9	6.9	42.1	43.6	1.0	
44/40/222	Average	11.1	2.5	45.2	886.7	1016.7	5.5	39.6	51.8	12.2	47.6	7.6	8.7	6.8	42.1	43.5	0.5	4 -
11/19/2020	Min	7.9	0.0	17.7	768.4	977.7	5.5	34.1	50.0	6.1	44.2	7.3	8.6	6.8	42.0	43.2	0.0	On
	Max	14.1	510.8	118.5	1018.1	1057.9	5.5	44.0	53.4	18.2	50.1	7.9	8.7	6.9	42.2	43.8	1.0	1



November 2020 Incineration Averages Ranges

Т	heDate	OX6min	COmin	NOXmin	PrimTemp°C	SecTemp°C	SNCR	DemTemp°C	CarbTemp°C	DiffTemp°C	IDFanTemp°C	QunchPH	CondPH	AtomPH	AtomA	AtomB	HEPADP	Op Mode
	Average	10.4	6.1	56.8	993.6	1027.8	5.5	40.0	53.2	13.2	48.5	7.5	8.6	6.9	42.1	43.4	0.1	
11/20/2020	Min	6.4	0.0	11.6	855.2	1015.7	5.5	33.6	51.0	8.8	43.8	7.4	8.6	6.8	42.0	43.3	0.0	On
	Max	14.1	520.6	161.7	1070.1	1071.7	5.7	47.0	56.2	18.3	53.5	7.9	8.6	6.9	42.3	43.6	1.0	
	Average	11.9	1.8	41.0	910.1	1017.8	5.5	45.0	54.7	9.7	50.9	7.7	8.6	6.8	41.9	43.2	0.4	
11/21/2020	Min	7.7	0.0	10.9	786.8	995.8	5.5	35.1	51.0	6.0	44.3	7.4	8.6	6.8	41.6	42.9	0.0	On
	Max	14.5	597.7	341.5	1086.5	1046.0	5.5	52.4	58.5	16.3	56.3	8.1	8.7	6.9	42.1	43.5	1.0	
	Average	11.5	0.0	95.0	621.9	642.0	5.4	40.4	48.9	8.5	43.1	9.0	8.8	6.8	38.3	39.1	0.2	On/Shut-
11/22/2020	Min	11.5	0.0	95.0	246.6	41.1	5.1	16.1	20.6	-44.4	20.1	7.6	8.7	6.8	0.1	0.0	0.0	down/Off/Sta
	Max	11.5	0.0	95.0	873.7	1030.2	5.5	65.6	57.0	25.3	53.2	11.6	9.1	6.9	43.1	43.5	1.0	rt-up
	Average	11.5	0.0	95.0	92.8	28.8	5.5	48.8	18.5	-30.2	17.0	9.0	9.3	6.9	0.1	0.0	0.0	Start-up/Shut-
11/23/2020	Min	11.5	0.0	95.0	46.1	25.0	5.2	28.9	17.5	-48.6	15.2	2.4	9.1	6.9	0.0	0.0	0.0	down
	Max	11.5	0.0	95.0	246.3	41.1	5.8	68.2	20.6	-10.6	20.7	11.6	9.5	7.0	0.1	0.0	0.0	down
	Average	11.5	0.0	95.0	32.6	23.1	5.9	28.8	16.9	-11.9	16.3	1.9	9.6	6.9	0.0	0.0	0.0	Shut-
11/24/2020	Min	11.5	0.0	95.0	24.3	20.1	5.8	26.3	16.1	-15.5	15.7	1.2	9.5	6.8	0.0	0.0	0.0	down/Off
	Max	11.5	0.0	95.0	46.1	27.2	5.9	33.8	18.6	-9.9	17.3	2.5	9.7	6.9	0.1	0.0	0.0	downyon
	Average	11.5	0.0	95.0	21.9	22.6	6.0	30.4	16.3	-14.1	15.1	1.1	9.7	6.8	0.0	0.0	0.0	
11/25/2020	Min	11.5	0.0	95.0	20.5	19.4	5.9	26.9	14.7	-16.1	12.9	1.1	9.7	2.3	0.0	0.0	0.0	Off/Start-up
	Max	11.5	0.0	95.0	25.4	469.0	6.0	32.1	17.2	-10.2	16.6	1.2	9.8	7.0	0.1	0.0	0.0	
	Average	11.4	2.4	79.0	358.8	840.3	6.0	24.3	24.6	0.3	18.2	3.0	9.4	1.9	11.1	11.6	0.0	Off/Start-
11/26/2020	Min	8.0	0.0	14.4	25.9	477.0	5.5	17.0	13.7	-15.1	10.3	1.0	7.0	0.0	0.0	0.0	0.0	up/On
	Max	14.5	662.2	102.6	796.9	1062.8	6.0	34.0	51.2	23.7	37.7	8.7	11.4	6.9	40.9	43.0	0.0	ир/оп
	Average	12.5	5.2	49.1	932.4	1022.2	6.0	31.7	50.6	19.0	39.0	7.5	6.9	6.9	40.7	42.4	0.1	
11/27/2020	Min	9.2	0.0	-0.1	683.9	960.4	6.0	26.7	50.2	8.4	37.4	7.2	6.8	6.9	40.6	42.3	0.0	ON
	Max	15.6	714.6	348.0	1035.0	1119.6	6.1	42.6	51.4	23.6	43.3	8.0	7.1	6.9	40.8	42.6	1.0	
	Average	12.7	4.7	51.9	906.2	1009.2	6.0	31.7	51.0	19.3	41.2	7.3	6.9	6.9	40.8	42.3	0.0	
11/28/2020	Min	9.4	0.0	21.0	702.0	923.3	6.0	28.2	50.4	15.4	39.4	7.2	6.7	6.8	40.7	42.0	0.0	ON
	Max	16.1	603.5	296.6	1082.1	1079.6	6.0	35.8	51.4	22.4	42.9	7.3	7.2	6.9	40.9	42.5	0.0	
	Average	11.9	4.2	56.8	1062.7	1028.2	6.0	29.7	50.6	20.8	41.2	7.2	6.8	6.9	40.8	42.3	0.3	
11/29/2020	Min	9.6	0.0	22.0	948.4	988.7	6.0	27.2	50.0	17.4	39.9	7.2	6.6	6.9	40.7	42.2	0.0	ON
	Max	15.8	508.4	326.2	1124.7	1064.2	6.0	33.5	51.0	23.1	43.2	7.3	7.0	6.9	40.9	42.5	1.0	
	Average	11.9	3.5	74.0	1055.6	1028.3	6.0	30.4	50.6	20.2	41.0	7.3	6.7	6.9	40.6	42.1	1.0	
11/30/2020	Min	8.8	0.0	33.6	908.7	957.3	6.0	28.6	50.3	18.0	40.2	7.2	6.6	6.9	40.5	42.0	1.0	ON
	Max	15.9	439.9	357.8	1138.4	1076.4	6.0	32.6	50.8	21.9	41.8	7.3	6.9	6.9	40.8	42.3	1.0	

										Nov	embe	r 2020	Incine	rator	Feed I	Data										
TheDate	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DailySum N	Monthly Total
11/1/2020	0	0	0	0	0	0	0	0	517	543.5	537.3	526.9	523.2	534.8	504.3	517	509.5	515.8	508.4	503.8	503.6	272.1	255.1	222.8	7495	
11/2/2020	457.8	511.8	470.6	524.1	347.2	416.6	289.8	507	528.1	506.3	533.3	511	506.5	318.3	519.2	515.8	442.7	107.4	528.4	406.6	466.4	461.3	36.4	0	9913	
11/3/2020	548.2	501.7	552.3	576	425.2	246.8	0	0	414.8	0	0	0	410.6	500.2	502.4	511.4	505.7	490.2	201.2	521.4	525.6	505.7	318.1	532.4	8790	
11/4/2020	523.6	547.7	0	536.2	521.9	575.1	535.5	537.4	499.4	0	513.9	502.9	504.8	453.6	517	565.6	506	506	234	507.2	524.8	0	302	0	9915	
11/5/2020	538.6	529.9	538.7	525.9	545.8	575.1	364.7	436.3	503.4	499.6	515.4	532.5	501.8	199.3	0	0	0	0	0	0	0	0	0	81.5	6889	
11/6/2020	476.7	529.1	528	434.7	550.6	236.4	433.4	517.2	166	242.2	514.6	264.9	160.7	516.9	506.4	501.8	514.7	524.8	506.7	500.3	453.8	558.3	201	158.6	9998	
11/7/2020	437.1	494.9	596	474.6	480.4	537	337	481.8	505.2	495	498.1	498.3	499.4	499.3	624.3	367.3	500.8	500	0	275.3	527.6	101.8	0	206.6	9938	
11/8/2020	530.8	517	0	555.2	266.6	129	437.4	306	500.4	500.2	500.3	605	597	591.8	492.4	493.1	498.9	501.1	0	506.5	0	0	486.3	426.4	9441	
11/9/2020	430.7	531.4	68.5	417	574	263.3	0	244.6	469.4	456.9	482.9	490.1	556.7	541	484.6	485.2	482.9	484.3	108.4	226.9	402.2	214.4	515.8	541.3	9473	
11/10/2020	539.5	561.1	123.6	561.6	571.9	556	267.9	0	0	509.6	532.4	513.4	514.7	507	504	497.9	359	513.7	373.2	306.5	170.7	0	0	0	8484	
11/11/2020	0	360.4	25.8	335.2	0	0	456.4	514.7	525.7	516.9	512.4	506.2	344.1	557.3	540	263.6	504.3	0	204.2	206.8	0	0	0	0	6374	
11/12/2020	0	403	0	557.2	607.8	405	347.8	395.2	0	249.2	434.5	509.7	499.7	499.3	174.6	306.7	310	306.2	275.5	323.7	470.1	151.9	343.1	117	7687	
11/13/2020	201.8	554.2	293.6	588	528.2	0	64.4	498.8	501.4	500	309.4	409.4	501.6	390.7	503	502.2	501.2	502.4	0	572.2	0	19.8	380.4	504.4	8827	
11/14/2020	339	545.3	200.9	241.3	78.7	0	0	595.6	504.2	516.8	515.1	513.4	519.3	516.2	533.9	510.4	552	521.9	534.4	286.8	0	511	106.8	40.2	8683	
11/15/2020	560.3	544.8	96	571.3	563.6	572.1	304.5	0	0	512.1	555	551	511.8	446.1	501.5	535.8	0	110.7	509	559	596.2	0	0	0	8601	209059
11/16/2020	456	454.5	435.3	388.4	504.4	0	0	0	0	0	0	0	0	0	0	0	539.4	507.8	540.6	506.7	505.4	595.4	477.7	0	5912	203033
11/17/2020	670	407.9	531.3	333.4	336.5	453.4	317.4	316	507.6	460.7	642.7	528.2	513.9	478	509	430.6	301.8	60.2	251.5	519.8	509.4	10.6	314.8	216.4	9621	
11/18/2020	505.1	505.4	107.6	507.7	257.4	418.6	103.2	510	512.9	509.2	500	510.7	493	0	0	452	430	567	252.7	119.9	21	113	0	0	7396	
11/19/2020	0	0	0	0	0	155.6	19.5	0	0	185.6	590.8	503	571.9	536.9	505.9	546.7	531	507.9	328.8	511.7	397	508.5	266	0	6667	
11/20/2020	594.5	516.1	300	429.7	458	392.9	0	520.8	534.3	204.6	18	0	164	177.7	561.9	542.1	547.4	465.3	531.8	139.2	141.8	336.4	101.7	0	7678	
11/21/2020	0	0	0	441.3	440.8	0	360.3	0	309.8	365.5	311.2	0	0	0	0	267	0	315.2	0	0	0	0	0	0	2811	
11/22/2020	0	0	0	521.7	506.8	521.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1550	
11/23/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/24/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/25/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/26/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	236.6	395.2	450.1	302.5	1384	
11/27/2020	597.3	617.4	619.9	628.2	526.3	524.4	287.6	507.5	513.1	531.3	152.7	504.2	335.1	508.4	162.7	0	515.2	200.1	0	0	0	0	0	244	7975	
11/28/2020	660.9	634.3	572.1	430.4	506.5	471.8	168.9	507.7	180.1	0	0	0	115	554.8	514.4	143.7	0	31.5	0	510.4	512	517.2	0	530.2	7562	
11/29/2020	541.2	546.6	52.5	497.6	503.2	408.3	0	510.4	535.7	511.5	543.8	532.6	524.7	532.4	523.5	519.4	0	562.3	467.8	524.5	555.4	561.2	44.6	0	9999	
11/30/2020	548.3	521.8	338.9	0	0	595	637.5	615.6	527.3	354.5	508.4	501.4	518.8	504.8	301.9	542.6	503.9	532.7	503.8	552.2	502.8	384.4	0	0	9997	

TheDate	COSpanRes C	O Calgas	COSpan%Drift	NOxSpanRes	NOX Calgas	NOxSpan%drift	O2SpanRes (O2 Calgas	O2SpanDrift	COZeroRes	COZero%Drift	NOxZeroRes	NOxZero%Drift	O2ZeroRes C	2 Zerogas	O2ZeroDrift	Comment
11/4/2020 22:59	88	88.1	1.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/4/2020 23:04	0	88.1	0	762	776	1.4	0	8.08	0	0	0	0	0	0	0	0	
11/4/2020 23:08	0	88.1	0	0	776	0	8.3	8.08	0.2200003	0	0	0	0	0	0	0	
11/8/2020 19:52	88	88.1	1.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/8/2020 19:56	0	88.1	0	-1	776	77.7	0	8.08	0	0	0	0	0	0	0	0	
11/8/2020 22:12	0	88.1	0	404	776	37.2	0	8.08	0	0	0	0	0	0	0	0	
11/8/2020 22:16	0	88.1	0	0	776	0	8.4	8.08	0.3199997	0	0	0	0	0	0	0	
11/9/2020 9:11	0	88.1	0	0	776	0	0	8.08	0	0	0	0	0	0.1	0	0.1	
11/9/2020 9:15	88	88.1	1.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/9/2020 9:18	0	88.1	0	0	776	0	8.4	8.08	0.3199997	0	0	0	0	0	0	0	
11/9/2020 9:22	0	88.1	0	729	776	4.7	0	8.08	0	0	0	0	0	0	0	0	
11/9/2020 15:47	0	88.1	0	0	776	0	0	8.08	0	0	0	-1	-0.1	0.1	0	0.1	
11/9/2020 15:51	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/11/2020 6:35	0	88.1	0	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/11/2020 6:39	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/11/2020 6:42	0	88.1	0	0	776	0	8.2	8.08	0.1199999	0	0	0	0	0	0	0	
11/11/2020 6:53	0	88.1	0	729	776	4.7	0	8.08	0	0	0	0	0	0	0	0	
11/11/2020 22:29	90	88.1	0.1900001	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/11/2020 22:32	0	88.1	0	0	776	0	8.3	8.08	0.2200003	0	0	0	0	0	0	0	
11/11/2020 22:37	0	88.1	0	728	776	4.8	О	8.08	0	0	0	0	0	0	0	0	
11/17/2020 22:11	0	88.1	0	0	776	0	0	8.08	0	0	0	0	0	0.1	0	0.1	
11/17/2020 22:15	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/17/2020 22:19	0	88.1	0	0	776	0	8.4	8.08	0.3199997	0	0	0	0	0	0	0	
11/17/2020 22:24	0	88.1	0	744	776	3.2	0	8.08	0	0	0	0	0	0	0	0	
11/18/2020 21:13	88	88.1	1.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/18/2020 21:17	0	88.1	0	0	776	0	8.4	8.08	0.3199997	0	0	0	0	0	0	0	
11/18/2020 21:21	0	88.1	0	726	776	5	0	8.08	0	0	0	0	0	0	0	0	
11/21/2020 21:06	88	88.1	1.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/21/2020 21:10	0	88.1	0	718	776	5.8	0	8.08	0	0	0	0	0	0	0	0	
11/27/2020 16:09	0	88.1	0	0	776	0	0	8.08	0	0	0	-1	-0.1	0	0	0	
11/27/2020 16:12	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/27/2020 16:16	0	88.1	0	0	776	0	8.2	8.08	0.1199999	0	0	0	0	0	0	0	
11/27/2020 16:20	0	88.1	0	771	776	0.5	0	8.08	0	0	0	0	0	0	0	0	
11/27/2020 19:34	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/27/2020 19:38	0	88.1	0	0	776	0	8.1	8.08	2.00E-02	0	0	0	0	0	0	0	
11/27/2020 19:43	0	88.1	0	754	776	2.2	0	8.08	0	0	0	0	0	0	0	0	
11/28/2020 23:08	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/28/2020 23:12	0	88.1	0	0	776	0	8.1	8.08	2.00E-02	0	0	0	0	0	0	0	
11/28/2020 23:15	0	88.1	0	763	776	1.3	0	8.08	0	0	0	0	0	0	0	0	
11/29/2020 23:05	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/29/2020 23:08	0	88.1	0	0	776	0	8.9	8.08	0.8199997	0	0	0	0	0	0	0	
11/29/2020 23:13	0	88.1	0	772	776	0.4	0	8.08	0	0	0	0	0	0	0	0	
11/30/2020 22:05	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
11/30/2020 22:09	0	88.1	0	0	776	0	8.9	8.08	0.8199997	0	0	0	0	0	0	0	
11/30/2020 22:13	0	88.1	0	798	776	2.2	0	8.08	0	0	0	0	0	0	0	0	

Carbon Monoxide > 8ppm 4 hour alarm



Carbon Monoxide > 8ppm 4 hour alarm

	Start	Stop		Op.	Stack CO	Stack CO		Actions
Date	Time	Time	Duration	Mode	@ 11% 02	as mg/m ³	Explanation	Taken
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/4/2020	6:00	7:00	1:00	Normal	8.5	9.8	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/5/2020	12:00	13:00	1:00	Normal	8.2	9.5	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/7/2020	21:00	1:00	4:00	Normal	10.5	12.1	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/10/2020	7:00	11:00	4:00	Normal	8.7	10.0	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/10/2020	19:00	20:00	1:00	Normal	8.7	10.0	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/10/2020	21:00	22:00	1:00	Normal	10.2	11.8	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/11/2020	14:00	15:00	1:00	Normal	9.8	11.3	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/12/2020	21:00	1:00	4:00	Normal	8.9	10.3	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/13/2020	20:00	22:00	2:00	Normal	12	13.8	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/17/2020	8:00	10:00	2:00	Normal	8.6	9.9	excess volatile gasses	continued feeding.
							Spike caused by change in	No waste was fed during this
							flameport setpoints attempting	period. Setpoints were
11/18/2020	19:00	23:00	4:00	Normal	18.7	21.6	to decrease differential temp.	readjusted.

Carbon Monoxide > 8ppm 4 hour alarm

								Operator monitored levels and
11/20/2020	20:00	21:00	1:00	Normal	9	10.4	Pile of waste fell into ash pit	continued feeding.
								Operator monitored levels and
11/20/2020	22:00	23:00	1:00	Normal	8.9	10.3	Pile of waste fell into ash pit	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/21/2020	0:00	1:00	1:00	Normal	8.8	10.2	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/27/2020	12:00	14:00	2:00	Normal	12.6	14.5	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/27/2020	15:00	16:00	1:00	Normal	9.9	11.4	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/27/2020	17:00	19:00	2:00	Normal	8.6	9.9	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/28/2020	8:00	12:00	4:00	Normal	9.7	11.2	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
11/30/2020	3:00	6:00	3:00	Normal	9.4	10.8	excess volatile gasses	continued feeding.

Carbon Monoxide > 8ppm 12 hour alarm



Carbon Monoxide > 8ppm 12 hour alarm

	Start	Stop		Op.	Stack CO	Stack CO		Actions
Date	Time	Time	Duration	Mode	@ 11% O2	as mg/m ³	Explanation	Taken
							Spike caused by change in	No waste was fed during this
							flameport setpoints attempting	period. Setpoints were
11/18/2020	19:00	23:00	4:00	Normal	8.3	9.6	to decrease differential temp.	readjusted.



Secondary Chamber Temperature < 1000°C

Date	Start Time	Stop Time	Duration	Op. Mode	Temp. °C	Explanation	Actions Taken
						Machine was having difficulty	
11/19/2020	2:53	3:57	1:04	Normal	993	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
11/19/2020	6:42	8:34	1:52	Normal	985	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
11/22/2020	11:02	13:47	2:45	Shut-Down	966	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
11/27/2020	19:42	22:48	3:06	Normal	997	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
11/28/2020	10:07	13:10	3:03	Normal	966	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
11/28/2020	16:06	19:29	3:23	Normal	947	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
11/30/2020	4:02	5:10	1:08	Normal	980	maintaining upper temp	Upper burner setpoint adjusted

Quench pH out of Range (<6.4pH / >10.4pH)



Quench pH out of Range (<6.4pH / >10.4pH)

	Start	Stop		Op.	Quench		Action
Date	Time	Time	Duration	Mode	рН	Explanation	Taken
						False alarm. Incinerator was	False alarm. Incinerator was
						already shutdown. Machine was	already shutdown. Machine was
						put back into shutdown to help	put back into shutdown to help
						cooling by running UFA and FPA	cooling by running UFA and FPA
11/23/2020	20:27	0:26	3:59	Shut-Down	2.5	fans	fans

Condenser pH out of range (<6.4pH / >10.4pH)



Condenser pH out of range (<6.4pH / >10.4pH)

	Start	Stop		Op.	Condenser		Action
Date	Time	Time	Duration	Mode	рН	Explanation	Taken
						Waste caused a sudden drop in	Auto caustic system brought PH
11/3/2020	4:44	7:44	3:00	Normal	5.9	water PH	back to limits

Differential from Demister < 10 C



Differential from Demister < 10°C

	Start	Stop		Op.	Differential Temp		Actions
Date	Time	Time	Duration	Mode	Outlet °C	Explanation	Taken
						Heat exchanger build up	No waste fed until back in range.
						prevented proper cooling of	Setpoints were adjusted to
11/11/2020	23:36	3:21	3:45	Normal	8	process water	compensate.
						Heat exchanger build up	No waste fed until back in range.
						prevented proper cooling of	Setpoints were adjusted to
11/16/2020	3:05	15:06	12:01	Normal	8	process water	compensate.
						Heat exchanger build up	No waste fed until back in range.
						prevented proper cooling of	Setpoints were adjusted to
11/18/2020	23:20	6:23	7:03	Normal	7	process water	compensate.
						Heat exchanger build up	No waste fed until back in range.
						prevented proper cooling of	Setpoints were adjusted to
11/21/2020	10:19	3:09	16:50	Normal	8	process water	compensate.
						Heat exchanger build up	
						prevented proper cooling of	Plates were cleaned and seals
11/22/2020	5:53	14:08	8:15	Normal	8	process water	replaced on shutdown.



December 2020 Incineration Averages Ranges

т	heDate	OX6min	COmin	NOXmin	PrimTemp°C	SecTemp°C	SNCR	DemTemp°C C	arbTemp°C	DiffTemn	IDFanTemp°C	OunchPH	CondPH	AtomPH	Atom∆	AtomB	HEPADP	OpMode
	Average	12.3	4.0	70.3	1035.3	1025.9	6.0	28.6	50.5	21.8	40.7	7.3	6.7	6.9	40.5	42.0	1.7	Opiviouc
12/1/2020	Min	9.9	0.0	25.3	927.3	980.4	6.0	26.8	50.0	19.7	39.5	7.2	6.5	6.9		41.9	1.0	On
", -,	Max	15.7	469.7	148.9	1122.9	1044.9	6.0	31.2	50.9	23.3	42.2	7.3	6.8	6.9	40.7	42.2	2.0	-
	Average	12.1	3.9	62.4	1003.8	1025.1	6.0	29.0	50.4	21.4	41.8	7.3	6.8	6.9	40.7	42.1	2.2	
12/2/2020	Min	5.64	0.0	14.2	832.6	967.7	6.0	25.0	48.9	18.2	38.9	7.2	6.7	6.9	40.5	41.9	2.0	On
' '	Max	15.7	524.0	347.9	1091.6	1066.5	6.0	32.6	51.0	23.9	44.0	7.4	7.1	6.9	41.3	42.4	3.0	
	Average	9.0	4.7	27.2	903.1	1013.5	6.0	29.8	45.3	15.4	37.3	7.3	7.1	6.9	40.5	42.0	0.1	
12/3/2020	Min	5.55	0.0	1.0	714.0	928.1	6.0	28.6	28.7	0.1	28.6	7.1	6.9	6.9	40.5	41.6	0.0	On
	Max	11.5	456.1	182.8	1047.1	1042.0	6.0	32.6	50.9	21.9	40.7	7.6	7.3	6.9	40.7	42.2	2.0	
	Average	10.6	4.7	32.7	834.6	1026.6	6.0	27.9	50.1	22.2	40.8	7.2	7.0	6.9	40.5	41.8	0.0	
12/4/2020	Min	6.93	0.0	3.2	729.5	971.4	6.0	24.1	48.3	17.1	40.1	7.1	6.9	6.8	40.4	41.4	0.0	On
	Max	15.5	586.9	95.0	1027.2	1071.1	6.0	33.7	50.9	24.4	42.3	7.3	7.1	6.9	40.6	42.1	0.0	
	Average	11.7	5.9	72.0	832.5	1054.6	6.0	27.0	50.1	23.1	41.0	7.4	6.8	6.9	41.5	42.1	0.0	
12/5/2020	Min	7.73	0.0	0.2	691.9	1021.7	6.0	24.5	48.6	22.0	40.1	7.2	6.6	6.9	40.5	41.8	0.0	On
	Max	14.4	655.5	149.4	1008.8	1077.4	6.0	28.6	50.8	24.3	41.5	7.6	7.0	6.9	42.1	42.2	0.0	
	Average	11.7	1.0	86.4	941.9	1064.8	6.0	31.0	50.5	19.4	42.2	7.5	6.7	6.9	42.1	42.1	0.0	
12/6/2020	Min	9.75	0.0	13.7	844.9	1030.3	6.0	24.9	48.7	14.7	40.2	7.2	6.6	6.8	41.9	41.9	0.0	On
	Max	13.8	220.1	213.0	1033.6	1170.8	6.0	36.8	51.5	23.8	43.6	7.7	6.9	6.9	42.2	42.2	0.0	
	Average	11.4	2.7	56.3	919.6	1051.0	6.0	30.4	50.5	20.1	41.6	7.3	6.7	6.9	42.2	42.1	0.6	
12/7/2020	Min	8.66	0.0	13.1	859.4	1020.9	6.0	22.7	46.9	16.5	38.9	7.2	6.6	6.8	42.0	41.9	0.0	On
	Max	12.7	615.4	167.6	1037.0	1119.4	6.0	34.7	51.3	24.2	42.7	7.3	6.8	6.9	42.4	42.3	1.0	
	Average	14.7	630.1	46.5	817.1	803.2	6.0	19.9	44.8	25.0	36.8	7.3	7.0	6.9	42.4	42.1	0.0	
12/8/2020	Min	8.27	0.0	8.9	471.5	131.1	5.7	16.3	41.7	24.3	34.3	7.2	6.7	6.9	41.9	42.0	0.0	On
	Max	20.0	3396.8	161.7	1041.7	1052.3	6.0	22.6	46.9	25.5	38.8	7.5	7.5	6.9	43.2	42.3	0.0	
	Average	12.2	2.9	59.9	736.8	1038.4	6.0	23.7	47.4	23.7	38.3	7.5	6.9	6.9	42.5	42.2	0.6	
12/9/2020	Min	7.85	0.0	18.1	535.8	951.5	5.9	20.0	44.7	20.4	35.7	7.3	6.7	6.9	42.3	42.0	0.0	On
	Max	15.9	676.5	352.3	936.9	1113.4	6.0	30.1	50.5	25.1	41.9	7.8	7.2	6.9	42.8	42.3	1.0	
<i>, ,</i>	Average	11.9	2.1	52.6	892.5	1048.3	6.0	27.2	49.3	22.1	39.1	7.4	6.9	6.8	42.3	42.2	1.0	_
12/10/2020	Min	7.85	0.0	0.2	856.6	1034.5	6.0	20.1	44.6	19.6	35.2	7.2	6.7	6.8	42.1	42.1	0.0	On
	Max	14.2	506.0	363.9	939.9	1142.5	6.0	31.3	51.0	24.6	42.7	7.9	7.3	6.9	42.6	42.4	2.0	
42/44/2020	Average	11.8	4.3	49.0	946.5	1059.0	6.0	25.6	48.4	22.8	38.2	7.6		6.9	42.2	42.2	0.0	0
12/11/2020	Min	8.62	0.0	0.0		1035.6	6.0	20.1	44.5	19.7	35.3	7.3	6.9	6.9	42.1	42.0	0.0	On
	Max	13.9	562.2	290.1	992.3	1109.3	6.0	31.2	50.9	24.6	40.2	8.1	7.7	6.9	42.4	42.3	0.0	
12/12/2020	Average	11.9	1.6	67.2	918.9	1066.3	6.0	28.2	50.4	22.2	39.5	7.4	6.8	6.8	42.2	42.1	0.0	On
12/12/2020	Min	8.63	0.0 41.2	20.8 348.7	886.2 984.0	1059.8	6.0	25.8	49.4	20.6	38.7 40.3	7.3 7.5	6.8 6.9	6.8	42.1	42.0	0.0	On
	Max	13.1 11.3	2.3	45.8	950.8	1081.0 1067.6	6.0 6.0	30.2 25.5	50.9 48.4	23.6 23.0	39.6	7.3	6.8	6.9 6.9	42.3 42.2	42.2 42.0	0.0	
12/13/2020	Average Min	9.01	0.0	18.6	918.0	1057.6	6.0	20.0	46.4	20.1	37.0	7.3	6.8	6.8		42.0	0.0	On
12/13/2020	Max	13.0	552.3	118.0	1005.4	1130.2	6.0	30.7	50.8	26.1	41.0	7.2	6.8	6.9	42.1	41.9	0.0	Oii
	Average	11.3	2.0	49.6	946.0	1073.9	6.0	23.5	47.0	23.5	38.5	7.4	6.8	6.9	42.3	42.1	0.0	
12/14/2020	Min	8.66	0.0	19.6		1059.7	6.0	20.2	45.1	20.4	36.6	7.2		6.9		41.9	0.0	On
12,14,2020	Max	13.1	591.2	353.9	1010.0	1195.3	6.0	30.4	50.8	26.2	42.1	7.2	6.9	6.9	42.1	41.9	1.0	O.I.
	Average	11.8	3.3	48.9	887.3	1065.1	6.0	24.7	47.8	23.2	38.2	7.3	6.8	6.9	42.0	41.9	0.8	
12/15/2020	Min	9.68	0.0	17.4	842.7	1058.0	6.0	20.3	44.8	20.5	35.9	7.2		6.9		41.4	0.0	On
12, 13, 2020	Max	12.8	722.0	108.8	945.2	1077.2	6.0	30.3	50.8	24.7	41.5	7.6		6.9	42.1	42.1	1.0	0
	Average	11.7	1.8	63.2	877.8	1068.7	6.0	29.9	50.5	20.6	42.0	7.3	6.8	6.9	41.9	42.0	0.8	
12/16/2020	Min	9.02	0.0	1.8	812.7	1059.4	6.0	22.8	48.5	17.4	38.3	7.3	6.8	6.9		41.8	0.0	On
-,,	Max	13.1	365.6	280.4	972.8	1132.6	6.0	33.8	51.3	26.9	43.6	7.3	6.8	6.9	42.0	42.0	1.0	J
	Average	11.8	2.9	51.5	953.5	1065.5	6.0	28.2	49.8	21.6	41.2	7.3	6.8	6.9	41.9	42.0	0.8	
12/17/2020	Min	8.35	0.0	18.3	911.9	1057.8	6.0	22.3	46.7	16.9	38.1	7.2	6.8	6.8		41.9	0.0	On
' ' ' - '	Max	12.7	431.1	349.0	1028.4	1080.2	6.0	34.4	51.3	26.8	43.9	7.3	6.8	6.9	42.0	42.1	1.0	=
	Average	11.8	1.8	60.2	913.4	1065.8	6.0	30.5	48.1	17.6	39.9	7.3	6.8	6.8	41.9	42.0	0.5	
12/18/2020	Min	8.32	0.0	9.3	886.9	1057.7	6.0	22.9	31.4	5.8	30.4	7.2	6.8	6.8	41.8	41.9	0.0	On
' -,	Max	14.5	249.3	198.6	942.0	1112.8	6.0	35.5	51.3	24.7	44.0	7.4	6.8	6.9	42.0	42.1	2.0	=
	···ux			_55.0	J0		٥.٠		0 = 1.0				U.0		, ,,			1



December 2020 Incineration Averages Ranges

Т	'heDate	OX6min	COmin	NOXmin	PrimTemp°C	SecTemp°C	SNCR	DemTemp°C (CarbTemp°C	DiffTemp	IDFanTemp°C	QunchPH	CondPH	AtomPH	AtomA	AtomB	HEPADP	OpMode
	Average	11.5	3.9	35.6	940.6	1061.8	6.0	26.8	49.5	22.7	41.2	7.2	6.8	6.9	42.1	42.1	0.0	
12/19/2020	Min	8.15	0.0	11.7	854.4	1037.6	6.0	22.9	47.2	19.8	38.6	7.2	6.8	6.9	42.0	42.0	0.0	On
	Max	13.4	633.0	328.8	1034.3	1073.3	6.0	31.5	51.4	24.8	42.9	7.3	6.8	6.9	42.3	42.4	0.0	
	Average	12.2	0.2	23.3	703.2	1065.5	6.0	24.1	48.0	23.9	40.2	7.4	6.8	6.9	42.0	42.0	0.0	
12/20/2020	Min	8.22	0.0	12.3	469.5	1061.1	6.0	20.6	45.1	19.8	38.2	7.2	6.8	6.9	41.9	41.8	0.0	On
	Max	13.4	15.9	353.9	913.0	1068.9	6.0	31.5	51.3	24.7	42.8	7.8	6.8	6.9	42.1	42.1	0.0	
	Average	11.4	0.2	42.3	774.1	1072.1	6.0	30.2	49.9	19.8	43.3	7.6	6.8	6.9	41.9	42.1	0.0	
12/21/2020	Min	8.44	0.0	12.1	529.7	1048.9	6.0	23.1	47.3	13.7	40.3	7.3	6.7	6.8	41.8	42.0	0.0	On
	Max	13.3	14.9	353.4	918.9	1163.2	6.0	37.6	51.5	24.3	46.2	7.7	6.8	6.9	42.0	42.2	0.0	
	Average	11.6	0.5	62.6	904.4	1070.1	6.0	33.1	51.2	18.1	44.0	7.3	6.7	6.8	41.9	42.2	0.0	
12/22/2020	Min	9.27	0.0	18.1	860.2	1059.7	6.0	31.7	51.0	14.6	43.4	7.2	6.7	6.8	41.8	42.1	0.0	On
	Max	12.7	22.8	171.0	926.3	1185.0	6.0	36.7	51.4	19.5	45.4	7.3	6.8	6.9	42.0	42.3	0.0	
	Average	11.2	1.9	53.1	920.7	1067.7	6.0	30.0	50.2	20.3	42.5	7.2	6.8	6.8	41.9	42.1	0.6	
12/23/2020	Min	7.93	0.0	12.5	883.4	1059.8	6.0	23.2	47.3	14.9	39.6	7.2	6.7	6.8	41.8	42.0	0.0	On
	Max	12.6	610.7	347.3	962.4	1113.0	6.0	36.4	51.3	24.2	44.3	7.3	6.8	6.9	42.1	42.2	1.0	
	Average	11.3	2.4	66.9	924.9	1050.6	6.0	25.3	47.9	22.6	39.8	7.3	6.8	6.9	41.5	41.7	0.9	On/Shut-
12/24/2020	Min	8.52	0.0	0.0	866.4	514.5	6.0	21.1	42.9	14.8	30.4	7.2	6.8	6.9	27.9	27.9	0.0	down/Off
	Max	20.4	698.5	244.3	988.5	1122.9	6.3	33.1	51.2	24.5	43.1	7.4	6.8	6.9	41.9	42.1	1.0	downyon
	Average	20.2	0.0	0.0	385.8	67.5	6.0	19.0	19.7	0.7	9.6	7.9	6.9	7.0	1.2	1.1	0.0	
12/25/2020	Min	20.1	0.0	0.0	100.2	27.2	5.4	16.2	16.7	-2.2	5.0	7.4	6.8	6.9	0.0	0.0	0.0	Off
	Max	20.4	0.0	0.0	919.5	511.7	6.9	30.4	42.8	14.6	30.2	8.0	6.9	7.0	27.6	27.7	1.0	
	Average	20.3	0.0	0.0	64.2	18.1	5.2	12.9	14.8	1.9	12.8	8.0	6.9	7.0	0.0	0.0	0.0	
12/26/2020	Min	20.1	0.0	0.0	42.6	12.2	5.1	9.4	12.0	0.6	8.5	7.9	6.9	7.0	0.0	0.0	0.0	Off
	Max	20.4	0.0	0.0	100.1	27.8	5.4	16.2	17.3	3.3	16.1	8.0	6.9	7.0	0.0	0.0	0.0	
	Average	20.1	1.1	1.5	235.0	599.4	5.1	14.8	15.1	0.3	10.0	7.3	6.8	7.0	0.0	0.0	0.0	
12/27/2020	Min	20.0	0.0	-2.2	36.1	14.6	5.1	12.3	13.9	-0.5	5.2	7.1	6.7	7.0	0.0	0.0	0.0	Off/Start-up
	Max	20.4	40.7	7.7	454.3	858.9	5.3	17.0	16.9	1.9	13.8	8.0	6.9	7.0	0.0	0.0	0.0	
	Average	11.5	1.5	66.3	772.6	1033.0	5.9	30.0	47.3	17.3	40.8	7.1	6.7	6.9	37.9	36.8	0.1	
12/28/2020	Min	5.8	0.0	-4.4	421.5	818.1	5.2	15.7	14.6	-7.5	7.1	5.5	6.7	6.9	0.0	0.0	0.0	Start-up/On
	Max	20.0	582.8	349.7	913.4	1093.1	6.0	34.8	52.3	25.1	46.1	7.7	6.8	7.0	42.5	41.3	1.0	
	Average	11.6	0.7	75.6	871.9	1065.9	6.0	33.4	51.1	17.8	44.5	8.3	6.7	6.9	42.3	41.1	1.0	
12/29/2020	Min	8.8	0.0	29.2	799.2	1060.4	6.0	31.0	51.0	15.5	44.2	6.1	6.7	6.9	42.2	41.0	1.0	On
	Max	12.5	21.8	337.0	915.6	1073.2	6.0	35.6	51.3	20.1	45.4	8.7	6.7	6.9	42.5	41.2	1.0	
	Average	11.6	0.4	70.4	896.6	1066.9	6.0	32.8	51.0	18.2	43.9	8.2	6.7	6.9	42.5	41.2	1.3	
12/30/2020	Min	9.9	0.0	19.2	850.3	1061.6	6.0	29.8	50.0	15.5	41.6	7.9		6.9	42.4	41.1	0.0	On
	Max	14.2	8.3	169.0	932.7	1092.6	6.0	35.8	51.3	21.3	44.8	8.5	6.7	6.9	42.5	41.2	3.0	
	Average	10.9	2.8	78.4	892.0	1065.1	6.0	29.3	50.2	20.8	43.0	8.0	6.7	6.9	42.3	40.9	0.0	On/Shut-
12/30/2020	Min	8.6	0.0	9.9	857.3	1058.0	6.0	22.9	47.1	15.8	39.5	7.7	6.6	6.9	41.1	39.9	0.0	down
	Max	17.5	359.4	313.5	926.8	1085.4	6.0	35.6	51.4	24.2	45.5	8.2	6.8	6.9	42.6	41.5	0.0	uowii

										Dece	mber	2020	Incine	erator	Feed [Data										
TheDate	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DailySum	Monthly Total
12/1/2020	0	337.5	112.2	431.4	0	0	318.8	452.8	499.8	241.8	241	501.8	499.6	507.4	508.4	504.1	502.8	504.8	278.7	580.4	536.2	205.8	0	0	7765.3	,
12/2/2020	0	0	312.2	557.4	561.6	576.3	523.1	500.7	497.3	513.8	491.5	501.8	503.2	497	503.8	494.2	493.4	498.4	161.1	541	285.9	0	0	158.8	9172.5	
12/3/2020	432.4	513.5	576	507.8	0	0	0	516.5	525.6	531.3	509.5	0	0	0	0	335.1	536	519.8	509	503.1	503.7	411.9	210.7	0	7641.9	
12/4/2020	0	376.6	0	0	58.3	0	0	0	0	0	0	0	515.5	367.6	281.4	0	528.2	566.4	533.3	0	0	0	0	0	3227.3	
12/5/2020	0	0	418.8	428.8	0	0	0	0	0	0	0	0	0	0	535.4	668.4	453.8	475.3	415.1	323.2	543.3	559.7	518	507	5846.8	
12/6/2020	504.2	181.4	169.2	543.3	308.7	139.5	198.8	475.5	647.4	617.8	492.3	608.6	406.6	643.2	640.2	406	492.7	630.8	617.1	85.2	0	117.9	64.5	215.6	9206.5	
12/7/2020	541.7	522.4	444	481.3	502.8	559.6	268.5	505.5	546.5	503.9	510.8	514.4	503.6	508.6	511.2	508.2	511.6	502	247	359.5	405.6	0	0	0	9958.7	
12/8/2020	531.4	316.8	270.1	400.2	0	0	0	0	513.3	81.6	485.5	511.5	0	0	0	0	0	0	0	0	0	0	0	0	3110.4	
12/9/2020	0	0	0	0	0	0	0	0	0	0	281	580	524.5	535.7	616	559.8	526.6	0	0	0	503.8	581.2	339.2	41.2	5089	
12/10/2020	642.4	559.4	607.8	490.9	418.5	582.9	326.6	503.9	504.9	501.2	502.6	501.6	507.6	507.8	494.6	495	493.5	404.3	92.4	531.5	304.6	0	0	0	9974	
12/11/2020	509.6	516.4	0	0	452.8	550.9	0	0	0	502	455.4	460.9	455	455.2	453.7	458.2	451.8	499.2	413.5	330.6	515	168.6	558.2	541.2	8748.2	
12/12/2020	562.7	555.3	301.3	488.3	534.1	174	586.2	582.6	570.1	621.2	515.4	537.9	576.6	486.5	549.9	423.9	420.5	414.7	338.6	454.4	297.6	0	0	0	9991.8	
12/13/2020	577.8	466.7	657.8	455	508.3	413.8	333.8	505	477.6	492.8	434.2	485.9	482.2	453.7	482	465.9	483.3	300.5	338	453.7	452.1	279.9	0	0	10000	
12/14/2020	655	664.3	615.3	478	449.5	438	0	463.4	461.8	497.8	451.9	485.1	470.3	54.6	138	372.4	450.6	491.3	377.6	463.7	451.6	462.2	453.5	153.2	9999.1	
12/15/2020	439.3	469	405.2	0	0	449.8	0	439	436	470	474.3	541.2	451.6	453.3	455.4	460	458.6	450.3	213.8	548.6	565.9	541.9	564	551.7	9838.9	
12/16/2020	540.3	543	531	553.3	551.5	575.6	215.7	460.4	452.5	214	452	453.8	453.6	453.8	450.3	453.7	454.4	452.8	254	543.5	548	392.8	0	0	10000	229407.2
12/17/2020	543.9	532.4	128.8	527.3	506.2	65.7	209.6	0	118.4	486.5	0	488.5	489.3	498.7	450.7	490.4	510.8	523.5	508.4	360	460.6	461.8	463.4	65.5	8890.4	
12/18/2020	571.3	579.4	552.7	424	0	584.3	405	475.9	475.9	451	466.3	485.8	474.3	420.2	623.4	521.2	515	210	0	479.4	321.2	0	0	0	9036.3	
12/19/2020	647.8	0	594.2	67	603.6	297.6	186.7	354.4	0	0	0	0	0	58.4	471.1	452.2	459.8	469.7	273	550.1	522.8	403.9	504.5	347.9	7264.7	
12/20/2020	0	0	0	445.4	59.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	504.8	
12/21/2020	0	0	0	0	0	0	0	98.4	539.1	375	443.8	459.2	454.6	479.2	471	495	458.8	461.2	445.4	548.9	563.6	564	547.7	560.2	7965.1	
12/22/2020	548.8	555.5	0	546	553.3	567.8	0	458.5	470.6	490.2	475.8	478	470.8	488	454.8	472.7	472	456	408.9	440.7	453.8	492.6	245.2	0	10000	
12/23/2020	442.8	509.3	638.8	587.4	310.9	440.8	490.2	486.4	469.2	475.4	461.2	484.8	452.3	460.7	500.8	429.1	457.4	338.3	471.7	444.4	315.5	269.6	56.3	0	9993.3	
12/24/2020	616.2	413.9	448.1	465.3	403.4	625.1	232.4	265.6	12.7	0	457.8	515.5	509.2	313.9	506	511.2	508.5	510.5	120.7	0	0	0	0	0	7436	
12/25/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12/26/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12/27/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12/28/2020	0	0	0	340.2	381.8	321.6	0	482	473.3	473.7	487.4	465.6	461.9	468.2	493.3	404.5	476.2	454.6	504.7	323	465	458.2	573.9	341.3	8850.4	
12/29/2020	455.9	464.6	319.8	315.1	615.5	445.4	355.4	453.2	459	451.3	454.7	452.6	450.8	490.1	455.3	458.3	453.3	452.2	315.2	523.6	558.4	316.9	203.7	0	9920.3	
12/30/2020	553.7	550.3	562.1	540.2	546.8	554.4	505.8	401.4	403.4	409.8	485.6	481.3	410.8	12.8	451	458.8	455.2	403.9	0	551.8	565.4	566.1	105	0	9975.6	
12/31/2020	534.3	570.6	566.9	555.3	540	522.7	220.4	452.5	459.8	467.4	461.8	462.5	492.4	519.2	474.1	476.8	528.9	561.9	504.4	533.6	94.4	0	0	0	9999.9	

						Decem	ber 20	20 CEN	1 Calibr	ation Log					
TheDate	COSpanRes	CO Calgas	COSpan%Drift	NOxSpanRes	NOX Calgas	NOxSpan%drift	O2SpanRes	O2 Calgas	O2SpanDrift	COZeroRes COZero%Drift	NOxZeroRes	NOxZero%Drift	O2ZeroRes	O2 Zerogas	O2ZeroDrift Comment
12/2/2020 22:07	89	88.1	9.00E-02	0	776	0	0	8.08	0	0 0	0	0	C	0	0
12/2/2020 22:10	0	88.1	0	0	776	0	12.1	8.08	4.02	0 0	0	0	C	0	0
12/2/2020 22:16	0	88.1	0	774	776	0.2	0	8.08	0	0 0	0	0	(0	0
12/2/2020 22:20	0	88.1	0	0	776	0	9.8	8.08	1.72	0 0	0	0	(0	0
12/2/2020 22:25	0	88.1	0	0	776	0	8.7	8.08	0.6199999	0 0	0	0	(0	0
12/3/2020 0:14	0	88.1	0	0	776	0	9.1	8.08	1.02	0 0	0	0	C	0	0
12/3/2020 23:15	89	88.1	9.00E-02	0	776	0	0	8.08	0	0 0	0	0	C	0	0
12/3/2020 23:19	0	88.1	0	0	776	0	9.1	8.08	1.02	0 0	0	0	(0	0
12/3/2020 23:23	0	88.1	0	1	776	77.5	0	8.08	0	0 0	0	0	C	0	0
12/4/2020 13:55	0	88.1	0			0	9.3	8.08	1.22	0 0		_	C	0	0
12/4/2020 14:03	0	88.1	0	0	776	0	8.1	8.08	2.00E-02	0 0	0	0	(0	0
12/5/2020 13:19	0	88.1	0			0			0	1 0.3333333			0.1	. 0	0.1
12/9/2020 19:28	88	88.1	1.00E-02	0	776	0	0	8.08	0	0 0	0	0	C	0	0
12/9/2020 19:31	0	88.1	0	0	776	0	8.1	8.08	2.00E-02	0 0	0	0	(0	0
12/10/2020 22:29	89	88.1	9.00E-02	0	-	0	0		0	9	-				
12/10/2020 22:33	0	88.1	0	0		0	8.2		0.1199999				C	0	0
12/10/2020 22:38	0	88.1	0	772		0.4	0		0	0 0			C	0	0
12/11/2020 6:58	89	88.1	9.00E-02	0	776	0	0	8.08	0	0 0	0	0	C	0	0
12/11/2020 7:01	0	88.1	0	0		0	8.2		0.1199999	0 0			C	0	0
12/11/2020 7:05	0	88.1	0	736	776	4	0	8.08	0	0 0	0	0	(0	0
12/12/2020 23:41	89	88.1	9.00E-02	0	776	0	0	8.08	0	0 0	0	0	C	0	0
12/12/2020 23:44	0	88.1	0	0	776	0	8.1	8.08	2.00E-02	0 0	0	0	(0	0
12/12/2020 23:49	0	88.1	0	735	776	4.1	0	8.08	0	0 0	0	0	(0	0
12/14/2020 0:05	88	88.1	1.00E-02	0	776	0	0	8.08	0	0 0	0	0	C	0	0
12/14/2020 0:09	0	88.1	0	0	776	0	8.2	8.08	0.1199999	0 0	0	0	(0	0
12/14/2020 0:14	0	88.1	0	740	776	3.6	0	8.08	0	0 0	0	0	(0	0
12/14/2020 22:04	88	88.1	1.00E-02	0	776	0	0	8.08	0	0 0	0	0	(0	0
12/14/2020 22:08	0	88.1	0	0	776	0	8.2	8.08	0.1199999	0 0	0	0	C	0	0
12/14/2020 22:13	0	88.1	0	750		2.6	0	8.08	0	0 0				0	0
12/16/2020 23:06	89	88.1	9.00E-02	0	776	0	0	8.08	0	0 0	0	0	C	0	0
12/16/2020 23:10	0		0	0	7.0	0	8.2		0.1199999	0 0			C	0	0
12/16/2020 23:15	0	88.1	0	710	776	6.6	0	8.08	0	0 0	0	0	C	0	0
12/17/2020 23:14	88	88.1	1.00E-02	0		0	0	8.08	0	0 0				0	0
12/17/2020 23:18	0		0	0		0	8.2	8.08	0.1199999		-			0	0
12/17/2020 23:22	0	88.1	0	735	776	4.1	0	8.08	0	0 0	0	0	C	0	0
12/19/2020 0:09	88	88.1	1.00E-02	0		0	0	8.08	0	0 0			C	0	0
12/19/2020 0:12	0		0	0		0			0.2200003	0 0	-				
12/19/2020 0:17	0	88.1	0	694		8.2	0		0	0 0				_	
12/19/2020 2:15	88		1.00E-02	0		0	0		0		-			0	0
12/19/2020 2:19	0		0	0		0	8.3		0.2200003	0 0	-				
12/19/2020 2:22	0	88.1	0	690		8.6	0		0	0 0	-				
12/20/2020 20:04	88	88.1	1.00E-02	0		0	0		0	0	<u> </u>		`		
12/20/2020 20:08	0		0	0		0			0.1199999		-				
12/20/2020 20:13	0	88.1	0	750		2.6	0		0	0 0					
12/21/2020 23:35	88	88.1	1.00E-02	0		0	0		0					_	
12/21/2020 23:38	0		0	0		0	0.1		2.00E-02	0 0					
12/21/2020 23:43	0	00.1	0	742		3.4	0	0.00	0	0 0				0	
12/23/2020 0:29	88	88.1	1.00E-02	0		0	0		0						
12/23/2020 0:33	0	88.1	0	0		0			0.2200003	0 0					
12/23/2020 0:38	0		0	706		7	0		0		-		C	0	0
12/23/2020 23:32	88	88.1	1.00E-02	0		0	0		0	0					
12/23/2020 23:35	0	88.1	0	0		0	8.1		2.00E-02	0 0	-			0	0
12/23/2020 23:39	0	88.1	0	736	776	4	0	8.08	0	0 0	0	0	C	0	0

						Decem	ber 20	20 CEN	/I Calibr	ation L	.og						
TheDate	COSpanRes	CO Calgas	COSpan%Drift	NOxSpanRes	NOX Calgas	NOxSpan%drift	O2SpanRes	O2 Calgas	O2SpanDrift	COZeroRes	COZero%Drift	NOxZeroRes	NOxZero%Drift	O2ZeroRes	O2 Zerogas	O2ZeroDrift	Comment
12/28/2020 23:45	88	88.1	1.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
12/28/2020 23:48	0	88.1	0	0	776	0	8.3	8.08	0.2200003	0	0	0	0	0	0	0	
12/28/2020 23:54	0	88.1	0	738	776	3.8	0	8.08	0	0	0	0	0	0	0	0	
12/29/2020 23:23	89	88.1	9.00E-02	0	776	0	0	8.08	0	0	0	0	0	0	0	0	
12/29/2020 23:27	0	88.1	0	0	776	0	8.3	8.08	0.2200003	0	0	0	0	0	0	0	
12/29/2020 23:32	0	88.1	0	716	776	6	0	8.08	0	0	0	0	0	0	0	0	



02 < 7.5

	Start	Stop		Op.	Stack		Actions
Date	Time	Time	Duration	Mode	O2 %	Explanation	Taken
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/2/2020	23:50	0:10	0:20	Normal	6.1	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	1:15	1:19	0:04	Normal	7.4	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	1:31	1:34	0:03	Normal	7.3	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	6:48	6:49	0:01	Normal	7.3	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	7:18	7:22	0:04	Normal	7.4	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	7:31	7:32	0:01	Normal	7.4	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	9:07	9:09	0:02	Normal	7.2	upper chamber temp.	range.

Stericycle O2 6 minute average < 7.5

	Start	Stop		Op.	Stack		Actions
Date	Time	Time	Duration	Mode	O2 %	Explanation	Taken
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	9:24	9:25	0:01	Normal	7.4	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	10:36	10:52	0:16	Normal	7.3	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was ir
12/3/2020	10:54	11:06	0:12	Normal	7.3	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	11:11	11:15	0:04	Normal	7.3	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was ir
12/3/2020	15:28	15:32	0:04	Normal	7.2	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	17:08	17:15	0:07	Normal	7.1	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	18:16	18:21	0:05	Normal	7.2	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was i
12/3/2020	19:14	19:22	0:08	Normal	7.2	upper chamber temp.	range.

Stericycle O2 6 minute average < 7.5

	Start	Stop		Op.	Stack		Actions
Date	Time	Time	Duration	Mode	02 %	Explanation	Taken
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	19:38	19:43	0:05	Normal	7.3	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	19:49	19:54	0:05	Normal	7.2	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	20:01	20:19	0:18	Normal	7.1	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	20:31	20:38	0:07	Normal	7.2	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	20:58	20:59	0:01	Normal	7.4	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	21:13	21:17	0:04	Normal	7.3	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	No waste was fed until o2 was in
12/3/2020	21:23	21:27	0:04	Normal	7.3	upper chamber temp.	range.
						Low flameport setpointcaused	
						O2 to drop while trying to	
						troubleshoot difficulties keeping	Burner linkage adjusted. No
12/3/2020	23:26	23:31	0:05	Normal	6.2	upper chamber temp.	waste fed until O2 was in range.

Stericycle O2 6 minute average < 7.5

	Start	Stop		Op.	Stack		Actions
Date	Time	Time	Duration	Mode	O2 %	Explanation	Taken
						Drop on 02 % was caused by a CO	
						spike that occurred after the	No waste was fed until the O2 %
						operator charged a load into the	returned to the normal operating
12/4/2020	0:14	0:15	0:01	Normal	7.4	incinerator.	range.
						Drop on 02 % was caused by a CO	
						spike that occurred after the	No waste was fed until the O2 %
						operator charged a load into the	returned to the normal operating
12/4/2020	11:47	11:52	0:05	Normal	7.1	incinerator.	range.
						Drop on 02 % was caused by a CO	
						spike that occurred after the	No waste was fed until the O2 %
						operator charged a load into the	returned to the normal operating
12/4/2020	12:26	12:27	0:01	Normal	7.4	incinerator.	range.

Carbon Monoxide > 8ppm 4 hour alarm



Carbon Monoxide > 8ppm 4 hour alarm

	Start	Stop		Op.	Stack CO	Stack CO		Actions
Date	Time	Time	Duration	Mode	@ 11% O2	as mg/m ³	Explanation	Taken
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
12/1/2020	22:00	1:00	3:00	Normal	8.7	10.0	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
12/2/2020	14:00	15:00	1:00	Normal	8.7	10.0	excess volatile gasses	continued feeding.
							Hydraulic cylinder on the feed	
							door blew a wiper seal causing	
							the door to close slowly and	No waste was fed during this
							hydraulic fluid to leak in to the	time. Stericycle maintenance
12/3/2020	22:00	5:00	7:00	Normal	10.1	11.7	primary chamber.	replaced the feed door cylinder.
							Hydraulic cylinder on the feed	
							door blew a wiper seal causing	
							the door to close slowly and	No waste was fed during this
							hydraulic fluid to leak in to the	time. Stericycle maintenance
12/4/2020	14:00	19:00	5:00	Normal	12.5	14.4	primary chamber.	replaced the feed door cylinder.
							High CO levels occurred due to	
							CO spikes that occurred while	Stericycle maintenance made
							maintenance staff made changes	-
							to the burner percentages before	
							a bed of waste was esblished in	CO levels back into control. No
12/5/2020	4:00	8:00	4:00	Normal	17.5	20.2	the primary chamber.	waste was fed during this period.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
12/5/2020	19:00	23:00	4:00	Normal	8.7	10.0	excess volatile gasses	continued feeding.
								No waste was fed during this
								period. When the fire
							High CO levels were caused by	department left the scene
							low upper chamber temperature	·
							that were the result of the	systems and brought this
							incinerator sitting idle due to a	incinerator back to the normal
12/7/2020	23:00	3:00	4:00	Normal	8.9	10.3	roof fire.	operating parameters.

Carbon Monoxide > 8ppm 4 hour alarm

							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
12/9/2020	9:00	15:00	6:00	Normal	10.8	12.5	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
12/11/2020	2:00	6:00	4:00	Normal	10.4	12.0	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
12/15/2020	8:00	12:00	4:00	Normal	11.1	12.8	excess volatile gasses	continued feeding.
							Large movement in the waste in	
							incinerator caused release of	Operator monitored levels and
12/19/2020	2:00	6:00	4:00	Normal	12.2	14.1	excess volatile gasses	continued feeding.

Carbon Monoxide > 8ppm 12 hour alarm



Carbon Monoxide > 8ppm 12 hour alarm

	Start	Stop		Op.	Stack CO	Stack CO		Actions
Date	Time	Time	Duration	Mode	@ 11% 02	as mg/m ³	Explanation	Taken
							Hydraulic cylinder on the feed	
							door blew a wiper seal causing	
							the door to close slowly and	No waste was fed during this
							hydraulic fluid to leak in to the	time. Stericycle maintenance
12/4/2020	1:00	4:00	3:00	normal	8.1	9.3	primary chamber.	replaced the feed door cylinder.
							High CO levels occurred due to	
							CO spikes that occurred while	Stericycle maintenance made
							maintenance staff made changes	further adjustments to the
							to the burner percentages before	burner percentages to bring the
							a bed of waste was esblished in	CO levels back into control. No
12/5/2020	4:00	6:00	2:00	normal	8.28	9.6	the primary chamber.	waste was fed during this period.
								No waste was fed during this
								period. When the fire
							High CO levels were caused by	department left the scene
							low upper chamber temperature	Stericycle maintenance reset the
							that were the result of the	systems and brought this
							incinerator sitting idle due to a	incinerator back to the normal
12/8/2020	14:00	9:00	19:00	Normal	754.4	870.6	roof fire.	operating parameters.



Oxides of Nitrogen > 98ppm 24 hr average

	Start	Stop		Op.	Stack NOx	Stack NOx		Actions
Date	Time	Time	Duration	Mode	@ 11% O2	as mg/m ³	Explanation	Taken
							an ice build up on the cooling	The line was repaired within 5
							tower (which the ammonia line	hours of it happening but the
							goes around) which weighed	subsequent NOx that happened
							down the ammonia line and	caused a higher NOx value 9
							caused it to break off the SNCR	hours later causing an
12/6/2020	19:00	20:00	1:00	Normal	98.02		nozzle.	exceedance.
			0:00					



Secondary Chamber Temperature < 1000°C

Date	Start Time	Stop Time	Duration	Op. Mode	Temp. °C	Explanation	Actions Taken
						Machine was having difficulty	
12/3/2020	12:23	15:25	3:02	Normal	973	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
12/4/2020	6:17	8:31	2:14	Normal	987	maintaining upper temp	Upper burner setpoint adjusted
						Machine was having difficulty	
12/4/2020	15:35	16:23	0:48	Normal	986	maintaining upper temp	Upper burner setpoint adjusted
							No waste was fed during this
							period. When the fire
							department left the scene
						Low uper chamber temperatures	Stericycle maintenance reset the
						levels were caused by the	systems and brought this
						incinerator sitting idle due to a	incinerator back to the normal
12/8/2020	12:35	23:04	10:29	Normal	514	roof fire.	operating parameters.