

# TEST, ADJUST AND BALANCE REPORT

Closeleigh Manor  
Ventilation System TAB  
Whitehorse, Yukon

28-Jan-15

TAB Firm:



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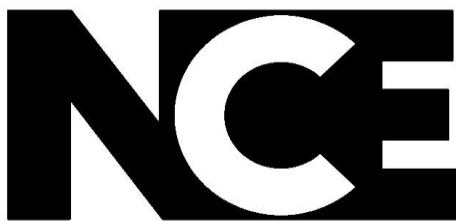
F. 867-668-4252

# CERTIFICATION

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The data presented in this report is an exact record of system performance and was obtained in accordance with NEBB standard procedures. Any variances from design quantities which exceed NEBB tolerances are noted throughout this report.

The Air Distribution Systems have been tested & balanced and final adjustments have been made in accordance with NEBB "Procedural standards for testing, adjusting, balancing of environmental systems" and the project specifications.



Submitted & Certified by TAB Agent:

Dyson Hale, CET

Signature: \_\_\_\_\_

A handwritten signature in black ink, appearing to read 'Dyson Hale', is written over a horizontal line.

Date: Jan-28-15

## General Notes

The Primary ventilation system consisting of AHU-1 and EF-1 was rebalanced to provide 1/2 air changes per hour to tenant suites and minimum ventilation rates to commercial and common areas. The secondary ventilation systems including AHU-2, AHU-3 and AHU-4 were also rebalanced.

Balancing was performed with slightly loaded Merv 11 filters. AHU-1 was set to 45Hz (1318 fan RPM) and EF-1 to 60Hz (1245 fan RPM)

Balancing dampers were locked in place and marked with red permanent marker indicating position and year ``2015``

At the time of Balancing, some registers had been removed from the walls, and some had been covered off with plastic. Some balancing dampers had been moved from their original position.

The supply registers in the 2nd and 3rd floor common area contain integral balancing dampers which are no longer functioning.

The mechanical room must be mechanically ventilated in order to maintain a net positive room pressurization.

# Air Handling Unit Test Report

<b>Unit Tag:</b>		AHU-1
<b>Unit Data</b>		
<b>Location</b>		Mechanical Room
<b>Manufacturer</b>		Engineered Air
<b>Model No.</b>		LM-4-WR
<b>Serial No.</b>		13142-AHU-1
<b>Type/Size</b>		Sized Horizontal
<b>Motor</b>	<b>Make / Model No.</b>	Baldor / M3710T
	<b>HP / RPM</b>	7.5 / 1725
	<b>Volts / Ph. / Freq.</b>	208 / 3 / 60
	<b>F.L. Amps / S.F.</b>	21.5 / 1.15
<b>Sheaves Bore / Diam.</b>	<b>Motor</b>	1-3/8" Bore / 5-3/4" DP / 6-5/16" OD / fixed
	<b>Fan</b>	1" Bore / 5-3/4" DP / 6-5/16" OD / fixed
<b>No. Belts/Size</b>		2 / B55
<b>No. Filters/Size</b>		4 / 24x16x2 MERV 11 [1]

<u>Unit Characteristics</u>	<u>Design</u>	<u>Actual - Initial</u>	<u>Actual - Final</u>
<b>Fan Speed (RPM)</b>	1566 [7]	1460	1318
<b>Motor Speed (RPM)</b>	1725[7]	1460	1328
<b>Motor Frequency (Hz)</b>	60 [7]	50	45
<b>Motor Volts (V)</b>	208		
<b>Motor Amps (A)</b>	21.5		

<u>Air Flows</u>	<u>CFM</u>	<u>CFM</u>	<u>CFM</u>
<b>Total</b>	5000 [2]	3614	3150
<b>Outside</b>	5000 [2]	3614	3150
<b>Return</b>	0 [2]	0	0

<u>Static Pressures</u>		<u>in. w.c.</u>	<u>in. w.c.</u>	<u>in. w.c.</u>
<b>Heating / Cooling Coils</b>	<b>Inlet</b>		-0.329	-0.56
	<b>Outlet</b>		-1.41	-1.35
	<b>ΔP</b>		1.081	0.79
<b>Filter</b>	<b>Inlet</b>		-0.135	-0.328
	<b>Outlet</b>		-0.329	-0.56
	<b>ΔP</b>		0.194	0.232
<b>Inlet</b>			-1.41	-1.35
<b>Outlet</b>			0.124	0.261
<b>External</b>		1.5 [2]	0.259	0.589
<b>Total</b>		3.57 [2]	1.534	1.611

# Air Handling Unit Test Report

<b>Unit Tag:</b>	AHU-1
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<u>Unit Characteristics</u>		<u>Design</u>	<u>Actual - Initial</u>	<u>Actual - Final</u>
<u>Air Particulate</u>		<u>pt/cm<sup>3</sup></u>	<u>pt/cm<sup>3</sup></u>	<u>pt/cm<sup>3</sup></u>
<b>Filters</b>	<b>Inlet</b>	-	30000	14500 [4]
	<b>Outlet</b>	-	25500	10800 [4]
	<b>Δpt/cm<sup>3</sup></b>	-	-4500	-3700

<u>Notes:</u>
[1] Unit was tested with 4 24x16x2 MERV 11 filters.
[2] Original design values provided; Unit output was reduced from 1.0 Ac/hr to 0.5 Ac/hr, and thus original design values can be adjusted accordingly
[3] Seals on blower compartment access door worn out.
[4] Variable readings observed

# Air Handling Unit Test Report

Unit Tag:		EF-1	AHU-2
<b>Unit Data</b>			
<b>Location</b>		Mechanical Room	Commissioner's Office
<b>Manufacturer</b>		Engineered Air	Engineered Air
<b>Model No.</b>		LM-4-W	LM-1
<b>Serial No.</b>		13142-EF-1	13142 AHU-2
<b>Type/Size</b>		Sized Horizontal	Sized Horizontal
<b>Motor</b>	<b>Make / Model No.</b>	Leroy Somer / 51HT48	Leroy Samson / 613W48
	<b>HP / RPM</b>	3 / 1725	1 / 1740 / 143T
	<b>Volts / Ph. / Freq.</b>	208 / 3 / 60	230 / 3 / 60
	<b>F.L. Amps / S.F.</b>	9.5 / 1.15	3.6 / 1.15
<b>Sheaves Bore/Diam.</b>	<b>Motor</b>	1-1/8" Bore / 3-3/4" DP / 4-1/4" OD / fixed	7/8" Bore / 2-1/2" DP / 3-7/8" OD [1]
	<b>Fan</b>	1" Bore / 4-1/2" DP / 5-1/4" OD / fixed	3/4" Bore / 9-3/8" DP / 10" OD [1]
<b>No. Belts/Size</b>		B48 (5L510)	1 / A43 (4L450)
<b>No. Filters/Size</b>		4 / 24x16x1 MERV 7	2 / 25x16x2 MERV 8

<u>Unit Characteristics</u>	<u>Design</u>	<u>Actual - Final</u>	<u>Design</u>	<u>Actual - Final</u>
Fan Speed (RPM)	1285	1245	1100 [1]	531
Motor Speed (RPM)	1725	1653	1740 [1]	1796
Motor Frequency (Hz)	60	60	60	60
Motor Volts (V)	208			
Motor Amps (A)	9.5			

<u>Air Flows</u>	<u>CFM</u>	<u>CFM</u>	<u>CFM</u>	<u>CFM</u>
Total	4023 [1]	2509	1484 [1]	517
Outside	0 [1]	0	276 [1]	55
Return	4023 [1]	2509	1208 [1]	462

<u>Static Pressures</u>		<u>in. w.c.</u>	<u>in. w.c.</u>	<u>in. w.c.</u>	<u>in. w.c.</u>
<b>Heating / Cooling Coils</b>	Inlet		-1.09		n/a
	Outlet		-1.87		n/a
	$\Delta P$		0.78		n/a
<b>Filter</b>	Inlet		-0.535		-0.0158
	Outlet		-1.09		-0.0591
	$\Delta P$		0.555		0.0433
<b>Inlet</b>			-1.87		-0.0591
<b>Outlet</b>			0.0112		0.0338
<b>External</b>		1.5 [1]	0.5462	0.5 [1]	0.0496
<b>Total</b>		2.4 [1]	1.8812	0.92 [1]	0.0929

# Air Handling Unit Test Report

<b>Unit Tag:</b>	EF-1	AHU-2
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<u>Unit Characteristics</u>		<u>Design</u>	<u>Actual</u>	<u>Design</u>	<u>Actual</u>
<u>Air Particulate</u>		<u>pt/cm<sup>3</sup></u>	<u>pt/cm<sup>3</sup></u>	<u>pt/cm<sup>3</sup></u>	<u>pt/cm<sup>3</sup></u>
<b>Filters</b>	<b>Inlet</b>	-		-	
	<b>Outlet</b>	-		-	
	<b>Δpt/cm<sup>3</sup></b>	-		-	

<u>Notes:</u>	<u>Notes:</u>
<p>[1] Original design values provided; Unit output was reduced from 1.0 Ac/hr to 0.5 Ac/hr, and thus original design values can be adjusted accordingly</p>	<p>[1] Original design values provided; Unit output was reduced from 1.0 Ac/hr to 0.5 Ac/hr, and thus original design values can be adjusted accordingly</p>

# Air Handling Unit Test Report

Unit Tag:		AHU-3	AHU-4
<b>Unit Data</b>			
<b>Location</b>		Commissioner's Office	Film Commission
<b>Manufacturer</b>		Engineered Air	Engineered Air
<b>Model No.</b>		LM-1	LM-1
<b>Serial No.</b>		13142-4	13142-AHU-3
<b>Type/Size</b>		Sized Horizontal	Sized Horizontal
<b>Motor</b>	<b>Make / Model No.</b>	Leroy Samson / 851EW480	Leroy Samson / 61EW48
	<b>HP / RPM / Frame</b>	1 / 1740 / 143T	1 / 1740 / 143T
	<b>Volts / Ph. / Freq.</b>	230 / 3 / 60	208 / 3 / 60
	<b>F.L. Amps / S.F.</b>	3.6 / 1.15	3.6 / 1.15
<b>Sheaves Bore/Diam.</b>	<b>Motor</b>	7/8" Bore / 2-3/4" DP / 3-3/4" OD [1]	7/8" Bore / 3-1/4" DP / 3-3/4" OD [1]
	<b>Fan</b>	3/4" Bore / 7-3/4" DP / 8" OD [1]	3/4" Bore / 9" DP / 10" OD [1]
<b>No. Belts/Size</b>		1 / A39 (4L410)	1 / A48
<b>No. Filters/Size</b>		2 / 25x16x2 MERV 8	2 / 24x16x2 MERV8

<b>Unit Characteristics</b>	<b>Design</b>	<b>Actual - Final</b>	<b>Design</b>	<b>Actual - Final</b>
<b>Fan Speed (RPM)</b>	1100 [2]	594	1100 [2]	625
<b>Motor Speed (RPM)</b>	1740 [2]	1791	1740 [2]	1785
<b>Motor Frequency (Hz)</b>	60	60	60	60
<b>Motor Volts (V)</b>				
<b>Motor Amps (A)</b>				

<b>Air Flows</b>	<b>CFM</b>	<b>CFM</b>	<b>CFM</b>	<b>CFM</b>
<b>Total</b>	1484 [2]	709	1484 [2]	644
<b>Outside</b>	276 [2]	61	373 [2]	83
<b>Return</b>	1208 [2]	648	1111 [2]	561

<b>Static Pressures</b>		<b>in. w.c.</b>	<b>in. w.c.</b>	<b>in. w.c.</b>	<b>in. w.c.</b>
<b>Heating / Cooling Coils</b>	<b>Inlet</b>		n/a		n/a
	<b>Outlet</b>		n/a		n/a
	<b>ΔP</b>		n/a		n/a
<b>Filter</b>	<b>Inlet</b>		-0.0163		-0.0104
	<b>Outlet</b>		-0.0832		-0.0766
	<b>ΔP</b>		0.0669		0.0662
<b>Inlet</b>			-0.0766		-0.0766
<b>Outlet</b>			0.0824		0.0824
<b>External</b>		0.5 [2]	0.0987	0.5 [2]	0.0928
<b>Total</b>		0.92 [2]	0.159	0.92 [2]	0.159



# Air Handling Unit Test Report

<b>Unit Tag:</b>	AHU-3	AHU-4
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<u>Unit Characteristics</u>		<u>Design</u>	<u>Actual</u>	<u>Design</u>	<u>Actual</u>
<u>Air Particulate</u>		<u>pt/cm<sup>3</sup></u>	<u>pt/cm<sup>3</sup></u>	<u>pt/cm<sup>3</sup></u>	<u>pt/cm<sup>3</sup></u>
<b>Filters</b>	<b>Inlet</b>	-		-	
	<b>Outlet</b>	-		-	
	<b>Δpt/cm<sup>3</sup></b>	-		-	

<u>Notes:</u>	<u>Notes:</u>
[1] minor wear on both the fan sheave and the motor sheave	[1] Slight wear on motor sheave, wear on fan sheave
[2] Original design values provided; Unit output was reduced from 1.0 Ac/hr to 0.5 Ac/hr, and thus original design values can be adjusted accordingly	[2] Original design values provided; Unit output was reduced from 1.0 Ac/hr to 0.5 Ac/hr, and thus original design values can be adjusted accordingly

# Air Outlet Test Report

Area Served	Floor	Outlet		Design	Preliminary	Final	Notes
		No.	Location/Service	CFM	CFM	CFM	
Pioneer's Room	1	1-5		100	65	107	
	1	1-6		100	64	108	
	1	A-2		150	275	40	
	1	A-2A		50	45	84	
Lobby	1	1-4		125	56	87	
Unoccupied Room	1	1-3		10	18	32	
Mechanical Room	1			50	475	300	[5]
Loading Bay	1			50	143	143	
Electrical Room	1	A-7		50	75	46	
Men's W.C.	1			50	24	30	
Women's W.C.	1			50	26	33	
AHU-2	1			25	175	55	
AHU-3	1			25	150	61	
AHU-4	1			50	150	83	
No. 101	1	1-1	Living Rm.	30	27	26	
	1	1-2	Master Bedroom	20	28	28	
	1	A-8	Kitchen	30	27	20	
	1	A-1	Bathroom	30	32	38	
No. 102	1	1-7	Living Rm.	30	18	26	
	1	1-8	Master Bedroom	20	29	22	
	1	A-3	Kitchen	30	36	32	
	1	A-4	Bathroom	30	9	28	
No. 103	1	1-17	Living Rm.	30	28	25	
	1	1-16	Master Bedroom	20	28	28	
	1	A-9	Kitchen	30	28	23	
	1	A-10	Bathroom	30	27	34	
No. 104	1	1-10	Living Rm.	30	26	28	
	1	1-9	Master Bedroom	20	19	21	
	1	A-6	Kitchen	30	0	33	
	1	A-5	Bathroom	30	0	31	
No. 105	1	1-14	Living Rm.	30	24	28	
	1	1-15	Master Bedroom	20	22	24	
	1	A-12	Kitchen	30	41	32	
	1	A-11	Bathroom	30	32	38	
No. 107	1	1-13	Living Rm.	30	24	27	
	1	1-12	Master Bedroom	20	61	28	
	1	A-13	Kitchen	30	1	32	
	1	A-14	Bathroom	30	31	36	

# Air Outlet Test Report

Area Served	Floor	Outlet		Design	Preliminary	Final	Notes
		No.	Location/Service	CFM	CFM	CFM	
Hall	2	2-30		220	250	178	
Garbage Room	2	B-10		25	100	40	
Common Area	2	B-1A		50	71	45	[5]
No. 201	2	2-1	Living Rm.	30	27	23	
	2	2-2	Master Bedroom	20	23	19	
	2	2-3	Bedroom	10	29	18	
	2	B-17	Kitchen	45	11	18	
	2	B-1	Bathroom	30	16	38	
No. 202	2	2-6	Living Rm.	30	36	25	[3]
	2	2-5	Master Bedroom	20	28	21	
	2	2-4	Bedroom	10	20	22	
	2	B-3	Kitchen	45	30	40	
	2	B-2	Bathroom	30	10	22	
No. 203	2	2-28	Living Rm.	30	24	24	
	2	2-29	Master Bedroom	20	17	23	[2]
	2	B-18	Kitchen	30	20	16	
	2	B-19	Bathroom	30	30	42	
No. 204	2	2-7	Living Rm.	30	28	34	[2]
	2	2-8	Master Bedroom	20	24	30	[2]
	2	B-4	Kitchen	30	0	36	
	2	B-5	Bathroom	30	0	26	
No. 205	2	2-26	Living Rm.	30	20	35	
	2	2-27	Master Bedroom	20	21	25	
	2	B-21	Kitchen	30	0	30	
	2	B-20	Bathroom	30	14	34	
No. 206	2	2-10	Living Rm.	30	26	24	
	2	2-9	Master Bedroom	20	35	28	[2][4]
	2	B-7	Kitchen	30	21	34	
	2	B-6	Bathroom	30	0	32	
No. 207	2	2-25	Living Rm.	30	20	30	
	2	2-24	Master Bedroom	20	23	27	
	2	B-22	Kitchen	30	0	15	
	2	B-23	Bathroom	30	22	32	
No. 208	2	2-12	Living Rm.	30	36	19	[2][4]
	2	2-11	Master Bedroom	20	70	17	[1][2][4]
	2	2-13	Bedroom	10	35	18	[1][4]
	2	B-9	Kitchen	45	0	26	[1]
	2	B-8	Bathroom	30	0	41	

# Air Outlet Test Report

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Area Served	Floor	Outlet		Design	Preliminary	Final	Notes
		No.	Location/Service	CFM	CFM	CFM	
No. 209	2	2-22	Living Rm.	30	22	24	[1]
	2	2-23	Master Bedroom	20	26	26	[1]
	2	B-25	Kitchen	30	41	20	[2]
	2	B-24	Bathroom	30	37	42	
No. 210	2	2-14	Living Rm.	30	36	31	
	2	2-15	Master Bedroom	20	19	18	
	2	2-16	Bedroom	10	24	22	
	2	B-11	Kitchen	45	0	33	
	2	B-12	Bathroom	30	110	43	
No. 211	2	2-21	Living Rm.	30	35	24	
	2	2-20	Master Bedroom	20	22	21	[2]
	2	2-19	Bedroom	10	30	22	[2]
	2	B-16	Kitchen	45	60	36	[2]
	2	B-15	Bathroom	30	34	38	
No. 212	2	2-18	Living Rm.	30	70	29	
	2	2-17	Master Bedroom	20	45	27	
	2	B-14	Kitchen	30	0	30	
	2	B-13	Bathroom	30	90	35	[1]

# Air Outlet Test Report

Area Served	Floor	Outlet		Design	Preliminary	Final	Notes
		No.	Location/Service	CFM	CFM	CFM	
Hall	3	3-30		220	350	198	
Garbage Room	3	C-10		25	40	40	
Common Area	3	C-1A		50	75	53	[5]
No 301	3	3-1	Living Rm.	30	18	25	
	3	3-2	Master Bedroom	20	20	23	
	3	3-3	Bedroom	10	26	24	
	3	C-17	Kitchen	45	0	21	
	3	C-1	Bathroom	30	36	39	
No. 302	3	3-6	Living Rm.	30	41	25	
	3	3-5	Master Bedroom	20	39	22	
	3	3-4	Bedroom	10	39	19	
	3	C-3	Kitchen	45	45	35	
	3	C-2	Bathroom	30	11	36	
No. 303	3	3-29	Living Rm.	30	29	27	
	3	3-28	Master Bedroom	20	26	24	
	3	C-18	Kitchen	30	22	14	
	3	C-19	Bathroom	30	31	39	
No. 304	3	3-7	Living Rm.	30	33	28	
	3	3-8	Master Bedroom	20	43	25	
	3	C-4	Kitchen	30	31	41	
	3	C-5	Bathroom	30	0	24	
No. 305	3	3-26	Living Rm.	30	30	22	
	3	3-27	Master Bedroom	20	26	24	
	3	C-21	Kitchen	30	0	21	
	3	C-20	Bathroom	30	15	30	
No. 306	3	3-10	Living Rm.	30	23	25	
	3	3-9	Master Bedroom	20	50	28	
	3	C-7	Kitchen	30	27	35	
	3	C-6	Bathroom	30	24	30	
No. 307	3	3-25	Living Rm.	30	50	35	
	3	3-24	Master Bedroom	20	45	22	
	3	C-22	Kitchen	30	49	15	
	3	C-23	Bathroom	30	36	31	
No. 308	3	3-12	Living Rm.	30	34	29	[1][2][4]
	3	3-11	Master Bedroom	20	50	19	[2]
	3	3-13	Bedroom	10	26	15	[1][2][4]
	3	C-9	Kitchen	45	15	36	[1]
	3	C-8	Bathroom	30	0	32	

# Air Outlet Test Report

Area Served	Floor	Outlet		Design	Preliminary	Final	Notes
		No.	Location/Service	CFM	CFM	CFM	
No. 309	3	3-22	Living Rm.	30	28	28	[1]
	3	3-23	Master Bedroom	20	24	28	[1]
	3	C-25	Kitchen	30	75	34	
	3	C-24	Bathroom	30	20	30	
No. 310	3	3-14	Living Rm.	30	35	34	
	3	3-15	Master Bedroom	20	22	24	
	3	3-16	Bedroom	10	27	22	
	3	C-11	Kitchen	45	15	31	
	3	C-12	Bathroom	30	70	47	
No. 311	3	3-21	Living Rm.	30	75	27	
	3	3-20	Master Bedroom	20	55	24	
	3	3-19	Bedroom	10	60	21	
	3	C-16	Kitchen	45	85	39	
	3	C-15	Bathroom	30	55	28	
No. 312	3	3-18	Living Rm.	30	100	39	
	3	3-17	Master Bedroom	20	85	30	
	3	C-14	Kitchen	30	110	28	[2]
	3	C-13	Bathroom	30	75	35	

Area Served	Floor	Outlet		Design	Preliminary	Final	Notes
		No.	Location/Service	CFM	CFM	CFM	
Crawl Space	0	S-1	NW corner	-	75	64	
Crawl Space	0	R-1	NW corner	-	90	90	
Crawl Space	0	S-2	NE corner	-	64	54	
Crawl Space	0	R-2	NE corner	-	62	62	
Crawl Space	0	S-3	SW corner	-	45	38	
Crawl Space	0	R-3	SW corner	-	0	0	[6]
Crawl Space	0	S-4	SE corner	-	58	50	
Crawl Space	0	R-4	SE corner	-	0	0	[6]

# Air Outlet Test Report

	Area Served	Floor	Outlet		Design	Preliminary	Final	Notes
			No.	Location/Service	CFM	CFM	CFM	
Commissioner's Office	Office	1	1	(AHU-2)	100	50	84	
	Board Room	1	2	(AHU-2)	150	168	153	
	Board Room	1	3	(AHU-2)	150	162	166	
	Lunch Room	1	4	(AHU-2)	100	206	114	
	Reception	1	1	(AHU-3)	50	230	123	
	Reception	1	2	(AHU-3)	150	192	217	
	Comissioner's	1	3	(AHU-3)	150	220	189	
	Comissioner's	1	4	(AHU-3)	150	228	180	
Film Com.	Reception	1	1	(AHU-4)	250	315	263	
	Front Office	1	2	(AHU-4)	250	83	109	
	Back Office	1	3	(AHU-4)	100	75	95	
	Lunch Room	1	4	(AHU-4)	100	143	177	

Notes:
[1] Balancing damper fully closed
[2] Adjustable face grill closed
[3] Inoperable balancing damper
[4] Air flow restricted with blocking material
[5] Face Damper blades manually closed off
[6] Capped

# Air Balance Test Report

Area	Design			Preliminary			Final		
	S/A	E/A	Bal.	S/A	E/A	Bal.	S/A	E/A	Bal.
Mechanical Room	300	0	300	475	0	475	300	0	300
Garbage Room	0	150	-150	0	143	-143	0	143	-143
Hall/Common Area	185	100	85	74	143	-69	119	109	10
Pioneer's	200	200	0	129	320	-191	215	124	91
AHU 2,3,4	100	0	100	475	0	475	199	0	199
W.C.	0	100	-100	0	50	-50	0	63	-63
No. 101	50	60	-10	55	59	-4	54	58	-4
No. 102	50	60	-10	47	45	2	48	60	-12
No. 103	50	60	-10	56	55	1	53	57	-4
No. 104	50	60	-10	45	0	45	49	64	-15
No. 105	50	60	-10	46	73	-27	52	70	-18
No. 107	50	60	-10	85	32	53	55	68	-13
<b>1st Floor</b>	<b>1085</b>	<b>910</b>	<b>175</b>	<b>1487</b>	<b>920</b>	<b>567</b>	<b>1144</b>	<b>816</b>	<b>328</b>
Hall/Common Area	220	75	145	250	171	79	178	85	93
No. 201	60	75	-15	79	27	52	60	56	4
No. 202	60	75	-15	84	40	44	68	62	6
No. 203	50	60	-10	41	50	-9	47	58	-11
No. 204	50	60	-10	52	0	52	64	62	2
No. 205	50	60	-10	41	14	27	60	64	-4
No. 206	50	60	-10	61	21	40	52	66	-14
No. 207	50	60	-10	43	22	21	57	47	10
No. 208	60	75	-15	141	0	141	54	67	-13
No. 209	50	60	-10	48	78	-30	50	62	-12
No. 210	60	75	-15	79	110	-31	71	76	-5
No. 211	60	75	-15	87	94	-7	67	74	-7
No. 212	50	60	-10	115	90	25	56	65	-9
<b>2nd Floor</b>	<b>870</b>	<b>870</b>	<b>0</b>	<b>1121</b>	<b>717</b>	<b>404</b>	<b>884</b>	<b>844</b>	<b>40</b>
Hall/Common Area	220	75	145	350	115	235	198	93	105
No. 301	60	75	-15	64	36	28	72	60	12
No. 302	60	75	-15	119	56	63	66	71	-5
No. 303	50	60	-10	55	53	2	51	53	-2
No. 304	50	60	-10	76	31	45	53	65	-12
No. 305	50	60	-10	56	15	41	46	51	-5
No. 306	50	60	-10	73	51	22	53	65	-12
No. 307	50	60	-10	95	85	10	57	46	11
No. 308	60	75	-15	110	15	95	63	68	-5
No. 309	50	60	-10	52	95	-43	56	64	-8
No. 310	60	75	-15	84	85	-1	80	78	2
No. 311	60	75	-15	190	140	50	72	67	5
No. 312	50	60	-10	185	185	0	69	63	6
<b>3rd Floor</b>	<b>870</b>	<b>870</b>	<b>0</b>	<b>1509</b>	<b>962</b>	<b>547</b>	<b>936</b>	<b>844</b>	<b>92</b>
<b>Building</b>	<b>2825</b>	<b>2650</b>	<b>175</b>	<b>4117</b>	<b>2599</b>	<b>1518</b>	<b>2964</b>	<b>2504</b>	<b>460</b>



# Air Particulate Test Report

<b>Date</b>	27-Jan-15
<b>Weather</b>	Overcast, Temp -21°C, Wind NW 15 km/hr
<b>Instrument</b>	TSI P-Trak Model 8525

Air Particulate (Inside)													
pt/cm <sup>3</sup>													
Unit No.		101	102	103	104	105	107	Room	Pioneer's	1st Hall	2nd Hall	3rd Hall	
Room	K	6600	8700	6200	-	6800	-	Outlet No.	1 (S/A)	7700	8600	5800	10500
	LR	6300	8700	6100	-	6600	-		2 (S/A)	8000	17000	x	x
	WC	6700	6700	6000	-	6300	-		3 (S/A)	x	x	x	x
	MBR	6500	9200	5700	-	6700	-		4 (E/A)	-	x	10100	10300
	BR	x	x	x	x	x	x		5 (E/A)	-	x	x	x
Unit No.		201	202	203	204	205	206	207	208	209	210	211	212
Room	K	10500	-	-	10600	-	10600	5200	-	-	7000	-	-
	LR	10600	-	-	10800	-	11300	5300	-	-	6700	-	-
	WC	11800	-	-	10400	-	11300	5400	-	-	7200	-	-
	MBR	10200	-	-	10800	-	11400	5400	-	-	7000	-	-
	BR	14100	-	x	x	x	x	x	-	x	8000	-	x
Unit No.		301	302	303	304	305	306	307	308	309	310	311	312
Room	K	7100	-	10400	-	-	11000	-	-	8600	-	13500	-
	LR	7300	-	10400	-	-	10400	-	-	8100	-	13000	-
	WC	7600	-	11200	-	-	10700	-	-	7200	-	13600	-
	MBR	7800	-	11600	-	-	10900	-	-	9100	-	12500	-
	BR	7800	-	x	x	x	x	x	-	x	-	12300	x

Outside		Commissioners Office		Film Commission		Laundry	
Alley	5500	Reception	3500	Reception	3800	2nd Laundry	8500
NW Corner	13900	CM Office	2900	Board Room	4100	3rd Laundry	10300
SE Corner	12500	Board Room	3700	Back Office	3900		
		Back Office	3600				

<b>Notes:</b>
[1] K = kitchen (E/A), LR = living room (S/A), WC = water closet/bathroom (E/A), MBR = master bedroom (S/A), BR = bedroom (S/A)
[2] 1st Floor Outlets: No. 1 is the lobby supply, No. 2 is a combination of the two mechanical room supplies, 2nd Floor outlets: No. 1 is the hallway supply, No. 4 is the garbage chute closet exhaust, No. 5 is the common room exhaust; 3rd Floor outlets: No. 1 is the hallway supply, No. 4 is the garbage chute closet exhaust, No. 5 is the common room exhaust