## **Ventilation System Overview**

This template has been developed to support school districts in sharing information on ventilation systems at the school level. This includes information on how systems meet requirements for regular inspection and maintenance, and additional mitigations that have been put in place to promote student and staff safety throughout the pandemic.

REQUIREMENT:  Regular inspection and maintenance of HVAC systems  Provided	School District:	28 - Quesnel
Regular inspection and maintenance of HVAC systems  Date of last inspection: July 14, 2023  Date of next inspection: December 19, 2023  Date and type of most recent maintenance: Units all inspected. Filters changed, monitored by DDC daily.  Yes/No: Yes  Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  RECOMMENDATION: Yes/No: Yes  Upgrade filtration, including nstalling MERV-13 filters, where possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filtre changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  RECOMMENDATION: Yes/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDATION: Yes/No Yes  Manage energy use and air distribution through building automation control systems  Yes/No: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	School Name:	Carson Elementary
Date of last inspection: July 14, 2023  Date of next inspection: December 19, 2023  Date and type of most recent maintenance: Units all inspected. Filters changed, monitored by DDC daily.  Yes/No: Yes  Detail: Increase supply of outside air  Detail (Including filter grade): Upgrade filtration, including Installing MERV-13 filters, Where possible  Detail (Including filter grade): Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Pes/No: No  Detail: Upgrade filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  Pes/No Yes  Manage energy use and air distribution through building automation control systems  Data il: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	REQUIREMENT:	Yes/No:
Digrade filtration, including installing MERV-13 filters, where possible will not do damage to the HVAC equipment for CO2 levels, air flows, temperature settings,  RECOMMENDATION:  Pes/No: Yes  Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  RECOMMENDATION:  Pes/No: Yes  Detail (Including filter grade): Upgrade filtration, including installing MERV-13 filters, where possible will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Pes/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  Pes/No Yes  Manage energy use and air distribution through building automation control systems  Pulse of the Att is software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		Yes
Date of next inspection: December 19, 2023  Date and type of most recent maintenance: Units all inspected. Filters changed, monitored by DDC daily.  Yes/No: Yes  Detail: Increase supply of outside air  Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  RECOMMENDATION: Yes/No: Yes  Upgrade filtration, including Installing MERV-13 filters, Where possible  Detail (Including filter grade): Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  RECOMMENDATION: Yes/No: No Detail: At this time, the HVAC unit does not support other treatment options.  Yes/No Yes  Manage energy use and air distribution through building automation control systems  Datail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	Regular inspection and maintenance	Date of last inspection:
Date of next inspection: December 19, 2023  Date and type of most recent maintenance: Units all inspected. Filters changed, monitored by DDC daily.  Yes/No: Yes  Detail: Increase supply of outside air  Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  RECOMMENDATION: Yes/No: Yes  Upgrade filtration, including Installing MERV-13 filters, Where possible Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  RECOMMENDATION: Ves/No: No Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDATION: Yes/No Yes  Manage energy use and air distribution through building automation control systems  The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	of HVAC systems	July 14, 2023
Date and type of most recent maintenance: Units all inspected. Filters changed, monitored by DDC daily.  Yes/No: Yes  Detail: Increase supply of outside air  Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  RECOMMENDATION: Yes/No: Yes Upgrade filtration, including Installing MERV-13 filters, Where possible Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  RECOMMENDATION: Ves/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDATION: Yes/No Yes  Manage energy use and air distribution through building automation control systems  The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	·	
Units all inspected. Filters changed, monitored by DDC daily.  Yes/No: Yes  Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  Yes/No: Yes/No: Yes  Upgrade filtration, including Installing MERV-13 filters, Where possible  Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  RECOMMENDATION:  Use other air cleaning or treatment technologies  At this time, the HVAC unit does not support other treatment options.  RECOMMENDATION:  Yes/No Yes  Manage energy use and air distribution through building automation control systems  Units all inspected. Filters changed, monitored by DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		December 19, 2023
RECOMMENDATION:  Yes/No: Yes  Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  RECOMMENDATION:  Yes/No: Yes  Upgrade filtration, including Installing MERV-13 filters, Where possible  Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  RECOMMENDATION:  Ves/No: No  Use other air cleaning or treatment technologies  At this time, the HVAC unit does not support other treatment options.  Pes/No Yes/No Yes  Manage energy use and air distribution through building automation control systems  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		Date and type of most recent maintenance:
Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  RECOMMENDATION:  Ves/No: Yes  Upgrade filtration, including Installing MERV-13 filters, Where possible  Where possible  RECOMMENDATION:  RECOMMENDATION:  Ves/No: No  Use other air cleaning or treatment technologies  RECOMMENDATION:  Ves/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDATION:  Ves/No Yes  Manage energy use and air distribution through building automation control systems  Yes  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		Units all inspected. Filters changed, monitored by DDC daily.
Detail: Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  Yes/No: Yes Upgrade filtration, including Installing MERV-13 filters, Where possible Where possible Where possible Where possible Will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No Detail: Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDATION: Yes/No Yes Manage energy use and air distribution through building automation control systems  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	RECOMMENDATION:	Yes/No:
Increased amount of outside fresh air, where possible, and lowered CO2 levels on DDC to increase fresh air, when possible.  Personance Fresh air, when possible filter probable.  Yes/No: Yes  Detail (Including filter grade): Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Personance Frecomment for Co2 levels, air flows, temperature settings,		Yes
I lowered CO2 levels on DDC to increase fresh air, when possible.  Yes/No: Yes  Upgrade filtration, including Installing MERV-13 filters, Where possible  Will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Use other air cleaning or treatment technologies  At this time, the HVAC unit does not support other treatment options.  PECOMMENDION:  Yes/No Yes/No Yes  Manage energy use and air distribution through building automation control systems  I lowered CO2 levels on DDC to increase fresh air, when possible.  Yes/No: Yes  Detail (Including filter grade): Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	Increase supply of outside air	Detail:
PRECOMMENDATION:  Yes  Upgrade filtration, including nstalling MERV-13 filters, where possible where possible where possible filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Precommendation:  Wes/No: No  Use other air cleaning or treatment technologies  Precommendation:  Wes/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  Pres/No Yes/No Yes  Manage energy use and air distribution through building automation control systems  Pres/No Yes  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		Increased amount of outside fresh air, where possible, and
Detail (Including filter grade): Upgraded to a MERV 8 filter, the highest possible filter which will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  RECOMMENDATION:  Use other air cleaning or treatment technologies  RECOMMENDATION:  Use other air cleaning or treatment technologies  RECOMMENDATION:  Ves/No  Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDATION:  Ves/No  Yes  Manage energy use and air distribution through building automation control systems  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		lowered CO2 levels on DDC to increase fresh air, when possible.
Upgrade filtration, including Installing MERV-13 filters, Where possible Where possible Where possible  RECOMMENDATION: Use other air cleaning or treatment technologies  RECOMMENDATION:  Use other air cleaning or treatment technologies  RECOMMENDATION:  Use other air cleaning or treatment technologies  RECOMMENDATION:  Where possible  Will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  Yes/No Yes  Manage energy use and air distribution through building automation control systems  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	RECOMMENDATION:	Yes/No:
Installing MERV-13 filters, where possible where possible where possible  Will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No Use other air cleaning or treatment technologies  Detail: At this time, the HVAC unit does not support other treatment options.  Yes/No Yes  Manage energy use and air distribution through building automation control systems  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		
where possible  will not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDTION:  Yes/No Yes  Manage energy use and air distribution through building automation control systems  Well not do damage to the HVAC equipment. Did a district-wide filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	Upgrade filtration, including	
filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDTION: Yes/No Yes  Manage energy use and air distribution through building automation control systems  Filtration audit. Increased filter changes from 2 to 3 times a year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		
year. All portables are upgraded to MERV 11 filters.  Yes/No: No  Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDTION:  Wes/No Yes  Manage energy use and air distribution through building automation control  Systems  Yes/No The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	where possible	• , ,
Yes/No: No Use other air cleaning or treatment technologies  RECOMMENDTION:  Wes/No: No Detail: At this time, the HVAC unit does not support other treatment options.  Yes/No:		· ·
Use other air cleaning or treatment technologies  RECOMMENDTION:  Wanage energy use and air distribution through building automation control systems  No  Detail:  At this time, the HVAC unit does not support other treatment options.  Yes/No Yes  Detail:  The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		
Detail: At this time, the HVAC unit does not support other treatment options.  RECOMMENDTION:  Wes/No Yes  Manage energy use and air distribution through building automation control systems  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	RECOMMENDATION:	·
At this time, the HVAC unit does not support other treatment options.  RECOMMENDTION:  Yes/No Yes  Manage energy use and air distribution through building automation control systems  At this time, the HVAC unit does not support other treatment options.  Yes/No Yes  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		
options.  Yes/No Yes  Manage energy use and air distribution through building automation control systems  Options.  Yes/No Yes  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,		
Manage energy use and air distribution through building automation control systems  Yes/No Yes  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	technologies	• • • • • • • • • • • • • • • • • • • •
Manage energy use and air distribution through building automation control systems  Yes  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	DECCAMATALDE CO.	
Manage energy use and air distribution through building automation control systems  Detail: The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	RECOMMENDITION:	
The energy use is controlled through the DDC (Direct Digital Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	Name and a second six distants and	
Control). This has software which monitors all the HVAC equipment for CO2 levels, air flows, temperature settings,	<u> </u>	
equipment for CO2 levels, air flows, temperature settings,		
	systems	·
I NOWAT IQUALS CONAULIAS ATC. This can all ha sat and adjusted		power levels, schedules, etc. This can all be set and adjusted
for changing needs. In the event of system failures, alarms are		1.
sent to notify HVAC staff.		,
	Other Relevant Information:	·
District Contact for any Questions: Name: Scott Thomson	District Contact for any Questions:	Name: Scott Thomson
Phone Number: (250) 992-0163	, ,	
Email: scottthomson@sd28.bc.ca		