

**ATTACHMENT "A"**  
**ASSISTIVE HEARING TECHNOLOGIES**

<b>Assistive Hearing Technologies</b>					
<b>Type</b>	<b>Description</b>	<b>Use</b>	<b>Benefits</b>	<b>Disadvantages</b>	<b>Municipalities Using Technology</b>
<b>Induction Loop Systems</b>	An Induction Loop, also known as Hearing or Audio Loop, utilizes a magnetic wireless signal to transmit sound directly to a T-Coil (Telecoil) imbedded within a hearing aid or cochlear implant.	<ul style="list-style-type: none"> <li>• One-to-One</li> <li>• One-to-Many</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to install</li> <li>• Cost effective</li> <li>• No additional hardware is required</li> </ul>	<ul style="list-style-type: none"> <li>• Not all hearing aids include an integrated T-Coil</li> <li>• Higher frequency sound can cause distortion</li> <li>• Large hearing loop applications cannot be easily relocated</li> <li>• Can receive sound feedback and interference</li> </ul>	<ul style="list-style-type: none"> <li>• City of Delta</li> <li>• City of Surrey</li> <li>• City of North Vancouver</li> <li>• Town of Osoyoos</li> <li>• Town of Oliver</li> <li>• City of Port Coquitlam</li> <li>• City of Coquitlam</li> </ul>
<b>Speech to Text</b>	Speech recognition software that converts spoken words into written text for review on a user's smartphone or web-enabled tablet.	<ul style="list-style-type: none"> <li>• One-to-One</li> </ul>	<ul style="list-style-type: none"> <li>• Most smartphones already include this technology</li> <li>• Easy to install</li> <li>• Cost effective</li> </ul>	<ul style="list-style-type: none"> <li>• Speech to Text is not always accurate</li> <li>• May not appeal to older population</li> <li>• Can delay communication as it requires the user to read the text</li> </ul>	
<b>Wi-Fi Streaming</b>	Wi-Fi systems work by streaming data (audio) wirelessly to personal devices, such as smart phones. An app on the phone receives the signal and transfers the audio to headphones.	<ul style="list-style-type: none"> <li>• One-to-One</li> <li>• One-to-Many</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to install</li> <li>• Cost effective</li> </ul>	<ul style="list-style-type: none"> <li>• Can easily be intercepted</li> <li>• Unsecure user privacy</li> <li>• Effectiveness of Wi-Fi streaming can be compromised by the system latency</li> </ul>	<ul style="list-style-type: none"> <li>• City of Pitt Meadows</li> </ul>

<b>Radio Frequency Systems</b>	RF systems utilize technology to convert sound to radio waves that are picked up from an FM radio receiver and is transmitted via a microphone.	<ul style="list-style-type: none"> <li>• One-to-Many</li> </ul>	<ul style="list-style-type: none"> <li>• Good option to transfer sound to large rooms or venues</li> </ul>	<ul style="list-style-type: none"> <li>• Privacy would be a concern, and is not best suited for one-on-one conversations</li> </ul>	<ul style="list-style-type: none"> <li>• City of Surrey</li> </ul>
<b>Adaptive Sound Field Systems</b>	Sound field systems consist of an outboard speaker-array tower, a wireless microphone, and a system controller that transmits and amplifies the speaker's audio through speakers.	<ul style="list-style-type: none"> <li>• One-to-Many</li> </ul>	<ul style="list-style-type: none"> <li>• Microphone is able to detect ambient noise levels and adjust the audio volume accordingly</li> </ul>	<ul style="list-style-type: none"> <li>• Privacy would be a concern, and is not best suited for one-on-one conversations</li> </ul>	<ul style="list-style-type: none"> <li>• Vancouver Island University</li> <li>• City of Kamloops</li> <li>• District of Oak Bay</li> </ul>