

Actions

Classification	Threat ID	Threat	Actions	Required by	Responsibility	Date Completed
External Interference - Road crossings during construction.	1	Threat - New Development Construction Activities - Roads, penetration of the pipeline by both teeth of an excavator fitted with tiger teeth causes ignition and death/serious injury to excavator operator or spotter	<p>Council will request input from APA in regards to this construction.</p> <p>APA to provide input and its excavation procedures near the pipeline to developer/Council.</p> <p>During road construction concrete slabs to be installed over the pipeline for the width of the road reserve to APA requirements for these roads.</p>	<p>Prior to construction activities</p> <p>Prior to construction activities</p> <p>During construction activities</p>	<p>Council/Developer</p> <p>APA</p> <p>Developer</p>	
External Interference - Road crossings during construction.	2	Threat - New Development Construction Activities - Roads, penetration of the pipeline by a single tooth of an excavator fitted with tiger teeth causes ignition and death/serious injury to excavator operator or spotter	<p>Council will request input from APA in regards to this construction.</p> <p>APA to provide input and its excavation procedures near the pipeline to developer/Council.</p> <p>During road construction concrete slabs to be installed over the pipeline for the width of the road reserve to APA requirements for these roads.</p>	<p>Prior to construction activities</p> <p>Prior to construction activities</p> <p>During construction activities</p>	<p>Council/Developer</p> <p>APA</p> <p>Developer</p>	
External Interference - Road crossings during construction.	3	Threat - New Development Construction Activities - Roads - Installation of Traffic or Street lights, penetration of the pipeline by drilling equipment causes ignition and death/serious injury to drill operator or spotter. (Pilot drill only 50mm max. hole)	If traffic lights are to be installed they are to be placed on a wide base to prevent deep excavation (by vertical boring) in the vicinity of the pipeline.	Prior to any installation	Developer	

External Interference - Road crossings during construction.	6	Threat - New Development Construction Activities - Road construction compaction.	<p>Construction methodology required prior to construction activities and to be approved by APA.</p> <p>Prove the cold formed bend prior to construction activities. This bend is subject to this threat.</p> <p>Restriction of access may be required during construction activities for vehicle access and compaction activities.</p>	<p>Prior to construction activities</p> <p>Prior to construction activities</p> <p>During construction activities</p>	<p>Council/Developer/APA</p> <p>APA</p> <p>Developer</p>	
External Interference - New Development Construction Activities - Retarding basin	8	Threat - New Development Construction Activities - Sewers and Drainage Pipeline into Retarding Basin, penetration of the pipeline by both teeth of an excavator fitted with tiger teeth causes ignition and death/serious injury to excavator operator or spotter.	<p>Council will request input from APA in regards to this construction.</p> <p>APA to provide input and its excavation procedures near the pipeline to developer/Council.</p> <p>During construction concrete slabs to be installed between the APA pipeline and the services.</p>	<p>Prior to construction activities</p> <p>Prior to construction activities</p> <p>During construction activities</p>	<p>Council/Developer</p> <p>APA</p> <p>Developer</p>	
External Interference - New Development Construction Activities - Retarding basin	9	Threat - New Development Construction Activities - Sewers and Drainage Pipeline into Retarding Basin, penetration of the pipeline by a single tooth of an excavator fitted with tiger teeth causes ignition and death/serious injury to excavator operator or spotter.	<p>Council will request input from APA in regards to this construction.</p> <p>APA to provide input and its excavation procedures near the pipeline to developer/Council.</p> <p>During construction concrete slabs to be installed between the APA pipeline and the services.</p>	<p>Prior to construction activities</p> <p>Prior to construction activities</p> <p>During construction activities</p>	<p>Council/Developer</p> <p>APA</p> <p>Developer</p>	
External Interference - New Development Construction Activities - Sewers	10	Threat - New Development Construction Activities - Sewers, penetration of the pipeline by both teeth of an excavator fitted with tiger teeth causes ignition and death/serious injury to excavator operator or spotter.	<p>Council will request input from APA in regards to this construction.</p> <p>APA to provide input and its excavation procedures near the pipeline to developer/Council.</p> <p>During construction concrete slabs to be installed between the APA pipeline and the services.</p>	<p>Prior to construction activities</p> <p>Prior to construction activities</p> <p>During construction activities</p>	<p>Council/Developer</p> <p>APA</p> <p>Developer</p>	
External Interference - New Development Construction Activities - Sewers	11	Threat - New Development Construction Activities - Sewers, penetration of the pipeline by a single tooth of an excavator fitted with tiger teeth causes ignition and death/serious injury to excavator operator or spotter.	<p>Council will request input from APA in regards to this construction.</p> <p>APA to provide input and its excavation procedures near the pipeline to developer/Council.</p> <p>During construction concrete slabs to be installed between the APA pipeline and the services.</p>	<p>Prior to construction activities</p> <p>Prior to construction activities</p> <p>During construction activities</p>	<p>Council/Developer</p> <p>APA</p> <p>Developer</p>	

External Interference - New Development Construction Activities - Buildings	12	Threat - New Development Construction Activities - Buildings, during the installation of a new building mechanical equipment strikes and dents or gouges the pipeline.	Council to ensure no new buildings will be constructed over the pipeline	During development planning	Council	
External Interference - heavy vehicle traffic on a non road crossings of the pipeline	14	Threat - Heavy vehicle traffic on non road crossings during construction activities, heavy vehicles used over pipeline causing stress on the pipeline.	APA to put this in their input to council to prevent vehicles from easement access during construction activities. APA to be presented with Construction methodology and Construction company to seek APA approval for construction methodology in the pipeline easement.	Prior to construction activities Prior to construction activities	APA APA/Developer	
External Interference - Cover reduction by wet weather traffic on a non road crossing over the pipeline.	15	Threat - Cover reduction through wet weather traffic	APA to put this in their input to council to prevent vehicles from easement access during construction activities. APA to be presented with Construction methodology and Construction company to seek APA approval for construction methodology in the pipeline easement.	Prior to construction activities Prior to construction activities	APA APA/Developer	
External Interference - Installation of services by utilities (horizontal drilling), equipment striking the pipeline	17	Threat - Installation of new service (Horizontal drilling), penetration of the pipeline by drilling equipment causes ignition and death/serious injury to drill operator or spotter. (Pilot drill only 50mm max. hole)	Undertake ALARP Analysis and implement any requirements from that analysis	Prior to Construction	APA	
External Interference - Installation of services by utilities (Vertical drilling (boring)), equipment striking the pipeline	18	Threat - Installation of new service (Vertical drilling) (for power pole etc.), penetration of the pipeline by drilling equipment causes ignition and death/serious injury to drill operator or spotter. (Pilot drill only 50mm max. hole)	Vertical drilling in the pipeline easement is not permitted to occur during development. Council/developer to ensure that any plans for undertaking this construction method will not be permitted in easement area. Use of wide base supports will eliminate the need for this construction method.	During development planning and construction	Council/Developer	

External Interference - Installation of services by utilities (Vertical drilling (boring)), equipment striking the pipeline	19	Threat - Installation of new service (Vertical drilling) (for power pole etc.), penetration of the pipeline by drilling equipment causes supply issues. (Pilot drill only 50mm max. hole)	Vertical drilling in the pipeline easement is not permitted to occur during development. Council/developer to ensure that any plans for undertaking this construction method will not be permitted in easement area. Use of wide base supports will eliminate the need for this construction method.	During development planning and construction	Council/Developer	
General Risk Category - Electricity	30	Threat - Ensure no parallel Power lines to the pipeline easement are planned for the development.	Further information on the location of power lines is required in order to determine if this threat is credible or not.	Prior to construction	Developer/APA	