

**RISK MATRIX FOR RISK EVALUATION**

MVD-PdT Railway Project, Pre-engineering phase 2  
19.7.2017

Consequence	SEVERITY OF CONSEQUENCES				
	1 Negligible	2 Minor	3 Moderate	4 Significant	5 Severe
<b>Personal casualty</b>	Negligible injury	Minor injury, sick leave under 5 days	Moderate injury, sick leave over 14 days	Death or significant injury, sick leave over 30 days	Multiple deaths or significant injuries
<b>Property damage</b>	Negligible property damage > 10 000 \$	Minor property damage > 50 000 \$	Moderate property damage > 100 000 \$	Significant property damage > 200 000 \$	Severe property damage > 1 000 000 \$
<b>Project impact</b>	Negligible impact on timetable or costs > 1 day or > 50 000 \$	Minor impact on timetable or costs < 1 weeks delay or < 100 000 \$	Moderate impact on timetable or costs > 1 week delay in project or > 200 000 \$ cost	Significant impact on timetable or costs > 2 weeks delay in project or > 500 000 \$ cost	Severe impact on timetable or costs > 1 month delay in project or > 5 000 000 \$ cost
<b>Railway or road accident</b>	Near miss or negligible accident - no delay	Minor accident Rail traffic delay less than 4 hours or major road closed for 1 hour	Moderate traffic accident Rail traffic delay less than 8 hours or major road closed for 4 hours	Significant traffic accident Rail traffic delay less than 12 hours or major road closed for 8 hours	Severe traffic accident Rail traffic delay over 16 hours or major road closed for 12 hours
<b>Environmental impact</b>	Negligible environmental impact, no need for actions	Minor environmental impact, easily repairable	Moderate environmental impact, repairable	Significant environmental impact in large area, not easily repairable	Severe environmental impact, not fully repairable

<b>PROBABILITY</b>	<b>5 Very likely</b> Occurs at least 10 times per year.	Minor	Moderate	Significant	Critical	Critical	Insignificant	Acceptable risk
	<b>4 Likely</b> Occurs at least once per year.	Insignificant	Minor	Moderate	Significant	Critical	Minor	Acceptable risk, follow up if necessary
	<b>3 Possible</b> Occurs at least once per 10 years.	Insignificant	Minor	Moderate	Moderate	Significant	Moderate	Measures must be planned
	<b>2 Unlikely</b> Occurs at least once per 50 years	Insignificant	Insignificant	Minor	Minor	Moderate	Significant	Measures must be planned and implemented
	<b>1 Very Unlikely</b> Occurs less than once per 50 years.	Insignificant	Insignificant	Insignificant	Insignificant	Minor	Critical	Immediate measures must be planned and implemented