## Johnson Street Bridge Replacement Project - Risk Registry

| Type of Risk | Likelihood | Impact | Risk<br>Level | Risk Description   | Done? | Person<br>Resp. | First Mitigating<br>Deliverable   | Second Mitigating<br>Deliverable  | Third Mitigating<br>Deliverable              | Fourth Mitigating Deliverable           |
|--------------|------------|--------|---------------|--|-------|-----------------|---|---|--|---|
|              |            |        |               |  |       | <u> </u>        |   |   |  |   |
| STRATEGIC    |            |        |               |  |       |                 |   |   |  |   |
| Strategic    | 1          | 3      | Med           | No agreement reached between MMM and City                              | N     | JM/DK           | Extend Limited Notice to Proceed  |   |  |   |
| Strategic    | 2          | 2      | Med           | We have missed a risk!   | N     | JM              | Quarterly update of risk registry   |   |  |   |
| Strategic    | 1          | -      | Lower         | City: Federal Government reporting system re:<br>\$21 m grant          | Υ     | BW              | Accounting staff familiarized with<br>Federal requirements. Specific<br>accounting staff and Project<br>accountant are restricted to entry<br>JSB info into SIS system. | Work with federal staff to correct mistakes.                                  |  |   |
| Strategic    | 1          | 2      | Lower         | Disputes with Federal Government over inaccurate cash flow projections | N     | DK              | Fed/City Committee co-<br>management committee<br>established. More frequent and<br>accurate reporting structure  | Annual cashflow projection updates.   | Ask Contractor for cashflow projects.        |   |
| Strategic    | 1          | 2      | Lower         | Union Vs Non union (awards) Contractors protests                       | N     | DK              |   |   |  |   |
| Strategic    | 1          | 1      | Lower         | CMHC Financing: Construction start by March 23 2011                    | Υ     | DK              | Early works contract to initiate project in 2011.   | Complete funded work within one year: Clearly defined scope.                  |  |   |
| Strategic    | 1          | 1      | Lower         | Delay over Insurance Placement   | Υ     | BL              | Set deadline for decision on insurance coverage, and follow through on decision   |   |  |   |
| Strategic    | 2          | 3      | Med           | Regulatory approvals obtained too late - delays construction start     | N     | JM              | Tracking table for key permits  | Download certain permitting responsibilities to Contractor.                   | Regular monitoring of permitting consultant. | Post permit tracking table in dataroom. |
| PLANNING     |            |        |               |  |       |                 |   |   |  | <u> </u>                                |
| Planning     | 2          | 2      | Med           | Insurance coverage: Cost and type                                      | Υ     | BL              | Investigate options, including independent advisor.   | Decision based on cost/benefit analysis.                                      |  |   |
| Planning     | 1          | 2      | Lower         | TBL: Cost of disposing of old bridge                                   | N     | JM/DS           | Use same requirements as for rail bascule removal.  | Incorporate some elements of the existing substructures into new-build        |  |   |
| Planning     | 1          | 1      | Lower         | City: Finding/buying/leasing land for temporary rail station           | N     | DK              | Determine acceptable strategy with<br>City planning Department, Via Rail<br>and Island Corridoor Foundation   | Land acquisition (lease or buy?) if required.                                 | Railstops outside City limits.               |   |
| Planning     | 2          | 2      | Med           | Scope changes resulting from adjacent developments                     | N     | DK/JM           | Coordination during planning phases of adjacent projects,   | Negotiate scope changes with developer to cover additional costs if required. | Disclosure in contract of adjacent projects. |   |
| Planning     | 2          | 3      | Med           | Loss of schedule float   | N     | DK/JM           | Manage schedule   |   |  |   |
| DESIGN       |            |        |               |  |       |                 |   |   |  |   |
| Design       | 2          | 3      | Med           | Geotechnical program delays - piers + fendering estimates, designs     | N     | JM              | Find a Barge quickly!   |   |  |   |
| Design       | 2          | 2      | Med           | Road and civil work: E. Approach utilities and services                | N     | DK              | Early identification and location utilities at East Approach  | Design adjustments to reflect outcome of investigation                        |  |   |
| Design       | 3          | 2      | Med           | Road and civil work: Landscaping scope                                 | N     | DK              | Manage budget and expectations  | Plan on minimum and add to scope if budget permits                            |  |   |

|                     | Ë          | <u>_</u> |       |  | -     |                 | First Mitigating  | Second Mitigating  | Third Mitigating   | Fourth Mitigating                 |
|---------------------|------------|----------|-------|--|-------|-----------------|---|--|--|-----------------------------------|
|                     | le∺        | Impact   | Risk  |  | Done? | _ <sub>2</sub>  | Deliverable   | Deliverable  | Deliverable  | Deliverable                       |
| Type of Risk        | Likelihood | 죠        | Level | Risk Description   | e2    | Person<br>Resp. |   |  |  |                                   |
| Design              | 1          | 2        | Lower | Other: Assess risk of access in rolling mechanism . e.g Banners, containment, signageetc   | N     | JM              | Engineering due diligence: safety issues integrated into design   |  |  |                                   |
| Design              | 1          | 1        | Lower | Navigation Channel Width NOT A RISK  | Υ     | JM              | Make sure that the channel width is compliant with regulations and is approved  |  |  |                                   |
| Design              | 3          | 2        | Med   | Steel design too complicated - drives up prices  | Υ     | JM              | Review of design by fabricating specialist  | Procurement process to optimize design.  | PDR estimate based on quotes from fabricators that reviewed the PDR drawings.        |                                   |
| Design              | 2          | 2        | Med   | Life cycle costs are higher than anticipated.  | Υ     | JM              | Review all optimization proposals against life cycle costs.   |  |  |                                   |
| FINANCIAL           |            |          |       |  |       |                 |   |  |  |                                   |
| Financial/ Economic | 3          | 3        | High  | Realistic accuracy of estimate   | N     | JM              | Re-estimate project after Project Definition Report.  | Indicative price check.  | Optimization of designs as part of the procurement process to allow cost management. |                                   |
| Financial/ Economic | 2          | 4        | Med   | Steel supply and fabrication price increase.   | N     | JM              | Monitor steel cost projections and advise if there is a change.   | Award sooner rather than later to minimize escalation risks.                                       |  |                                   |
| Financial/ Economic | 1          | 2        | Lower | Contribution agreement with Federals not signed yet - UBCM   | N     | DK              | Follow-up with UBCM.  |  |  |                                   |
| Financial/ Economic | 1          | 1        | Lower | City staff costs   | Υ     | BW              | Ensure City project support staffing and associated costs are identified. JSB reporting and account structure identifies City staff costs.  | Sources of funding found to cover these costs  | Communication of Full project budget, vs. Design and Construction only               |                                   |
| Financial/ Economic | 1          | 1        | Lower | Eligible costs   | N     | BW              | Ensure appropriate accounting and cost allocation. JSB reporting and account structure identifies eligible costs. All PO's and work orders are createdwithin the JSB account structure. |  |  |                                   |
| Financial/ Economic | 2          | 2        | Med   | Construction cost escalation   | N     | JM              | Monitor construction costs and report trends.   |  |  |                                   |
| Financial/ Economic | 1          | 3        | Med   | Unable to claim all eligible funds from Federal Government due to contractor's delay   | N     | JM              | Appropriate liquidated damages to cover any loss of Federal funding.  |  |  |                                   |
| PROCUREMENT         |            |          |       |  |       |                 |   |  |  |                                   |
| Procurement         | 2          | 2        | Med   | Delay in award of construction contract.   | N     | DK              | Process flow chart to map put award process.  |  |  |                                   |
| Procurement         | 2          | 3        | Med   | General: Global sourcing: long range barrier.<br>Financial stability of supplier. Limited legal<br>recourse. Different standards | N     | DS              | Contract administered under BC law.   | Appropriate standards for all technical matters, and compliance certification required in contract | Appropriate quality management system requirements.                                  |                                   |
| Procurement         | 2          | 2        | Med   | New Bridge: Contracting Strategy can introduce more risk   | N     | TZ              | Retain advice on the options and process  |  |  |                                   |
| Procurement         | 1          | 4        | Med   | Lack of Qualified bidders or submissions   | Y     | DK              | Prequalification process including advertizing  | Engage international vendors through MMM and others  |  |                                   |
| Procurement         | 1          | 1        | Lower | Legal challenges to any contract award   | N     | TZ              | Follow bidding process and utilize fairness monitor   | Utilize a participation agreement  | Communication of process and intent before bidding                                   | Debriefing of unsuccessful bidder |
| Procurement         | 3          | 3        | High  | Designer/contractor disputes over design optimization - change orders  | N     | TZ              | Clear contract terms.   | "Connect" Designer/City and<br>Contractor/City contracts.  | Develop robust collaborative meetings process.                                       |                                   |

|              | Ę          | =      |       |  |       |                                | First Mitigating  | Second Mitigating  | Third Mitigating   | Fourth Mitigating |
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|              | Likelihood | Impact | Risk  |  | Done? | <b>₩</b> ₽                     | Deliverable   | Deliverable  | Deliverable  | Deliverable       |
| Type of Risk | pod        | #      | Level | Risk Description   | ~     | Person<br>Resp.                |   |  |  |                   |
| Procurement  | 2          | 4      | Med   | Indicative pricing exceeds affordability ceiling   | Y     | All                            | Use procurement process to encourage optimizations to bring the final price within the affordability  | Revise project scope.  | Revise procurement.                                      |                   |
| Procurement  | 2          | 4      | Med   | Loss of Proponent - breach of confidentiality  | N     | TZ                             | Confidentiality agreements.   | Restricted reporting.  | RFP to allow for addition of new proponent               |                   |
| Procurement  | 1          | 4      | Med   | Loss of Proponent - response to commercial terms   | Υ     | TZ                             | Ensure fair terms and conditions in draft contract.   | Collaborative meetings to review commercial concerns.                                      |  |                   |
| CONSTRUCTION |            |        |       |  |       |                                |   |  |  |                   |
| Construction | 2          | 3      | Med   | Changed site conditions claims   | N     | JM                             | Risk assessment followed by appropriate site investigation (detailed geotechnical, contaminated soils and archeological site investigations)      | Contract language to adress changes.   |  |                   |
| Construction | 2          | 2      | Med   | Traffic management plan does not adequately address issues   | N     | DS                             | Appropriate contract language.  | Clear list of constraints regarding traffic requirements.                                  |  |                   |
| Construction | 1          | 2      | Lower | Environmental management plan inadequate   | N     | JM                             | Appropriate contract language.  |  |  |                   |
| Construction | 4          | 2      | Med   | Contaiminated soil risk  | N     | JM                             | Idntify extent of problem   | Develop contaminated soils management plan.  | Design to encapsulate in fill if permitted               |                   |
| Construction | 4          | 2      | Med   | Impact to neighbors-greatest during construction. (noise, traffic, loss of business, impeded access) | N     | KJ/DS<br>(contract<br>languge) | Communications.   | Appropriate contract language to mitigate inconveniences.                                  |  |                   |
| Construction | 4          | 2      | Med   | Short term traffic impacts during construction   | N     | DS                             | Appropriate traffic management plan in place  | Coordinate with other City activities  |  |                   |
| Construction | 1          | 4      | Med   | Delay in Telus relocation.   | N     | PM                             | Contract between Telus and City specifying completion dates for Telus.  | Engage with Telus at senior level regarding schedule management.                           |  |                   |
| Construction | 2          | 3      | Med   | Damage to existing bridge during construction by Contractor's operations.                            | N     | PM                             | Appropriate contract language to make Contractor responsible for fixing any damage he causes.   | Do not specify construction methods.   |  |                   |
| Construction | 3          | 1      | Med   | Deficiencies   | N     | DS                             | Inspections   | Deficiency management plan<br>required in Contract with<br>appropriate holdback provisions |  |                   |
| Construction | 2          | 3      | Med   | Environmental accident ( spills, etc.)   | N     | DS                             | Contract provisions: processes to mitigate risk required in contracts with GC   | Insurance coverage   |  |                   |
| Construction | 2          | 3      | Med   | Existing Bridge Fails: schedule acceleration required  | N     | DK/DS                          | Continued maintenance and inspection of existing bridge: establish a baseline and monitor afterwards, with contingency plan for emergency repair. | Use of existing bridge defined - and restrictions identified - in GC Contract.             |  |                   |
| Construction | 2          | 3      | Med   | Physical accidents on site, shuts down site  | N     | GC                             | Safety issues delegated to the<br>Contractor of Record (Prime<br>Contractor)  |  |  |                   |
| Construction | 2          | 3      | Med   | Road and civil work: Blasting for road   | N     | JM                             | Identify where rock is (borehole)   | Adjust road profile if possible  | Rip or blast if needed - needs to be reflected in specs. |                   |
| Construction | 2          | 3      | Med   | Unusually bad weather  | N     | GC                             | Clarity in Contract regarding weather risk  |  |  |                   |
| Construction | 2          | 2      | Med   | Adjacent buildings damaged during construction   | N     | GC                             | Appropriate contract language.  | Pre-review by contractor of affected buildings.  |  |                   |
| Construction | 2          | 2      | Med   | Bascule pieces do not fit/work   | N     | JM                             | Design coordination   | Quality control in design, fabrication and construction                                    |  |                   |

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|              | e<br>₩     | Impact | Risk  |   | Done? | p               | Deliverable   | Deliverable  | Deliverable   | Deliverable  |
| Type of Risk | Likelihood | ct     | Level | Risk Description  | e?    | Person<br>Resp. |   |  |   |  |
| Construction | 2          | 2      | Med   | Commisioning problems   | N     | JM              | Allow extra time for commissioning  | Care in review of shop drawings and assembly process   | Extra care and checking of pre-<br>installation site preparation<br>(embedded metals, pits and<br>trenches etc) |  |
| Construction | 2          | 2      | Med   | De- commmisioning Rail bridge. Risk of delay and miss fisheries window  | Υ     | PM              | Rail and Telus duct related   | Accelerate relocation of rail station  | Fit to fisheries windows  |  |
| Construction | 2          | 2      | Med   | Delay in delivery of key components   | N     | JM              | Early contract award.   |  |   |  |
| Construction | 2          | 4      | Med   | Delay-causing disputes between owner,<br>designers and contractors. Financial,<br>performance, progress, etc. | N     | TZ              | Dispute resolution system established and agreed to by all parties                  | Contract language: Holdbacks,<br>Bonding,  | Management system for addressing routine problems before they become a dispute                                  |  |
| Construction | 2          | 2      | Med   | Issues with constructability.   | N     | JM              | Close collaboration with Proponents   | Proponent selection based on factors including experience, and compatibility with MMM                                  |   |  |
| Construction | 2          | 1      | Lower | Complaints about Noisy Work   | N     | KJ/DS           | Communicate with neighbours   | Contractor managed - so include appropriate terms in the Contract.   | Have a baseline noise level recorded and documented   | Noise bylaws confirmed and ensur<br>they are being met by the plan |
| Construction | 1          | 4      | Med   | Archaelogical work ( possibility remains)   | N     | Johnny<br>Hall  | Dig another test pit on West side   | Follow permit protocol.  |   |  |
| Construction | 2          | 4      | Med   | Miss Fish Window: Can only be in water July 1-Oct 1, Dec 1- Feb 15  | N     | DK              | Early award   | Plan to work within legal requirements   | Follow through with all suppliers and contractors   |  |
| Construction | 1          | 3      | Med   | Safety risk during construction: 4000 Pedestrians. 3000 Cyclist now on road and sidewalk.                     | N     | GC              | Good traffic management plan by contractor during construction                      | Good communication plan regarding detours and other constraints  | Source staging areas and maximize detour space and flexibility on site  |  |
| Construction | 1          | 2      | Lower | Buy-in from Marine Users group with regard to allowable closures.   | N     | DK/JM           | Coordination with Marine Users in advance of contract to identify constraints.      | Contract language to reflect marine users requirements.  |   |  |
| Construction | 1          | 2      | Lower | Serious Vandalism and Theft   | N     | GC              | Site security   |  |   |  |
| Construction | 2          | 2      | Med   | Late delivery of construction materials   | N     | JM              | Early award.  | Review of contractor's schedule to confirm sufficient float.   |   |  |
| Construction | 1          | 3      | Med   | Non-compliance with Worksafe BC   | N     | DS/GC           | EH&S plan submission requirements in contract.                                      | High light lead paint requirements when flame cutting existing bridge  |   |  |
| Construction | 2          | 4      | Med   | Schedule delay by City  | N     | PS              | Ensure City approvals are timely.   | Appropriate delegation of authority.   |   |  |
| Construction | 2          | 3      | Med   | Schedule delay by consultant  | N     | JM/DK           | Confirm that design schedule and procurement/construction schedule are coordinated. |  |   |  |
| Construction | 3          | 2      | Med   | Schedule delay by contractor  | N     | JM              | Early award.  | Review of contractor's schedule to confirm sufficient float and that ity/Consultant requirements have been considered. | Contract should have language to require schedule recovery process by Contractor.                               |  |
| Construction | 2          | 3      | Med   | Unexpected site conditions  | N     | JM              | Due diligence ahead of contract award.  |  |   |  |
| Construction | 2          | 3      | Med   | Utility relocation schedule (Northern Junk/Janion) delays project   | N     | DK              | Identify City utility needs.  | Early dialogue with utilities owners and developers.   | Coordination of Project and utility schedules.  |  |
| POLITICAL    |            |        |       |   |       |                 |   |  |   |  |
| Political    | 2          | 4      | Med   | Decision on Rail in Scope   | Υ     | PS              | Set Deadline of Jan 31 2011   | Impact of decision clearly communicated to decision-makers including DELAY and COST                                    | Proceed with a Charter that has no Rail and maintains ROW   |  |
| Political    | 2          | 4      | Med   | Tactical reactions to situations interfere with<br>Bridge Execution Strategy                                  | N     | DK              | Charter sets Governance and<br>Response plan to Public and other<br>concerns        | Project communications plan:<br>Proactive updates (see other PR<br>mitigations)  | Manage expectations of stakeholders regarding involvement in details of design.                                 |  |

|                | Likelihood | Impact | Risk  |  | Done? | <b>7</b> ₽      | First Mitigating Deliverable   | Second Mitigating Deliverable  | Third Mitigating Deliverable   | Fourth Mitigating<br>Deliverable   |
|----------------|------------|--------|-------|--|-------|-----------------|--|--|--|--|
| Type of Risk   | bod        | #      | Level | Risk Description   | ?     | Person<br>Resp. |  |  |  |  |
| Political      | 2          | 3      | Med   | Scope of Project changes without budget and schedule adjustment        | N     | PM              | Project Definition Report signed off by City and MMM.  | Discipline of good Change<br>Management  | Good collaborative relationships with Consultants and Contractors.                       | Dispute resolution mechanism established and committed to by all engaged parties.                      |
| Political      | 2          | 2      | Med   | Publication of overly optimistic completion date                       | N     | JM              | Publish Contractor's completion date in accordance with their approved schedule.   | Monitor schedule for changes and need for schedule recovery plan.  | Set requirements for earlier completion of Bascule bridge and access roads and pathways. | Possibly require earlier date for<br>Bascule bridge component and pre-<br>commissioning                |
| Political      | 2          | 1      | Lower | Change of Council Members  | N     | PS              | Brief new councillors on project history and requirements.   | Continue to provide Council with regular updates.  |  |  |
| Political      | 1          | 2      | Lower | Missinformation  | N     | KJ              | Proactive communications regarding the progress and realities of the project: good PR and Public engagement plan.            | Formal responses to missinformation  | Formal complaints process for public and used by ALL, including Council members          | Media Communications Plan  |
| COMMUNICATIONS |            |        |       |  |       |                 |  |  |  |  |
| Community      | 3          | 1      | Med   | External Communication breakdown                                       | N     | KJ              | Develop a project communication strategy   | Continue to use the Web site, press releases   | Proactive disclosure of information  | Contracts/bid documents to disclose publication policy of City   |
| Community      | 2          | 2      | Med   | Special Interst Groups cause delays                                    | N     | KJ              | Continued proactive communication.   |  |  |  |
| Community      | 2          | 2      | Med   | Inadequate internal City communication                                 | Υ     | PS              | Communication strategy in place by end February 2011   | Communication resources dedicated to the project team  |  |  |
| Community      | 1          | 1      | Lower | Challenge of referendum results  | Υ     | TZ              |  |  |  |  |
| Community      | 4          | 1      | Med   | Project team workload disruption resulting from excessive FOI requests | N     | DK              | Good record management in place  | Proactive disclosure - information on the web sitee  | Well defined process to meet FOI obligations   | Ensure requests are appropriate.   |
| Community      | 1          | 1      | Lower | High Expectations. Little VISIBLE progress apparent.                   | N     | KJ              | Ongoing communications.  |  |  |  |
| Community      | 1          | 1      | Lower | Island Corridor Foundation Resistance                                  | N     | DK              | Consultation with ICF.   | Agreement in place between ICF and City of Victoria. Specifically waive notice period (if still applicable). |  |  |
| Community      | 2          | 3      | Med   | Public dissatisfaction with final design.                              | N     | PS/TZ           | Communication regarding scope and budget as well as value for money on contract award.                                       | Legal opinion on compliance with Referendum requirements re: final design.                                   |  |  |
| ORGANIZATIONAL |            |        |       |  |       |                 |  |  |  |  |
| Organizational | 3          | 2      | Med   | City: Costing Software : integration with city financial system        | Υ     | BW              | Determine needs of City. Use of JDE financial and Questica budget  | JSB account structure customized to use the strengths of the JDE and   |  |  |
| Organizational | 1          | 2      | Lower | Accounting process creates issues/challenges                           | Υ     | BW              | Establish an appropriate accounting system compatible with Federal and project requirements.                                 | Ensure P.O's are issued for  |  |  |
| Organizational | 2          | 3      | Med   | General: Monthly costs are directly ralated to duration                | Υ     | DK              | Establish realistic and achievable schedule and cash flow. Customized JSB financial reports will identify monthly variances. | Rigorously manage to established and agreed milestones   |  |  |
| Organizational | 1          | 1      | Lower | Internal (project team) Communications break down                      | N     | DK              | Org Chart for project including roles, responsibilities and decision-making  | Communications plan - internal and external  | Schedule of regular meetings, reporting and other key communications                     | Develop close working and communication relationships with rest of team: consultants, contractors etc. |
| Organizational | 2          | 2      | Med   | Loss of key players or consultants                                     | N     | DK              | Good project documentation incl: decision logs etc   | Good records management for City of Victoria   |  |  |

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|----------------|------------|--------|---------------|--|-------|-----------------|---|---|---|---|
| Organizational | 2          | 2      | iviou         | Unresolvable disagreements between MMM group and Contractor                      | N     | TZ              | Appropriate back-to back language between City/Contractor and City/Designer contracts,              | Dispute resolution mechanism built into contract.       |   |   |
| Organizational | 1          | 3      | Med           | Project Approval Delay by City   | N     | DK              | Timely submission to Council for required approvals.  | Continue updating Mayor and Council on project status.  |   |   |
| Organizational | 1          | 3      | Med           | Strike by City employees, or by trades or others                                 | N     | PS              | Identify potential of strikes and labour negotiations pending with stakeholders                     | ACCEPT THIS RISK AS BEING<br>OUT OF CONTROL OF THE CITY |   |   |
| Organizational | 1          | 2      |               | Capacity of City to handle the project (hours of resources and associated costs) | N     | PS              | Dedicated team identified and City adjusts to reduced capacity during life of project or backfills. | expertise requirements                                  | Reprioritize other tasks, projects and service levels to free up capacity where possible. | Develop a budget to cover these<br>needs and make sure funds are<br>available |

| Person Re | sponsible          |  |  |  |  |  |
|-----------|--------------------|--|--|--|--|--|
| GC        | General Contractor |  |  |  |  |  |
| JH        | Johnny Hall        |  |  |  |  |  |
| KJ        | Katie Josephson    |  |  |  |  |  |
| DK        | Dwayne Kalynchuk   |  |  |  |  |  |
| BL        | Bill Larkin        |  |  |  |  |  |
| PM        | Project Manager    |  |  |  |  |  |
| JM        | Joost Meyboom      |  |  |  |  |  |
| DS        | Didier Samouilhan  |  |  |  |  |  |
| PS        | Peter Sparanese    |  |  |  |  |  |
| BW        | Brenda Warner      |  |  |  |  |  |
| TZ        | Tom Zworski        |  |  |  |  |  |