

**SUPPLEMENTARY SPECIALTY PLAN
GEOTECHNICAL INVESTIGATIONS
PORQUIS JUNCTION PATROL YARD (GEOCRES NO. 42A-95)
AGREEMENT NUMBER 5011-E-0010**

TASK NO.	PHASE/TASK	METHODOLOGY	DELIVERABLES	REFERENCE MANUALS	INDEPENDENT TECH REVIEWS		RAQS DESIGNATE / QUALITY CONTROL REVIEW AND AUDITOR STAFF	COMPLETION DATE FOR MILESTONE QUALITY REVIEW	INITIALED COMPLETE
					PROCEDURE	QUALITY DOCUMENTATION			
1.0 PROJECT START UP AND REFERENCE DOCUMENT REVIEW									
.1	Occupational Health and Safety Plan	Preparation of a Health and Safety Plan for each site (contacts, hospital locations etc.)	MTO Health and Safety Checklist	Occupational Health and Safety Act	Start-up meeting Review by QA/QC Peer reviewer	Initial Project Technical Review Checklist	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA
.2	Supplementary Specialty Plan	Preparation of a Supplementary Specialty Plan	Supplementary Specialty Plan	MTO Consultant Quality Control (QC) Plan Process Procedures Guide	Review by QA/QC Peer reviewer	Signature/date on Supplementary Specialty Plan	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA
2.0 DATA COLLECTION									
.1	Review of Background Data	Review applicable Foundation Investigation and Design Reports and geosciences reports.	None	MTO Foundation Library (GEOCRES)	Check that information was obtained and is available on file.	None	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA
.2	Utility Clearance and Borehole Layout	Determine location of below ground utilities using Private Locator service and information from MTO site representative Inspect general site layout and features Mark borehole locations in field and on site plan	Clearance Certificates Borehole Location Plan	MTO Terms of Reference for RFQ GENIVAR Field Protocols Manual	Check Clearance Certificates Check status of secondary service locates with MTO site representative	Signature/date on Clearance Certificates	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA
.3	Intrusive Investigation	Conduct tailgate meeting with field staff and driller to discuss work and hazards. Install new boreholes and groundwater standpipes at selected locations and to	Tailgate Meeting Summary Form Borehole logs Groundwater level readings	GENIVAR Field Manual and Field Protocols Manual MTO Terms of Reference for RFQ	Compare results to historical data Confirm accuracy of measurements Review deliverables for completeness and	Signature/date on deliverables	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA

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		<p>specified depths.</p> <p>Sample, inspect and log soil materials.</p> <p>Prepare and preserve laboratory test samples for shipment.</p> <p>Measure groundwater level in open borehole or standpipe.</p> <p>Backfill and seal boreholes as required by standards and field protocols.</p> <p>Survey new borehole and monitor elevations relative to site datum.</p> <p>Detail all information in project field book, including GPS coordinates and photographic records.</p>		MTO Interim Guidelines for Borehole Abandonment	<p>accuracy</p> <p>Ensure sampling methods in accordance with protocols and terms of reference</p>				
.4	Laboratory Testing	25% of samples for routine testing	Laboratory test results (incorporated into Foundation Investigation Report)	<p>MTO Certified Procedures (CCIL)</p> <p>GENIVAR / Golder Laboratory Manual</p>	<p>Duplicate testing</p> <p>Review laboratory test results.</p>	GENIVAR / Golder laboratory testing log	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA
3.0 EXTERNAL STAKEHOLDER CONSULTATION									
.1	Consultation with MTO	<p>Submit correspondence.</p> <p>Attend project meetings.</p>	Meeting Minutes	MTO Terms of Reference for RFQ	<p>Interim meetings</p> <p>Review by QA/QC Peer reviewer</p>	Signature/date on deliverables	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA

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4.0 TECHNICAL REPORTS - DRAFT									
.1	Reporting for Foundation Investigation and Design	Evaluate subsurface groundwater conditions Evaluate Foundation Design Requirements in terms of reference Prepare draft reports for foundation investigation and design	Draft Foundation Investigation Report Draft Foundation Investigation and Design Report (incorporates Foundation Investigation Report)	MTO Terms of Reference for RFQ Canadian Foundation Engineering Manual	Ensure consistency and technical accuracy of interpretation, conclusions and recommendations Internal Peer Review of Reports MTO review of draft reports	Signature/date on assessment calculations, drawings, notes and other material, including revisions	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA
MILESTONE QUALITY REVIEW NO. 1			AUDIT MEMO OR REPORT		PEER REVIEW PROCEDURES	SIGNATURE / DATE	Steve Ash	When scheduled by GENIVAR	JSA
5.0 TECHNICAL REPORTS - FINAL									
.1	Reporting for Foundation Investigation and Design	Incorporate MTO comments on draft report. Prepare final foundation investigation and design reports	Final Foundation Investigation Report Final Foundation Investigation and Design Report (incorporates Foundation Investigation Report)	MTO Terms of Reference for RFQ Canadian Foundation Engineering Manual	Ensure consistency and technical accuracy of interpretation, conclusions and recommendations Internal Peer Review of Reports	Signature/date on assessment calculations, drawings, notes and other material, including revisions Signature/date on final report	Jason Balsdon / Steve Ash	When scheduled by GENIVAR	JSA
MILESTONE QUALITY REVIEW NO. 2			AUDIT MEMO OR REPORT		PEER REVIEW PROCEDURES	SIGNATURE / DATE	Steve Ash	When scheduled by GENIVAR	JSA