

Sample JSA

JSA No. _____

Company Name: ABC Company	Project Name: Big Project
Work Description: Geotechnical Soils Investigation	Work Location: Area outside north and south of contractor parking
Start Date: November 19, 2012	Duration: Approximately 2 weeks
Major Equipment: Drill Rig	Reference Material: Soils Investigation Specification, Bore Hole Location Sketch
Trade Groups (Including sub-contractors): Geotechnical Technicians, Labourers, Operating Engineers	

Job:	To Begin (Date):
Department:	Supervisor in Charge:
Prepared By:	Approved By:
	Date Approved:

Job Steps	Hazards	Barriers or Controls
1. Establish general locations for boreholes during initial site walk-about	Spray paint or other chemical marking products	MSDS sheet or consumer product labels
	Electrical environment	<ul style="list-style-type: none"> Have owner/authorized personnel accompany Approved electrically resistant footwear
	Personnel contacting live electrical apparatus	Safe limits of approach
	Moving vehicles in vicinity	Reflective safety vest or other clothing Stay within visible barriers when required
2. Take samples for contaminants at six proposed borehole locations	Electrical environment	Have owner/authorized personnel accompany Approved electrically resistant footwear
	Personnel or equipment contacting live electrical apparatus	Safe limits of approach
	Moving vehicles in vicinity	Reflective safety vest or other clothing Stay within visible barriers when required
	Contact of underground electrical apparatus	Excavate by hand only
	Pinches, cuts, strains	Personnel wear hard hats and gloves Safe lifting practices
	Possible contaminated fill soils	Approved sampling and handling practices
3. Locate underground utilities	Electrical environment	Approved electrically resistant footwear
	False or missing locates due to static or induction electric fields	Plans showing underground utility location Appropriate locate instrumentation Documentation of locates
	Personnel or equipment contacting live electrical apparatus	Safe limits of approach
	Moving vehicles in vicinity	Reflective safety vest or other clothing Stay within visible barriers when required
4. Set up drill rig at borehole locations	Electrical environment	Approved electrically resistant footwear
	Moving vehicles in vicinity	Reflective safety vest or other clothing All work to be carried out within visible barriers Lane closure and/or door closure permits at boreholes 3,5,6,7 and 8
	Pipe rack overhead at borehole 3	Use half-tower on drill rig
	Personnel or equipment contacting live electrical apparatus	Safe limits of approach
	Ground potential rise, induction	Ground drill rig using two 4/0 portable grounds due to non-availability of station grounds (see step 3)
	Proximity of borehole to buried services/utilities	Hand excavate to expose services
5. Drill boreholes to required depth	Electrical environment	Approved electrically resistant footwear
	Moving vehicles in vicinity	Reflective safety vest or other clothing All work to be carried out within visible barriers
	High-speed rotating augers	Maintain safe distance away from augers Wear close-fitting clothing Recognized drilling practices
	High decibel levels during drilling	Hearing protection
	Flying particles/debris	Approved eye protection
	Contact of underground electrical apparatus by augers or samplers	Plans showing underground utility location Locate done using appropriate equipment Drill within defined area Excavation permits
	Personnel or equipment contacting live electrical apparatus	Safe limits of approach
	Ground potential rise, induction	Ground drill rig using two 4/0 portable ground rods
	Proximity of borehole to buried services/utilities	Hand excavate to expose services
	Possible contaminated fills/soils	Personnel wear gloves, eye protection Approved practices per results of chemical analysis If unknown contaminants encountered, stop work in that area and notify the owner. Do not resume work until conditions are identified and appropriate protective measures are taken
	Possible contaminated soil cuttings or slurry resulting from drilling activities	Approved handling practices per chemical test results Soils to be contained in drums, if contaminated, for disposal at licensed facility
	Bentonite, cement, and other drilling agents	MSDS sheet or consumer product labels Approved personal protective equipment
	Pinches, cuts, strains	Personnel wear hard hats and gloves Safe lifting practices
	6. Move drill rig off of and between borehole locations	Electrical environment
Moving vehicles in vicinity		Reflective safety vest or other clothing
Personnel or equipment contacting live electrical apparatus		Safe limits of approach

NOTES: 1. Borehole locations shown on attached plan