

SITE-SPECIFIC SAMPLING AND ANALYSIS PLAN

**ADDITIONAL SITE INVESTIGATION
FORMER WAUSAUKEE LAUNDROMAT
816 NORTH AVENUE, WAUSAUKEE, WI 54177**

U.S. EPA Brownfield Cooperative Agreement No.: BF-00E03196



**August 28, 2023
Project No.:193709667**



Stantec Consulting Services Inc.
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September 29, 2023

Torre Ippolito
United States Environmental Protection Agency
77 West Jackson Boulevard, SB-5J
Chicago, IL 60604

**Reference: U.S. EPA Brownfields Assessment Project – Bay-Lake Regional Planning Commission; Cooperative Agreement No.: BF-00E03196
Submittal of Site-Specific Sampling and Analysis Plan
Former Wausaukee Laundromat, Wausaukee, WI
Stantec Project No.: 193709667**

Dear Torre Ippolito:

The Site-Specific Sampling and Analysis Plan (SSSAP) for the above referenced site is enclosed. Please contact us if you have any questions.

Sincerely,

STANTEC CONSULTING SERVICES INC.

A handwritten signature in blue ink, appearing to read "Lynelle P. Caine".

Lynelle P. Caine
Project Manager

C: Sydney Swan, Bay-Lake Regional Planning Commission

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1.0 INTRODUCTION

1.1 GENERAL

This site-specific sampling and analysis plan (SSSAP) has been prepared on behalf of Bay-Lake Regional Planning Commission (hereinafter referred to as the “Bay-Lake”) by Stantec Consulting Services Inc. (Stantec) for field sampling and laboratory analyses to be performed as part of additional Site Investigation (SI) work at the Former Wausaukee Laundromat Site located at 816 North Avenue, Wausaukee, Wisconsin (hereinafter referred to as “the Property or the Site”). The Site location is illustrated on **Figure 1**.

The project is being performed using funds from an assessment grant for hazardous substance and petroleum brownfields awarded to Bay-Lake by the United States Environmental Protection Agency (U.S. EPA) in 2022. The work is to be performed per the hazardous brownfield eligibility determination approved by the U.S. EPA on August 14, 2023. The purpose of the additional SI work is to further investigate and delineate groundwater contaminants identified in previous site investigation activities completed at the Site.

1.2 SITE DESCRIPTION/BACKGROUND

The Property consists of a 0.23-acre parcel of land previously developed as the Wausaukee Laundromat. The laundromat was built in the 1960s and operated at the Property through 2005. The Property is owned by Marinette County and currently consists of a vacant single-story building with paved driveway and landscaping. The Property is zoned as general commercial B-1 with adjoining properties, as well as the nearby area, being used for residential, commercial, and conservatory use.

1.3 ENVIRONMENTAL CONCERNS

A Phase I Environmental Site Assessment (ESA) of the Site was completed by Stantec in conformance with the scope and limitations of ASTM E1527-05 in May 2007. The Phase I ESA cited multiple recognized environmental conditions (RECs) including:

- The historical use of the Property as a dry-cleaning facility during the 1960s and 1970s and the likely transfer, storage, and use of products, and/or hazardous substances commonly associated with a dry-cleaning business.
- A mound of soil and stressed vegetation were observed near a burn barrel along the northwest corner of the building.
- The former mixing of blacktop at the Property during the 1950s.

Based on the results of the Phase I ESA, collection of soil and groundwater samples from locations throughout the Property was recommended to determine if the identified RECs affected soil and/or groundwater at the Property.

In April 2007, Stantec completed a limited Phase II ESA at the former Wausaukee Laundromat. During the Phase II ESA, 5 soil borings were advanced at the Site with temporary groundwater monitoring wells constructed in 4 of the borings. Soil and groundwater samples were collected from the boreholes and temporary wells. Laboratory analysis of soil samples collected from the Site detected tetrachloroethene (PCE) and trichloroethene (TCE) exceeding respective NR720 residual contaminant levels (RCLs) for groundwater protection and/or direct contact exposure. Groundwater analysis identified PCE exceeding the NR140 enforcement standard (ES) and/or the preventative action limit (PAL) in temporary monitoring wells installed at the Property.

The Wisconsin Department of Natural Resources (WDNR) was subsequently notified of the release and a Bureau of Remediation and Redevelopment Tracking System (BRRTS) number was created for the Site (#02-

38-549224). Based on the work completed, additional sampling was necessary to further delineate the extent of soil, groundwater, and vapor contamination at the Site.

Between 2010 and 2018, AECOM completed additional Site Investigation (SI) work at the Property including the completion and sampling of numerous borings, wells, and vapor sampling points. Based on the site investigation data gathered, AECOM provided the following conclusions:

- Groundwater is present in the sandy soils at about 30 feet below grade and flows to the southeast.
- Soil PCE impacts are localized around the subsurface steel vessel on the west side of the building and at the ground surface near previous borings B-400 and B-500.
- The groundwater PCE plume is delineated and limited to the west side of USH 141 around the former dry cleaner building and is not extending off site to well nest MW-6/PZ-6.
- The groundwater impacts on site have been primarily NR 140 PAL exceedances with very limited ES exceedances next to the building.
- There are VOC vapor exceedances beneath the building but not within building.

On July 24, 2020, the WDNR recommended that additional vapor investigation be completed at the Site as well the neighboring restaurant to the north and a residential home to the west. Likewise, the WDNR also requested that a vapor investigation be performed on the sanitary sewer utility located to the south and west of the Site. Furthermore, the WDNR also requested that a piezometer be installed adjacent to existing monitoring well MW-8 and that the entire monitoring well network be resampled for VOCs.

Between June 2021 and January 2022, Stantec conducted sub-slab vapor sampling within the former Wausaukee Laundromat and the Ranger Family Restaurant. In addition, ambient air samples were also collected within the former laundromat as well as the basement and first-floors of the neighboring Siem residence and Ranger Family Restaurant. Finally, headspace air samples were also collected within the sanitary sewer manhole located at the intersection of Division Street and North Avenue.

PCE and TCE were detected in sub-slab vapor samples collected from both the former Wausaukee Laundromat and the Ranger Family Restaurant during the June 2021 sampling event. However, during the January 2022 sampling event, TCE was no longer detected within either of the former laundromat or Ranger Family Restaurant samples collected. Although detected, PCE and TCE sample concentrations were below established VRSLs for residential, small commercial, and large commercial/industrial sites.

Similarly, PCE was also detected within ambient and headspace air samples collected from the Siem basement, Siem first floor, laundromat, restaurant basement, restaurant first-floor kitchen, and the sanitary sewer manhole during the January sampling event. PCE was not, however, detected in samples collected from the Siem residence first floor or the laundromat during the June sampling event. Although detected, PCE concentrations in all ambient and headspace air samples were below established indoor air VALs for residential, small commercial, and large commercial/industrial sites.

Overall, vapor analysis showed TCE and/or PCE concentrations were present at all three properties. However, resulting concentrations were all been below applicable WDNR VRSLs and VALs. Stantec recommended that no further action was needed at this time regarding vapor intrusion investigation and that vapor mitigation did not appear to be necessary.

To date, the additional piezometer installation and monitoring well network sampling, as requested by the WDNR, has not been completed but is the focus of this Site-Specific Sampling and Analysis Plan.

2.0 DATA QUALITY OBJECTIVES

2.1 PROBLEM STATEMENT

Various environmental concerns associated with the Property have been identified but not yet fully investigated or assessed. The primary objective of the proposed additional SI is to further evaluate known releases that have affected groundwater quality at the Property particularly within future building locations associated with a potential redevelopment. This data will be used to develop a remedial action plan to manage the impacted soil, groundwater, and vapor during a proposed redevelopment.

2.2 CONCEPTUAL SITE MODEL

The “Triad approach” for characterization and remediation of contaminated sites was developed by U.S. EPA and others, with a goal of increasing confidence that project decisions about contaminant presence or absence, location, fate, exposure, and risk reduction choices, are made correctly and cost effectively. The foundation for site-related decisions that are both correct and optimized (from a cost-benefit standpoint) is the “Conceptual Site Model” (CSM) (Crumbling, 2004). CSM uses all available historical and current information to estimate:

- where contamination is (or might be) located.
- how much is (or might be) there.
- how variable concentrations may be and how much spatial patterning may be present.
- what is happening to contaminants as far as fate and migration.
- who might be exposed to contaminants or harmful degradation products; and
- what might be done to manage risk by mitigating exposure.

The CSM for the Property is that environmental impacts may be associated with the former uses of the Property and adjacent properties, which may have affected soil, groundwater, and/or air quality. Based on previous investigation on the Property, the depth to groundwater exists approximately 26 to 30 feet below ground surface (bgs) and is anticipated to flow east/southeast towards U.S. Highway 141 and neighboring residential properties.

Potential constituents of concern, as determined from potential contaminant sources identified during the Phase I ESA and subsequent assessment activities, include chlorinated solvent compounds.

3.0 SOIL ASSESSMENT

3.1 GENERAL

The proposed soil boring location is based on the environmental concerns and CSM detailed in Sections 1.3 and 2.2, respectively. Diggers Hotline will be contacted to locate and mark registered utilities in the project area. A private locating contractor may be retained to locate on-site and/or private underground utilities. Any investigative waste (i.e., soil cuttings and fluids) will be placed into labeled containers. Appropriate disposal of the waste will be determined based on the results of laboratory analyses.

The location for the soil boring will be documented using global positioning satellite (GPS) survey equipment. A site-specific Health and Safety Plan (HASP), to be utilized by Stantec personnel during the assessment activities, is presented in **Appendix A**.

3.2 OBJECTIVES

One soil borehole will be advanced adjacent to previous boring B-8/MW-8 on the Property to facilitate the installation of a piezometer to evaluate deep groundwater impacts as well as further define the extent and concentration of known contamination.

Standard operating procedures (SOPs) for tasks associated with this work plan are presented in the Quality Assurance Project Plan (QAPP) prepared by Stantec during August 2022 along with subsequent annual QAPP updates.

3.3 SOIL BORING AND SUBSURFACE ASSESSMENT

The soil assessment will include one additional soil borehole advanced on the Property using a rotary auger drill rig. The soil boring will be placed adjacent to existing boring B-8/MW-8. The soil boring will be blind drilled to a maximum depth of 100 feet bgs or to the top of existing bedrock. The actual depth of the boring may be adjusted based on existing bedrock depth at the boring location. The proposed borehole location is illustrated on **Figure 2**.

No soil samples will be collected for analysis as the piezometer is to be blind drilled and set with the assumption that lithology is similar to that of nested boring and monitoring well B-8/MW-8. All soil cuttings and fluids will be collected in 55-gallon drums or other secure containers (SOP No. 10). Each drum or container will be sealed, labeled, and stored in an appropriate location pending receipt of laboratory analytical results for the samples, which will be used to determine, what if any, special measures are necessary for handling and proper disposal of the soil cuttings and fluids.

3.3.1 Field Logbook

An up-to-date field logbook will be maintained by each sampling team to document daily activities (if more than one group of individuals is sampling). The logbook will include a general list of tasks performed, additional data, or observations not listed on field data sheets, and document communications with on-site personnel or visitors as these apply to the project.

4.0 GROUNDWATER ASSESSMENT

4.1 GENERAL

The proposed piezometer location and well network sampling analyses are based on the environmental concerns and CSM detailed in Sections 1.3 and 2.2, respectively. The additional soil borehole documented in Section 3.0 above will be converted into a piezometer that will extend to the top of bedrock. The location of all groundwater monitoring wells and piezometers will then be documented using GPS survey equipment. All ground surface and monitoring well casing elevations will also be resurveyed to provide a current groundwater flow direction at the Property.

4.2 OBJECTIVES

The sampling of all groundwater monitoring wells and piezometers are necessary to determine existing groundwater quality at the Property and adjacent properties. The additional piezometer will also help in determining the hydrostatic water pressure across the Site and neighboring properties.

4.3 GROUNDWATER ASSESSMENT

The groundwater assessment will include the installation of an additional piezometer in the soil boring upon completion. The proposed piezometer location can be found in **Figure 2**. It is anticipated that the piezometer depth will be completed to approximately 100 feet bgs, however, the installed depth of the new piezometer will depend on the actual depth where bedrock is encountered at the Site. The piezometer will be constructed using 2-inch diameter PVC casing with a 5-foot long 0.010-inch slotted-screen placed on top of the bedrock surface.

In addition to the newly installed piezometer, all existing monitoring wells and piezometers will also be resampled. These will be resampled to determine contaminant concentrations at this time. Prior to sampling, off-site access agreements will be obtained from the off-site property owners to complete the work.

Water levels will be measured at all wells and piezometers and used to document the groundwater elevations and obtain groundwater flow data for the Site. Each groundwater sample will be assigned a SIN based on the following format:

Sample Type	Label for Type of Sample	Location Number	Sample Round	Sample Identification No. (SIN)	Location ID
Monitoring well	MW	1	01	MW1(01)	MW1
Piezometer	PZ	6	01	PZ6(01)	PZ6
Field Duplicate	FD	---	---	FD1	---
Equipment Blank	EB	---	---	EB1	---
Trip Blank	TB	---	---	TB2	---

Prior to purging and collection of groundwater samples, water levels will be measured and the volume of water present within each well will be calculated using the procedures set forth in SOP No.04 (Stantec, 2013). Decontamination procedures for any non-dedicated or non-disposable equipment used for collection of groundwater samples will also be performed using the procedures set forth in SOP No. 08 (Stantec, 2013).

Measuring the depth and thickness of floating (light) and/or sinking (dense) non-aqueous phase liquids will be measured using an interface probe. SOP No. 04 details the procedures that will be used to detect immiscible layers. The interface probe will be decontaminated in accordance with SOP No. 08 (Stantec, 2013).

Each well will be purged prior to sampling in accordance with SOP No. 04 (Stantec, 2013). If the geologic materials surrounding the well are low yielding, then the wells will be completely evacuated, and groundwater samples will be collected after the water level recovers sufficiently to provide the volume of water needed to fill sample containers for the desired analyses. The wells may be purged using any of the following methods or equipment: a purge pump or a disposable polyethylene bailer. Any non-disposable purging equipment used will be decontaminated (SOP No. 08) before the start of sampling and after use in each well prior to purging of the next well.

All purge water will be collected in 55-gallon drums or other secure containers (SOP No. 10). Each drum or container will be sealed, labeled, and stored in an appropriate location pending receipt of laboratory analytical results for the groundwater samples, which will be used to determine, what if any, special measures are necessary for handling and proper disposal of the purge water.

After purging, groundwater samples will be collected by using a purge pump or a disposable polyethylene bailer from all network groundwater wells and submitted for laboratory analysis.

4.3.1 Special Handling Considerations and QA/QC Samples

The newly constructed piezometer along with the existing network wells will be sampled for VOC laboratory analysis. Anticipated laboratory analytical methods for groundwater samples are summarized in **Table 1**.

Collection and preservation of VOC groundwater samples will be performed in accordance with SOP No. 04 (Stantec, 2013). Trip blanks prepared by the analytical laboratory will accompany the sample bottles from the time of shipment from the laboratory through the time the samples are returned for analysis. Trip blanks will be used to document any contamination detected in samples that may be attributable to shipping and field handling procedures, or contaminated sample containers. Trip blanks will be provided by the laboratory and will be subject to the same handling and transportation procedures as the investigative samples. At least one trip blank sample will accompany each shipping container that contains samples for VOC analysis.

If non-disposable sampling equipment is used, equipment blanks will be prepared by: (a) filling the decontaminated sampling device with laboratory-supplied reagent-grade water; (b) transferring the water to appropriate sample containers; and (c) submitting the sample for analysis. If contaminants are found in the equipment or trip blanks, the source for the contamination will be assessed and corrective action measures taken (such as modifying the sampling procedures and/or resampling as appropriate). The estimated number of equipment blank samples to be analyzed for each contaminant of concern is shown in **Table 1**.

Duplicate samples will be collected and analyzed to evaluate sample variability and overall data precision. For groundwater samples, the duplicate samples will be “field replicate samples” collected at the same time from the same well. To the extent practicable, multiple bottles associated with a set of duplicate samples will be filled in two or three stages such that each bottle receives a portion of the water from each section of the bailer, or each interval of sample pump operation. In recognition that data for duplicate samples are most meaningful when there are detectable concentrations present of constituents of concern, if there are existing groundwater data, or other data by which to anticipate wells with greater levels of contamination, duplicate samples will be preferentially collected from wells where detectable concentrations of constituents of concern are most likely to be present. Otherwise, duplicate samples will be collected from a randomly selected well or wells. Duplicate samples will be collected and analyzed for constituents at a rate of one sample for every 20 or fewer investigative samples to be analyzed for each constituent. The estimated number of duplicate samples to be collected and analyzed for each constituent is shown in **Table 1**.

4.3.2 Chain-Of-Custody

Chain-of-custody procedures will be utilized to track possession and handling of individual samples from the time of collection in the field through the time of delivery to the analytical laboratory. The chain-of-custody program will include use of sample labels, custody seals, field logbooks, chain-of-custody forms, and laboratory logbooks. All chain-of-custody procedures will be performed in accordance with SOP No. 07 (Stantec, 2013).

4.3.3 Field Logbook

An up-to-date field logbook will be maintained for each project by each sampling team to document daily activities (if more than one group of individuals is sampling). The logbooks will include a general list of tasks performed, additional data, or observations not listed on field data sheets, document communications with on-site personnel or visitors, and site conditions as these apply to the project.

5.0 REPORT

The SI will enable refinement of the conceptual model of the physical subsurface conditions and contaminant sources at the Site as well as the extent of contamination. The SI report will include:

- Laboratory Analytical Reports;
- Soil Boring Logs;
- Monitoring Well Diagrams;
- Field PID Data;
- Groundwater Elevation Data;
- Tables Summarizing Analytical Results for Soil and Groundwater Samples;
- Maps of Boring Locations and Utilities; and
- Potentiometric Surface Map of Shallow Groundwater

Recommendations for future actions, if any, to facilitate redevelopment of the Site will be provided in the SI Report.

6.0 REFERENCES

Stantec, 2023 (July). "Quality Assurance Project Plan (Revision 0), Implementation of U.S. EPA Assessment Grants for Petroleum and Hazardous Substance Brownfields, Bay-Lake Regional Planning Commission, U.S. EPA Cooperative Agreement No. BF – 00E003196-0."

Stantec, 2007 (May). "Phase I Environmental Site Assessment, Wausaukee Laundromat, 816 North Avenue Wausaukee, WI".

Stantec, 2007 (May). "Phase II Environmental Site Assessment, Wausaukee Laundromat, 816 North Avenue Wausaukee, WI".

AECOM, 2013 (October). "October 2013 Summary Report, Former Wausaukee Laundromat Site, 816 North Avenue Wausaukee, WI".

Stantec, 2022 (May). "Vapor Assessment Update for the Former Wausaukee Laundromat, 816 North Avenue Wausaukee, WI".

Crumbing, D. "Summary of the Triad Approach" White Paper, U.S. EPA, Office of Superfund Remediation and Technology Innovation." March 25, 2004.

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FIGURES



**SITE
LOCATION**

SCALE IN FEET

1" = 2000'



CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

BASE MAP SOURCE: USGS 7.5 MINUTE QUADRANGLE, WAUSAUKEE NORTH, WISCONSIN, 1980 (NATIONAL GEOGRAPHIC HOLDINGS, INC.)



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SITE LOCATION MAP

**FORMER WAUSAUKEE LAUNDROMAT
816 NORTH AVENUE
WAUSAUKEE, WISCONSIN**

This drawing and all information contained thereon is the property of Stantec. Stantec will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.





DATE: 08/15/23	DRAWN BY: JRB	PROJECT MANAGER: LPC	PROJECT NUMBER: 193709667	FIGURE 1
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SCALE IN FEET



LEGEND

-  MW-1 MONITORING WELL LOCATION
-  PZ-6 PIEZOMETER LOCATION
-  PZ-8 PROPOSED PIEZOMETER LOCATION
-  APPROXIMATE PROPERTY LINE (BRRTS #02-38-549224)



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SITE LAYOUT WITH PROPOSED PIEZOMETER LOCATION

FORMER WAUSAUKEE LAUNDROMAT
 816 NORTH AVENUE
 WAUSAUKEE, WISCONSIN

DATE: 08/15/23	DRAWN BY: JRB	PROJECT MANAGER: LPC	PROJECT NUMBER: 193709667	FIGURE 2
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TABLES

TABLE 1
 PROPOSED LABORATORY ANALYSIS FOR GROUNDWATER
 FORMER WAUSAUKEE LAUNDROMAT
 816 NORTH AVENUE, WAUSAUKEE, WI
 U.S. EPA BROWNFIELD AGREEMENT NO. BF-00E03196-0

Matrix	Sample Location ID	Estimated Well Depth (feet)	Sampling Objective	Constituent of Concern; Analytical Methods; Sample Depth, Frequency, and/or Rationale for Sample Selection	
				VOCs	
				Field Screening	Lab Analyses
Water	MW1 through MW8	80	Sample existing monitoring well network to establish current contaminant concentrations.	None	Analyze one groundwater sample for VOCs.
	PZ6 & PZ8	90	Sample existing and new piezometer to establish current contaminant concentrations and hydrostatic water pressure across the site.	None	Analyze one groundwater sample for VOCs.
	FD	NA	Analyze one FD for every 20 or fewer investigative samples to be analyzed for each constituent	None	Analyze one FD sample per shipment containing VOC samples for analysis
	EB	NA	Analyze one EB for every 20 or fewer investigative samples to be analyzed for VOCs and PFAS if non-disposable sampling equipment is used	None	None
	TB	NA	Analyze one TB for every cooler shipped to the laboratory storing samples for VOC analysis	None	Analyze one TB sample per shipment containing VOC samples for analysis

Notes: EB = equipment blank
 FB = field blank
 FD = field duplicate
 NA = not applicable
 PID = photoionization detector

TB = trip blank
 VOCs = volatile organic compounds

APPENDIX A – SITE-SPECIFIC HEALTH AND SAFETY PLAN

- If the project requires fieldwork, a HASP or RMS1 must be completed.
- If the scope of work for a project that originally did not involve field work changes to include field work, an RMS1 form must be completed and reviewed with employees before field work begins.
- Although the RMS1 is intended to be part of the desktop planning process for a project, please be aware that the RMS1 must be carried as a field resource as well, to complement use of the Field Level Risk Assessment (RMS2).

Date: August 28, 2023	This form expires 1 year from the date of creation	
Project / proposal number: 193709667	Project name: Baylake Regional Planning – Wausaukee Laundromat	
Location: 816 N Avenue, Wausaukee, WI		
Project description (Companies involved, what, where, when) Stantec will oversee installation of a new piezometer and sample alleexisting site wells.		
Does this project involve fieldwork?	Yes - continue with this form	
Is this project remote work?	No	
What method of communication will be used?	<input checked="" type="checkbox"/> Cell Phone	<input type="checkbox"/> Satellite Phone
	<input type="checkbox"/> Spot Messenger	<input type="checkbox"/> Other:
Is there a call in – call out system?	No	
Are there any unique security concerns?	No	
Will workers on this project be crossing into different states/provinces or countries?	No	
Is Stantec the Constructor/Prime Contractor?	Yes - please contact the HSSE Advisor or Manager for the province, state or country that your staff are working in for guidance on HSSE regulations.	
Is Stantec hiring subcontractors?	Yes - please confirm that your subcontractor is prequalified . If you have any questions, please email mailto:sub.prequal@stantec.com .	
Will Stantec staff or subcontractors be working alone?	No	
Client/Constructor HSSE training required?	No	
Is there a Client/Constructor HSSE program that the project is required to follow?	No	
Will this project require international travel outside of North America?	No	
List the major tasks associated with this project.		
1. mobilize to the site.		
2. Oversee new piezomter installation.		
3. Develpe new piezomter.		
4. Purge and sample all existing monitoring wells.		
5. Click here to enter text		
6. Click here to enter text		
7. Click here to enter text		
8. Click here to enter text		
9. Click here to enter text		
10. Click here to enter text		

Identify critical risk(s) that staff may encounter on this project.
For each critical risk identified, review the flatsheet using the In Case of Crisis app or a printed copy.

 Driving	 Working at Heights	 Traffic Control	 Wildlife, Insects, and Vegetation	 Mobile and Heavy Equipment	 Environments with Water or Ice
Yes	No	No	Yes	Yes	No
 Ground Disturbance	 Ergonomic Hazards and Manual Handling	 Hazardous Materials and Environments	 Control of Hazardous Energy	 Hot Work	 Confined Spaces
Yes	Yes	Yes	No	No	No

When assessing energy sources please consider task and site hazards including activities, time of day, time of year and project stages. If an SWP for a task below is not available, please perform a Quantified Hazard Assessment (RMS7) for the task and include below.




Please identify SWPs below that apply to your project:




- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> SWP 107 – First Aid | <input type="checkbox"/> SWP 111 – Medical Surveillance | <input checked="" type="checkbox"/> SWP 105 – PPE |
| <input type="checkbox"/> SWP 103 – WHMIS (CA) | <input type="checkbox"/> SWP 104 – HAZCOM (US) | <input type="checkbox"/> SWP 118 – Working Alone In the Field |
| <input type="checkbox"/> SWP 501 – Satellite-Based Communication Systems | | |


	Hazards	Applicable SWPs, forms, SOPS, RMS7s	Specialized training beyond the SWPs	Specific Site Controls
--	---------	-------------------------------------	--------------------------------------	------------------------


Thermal				
	<input checked="" type="checkbox"/> Cold stress <input type="checkbox"/> Cold surfaces <input checked="" type="checkbox"/> Heat stress <input type="checkbox"/> Hot surfaces <input type="checkbox"/> Hot work <input checked="" type="checkbox"/> Weather conditions <input type="checkbox"/> Other:	<input type="checkbox"/> SWP 514 - Working on Ice-Covered Bodies of Water <input checked="" type="checkbox"/> SWP 114 - Working in Cold Environments <input checked="" type="checkbox"/> SWP 113 - Heat Illness Prevention <input type="checkbox"/> SWP 414, 414a – Hot Work Enter additional SWPs, SOPS	Enter specialized training	Take appropriate breaks to warm up or cool down. Proper clothing attire for conditions.

Chemical				
	<input type="checkbox"/> Oxygen deficient atmosphere <input type="checkbox"/> H ₂ S (Hydrogen sulfide) <input type="checkbox"/> Asbestos <input type="checkbox"/> Silica <input type="checkbox"/> Acids <input type="checkbox"/> Caustics <input type="checkbox"/> Petroleum hydrocarbons <input type="checkbox"/> Solvents/Flammables <input type="checkbox"/> Volatile organic compounds <input type="checkbox"/> Heavy metals <input type="checkbox"/> Benzene <input type="checkbox"/> Lead <input type="checkbox"/> Arsenic <input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAH) <input type="checkbox"/> PCBs	<input type="checkbox"/> SWP 409 - Respiratory Protection Program <input type="checkbox"/> SWP 411, 411a, 411b, 411c – Confined Space Entry <input type="checkbox"/> SWP 304 - Asbestos Safety <input type="checkbox"/> SWP 309 - Silica Awareness <input type="checkbox"/> SWP 312 - Fueling Gasoline Engines <input type="checkbox"/> SWP 305 - Benzene Safety <input type="checkbox"/> SWP 306 - Hydrogen Sulfide <input type="checkbox"/> SWP 314 - Working Around Hazardous Waste and Wastewater <input type="checkbox"/> SWP 315 - Arsenic Safety <input type="checkbox"/> SWP 319 - Hydrogen Fluoride / Hydrofluoric Acid Safety	Enter specialized training	Use of proper PPE.

	<input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/> Hydrogen fluoride / Hydrofluoric acid <input checked="" type="checkbox"/> Other: PCE/TCE	<input type="checkbox"/> SWP 519 - Post-Disaster Building Entry <input type="checkbox"/> SWP 521 - Protection From Wildfire Smoke Enter additional SWPs, SOPs		
Biological				
	<input type="checkbox"/> Wildlife <input type="checkbox"/> Domestic animals (dogs, cattle) <input checked="" type="checkbox"/> Bees / wasps / hornets <input checked="" type="checkbox"/> Ticks <input type="checkbox"/> Black flies <input checked="" type="checkbox"/> Other stinging or biting insects <input checked="" type="checkbox"/> Pedestrians / onlookers <input type="checkbox"/> Protesters <input type="checkbox"/> Poison ivy <input type="checkbox"/> Poison oak <input type="checkbox"/> Giant hogweed <input type="checkbox"/> Wild parsnip <input type="checkbox"/> Sewage <input type="checkbox"/> Wastewater <input type="checkbox"/> Domestic waste <input type="checkbox"/> Medical waste <input type="checkbox"/> Bloodborne pathogens <input type="checkbox"/> Bacterial cultures <input type="checkbox"/> Other: <input type="checkbox"/> Other: <input type="checkbox"/> Other: <input type="checkbox"/> Other:	<input type="checkbox"/> SWP 409 - Respiratory Protection Program <input type="checkbox"/> SWP 314 - Working Around Hazardous Waste and Wastewater <input type="checkbox"/> SWP 108 - Bloodborne Pathogens <input type="checkbox"/> SWP 508 - Preparing for Animal Encounters <input type="checkbox"/> SWP 102 - Workplace Violence Prevention Program <input type="checkbox"/> SWP 510 - Working in Abandoned Buildings <input checked="" type="checkbox"/> SWP 511 - Ticks and Tickborne Diseases <input type="checkbox"/> SWP 519 - Post-Disaster Building Entry <input type="checkbox"/> SWP 119 - Gaining Access to Private Property Enter additional SWPs, SOPs	Enter specialized training	Enter specific controls
Radiation				
	<input checked="" type="checkbox"/> Solar (UVA/UVB) <input type="checkbox"/> Welding <input type="checkbox"/> Nuclear densometers <input type="checkbox"/> NORMs <input type="checkbox"/> Microwave <input type="checkbox"/> Other:	<input type="checkbox"/> SWP 502, 502a-q (CA) - Radiation Safety Program Field Manual for Portable Gauges (Canada) <input type="checkbox"/> SWP 516, 516a-e (US) - Radiation Safety - Nuclear Density Gauges (US) Enter additional SWPs, SOPs	Enter specialized training	Use of sunscreen as needed on areas not protected by clothing.
Noise				
	<input checked="" type="checkbox"/> Mobile equipment <input type="checkbox"/> Stationary equipment <input type="checkbox"/> Manual equipment <input type="checkbox"/> Impact <input type="checkbox"/> Vibration <input type="checkbox"/> Impact on communications <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> SWP 106 - Noise Control and Hearing Conservation Program Enter additional SWPs, SOPs	Enter specialized training	Use of proper hearing protection PPE.

Gravity			
	<input checked="" type="checkbox"/> Slip / Trip / Fall <input type="checkbox"/> Work from heights <input type="checkbox"/> Falling objects <input type="checkbox"/> Other:	<input type="checkbox"/> SWP 201 - Fall Protection / Working from Heights <input type="checkbox"/> SWP 202 - Portable Ladder Safety <input type="checkbox"/> SWP 203 - Aerial Work Platforms <input type="checkbox"/> SWP 205 - Scaffold Safety <input type="checkbox"/> SWP 208 - Hoisting and Lifting <input type="checkbox"/> SWP 510 - Working in Abandoned Buildings Enter additional SWPs, SOPs	Enter specialized training Be aware of surroundings and uneven terrain.
Motion			
	<input type="checkbox"/> Working near traffic <input checked="" type="checkbox"/> Automobile/truck/trailer <input type="checkbox"/> Construction equipment <input type="checkbox"/> Elevated work platform <input type="checkbox"/> Pedestrians <input type="checkbox"/> Cyclists <input type="checkbox"/> Rail <input type="checkbox"/> ATV <input type="checkbox"/> ARGO <input type="checkbox"/> Watercraft / water <input type="checkbox"/> Snowmobile <input type="checkbox"/> Aircraft (fixed wing or rotary) <input type="checkbox"/> UAVs/Drones <input checked="" type="checkbox"/> Walking/Hiking <input checked="" type="checkbox"/> Lifting <input checked="" type="checkbox"/> Pushing/Pulling <input checked="" type="checkbox"/> Bending <input checked="" type="checkbox"/> Posture/position <input type="checkbox"/> Climbing <input type="checkbox"/> Twisting <input type="checkbox"/> Other:	<input type="checkbox"/> SWP 507 - Aircraft Safety <input checked="" type="checkbox"/> SWP 124, 124a, 124b – Safe Driving <input checked="" type="checkbox"/> SWP 216 - Working Near Mobile Equipment <input type="checkbox"/> SWP 217, 217a – Forklift Operations <input type="checkbox"/> SWP 407, 407a – Traffic Control & Protection Planning <input type="checkbox"/> SWP 505, 505a, 505b, 505c, 505d - Off Road Vehicles <input type="checkbox"/> SWP 506 - Rail Safety - North America <input type="checkbox"/> SWP 115 - Material Handling and Safe Lifting <input type="checkbox"/> SWP 125 - Workstation Ergonomics <input type="checkbox"/> SWP 513 - Water and Boat Safety Enter additional SWPs, SOPs	Enter specialized training Defensive driving, site awareness, proper lifting techniques, correct posture and stretching before work.
Mechanical			
	<input type="checkbox"/> Cutting edges <input type="checkbox"/> Blades <input checked="" type="checkbox"/> Rotating parts (e.g., drill/auger) <input type="checkbox"/> Wrap points <input type="checkbox"/> Shear points <input type="checkbox"/> Pinch points <input type="checkbox"/> Freewheeling point <input type="checkbox"/> Chains <input type="checkbox"/> Cables <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> SWP 416 - Supervision of Drilling Activities <input type="checkbox"/> SWP 518, 518a – Using a Chainsaw <input type="checkbox"/> SWP 206 - Hand and Portable Power Tools <input type="checkbox"/> SWP 517 - Safe Machete Use <input type="checkbox"/> SWP 408, 408a, 408b, 408c – Lock, Tag & Try <input checked="" type="checkbox"/> SWP 216 - Working Near Mobile Equipment Enter additional SWPs, SOPs	Enter specialized training Site awareness around heavy drill equipment.

Electrical				
	<input checked="" type="checkbox"/>	Power and communication lines	<input checked="" type="checkbox"/> SWP 213, 213a, 213b, 213c – Ground Disturbance and Overhead Utility	Enter specialized training Confirm utility locate completed, verify all utilities onsite.
	<input type="checkbox"/>	Static charge and lightning		
	<input type="checkbox"/>	Wiring	<input type="checkbox"/> SWP 406, 406a, 406b – Electrical Safety Program	
	<input type="checkbox"/>	Batteries		
	<input type="checkbox"/>	Lighting levels	<input type="checkbox"/> SWP 408, 408a, 408b, 408c – Lock, Tag & Try	
	<input type="checkbox"/>	Wet environment	<input type="checkbox"/> SWP 504 - Electrofishing Safety	
	<input type="checkbox"/>	GFCI cords/plugs	<input type="checkbox"/> SWP 519 - Post-Disaster Building Entry	
	<input type="checkbox"/>	Double insulated tools		
	<input type="checkbox"/>	Exposed circuits		
<input type="checkbox"/>	Other:	Enter additional SWPs, SOPs		

Pressure				
	<input type="checkbox"/>	Excavations and spoil piles	<input type="checkbox"/> SWP 215 - Supervision of Vacuum-Excavation Activities	Enter specialized training Site awareness around heavy drilling equipment.
	<input checked="" type="checkbox"/>	Hydraulic systems	<input type="checkbox"/> SWP 310 - Compressed Gas Cylinders	
	<input type="checkbox"/>	Pneumatic systems	<input type="checkbox"/> SWP 214 - Working in or Near Excavations	
	<input type="checkbox"/>	Steam		
	<input type="checkbox"/>	Vacuum		
	<input type="checkbox"/>	Cylinders	Enter additional SWPs, SOPs	
	<input type="checkbox"/>	Other:		

PPE	REQ'd	If you need assistance to answer these questions, please contact an HSSE advisor or HSSE manager.		
Head (CSA/ANSI)	<input checked="" type="checkbox"/>	Choose a Type and Class: <input checked="" type="checkbox"/> Type 1 (no side impact) <input type="checkbox"/> Class E (rated for 20000 volts) <input type="checkbox"/> Type 2 (side impact) <input type="checkbox"/> Class G (rated for 2200 volts) <input type="checkbox"/> Other <input type="checkbox"/> Class C (no electrical rating)		
Eye/face (CSA/ANSI)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Safety glasses with rigid side shields <input type="checkbox"/> Safety glasses and face shield <input checked="" type="checkbox"/> Polarized safety glasses with rigid side shields <input type="checkbox"/> Goggles and face shield <input type="checkbox"/> Goggles <input type="checkbox"/> UV glasses, UV shield <input type="checkbox"/> Spoggles		
Hand	<input checked="" type="checkbox"/>	Hazard Protection <input checked="" type="checkbox"/> Abrasion <input type="checkbox"/> Cut <input type="checkbox"/> Vibration <input type="checkbox"/> Puncture <input type="checkbox"/> FR (flame resistant) <input type="checkbox"/> Arc Flash <input checked="" type="checkbox"/> Chemical <input type="checkbox"/> Impact <input type="checkbox"/> Cold <input type="checkbox"/> Heat <input type="checkbox"/> Other:		
		Glove Type <input checked="" type="checkbox"/> Nitrile <input checked="" type="checkbox"/> Leather <input type="checkbox"/> Cotton <input type="checkbox"/> High Performance Polyethylene <input type="checkbox"/> Polyurethane <input type="checkbox"/> Kevlar <input type="checkbox"/> Latex <input type="checkbox"/> PVC <input type="checkbox"/> Neoprene <input type="checkbox"/> Viton <input type="checkbox"/> Other:		
Foot (6" minimum ankle support)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> CSA Green triangle and orange omega boots (CA) / ASTM / ANSI boots (US) <input type="checkbox"/> CSA Green triangle and orange omega waders (CA) / ASTM / ANSI waders boots (US) <input type="checkbox"/> CSA Green triangle and orange omega rubber boots (CA) / ASTM / ANSI rubber boots (US) <input type="checkbox"/> Traction Aids		
High visibility clothing	<input checked="" type="checkbox"/>	Class 1 - not used <input type="checkbox"/> Class 3 (over 80km/h / 50 mph and/or twilight/dark) <input checked="" type="checkbox"/> Class 2 (under 80km/h / 50 mph and daylight)		

Hearing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Ear plugs <input type="checkbox"/> Ear plugs and muffs <input type="checkbox"/> Ear muffs
Coveralls	<input type="checkbox"/>	<input type="checkbox"/> Standard <input type="checkbox"/> FR (Flame Resistant) – Type: <input type="checkbox"/> Tyvek (disposable) <input type="checkbox"/> Chemical resistant
Respiratory	<input type="checkbox"/>	<input type="checkbox"/> N95 (dust mask) <input type="checkbox"/> 1/2 mask - Cartridge type: - Filter type: <input type="checkbox"/> Full face - Cartridge type: - Filter type: <input type="checkbox"/> PAPR - Cartridge type: - Filter type:
Fall arrest/limit	<input type="checkbox"/>	<p>Fall arrest harness (verify capacity)</p> <input type="checkbox"/> Class A (fall arrest) <input type="checkbox"/> Class D (controlled descent) <input type="checkbox"/> Class E (evacuation) <input type="checkbox"/> Class L (ladder) <input type="checkbox"/> Class P (positioning) <p>Lanyard</p> <input type="checkbox"/> 6' with shock absorber (verify capacity) <input type="checkbox"/> 4' with shock absorber (verify capacity) <input type="checkbox"/> 6' Y with shock absorber (verify capacity) <input type="checkbox"/> 6' with NO shock absorber (verify capacity) for use on aerial lifts <input type="checkbox"/> 4' with NO shock absorber (verify capacity) for use on aerial lifts <input type="checkbox"/> Other: <p>Additional equipment</p> <input type="checkbox"/> Rope Grab <input type="checkbox"/> Rope <input type="checkbox"/> Self-retracting lifeline – <input type="checkbox"/> SRL <input type="checkbox"/> SRL-R (integral rescue capability) <input type="checkbox"/> SRL-LE (leading edge capability) <input type="checkbox"/> Tripod <input type="checkbox"/> Retrieval winch <input type="checkbox"/> Anchorage connector <input type="checkbox"/> Beam anchor <input type="checkbox"/> Vertical or horizontal lifeline <input type="checkbox"/> Carabiner <input type="checkbox"/> Suspension trauma straps
Flotation device	<input type="checkbox"/>	<input type="checkbox"/> Lifejacket <input type="checkbox"/> PFD inflatable <input type="checkbox"/> Floater Jacket <input type="checkbox"/> Survival Suit <input type="checkbox"/> PFD - Type:
Other	<input type="checkbox"/>	Click or tap here to enter text.

EMERGENCY RESOURCES

(NOTE: This plan is not adequate for [working at heights](#) or [confined space](#) activities. A separate plan is required, please contact your Regional HSSE Manager or Advisor.)

Site emergency number:	911	Fire Department:	911
Ambulance:	911	Spill Response:	WDNR 24 Hour Spill Response Hotline – 1-800-943-0003
Police:	911	Regional HR:	US North Central & South - Andrea Anderson - (941) 225-6173
Workers' Compensation Claim Coordinator:	US - Melissa Helton - cell 513-720-3706		
OSEC:	Evan Weber – (920) 309-2509		
Public Relations:	Ashley Warnock - (780) 969-6610		
HSSE Manager:	US North Central – Wes Cline (916) 281-7459		
First aid facilities are located:	Stantec Vehicle		
First aiders on site:	Jeff Brand, Evan Weber, Tyler Hischke		
Fire extinguisher are located:	Stantec Vehicle		
SDS are located:	N/A		
Eyewash station is located:	Stantec Vehicle		
Spill response equipment is located:	N/A		
Muster point is located	N/A		

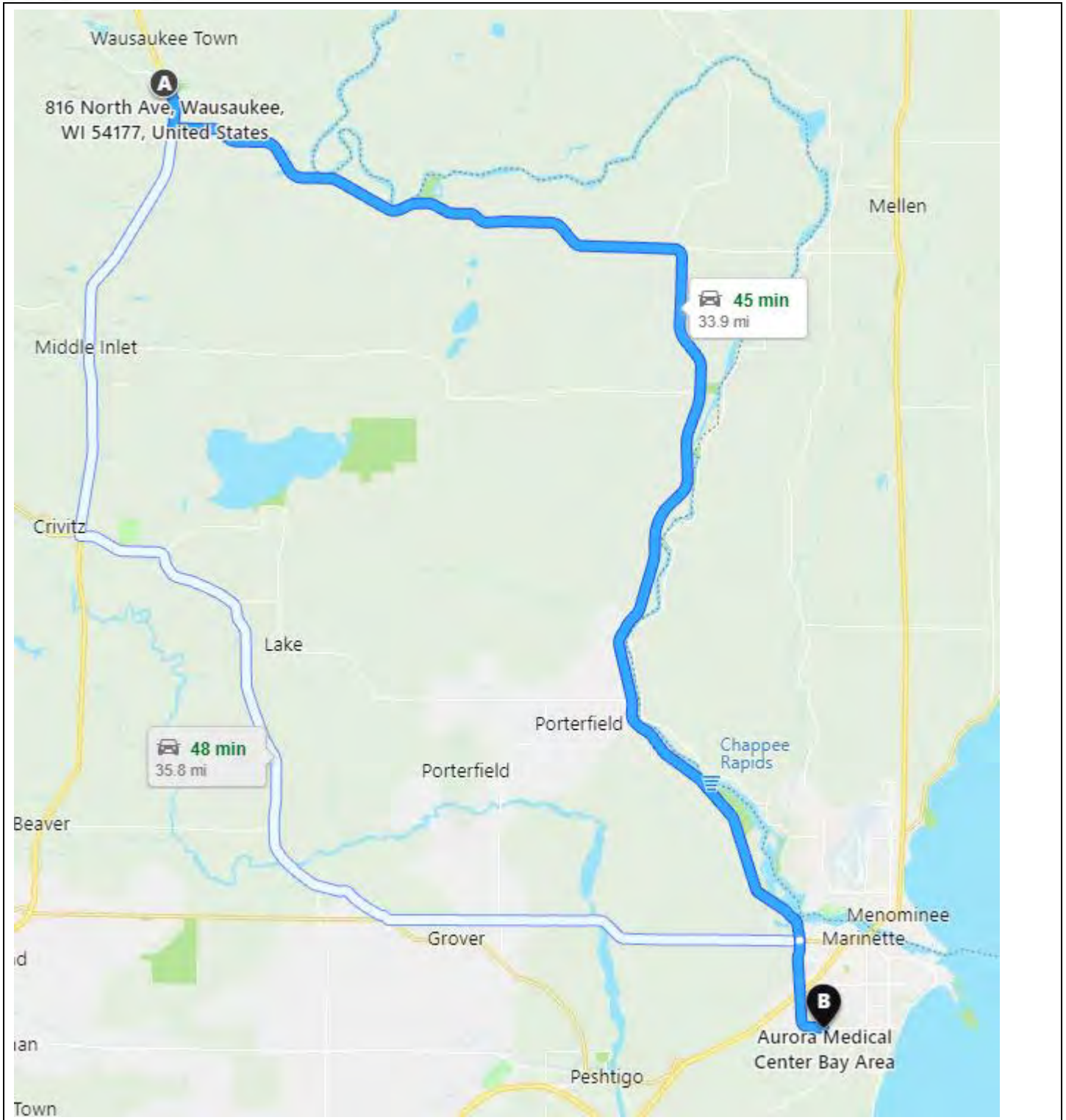
Incident reporting protocol based on work location (Select USA and / or Canada and / or International)

Incident Reporting Protocol US

IMMEDIATE ACTIONS

1. Keeping safety in mind, care for injured people (if applicable) and stabilize the scene.
2. For life threatening injuries, **immediately contact 911**. Accompany the injured employee to the medical facility whenever possible.
3. Call **WorkCare (24-hour service): 1-888-449-7787** for work-related symptoms or injuries and speak to a medical professional for guidance and treatment options.
4. Make voice contact with your supervisor within 1 hour or less of the incident occurring. Leaving a voicemail does not count. If you cannot contact your supervisor, contact the HSSE Manager or HSSE Advisor for your region.
5. Supervisors must immediately contact their HSSE Manager or HSSE Advisor by phone to discuss incident severity and determine if further notifications (internal or external) are required.
6. When an employee is guided by WorkCare to obtain medical assistance, or the employee requests medical attention for a non-life-threatening injury, and after alerting the supervisor; the employee must **immediately call Melissa Helton, Stantec's US WC Claims Coordinator at 513-720-3706** for assistance.
7. In most cases WorkCare will provide guidance about which clinic is available and provide directions. Here is a link accessing additional clinic locations: Clinic Search [link](#).
8. Additional notifications may be required based on the client requirements

Maps are provided to the nearest medical clinic or hospital



PROJECT CONTACT INFORMATION

Title	Name	Company	Phone Number
Stantec Office	DePere, WI Office	Stantec	(920) 592-8400
Project Manager	Lynelle Caine	Stantec	(920) 655-7211
Project Site Safety	Jeff Brand	Stantec	(920) 883-8501
Client or Owner	John Lefebvre	Maninette County	(715) 923-4794
Stantec After-Hours Number	Lynelle Caine	Stantec	(920) 655-7211
Other: (specify)	Click here to enter text	Click here to enter text	Phone Number
Other: (specify)	Click here to enter text	Click here to enter text	Phone Number

Approvals

By signing this approval, the Project Manager is acknowledging that (s)he has communicated the hazards, controls, required PPE and applicable SWPs to the employees working on this project. It also indicates that the Project Manager has communicated to employees that they must have the equipment required to work safely, they must verify the equipment is in working order, and that they have the knowledge required to operate/use the equipment.

Prepared by:	Jeff Brand		8/28/2023
	Print Name	Signature	Date
Reviewed by: <i>(not author)</i>	Tyler Hischke		8/28/2023
	Print Name	Signature	Date
Approved by PM:	Lynelle Caine		8/28/2023
	Print Name	Signature	Date

Employee Review

All employees conducting field work on this project will review the Risk Management Strategy (RMS1) and sign below acknowledging that they have been advised of the hazards, controls, PPE, and other safety equipment required, and have reviewed the applicable SWPs. Employees in the field who identify additional hazards not listed above will notify the project manager of the hazard, and prior to proceeding, will confirm the controls that will be used. Document any on-site changes and communications using the RMS2 as appropriate; see section 4.5 of the HSSE Program Manual on Management of Change.

Please designate Team Lead for field activities below.

Reviewed by:	Jeff Brand		8/28/2023
	Print Name (Team Lead Field)	Signature	Date
	Click here to enter text.		Click here to enter a date.
	Print Name	Signature	Date
	Click here to enter text.		Click here to enter a date.
	Print Name	Signature	Date
	Click here to enter text.		Click here to enter a date.
	Print Name	Signature	Date
	Click here to enter text.		Click here to enter a date.
	Print Name	Signature	Date