

Document Name: **Contingency and Pollution Prevention Plan –
Clarington TS**

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Purpose and Scope

The purpose of this Contingency and Pollution Prevention Plan, also known as an Emergency Response Plan (ERP), is to provide quick access to critical information in the initial stages (i.e. first 24 hours or less) of an emergency situation at Clarington TS. This plan must be referenced when determining what actions are appropriate when responding to an emergency situation.

This plan applies to all Hydro One Networks Inc. (Networks) employees and contractors working on behalf of Networks who are required to respond to emergency situations at Clarington TS.

Revision History

Version	Brief Description of Revisions
R0	This is a new document. It complies with Hydro One’s requirements for Health, Safety and Environment Emergency Preparedness and Response.
R1	The following revisions were made to the document on November 21, 2014: The title was changed to “Contingency and Pollution Prevention Plan”; the 911 Site Address/Location was updated; Emergency Contacts and Directions to Nearest Hospital were added; and the document location was added in Section 2.0.
R2	Section 2.2.3 - Liquid Spill Response Procedure Flow Chart was revised.

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1.0 Emergency Contact Information

1.1 Emergency Help Using Hydro One Radios

In areas with no phone service, the truck radio system will be used across Ontario for communication in the event of an HSE emergency situation.

- Push button #1 and hold for four (4) seconds.
- This will open a radio channel directly to the OGCC.

1.2 911 Site Address/Location/Direct Emergency Phone Numbers

Site Name: **Clarington TS**

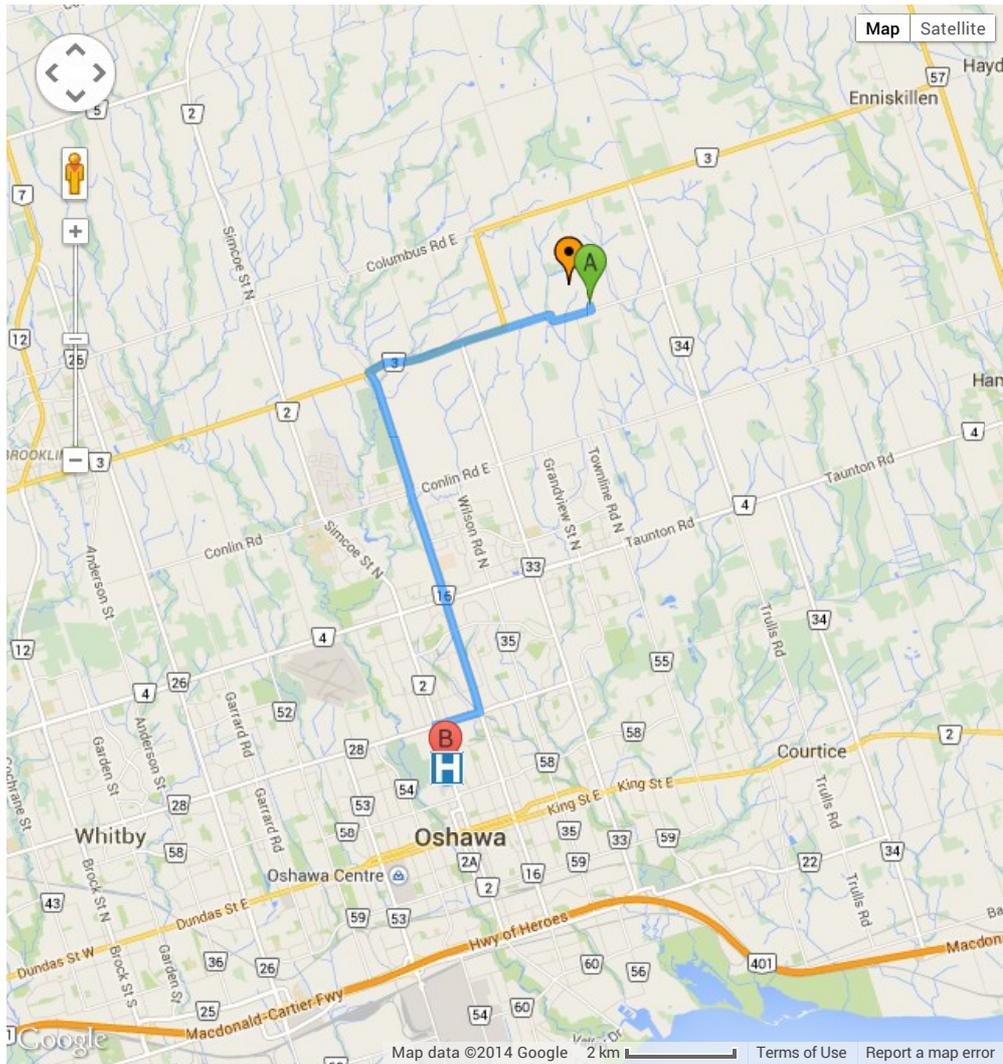
911 Site Address: **2745 Townline Road North, Municipality of Clarington, Durham Region**

Emergency Service Information Report

Job Location: CLARINGTON TS, 2745 TOWNLINE ROAD NORTH, MUNICIPALITY OF CLARINGTON, DURHAM REGION

Police	Phone #	(905) 579-1520 Ext: 6234
Ambulance	Phone #	(905) 430-5530
Fire	Phone #	(905) 443-1234
Nearest Hospital	Name	LAKERIDGE HEALTH CORPORATION - OSHAWA
	Address	1 HOSPITAL CRT, OSHAWA, ONTARIO
	Phone #	(905) 576-8711
Poison Control	Phone #	1-800-268-9017
MOE Spills Action Centre	Phone #	1-800-268-6060
MOL	Phone #	(647) 777-5005
ESA	Phone #	(877) 372-7233
TSSA	Phone #	# 1-877-682-8772 (TSSA)
MNR	Phone #	(905) 713-7400
Gas Company	Name	ENBRIDGE GAS
	Phone #	(866) 763-5427
Search & Rescue	Phone #	1-800-267-7270
Phone Company	Name	TEL-19 BCE ONTARIO: BELL MOBILITY
	Phone #	(800) 668-6878

Directions to Nearest Hospital



Driving Directions

A 1465 Concession Road 7, Hampton, ON L0B 1J0, Canada

12.6 km - about 15 mins

1. Head southeast toward Concession Rd 7 74 m
- ➡ 2. Turn right onto Concession Rd 7 0.7 km
3. Concession Rd 7 turns slightly right and becomes W Townline Rd 0.1 km
4. W Townline Rd turns slightly left and becomes Winchester Rd E 3.4 km
- ↶ 5. Turn left onto Ritson Rd N/Durham Regional Rd 16 6.4 km
- ➡ 6. Turn right onto Rossland Rd E/Durham Regional Rd 28 (signs for Regional Road 28/Rossland Road E) 0.8 km
- ↶ 7. Turn left onto Simcoe St N/Durham Regional Rd 2 1.0 km
- ➡ 8. Turn right onto Hospital Ct 0.1 km
- ↶ 9. Keep left to stay on Hospital Ct
Destination will be on the left 22 m

B 14 Hospital Court, Oshawa, ON L1G 8A1, Canada

Map data ©2014 Google

2.0 Emergency Response Plan

A hardcopy is located on the inside of the station fence, just east of the main gate.

2.1 Responsibilities

2.1.1 Site Coordinator

The Site Coordinator will:

- manage the emergency situation in accordance with Section 2.2 “*Medical, Fire and Liquid Spill Response Procedure Flow Charts*” and/or Section 2.3 “*Evacuation Plan*”
- ensure the safety of emergency services (i.e. provide work protection etc.)

2.1.2 Fire Department

The Fire Department will:

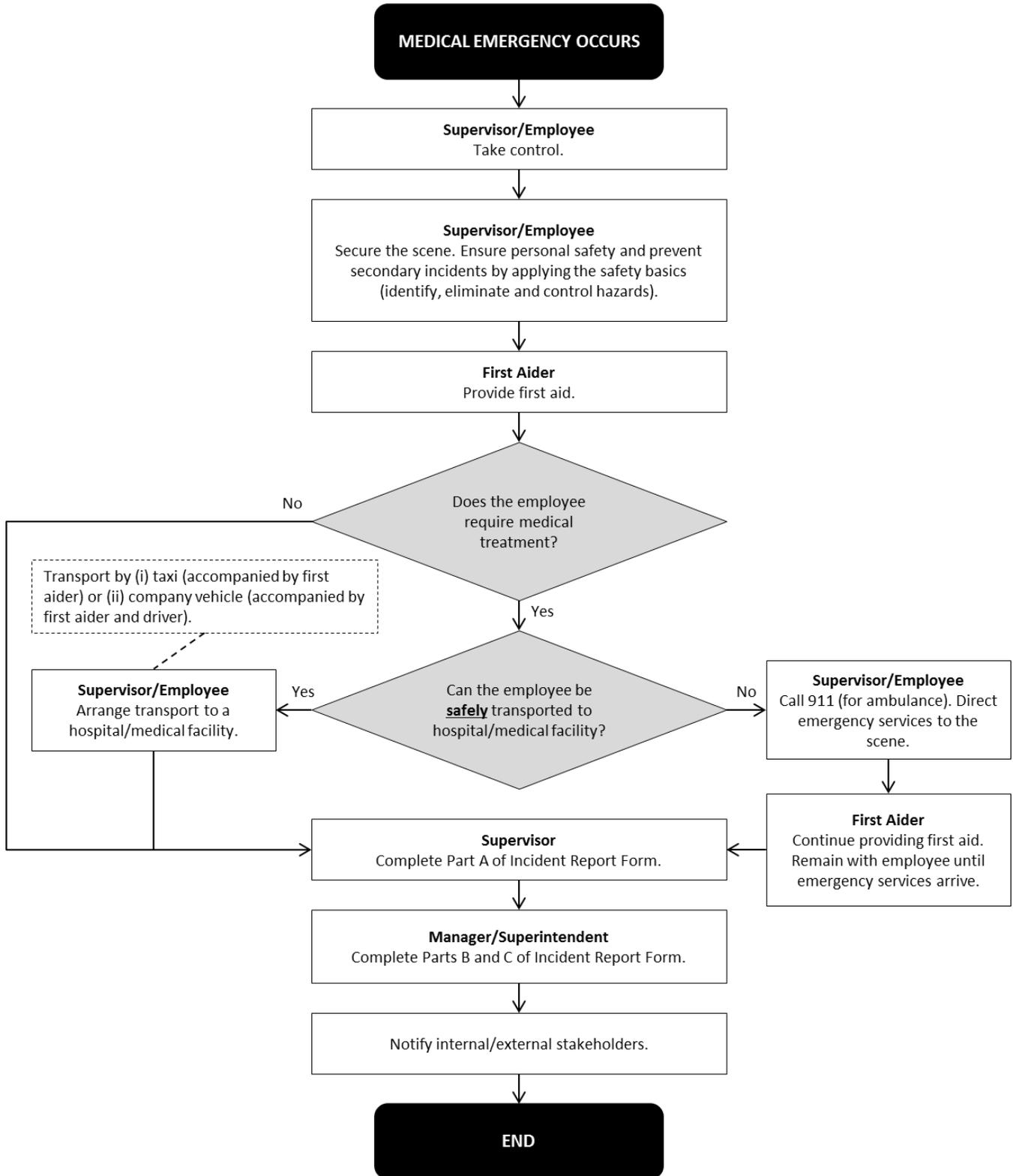
- assess the potential impact(s) of an emergency situation to adjacent neighbors, in consultation with the Site Coordinator and other external agencies (i.e. local public health department, Ministry of the Environment and Climate Change, etc.).
- advise adjacent neighbors or other persons of any immediate action required (e.g. evacuation) during an emergency situation at a Networks sites (e.g. fire).

2.2 Medical, Fire and Liquid Spill Response Procedure Flow Charts

In the event of medical, fire, or liquid spill emergencies, the following steps will be followed according to the flow charts.

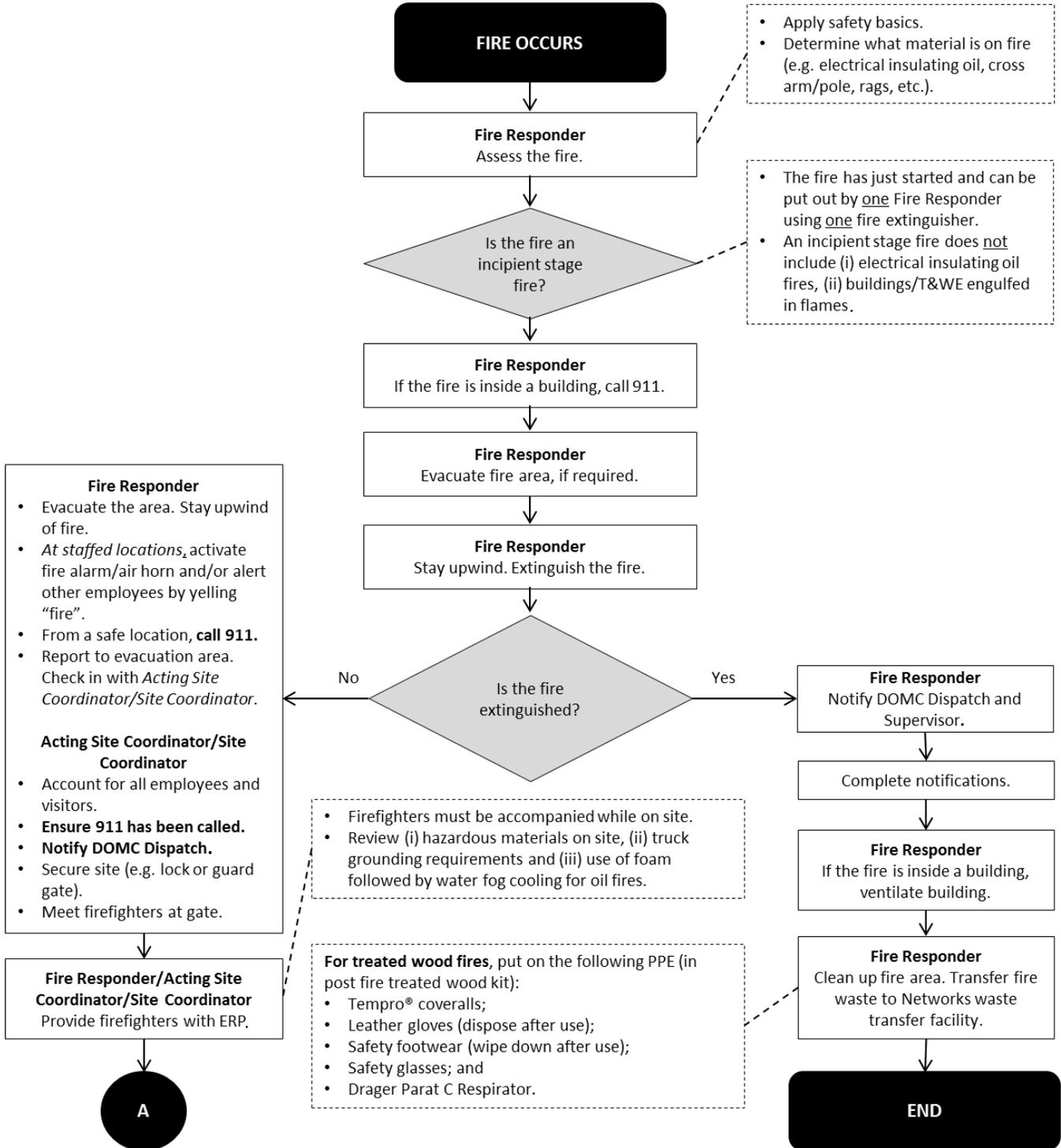
2.2.1 Medical Response Procedure Flow Chart

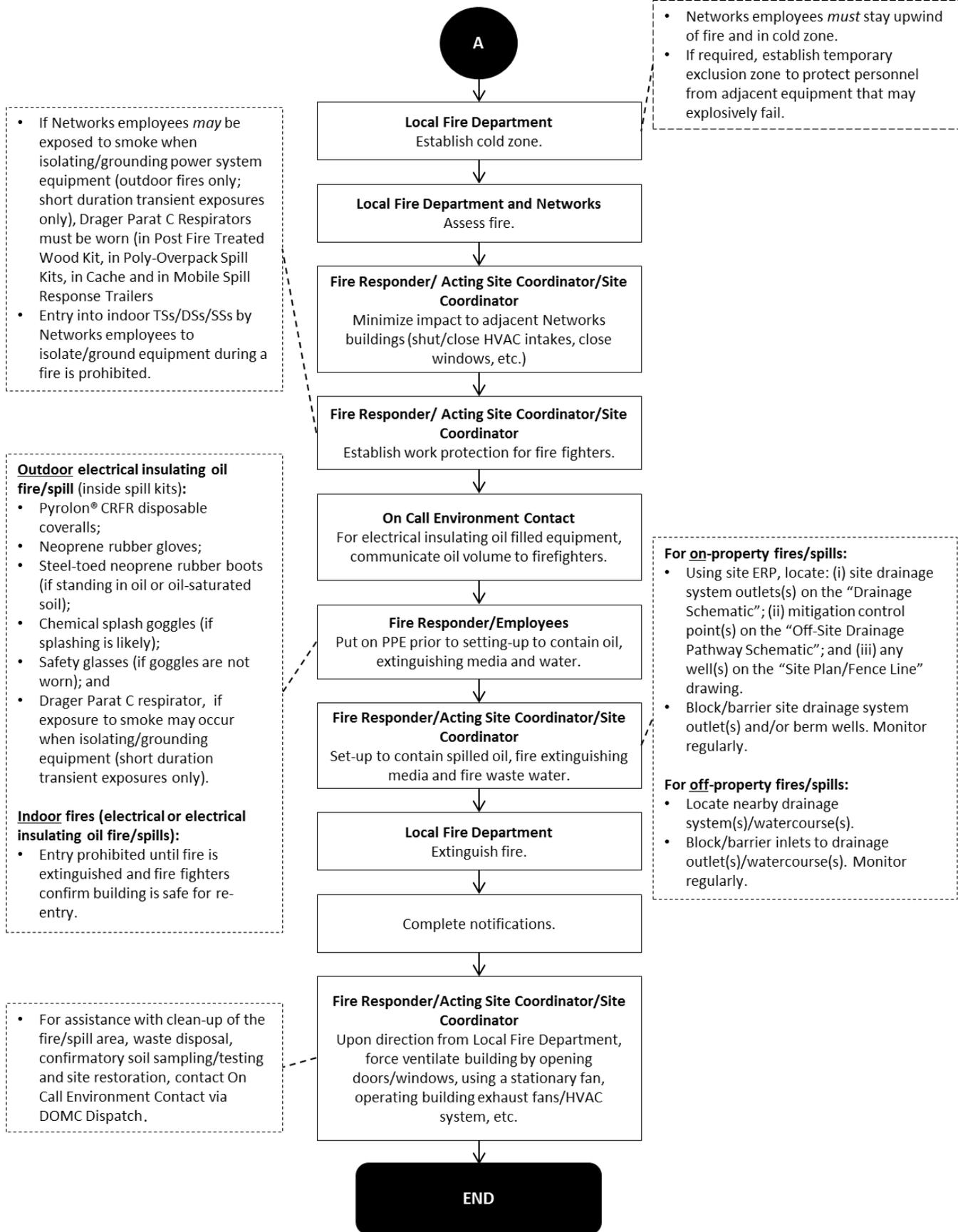
Figure 1
Medical Response Procedure Flow Chart



2.2.2 **Fire Response Procedure Flow Chart**

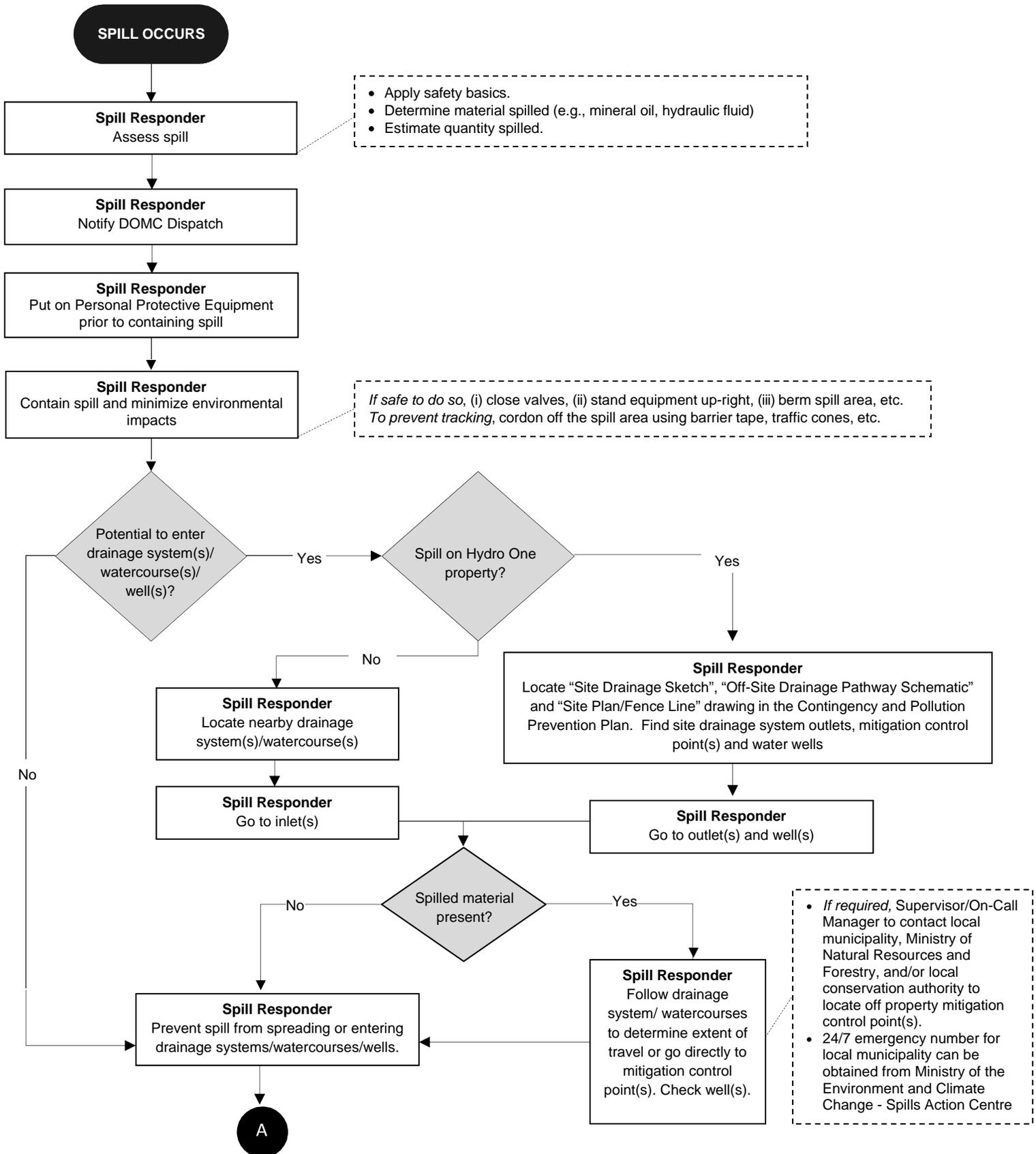
Figure 2
Fire Response Procedure Flow Chart
For immediate assistance, contact On Call Environment Contact via DOMC Dispatch

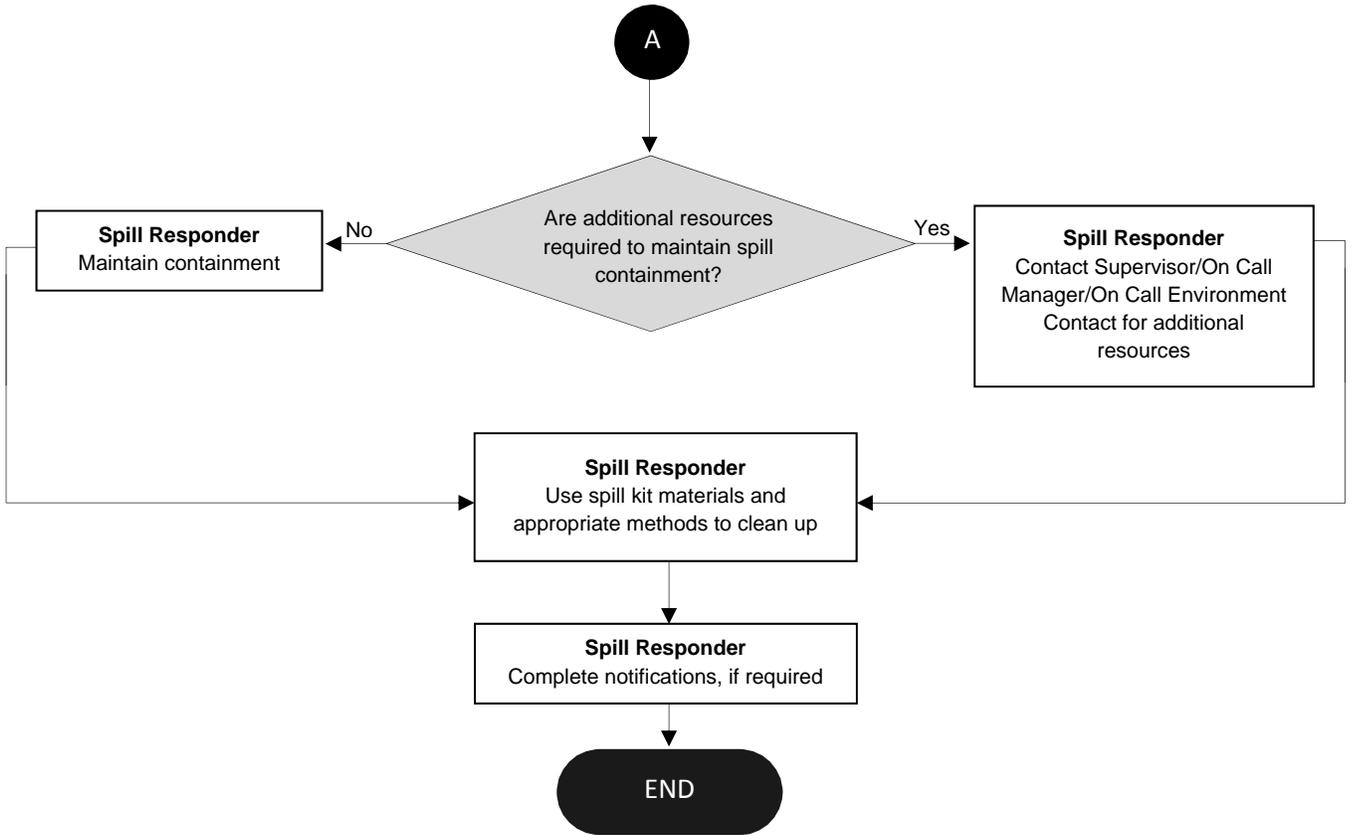




2.2.3 Liquid Spill Response Procedure Flow Chart

Figure 3
Liquid Spill Response Procedure Flow Chart





2.3 Evacuation Plan

In the event of a fire/explosion, natural gas leak, major power failure, terrorism and violent acts and/or any other emergency situation that requires all or part of the site to be evacuated, the following steps will be followed:

2.3.1 Employee Discovering Emergency Situation

- Leave the area immediately. Check for other employees on the way out.
- Notify other employees and/or visitors of the emergency situation (e.g. pull fire alarm, activate air horns, etc.).
- Call 911, when required.
- Report to the Site Coordinator at the Evacuation Assembly Area as per Site Plan/Fence Line Drawing.
- Notify your supervisor of the emergency situation.

2.3.2 Site Coordinator (or Acting Site Coordinator)

- Assess and determine if an evacuation of the site is required.
- Direct employees to proceed to Site Evacuation Assembly Area or recommend a safe alternate location if Site Evacuation Assembly area may present a hazard.
- Account for all employees.
- Notify your supervisor of the emergency situation.
- Call DOMC Dispatch.
- Confirm 911 has been called, when required.
- Contact other external agencies (i.e. gas company, Fire Department, Paramedics, Hazmat Teams etc.) as required.
- Act as a single point of contact for external emergency services.
- In consultation with external emergency services, ensure employees do not return to evacuated areas until it is safe to do so.

2.3.3 Directions for Employees on Site

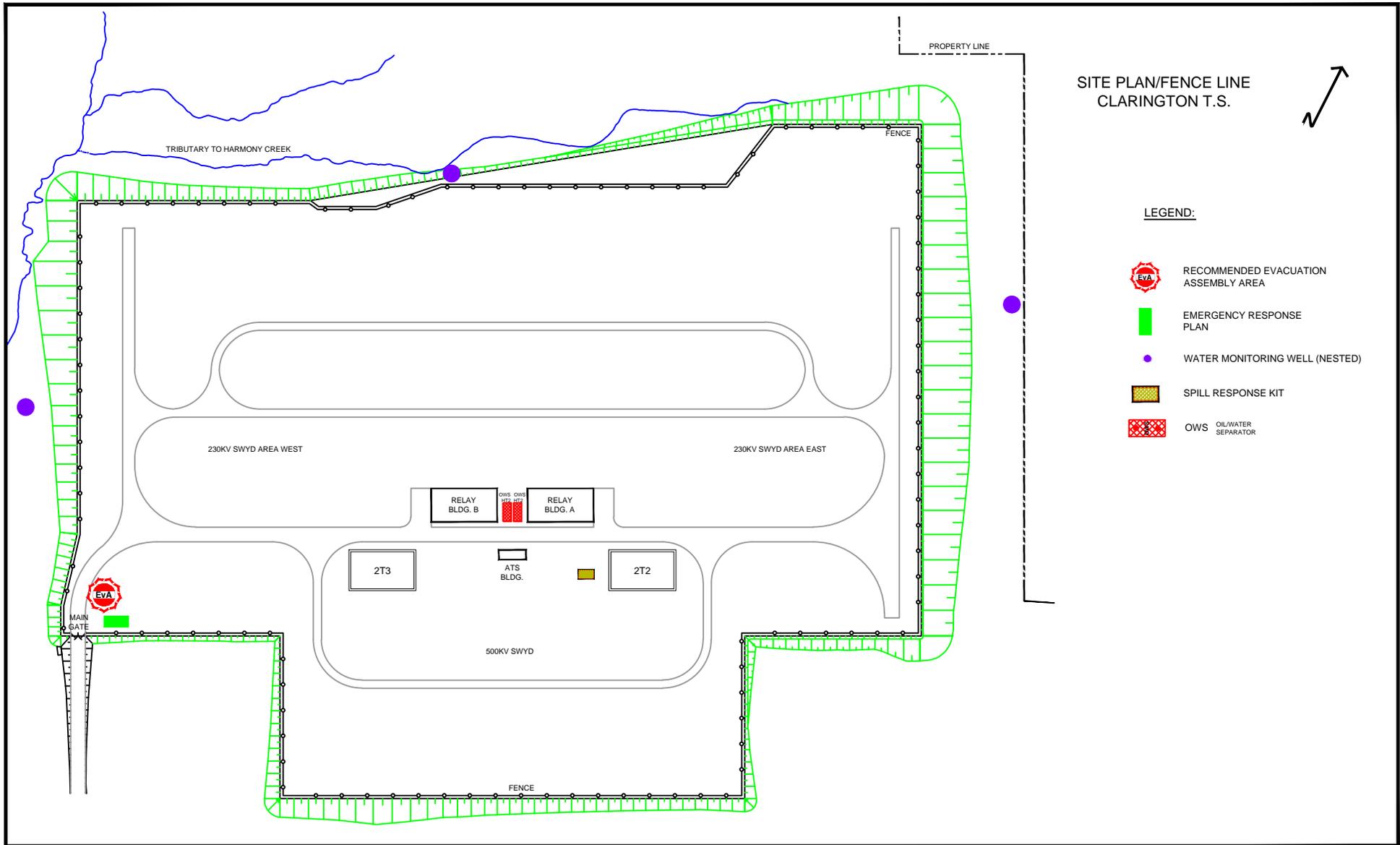
- Leave buildings via the nearest exit in an orderly fashion.
- Provide assistance to other employees, if required.
- If possible, bring keys to any locked doors.
- If you are the last person out, close windows and doors if safe to do so.
- If you have sponsored visitors, guide visitors to Evacuation Assembly Area and account for their presence.
- Report to the Site Coordinator at the Evacuation Assembly Area as per Site Plan/Fence Line Drawing.
- Await further instructions.

3.0 Site Specific Drawings

Click on links to view site specific drawings as listed in “*Table 1: Site Specific Drawings*”.

Table 1: Site Specific Drawings

Drawing Title	Revision Date (YYYY/MM/DD)
Site Plan/Fence Line	2014/06/17
<u>Building Plans:</u> Relay Building A and Relay Building B	2014/02/03
ATS Building	2014/02/03
Site Drainage Schematic	2014/06/17
Off-Site Drainage Pathway	2014/06/17



SITE PLAN/FENCE LINE
CLARRINGTON T.S.



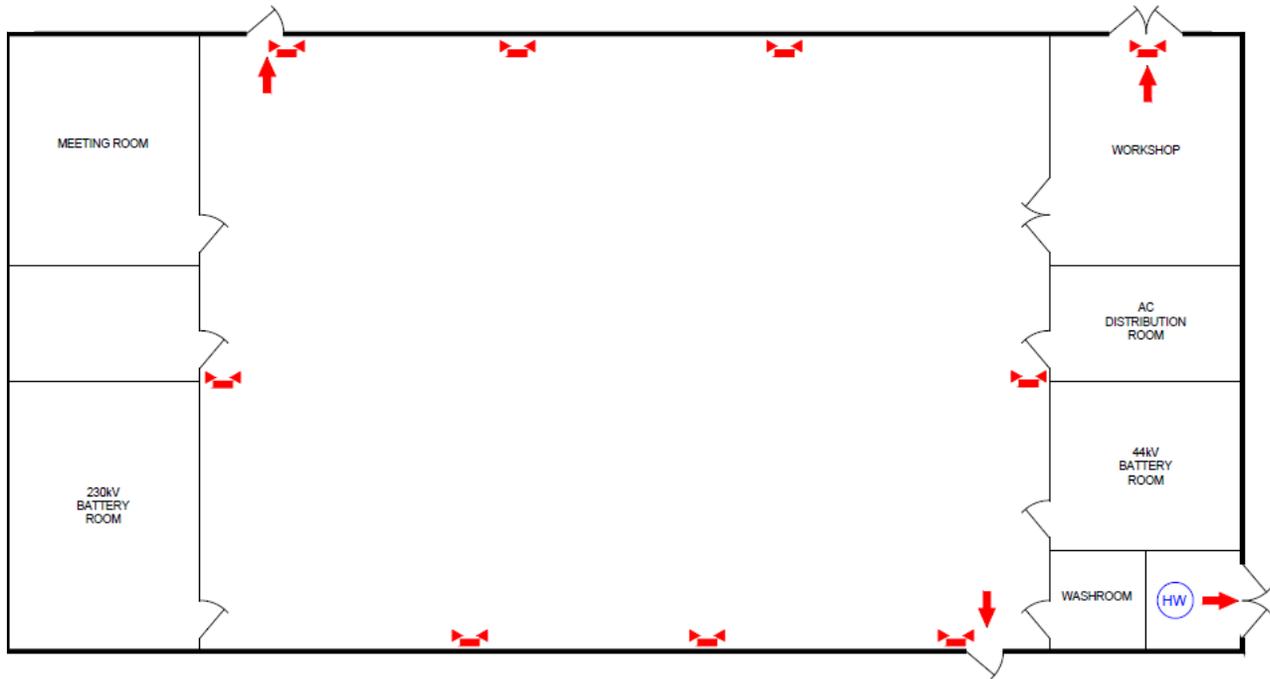
LEGEND:

-  RECOMMENDED EVACUATION ASSEMBLY AREA
-  EMERGENCY RESPONSE PLAN
-  WATER MONITORING WELL (NESTED)
-  SPILL RESPONSE KIT
-  OWS OIL/WATER SEPARATOR

NOTE:
1) PLAN NOT DRAWN TO SCALE.

01	2014 JUN 17	PREPARED FOR: EMERGENCY RESPONSE PLAN	YK	BJM	hydro 	dwg no NK296-D3S-70000-0301	rev 01
mf roll number	rev no	date	particulars	dwg checked	appd	filename : NK296-70000-0301	date : 2014.02.03

RELAY BUILDINGS "A" & "B"
CLARINGTON T.S.



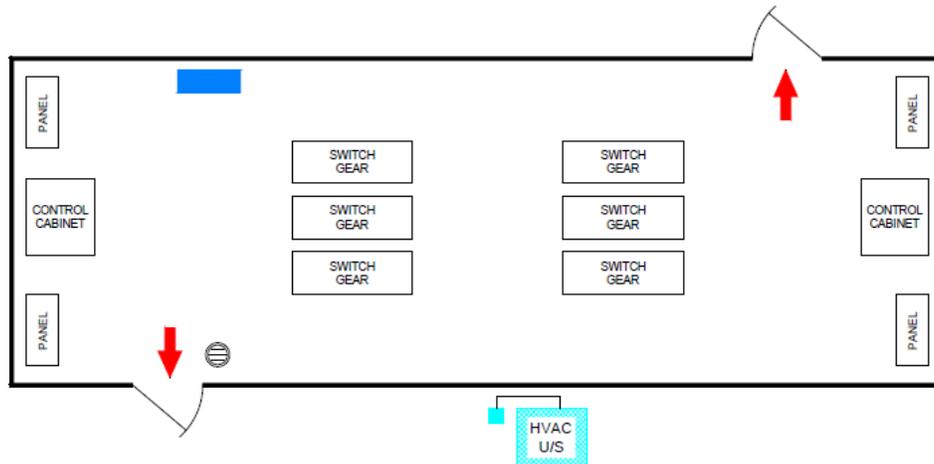
LEGEND:

-  EMERGENCY EXITS (fire exit)
-  EMERGENCY LIGHTING
-  HOT WATER TANK

NOTE:
1) PLAN NOT DRAWN TO SCALE.

	00	2014 FEB 03	PREPARED FOR: EMERGENCY RESPONSE PLAN	RT	BJM		dwg no	NK296-D4S-70000-0401	rev	00
mf number	rev no	date	particulars	dwn chkd	appd		filename : NK296-70000-0401	date : 2014.02.03		

ATS BUILDING
CLARINGTON T.S.



LEGEND:

 EMERGENCY EXITS (fire exit)

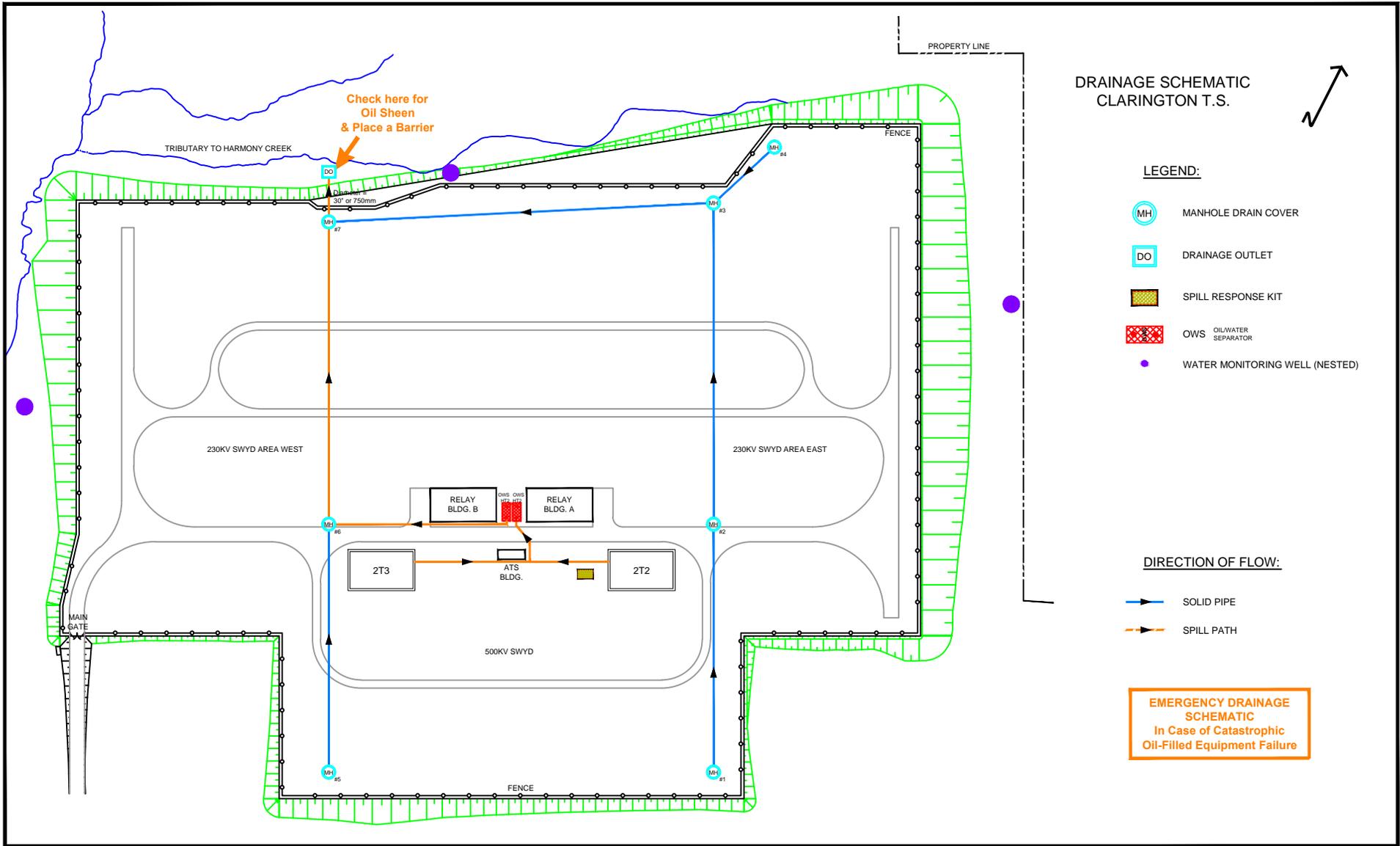
 FLOOR DRAIN

 HVAC UNIT & SAFETY SWITCH

 BUILDING SERVICES PANEL

NOTE:
1) PLAN NOT DRAWN TO SCALE.

	00	2014 FEB 03	PREPARED FOR: EMERGENCY RESPONSE PLAN	RT	BJM	hydro 	dwg no	NK296-D4S-70000-0402	rev	00
mf roll number	rev no	date	particulars	dwn/chkd	appd		filename : NK296-70000-0402	date : 2014.02.03		



**DRAINAGE SCHEMATIC
CLARINGTON T.S.**

LEGEND:

-  MANHOLE DRAIN COVER
-  DRAINAGE OUTLET
-  SPILL RESPONSE KIT
-  OWS OIL/WATER SEPARATOR
-  WATER MONITORING WELL (NESTED)

DIRECTION OF FLOW:

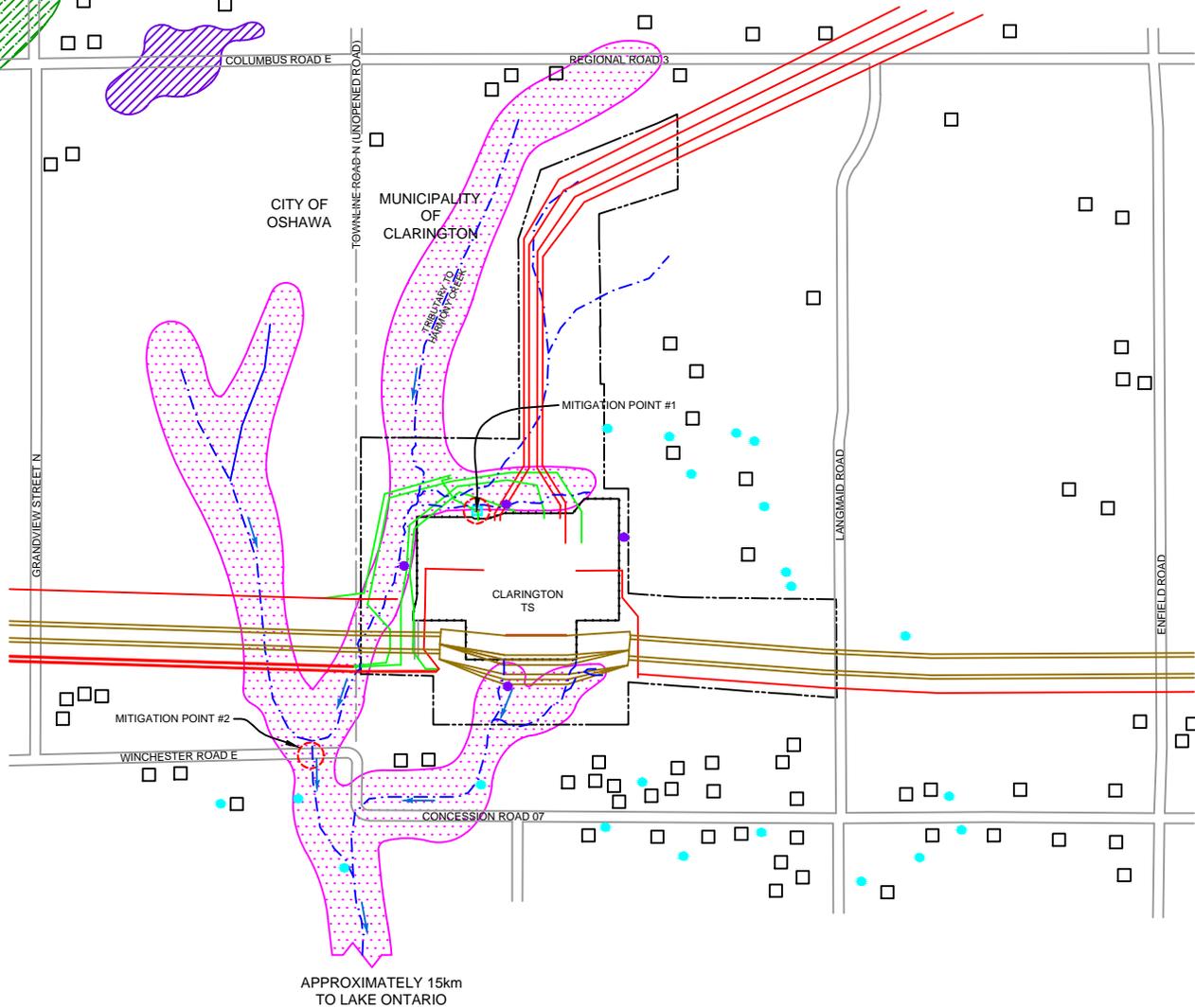
-  SOLID PIPE
-  SPILL PATH

**EMERGENCY DRAINAGE
SCHEMATIC
In Case of Catastrophic
Oil-Filled Equipment Failure**

NOTE:
1) PLAN NOT DRAWN TO SCALE.

01	2014 JUN 17	PREPARED FOR: EMERGENCY RESPONSE PLAN	YK	BJM	hydro ONE	dwg no NK296-D3S-70000-0501	rev 01
mi roll number	rev no	date	particulars	dwg date		appd	filename : NK296-70000-0501

OFF-SITE DRAINAGE PATHWAY SCHEMATIC CLARINGTON T.S.



LEGEND:

- | | | | |
|--|------------------|--|--|
| | FENCE LINE | | MOE REGISTERED WATER WELL |
| | 500kV CIRCUIT | | WATER MONITORING WELL (NESTED) |
| | 230kV CIRCUIT | | DWELLING/BUILDING |
| | PROPERTY LINE | | ENVIRONMENTALLY SENSITIVE AREA |
| | ROAD | | AREA OF NATURAL AND SCIENTIFIC INTEREST (ANSI) |
| | WATERLINE | | CENTRAL LAKE ONTARIO CONSERVATION AREA (CLOCA) |
| | DRAINAGE OUTLET | | REGULATED HAZARD AREA |
| | FLOW DIRECTION | | |
| | MITIGATION POINT | | |

Clarington TS,
Lot 35 Concession 7,
Clarington, Ontario

	01	2014 JUN 17	PREPARED FOR: EMERGENCY RESPONSE PLAN	YK	BJM		dwg no NK296-D4S-70000-0601	rev 01
mf roll number	rev no	date	particulars	dwn chkd	appd		filename : NK296-70000-0601	date : 2014.02.03

4.0 Electrical Oil-Filled Equipment

There is electrical oil-filled equipment on site. The station equipment contains the following volumes of insulating oil.

Equipment Description	Number of Units	Oil Volume per Unit (L)	Oil Volume Total (L)
750 MVA, 500/230/28 kV Autotransformer	2	163,000	326,000
500 kV Capacitive Voltage Transformer, 537.8GRDY/310.5KV-115-69V	6	111	666
Capacitive Voltage Transformer, 239 kV, grounded Y 138 kV-138 kV-151.8 kV-115V-69V-69V ,1050 kV LIL	12	102	1,224
Capacitive Voltage Transformer, 239 kV, grounded Y 138 kV-138 kV-151.8 kV-115V-69V-69V ,1050 kV LIL	36	112	4,032
Station Service Transformer. 1.2 MVA, 28-0.6 kV, 200 170kV BIL	2	3,100	6,200
Stations Service Transformer, 1200 kVA, 44 kV/600V	1	5,700	5,700
600/208V, 112.5kVA Transformers, Outdoor	6	800	4,800
Total Volume			348,622

5.0 Procedures for Potential HSE Emergencies

Site Emergency (HSE Related)	Key Recommendations / Actions
a) Earthquakes	<ul style="list-style-type: none"> • Stay inside • Get under heavy furniture such as a table, desk, or any solid furniture • Cover your head and torso to prevent being hit by falling objects • Hold onto the object that you are under so that you remain covered • If outside, find a clear spot and lay low
b) Major power failures	<ul style="list-style-type: none"> • Report outages to your supervisor immediately • Shut off any electronic equipment that was operating when the power went off. Shut off major electric equipment as well. This will help stabilize the electric system when power is restored • Determine whether it's really a power outage or a problem with your own breaker. Reach for your flashlight and check your main electrical panel • Current outage information is available from the province wide emergency number 1-800-434-1235, the Hydro One Outage App or most news radio stations • If it is safer to leave a dark building than remain inside, use extreme caution while exiting and observe that traffic signals may not be working • Avoid using portable fuel burning appliances to heat or cook with indoors since carbon monoxide can accumulate
c) Gas leaks (natural gas, CO, etc.)	<ul style="list-style-type: none"> • Evacuate the area immediately • Isolate the hazard area • Keep out unnecessary and unprotected personnel • Eliminate all ignition sources • Use grounded, explosion-proof equipment • Ventilate the area to prevent the gas from accumulating, especially in confined spaces • Stop or reduce leak if safe to do so • Report spills to local health, safety and environmental authorities
d) Rescues (e.g. confined space, bucket escape, trees, towers, etc.)	<ul style="list-style-type: none"> • Refer to specific practices/procedures for rescues depending on the hazard
e) Animals/wildlife (bear example)	<p><u>For a bear:</u></p> <ul style="list-style-type: none"> • Remain calm and stand still • Do not scream • Do not run • Walk slowly back if bear does not get closer • If the bear stays, make noise, blow whistle, or an air horn and throw objects • Make yourself look big • If the bear keeps advancing stand your ground and use pepper spray or anything else you can find

f) Severe weather (tornado)	<ul style="list-style-type: none"> • Go to an underground shelter, basement or safety room. • Go to center of interior room and stay as low as possible • Avoid windows, doors and outside walls • Get under a sturdy table and protect your head and neck • If in a multi-level building move to lower floor. Do not use elevators • If in a car try to find a better shelter such as a building
g) Terrorism & violent acts (e.g. bomb threats)	<ul style="list-style-type: none"> • Stay on the line as long as possible • Listen for tone of voice, accent, gender of speaker, any background noise, indoor or outdoor • Call police immediately after hanging up to activate an emergency response (police, ambulance, fire fighters) to the incident • Provide as much information about the incident as possible and follow any instructions that are given by emergency services • Call building management if applicable • Do not touch suspicious packages • Call the Security Specialist for your region • Evacuate the building or area as advised by management or Security
h) Workplace violence	<ul style="list-style-type: none"> • Remove yourself from harm's way by leaving the area immediately • Do not personally intervene in a situation. Don't try to reason with the violent individual • Call 911 or the local emergency number to activate an emergency response (police, ambulance, fire fighters) to the incident • Provide as much information about the incident as possible and follow any instructions that are given by emergency services • Notify management • Call the Security Specialist for your region
i) Train derailments or neighbouring industry incidents (i.e. chemical leaks)	<ul style="list-style-type: none"> • Initially, remain inside building or vehicle. Close windows and disable air handling equipment if possible • Check wind direction and stay up-wind of emissions where feasible • Leave building or vehicle when safe to do so and move to a greater distance from emission source • Call Employee Emergency Hotline for information
j) Emergencies posing a significant risk for disruption of electricity in Ontario (i.e. beyond a site level emergency response)	<ul style="list-style-type: none"> • These situations are managed according to the provisions in the Hydro One Transmission and Distribution Emergency Preparedness Plan • Specific LoB/area contacts are reached through the Emergency Response Organization Directory

6.0 Interface with Property Owner

Clarington TS is on property owned by Hydro One, so this section is not applicable.