city	CONFINED SPACE NAME:	ID #	LOCATION:	HA #	3
or north vancouver	PRV Stations	N/A	Citywide (11 in total)	DATE:	November 2012
Confined S	Space? YES	5		tre	
YES 🛛 NO 🗌	Enclosed or partially enclosed?		ST-		
	Limited or restricted entry/exit?		11		
	Intended for continuous human occu	ipancy?		0	
	Large enough that a worker can enter	er?		in the second second	
SPACE INFORM	ATION/DETAILS (IN OPERATION	l):			
SPACE DESCRIP	PTION:	,			
Underground r	ectangular shaped vaults wi	th fixed lado	lers inside.		
reducing valve (potable water strainers exist	econdary piping (typically 4 es (PRV) that regulate water) exists inside piping. Dra inside space.	pressure ir ins, gate v	b, respectively) with hydriside the piping – low con alves, ball valves, flow m	centration eters, pre	chlorinated water ssure gauge and
Equipment: S	Sump pumps, mounted fans	(with vents t	o the outside), electric hea	aters (120	volt) and lighting.
Equipment: S PROCESS/FUNC Regulates (rec	Sump pumps, mounted fans (TION/USE DESCRIPTION: luces or increases) water pre	(with vents t essure in the	o the outside), electric hea e city's piping system base	aters (120 ed on supp	volt) and lighting. Iy and demand.
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAR Rectangular sl	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre RACTERISTICS: naped vault	(with vents t	o the outside), electric hea	aters (120 ed on supp	volt) and lighting.
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAR Rectangular sl DIMENSIONS:	Sump pumps, mounted fans (TION/USE DESCRIPTION: luces or increases) water pre RACTERISTICS: naped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D)	(with vents t essure in the : (W) x 8 ft to	o the outside), electric hea e city's piping system base VOLUME: Approxima	aters (120 ed on supp	volt) and lighting. Iy and demand. 640 ft ³ to 1080 ft ³
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAF Rectangular sl DIMENSIONS: SPACE MATERIA	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pro RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete.	(with vents t essure in the : (W) x 8 ft to	o the outside), electric hea e city's piping system base VOLUME: Approxima	aters (120 ed on supp ate range:	volt) and lighting. Ny and demand. 640 ft ³ to 1080 ft ³
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAR Rectangular sl DIMENSIONS: SPACE MATERI/ ENTRY CHARAC	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete. TERISTICS: Hydraulic-power	(with vents t essure in the : (W) x 8 ft to ed steel Bild	o the outside), electric hea e city's piping system base VOLUME: Approxima	aters (120 ed on supp ate range:	volt) and lighting. Ny and demand. 640 ft ³ to 1080 ft ³
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Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAR Rectangular sl DIMENSIONS: SPACE MATERIA ENTRY CHARAC LOCATIONS: A SECURING MEC	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete. TERISTICS: Hydraulic-power 1 per PRV station (on top at 9 HANISM: Locked hinged B	(with vents t essure in the (W) x 8 ft to red steel Bild grade) ilco hatch de	o the outside), electric hea e city's piping system base VOLUME : Approxima co hatch door or manhole SIZE : 4 ft x 4 ft pors and gravity/locked ma	aters (120 ed on supp ate range: cover lid. it or 32" to anhole lids	volt) and lighting. Ily and demand. 640 ft ³ to 1080 ft ³ 42" Ø
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAR Rectangular sl DIMENSIONS: SPACE MATERI/ ENTRY CHARAC LOCATIONS: SECURING MEC ADJACENT VES	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre- RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete. TERISTICS: Hydraulic-power 1 per PRV station (on top at 9 HANISM: Locked hinged B SELS/SPACES/PIPING:	(with vents t essure in the (W) x 8 ft to ed steel Bild grade) ilco hatch de	o the outside), electric hea e city's piping system base VOLUME: Approxima co hatch door or manhole SIZE: 4 ft x 4 ft pors and gravity/locked ma	aters (120 ed on supp ate range: cover lid. it or 32" to anhole lids	volt) and lighting. Ily and demand. 640 ft ³ to 1080 ft ³ 42" Ø
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAR Rectangular sl DIMENSIONS: SPACE MATERI/ ENTRY CHARAC LOCATIONS: SECURING MEC ADJACENT VES NAME OF SPAC	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre- RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete. TERISTICS: Hydraulic-power 1 per PRV station (on top at end HANISM: Locked hinged B SELS/SPACES/PIPING: E/PIPE CONTEN CONTEN	(with vents t essure in the (W) x 8 ft to ed steel Bild grade) ilco hatch de	o the outside), electric hea e city's piping system base VOLUME: Approxima co hatch door or manhole SIZE: 4 ft x 4 ft pors and gravity/locked ma	aters (120 ed on supp ate range: cover lid. it or 32" to anhole lids	volt) and lighting. Ily and demand. 640 ft ³ to 1080 ft ³ 42" Ø
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAF Rectangular sl DIMENSIONS: SPACE MATERI/ ENTRY CHARAC LOCATIONS: SECURING MEC ADJACENT VES NAME OF SPAC Inlets (4" - 8" av	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre- RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete. TERISTICS: Hydraulic-power 1 per PRV station (on top at end HANISM: Locked hinged B SELS/SPACES/PIPING: E/PIPE CONTEN verage Ø) Potable average Ø) Potable	(with vents t essure in the sure in the (W) x 8 ft to (W) x 8 ft to red steel Bild grade) ilco hatch de <u>VTS</u> e water	o the outside), electric hea e city's piping system base VOLUME: Approxima co hatch door or manhole SIZE: 4 ft x 4 ft pors and gravity/locked ma <u>TEMPERATURE</u> No concern	aters (120 ed on supp ate range: cover lid. it or 32" to anhole lids <u>PRES</u> 130	volt) and lighting. Ily and demand. 640 ft ³ to 1080 ft ³ 42" Ø <u>SSURE</u> to 154 psi (max) to 154 psi (max)
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAR Rectangular sl DIMENSIONS: SPACE MATERI/ ENTRY CHARAC LOCATIONS: SECURING MEC ADJACENT VES NAME OF SPAC Inlets (4"- 8" av Outlets (4"- 8"	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre- RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete. TERISTICS: Hydraulic-power 1 per PRV station (on top at end HANISM: Locked hinged B SELS/SPACES/PIPING: E/PIPE <u>CONTEN</u> verage Ø) Potable average Ø) Potable	(with vents t essure in the sure in the (W) x 8 ft to (W) x 8 ft to ed steel Bild grade) ilco hatch de <u>VTS</u> water water	o the outside), electric hea e city's piping system base VOLUME: Approxima co hatch door or manhole SIZE: 4 ft x 4 ft pors and gravity/locked ma <u>TEMPERATURE</u> No concern No concern	aters (120 ed on supp ate range: cover lid. it or 32" to anhole lids <u>PREs</u> 130 130	volt) and lighting. Ily and demand. 640 ft ³ to 1080 ft ³ 42" Ø <u>SSURE</u> to 154 psi (max) to 154 psi (max)
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAF Rectangular si DIMENSIONS: SPACE MATERI/ ENTRY CHARAC LOCATIONS: SECURING MEC ADJACENT VES NAME OF SPAC Inlets (4"- 8" av Outlets (4"- 8"	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre- RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete. TERISTICS: Hydraulic-power 1 per PRV station (on top at end HANISM: Locked hinged B SELS/SPACES/PIPING: E/PIPE CONTEN verage Ø) Potable average Ø) Potable	(with vents t essure in the (W) x 8 ft to (W) x 8 ft to grade) ilco hatch de <u>VTS</u> e water e water	o the outside), electric hea e city's piping system base VOLUME: Approxima co hatch door or manhole of SIZE: 4 ft x 4 ft pors and gravity/locked ma <u>TEMPERATURE</u> No concern No concern	aters (120 ed on supp ate range: cover lid. it or 32" to anhole lids <u>PRES</u> 130 130	volt) and lighting. Ily and demand. 640 ft ³ to 1080 ft ³ 42" Ø <u>SSURE</u> to 154 psi (max) <u>to 154 psi (max)</u>
Equipment: S PROCESS/FUNC Regulates (rec PHYSICAL CHAR Rectangular sl DIMENSIONS: SPACE MATERI/ ENTRY CHARAC LOCATIONS: SECURING MEC ADJACENT VES NAME OF SPAC Inlets (4"- 8" av Outlets (4"- 8" SCOPE OF WOR This Hazard Ass	Sump pumps, mounted fans (TION/USE DESCRIPTION: duces or increases) water pre- RACTERISTICS: haped vault Average range (in feet –'ft'): 8 ft to 9 ft (L) x 10 ft to 12 ft 10 ft (D) AL: Precast concrete. TERISTICS: Hydraulic-power 1 per PRV station (on top at gent HANISM: Locked hinged B SELS/SPACES/PIPING: E/PIPE <u>CONTEN</u> verage Ø) Potable average Ø) Potable K: sessment (HA) refers to entry f	(with vents t essure in the sure in the (W) x 8 ft to (W) x 8 ft to (W) x 8 ft to ed steel Bild grade) ilco hatch de <u>VTS</u> e water e water	o the outside), electric hea e city's piping system base VOLUME: Approxima co hatch door or manhole of SIZE: 4 ft x 4 ft bors and gravity/locked ma <u>TEMPERATURE</u> No concern No concern	aters (120 ed on supp ate range: cover lid. it or 32" to anhole lids <u>PRES</u> 130 130	volt) and lighting. Ily and demand. 640 ft ³ to 1080 ft ³ 42" Ø <u>SSURE</u> to 154 psi (max) to 154 psi (max)
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HAZARDOUS	
ATMOSPHERIC RATIN	IG
(LOW, MOD. HIGH)	



of exposure limits.

COMPLETED BY:

Prepared by: Peter Bergholz, BSc, CIH, AMEC, November 2012 Reviewed by: Victor Leung, MSc, CIH, ROH, CRSP, AMEC, November 2012

INFO. SOURCE:

Paul Elsoff & Dave Cooper

This Hazard Assessment (HA) pertains to the activity and confined space listed above. This hazard assessment is required to be reviewed within 3 years of preparation; any change in activity requires a review of this HA and a completion of a HA for the specific activity (especially when contaminants will be generated by an activity such as welding, radiation or chemical usage). Page 1 of 4

the	CONFINED SPACE	HAZAR	D ASSESSMENT	LIA #	2
GILY	CONFINED SPACE NAME:	ID #	LOCATION:	ПА #	3
ancouver	PRV Stations	N/A	Citywide (11 in total)	DATE:	November 2012

HAZ/	ARDS	UNDISTURBED SPACE	WORK TASKS	CONTROL MEASURES
	Oxygen (O ₂) Deficiency	Yes Possible if left closed and inactive for extended periods.	No	Monitoring for O ₂ . Continuous ventilation during entry.
	O ₂ Enrichment	No	No	
ATMOSPHERE	Chemical	Yes Potential for carbon monoxide (CO) from adjacent vehicular traffic.	No	Monitoring for CO. Continuous ventilation during entry. General PPE: Coveralls, safety boots, work gloves, hard hat and safety glasses with side shields.
	Biological	Yes Vermin (rats, mice or their excrement) may be present. Sludge or bacteria/fungi/mould growth is possible in spaces that are wet or are not opened for prolonged periods. Needles/sharps (potentially containing bodily fluids) may be present.	No	Rinse space prior to entry if space contains large amounts of sludge or bacteria/fungi/mould growth. Remove objects from outside the space at all times with sucker truck, if feasible.
	Fire/Explosion	No	No	
	Structural Hazard	No	No	
	Engulfment	Yes Spaces can contain water if pipe fails at a sufficient volume to cause engulfment (typical reason to enter PRV is to fix pipe).	No	Space must be emptied prior to entry by sucker truck. See space specific lockout and isolation documents
	Entrapment	No	No	
٢	Electrical	Yes Electrical heaters (120 V), mounted fans and lighting present	No	GFCI for electrical equipment is required. See space specific lockout and isolation documents
μ	Access/Egress	No	No	
SA	Fall	Yes Spaces are up to 10 feet deep.	No	 Fixed ladders exist in spaces. Maintain 3 points of contact on the ladder at all times. Use caution upon initial entry (inspect fixed ladder condition). Portable ladders may substitute fixed ladders if the condition of the fixed ladder is unknown or suspect. Fall protection required when climbing up and down ladders. Lifeline attached at all times.

HAZARDOUS ATMOSPHERIC RATING (LOW, MOD. HIGH)

Moderate

JUSTIFICATION: Potential for CO to be greater than 10% of exposure limits.

COMPLETED BY:

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Page 2 of 4

the	CONFINED SPACE				
CITY	CONFINED SPACE NAME:	ID #	LOCATION:		3
ancouver	PRV Stations	N/A	Citywide (11 in total)	DATE:	November 2012

11474				
HAZP	ARDS	POTENTIAL HAZARDS	POTENTIAL HAZARDS	CONTROL MEASURES
	Slip/Trip	Yes Interior of space, ladder rungs and floor surface may be wet and slippery.	Yes Water flushing tasks will create a wet and slippery floor surface. Sump/drain located in corner of space.	Wear General PPE (safety boots) and work with care. Be aware of sump/drain location and identify it (if possible) with temporary marker (pylon).
	Visibility/Light Level	Yes Insufficient lighting exists if space lockout documents are required to lockout fixed lighting systems.	No	Portable lighting (flashlight or portable light with GFCI) required.
	Baffles/Internal Arrangement	No	No	
	Floor Openings in Space	No	No	
	Noise/Vibration	No	No	
HYSICAL	Temperature	Yes Entry into space may occur during hot/cold weather conditions (spaces are located outside).	No	Wear General PPE and dress appropriate for outside weather conditions. Provide heat stress awareness sessions to work crews if working during hot summer days.
P	Non/Ionizing Radiation	No	No	
	Laser	No	No	
OTHERS	Ingestion/Skin Contact Hazard	No	Yes Concrete wall repair: If required (rare), short duration concrete wall repair tasks will involve minor surface patchwork with ready-mix cement products and manual tools – MSDSs for ready cement mixes typically contain portland cement and potentially silica and the dusts are potential eye/skin irritations. No concrete removal (i.e., jackhammering) is expected.	Concrete Wall Repair: wear General PPE and work with care. Minor concrete wall repair tasks (short duration) will involve mixing ready-mix cement products outside the space with water. Minimal dust (portland cement dust and silica dust) is expected during mixing with water and the wet cement product will be applied inside the space – no portland cement dust or silica dust is expected inside the space. No concrete removal (i.e., jackhammering) is expected only patchwork of minor cracks in concrete walls. If mixing large amounts of cement product is necessary (outside the space), monogoggles and a disposable dust mask is recommended (e.g., N95 type).
	Mechanical Hazard	Yes Sump pumps present	No	Sump pumps must be locked out

HAZARDOUS ATMOSPHERIC RATING (LOW, MOD. HIGH)

Moderate

JUSTIFICATION: Potential for CO to be greater than 10% of exposure limits.

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Page 3 of 4

the	CONFINED SPACE	HAZAR	D ASSESSMENT	114.4	0
CITY	CONFINED SPACE NAME:	ID #	LOCATION:		3
vancouver	PRV Stations	N/A	Citywide (11 in total)	DATE:	November 2012

HAZ/	ARDS	UNDISTURBED SPACE POTENTIAL HAZARDS	WORK TASKS POTENTIAL HAZARDS	CONTROL MEASURES
	Traffic Hazard	Yes Spaces exist at street locations	No	Entrance to space must be physically isolated from vehicular and pedestrian traffic. Standby person or designated road-traffic crew must monitor traffic in the area.
	Hydraulic/ Pneumatic Hazard	No	No	

CONTROL MEASURES REQ	UIRED:
Confined Space Permit:	Yes
Atmospheric Testing:	Gas monitor with sensors for O ₂ , LEL, CO & H ₂ S.
Ventilation Requirements:	Provide mechanical ventilation (minimum 360 CFM) through the opening. Minimum ventilation requirements are based on achieving 20 air changes per hour. Fan specifications for fixed ventilation systems are not known.
PPE Requirements:	General PPE: Coveralls, safety boots, work gloves, hard hat and safety glasses with side shields. Concrete Wall Repair: wear General PPE. Minor concrete wall repair tasks (short duration) will involve mixing ready-mix cement products outside the space with water. Minimal dust (Portland cement dust and silica dust) is expected during mixing with water and the wet cement product will be applied inside the space – no Portland cement dust or silica dust is expected inside the space. No concrete removal (i.e., jack hammering) is expected only patchwork of minor cracks in concrete walls. If mixing large amounts of cement product is necessary (outside the space), monogoggles and a disposable dust mask are recommended (e.g., N95 type). Note: minimum respirator requirements are recommended in the absence of exposure monitoring data.
Lockout/Isolation:	Space must be isolated and locked-out. If required, space must be emptied prior to entry by sucker truck.
Standby Person:	Yes, at or near entrance.
Communication Procedures:	Radio, voice
Rescue Procedures:	Standby person calls 911 and calls Entry Supervisor. Entry Supervisor will respond to scene. Self rescue (if possible) or removal by Standby Person (from outside space) using winch.
Required Rescue and Safety Equipment	Two-way radio, cellular telephone, harness (must be worn), tripod, winch, lifeline (attached at all times).
Other:	Rinse space prior to entry if space contains large amounts of sludge or bacteria/fungi/mould growth. Remove objects from outside the space at all times with sucker truck, if feasible. GFCI for electrical equipment is required. Fixed ladders exist in spaces. Maintain 3 points of contact on the ladder at all times. Use caution upon initial entry (inspect fixed ladder condition). Portable ladders may substitute fixed ladders if the condition of the fixed ladder is unknown or suspect. Fall protection required when climbing up and down ladders. Lifeline attached at all times. Be aware of sump/drain location and identify it (if possible) with temporary marker (pylon). Portable lighting (flashlight or portable light with GFCI) required. Wear General PPE and dress appropriate for outside weather conditions. Provide heat stress awareness sessions to work crews if working during hot summer days. Entrance to space must be physically isolated from vehicular and pedestrian traffic. Standby person or designated road- traffic crew must monitor traffic in the area.

HAZARDOUS ATMOSPHERIC RATING (LOW, MOD. HIGH)

JUSTIFICATION: Potential for CO to be greater than 10% of exposure limits.

COMPLETED BY:

Prepared by: Peter Bergholz, BSc, CIH, AMEC, November 2012 Reviewed by: Victor Leung, MSc, CIH, ROH, CRSP, AMEC, November 2012

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