

THE CORPORATION OF THE TOWNSHIP OF MCGARRY BY-LAW NO. 2024-47

BEING A BY-LAW TO ADOPT AN ASSET RETIREMENT OBLIGATIONS POLICY FOR THE TOWNSHIP OF MCGARRY

WHEREAS pursuant to Municipal Act 2001, S.O. 2001, c. 25, Section 9 provides that a municipality has the capacity, rights, powers and privileges of a natural person for the purpose of exercising its authority under this or any other Act; and

WHEREAS pursuant to said Municipal Act, Section 294.1 a municipality shall, for each fiscal year, prepare annual financial statements for the municipality in accordance with generally accepted accounting principles for local governments as recommended by the Public Sector Accounting Board of the Chartered Professional Accountants of Canada; and

WHEREAS the Council of the Corporation of the Township of McGarry desires to adopt an Asset Retirement Obligations Policy;

NOW THEREFORE THE COUNCIL OF THE CORPORATION OF THE TOWNSHIP OF MCGARRY HEREBY ENACTS AS FOLLOWS:

- 1. **THAT** the Asset Retirement Obligations Policy for The Township of McGarry, attached hereto as Schedule 'A' and forming part of this By-law be adopted.
- 2. **THAT** this By-law shall come into full force and effect upon its final passing. That By-law may be cited as the "Asset Retirement Obligations Policy By-law".

READ a first and second time this 10th day of July 2024.

READ a third time and finally passed this 10th day of July 2024.

MAYOR

CLERK-TREASURER

"Schedule A" By-haw 2024-47.

Asset Retirement Obligations Assessment

PS 3280 - ARO Implementation



PREPARED FOR: Township of McGarry

Date: July 9, 2024

CONFIDENTIAL

REVISION CONTROL

Revision Status			Approval		
Revision	Date	Document Status	Originator	Reviewer	Approver
1.0	June 20, 2024	Draft	360		
2.0	July 9, 2024	Final	360		

Asset Retirement Obligations Assessment

PS 3280 – ARO Implementation



PREPARED FOR: Township of McGarry

Date: July 9, 2024

CONFIDENTIAL

REVISION CONTROL

Revision Status			Approval		
Revision	Date	Document Status	Originator	Reviewer	Approver
1.0	June 20, 2024	Draft	360		
2.0	July 9, 2024	Final	360		

REVISION CONTROL	***************************************
LIST OF TABLES	
DISCLAIMER	\
EXECUTIVE SUMMARY	1
ASSET RETIREMENT OBLIGATIONS	
RECOGNIZED ASSETS	
DATA	
REFERENCE OF ESTIMATES	
SCOPE OF ESTIMATE	
BASIS OF ESTIMATE	
Execution Methodology	
Contents	5
Vendor Experience and Rationale	
Rates	5
Equipment Rates	
Insurance	
Hazardous Building Materials	
Key Assumptions	6
Disposal Estimate Project Management	6
Safety	6
Material Disposal	6
Estimate Methodology	6
Technology	
Post-1990 Facilities	
GENERAL ASSESSMENT METHODOLOGY	8
IDENTIFICATION OF ASSETS	8
DATA COLLECTION	9
RECOGNITION CRITERIA	
Requirement 1: A Legal Obligation Exists	
Requirement 2: Obligating Event has Occurred	
Requirement 3: Future Economic Benefits Given Up	
Requirement 4: A Reasonable Estimate can be Made	
Exclusions	
Network Distribution and Collection Systems	
Inclusions	
CLOSURE ACTIVITIES	
Building Demolition & Disposal	14
Remediation	14
Reclamation	
Lease Construction	
Land Use	
Access Road Construction	
Disturbance Area	
ASSET RETIREMENT OBLIGATION ESTIMATES	
Building Demolition	
Demolition & Disposal Activity Costs	20
Reclamation	20
Reclamation Activity Costs	21
CLOCING SUBBRADY	e 1. () 등이 2016 (1977) 전 기계 2012 (1970) (1970) (1970) (1970) (1970) (1970) (1970) (1970) (1970) (1970) (1970)

July 9, 2024

Page ii

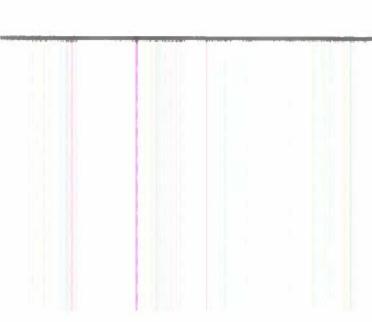
REFERENCES	23
APPENDICES: (PROVIDED ELECTRONICALLY)	29

LIST OF TABLES

Table 1: Asset Retirement Obligations	2
Table 2: Asset Compilation	2
Table 3: Asset Records	9
Table 4: Requirement 1 – Excluded Assets	11
Table 5: Requirement 3 – Excluded Assets	12
Table 6: Recognition Summary	14
Table 7: Material Quantity List	
Table 8: Hazardous Material Removal (Exterior Siding)	
Table 9: Hazardous Material Removal (Exterior Block)	
Table 10: Building Demolition/Removal	
Table 11: Disposal Cost per Trip	18
Table 12: Disposal Cost per Trip (HBM)	
Table 13: Concrete Removal (m³)	18
Table 14: Aboveground Tank Removal	
Table 15: Water Well Abandonment (ea)	
Table 16: Service Cost Assumptions	20
Table 17: Demolition Costs	20
Table 18: Reclamation Unit Costs	21
Table 19: Reclamation Activity Costs for Ontario	21

July 9, 2024

Page iv



DISCLAIMER

Limitations, Reliance, And Confidentiality

This report has been prepared for the limited purposes set forth in the Service Agreement. This report does not quantify the extent of all current and/or potential environmental impacts and/or legal obligations and is limited in scope to the reports provided. No report can wholly identify or eliminate the possibility of environmental impacts or risks. Conclusions derived are specific to the immediate scope of the review study, and the limitations imposed by available information, and cannot be extrapolated or expanded beyond the scope herein. This report has been prepared for the exclusive use of the Client subject to the terms, conditions and limitations contained within the statement of work or terms of service for this report. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third party. 360 accepts no responsibility for damages, losses or other impacts suffered by any third party as a result of decisions made or actions conducted in reliance on this report, unless 360 has provided its prior written consent. Written authorization from 360 will be required for additional parties to rely on this report. 360 makes no representations or warranties other than as expressly given in writing, and no other representations or warranties are implied or expressed.

EXECUTIVE SUMMARY

The Township of McGarry ("McGarry") engaged 360 Engineering & Environmental Consulting Ltd. ("360") to complete the identification, recognition, and estimate of asset retirement obligations ("ARO") associated with its tangible capital assets ("the assets").

The assessment is to serve as the first step in the implementation of the Public Sector Accounting Board's financial reporting standard *PS 3280 – Asset Retirement Obligations*. PS 3280 establishes standards on how public sector entities are required to report a liability for asset retirement obligations. These obligations often arise due to legal and contractual requirements to perform specified retirement activities in relation to the assets end of useful life. The standard requires an entity to recognize a liability for an ARO when the obligation is incurred, and it can be reasonably estimated [1].

An ARO encompasses all costs directly attributable to asset retirement activities and is limited by the extent of the legal obligation establishing the liability. This may include costs required for abandonment, decommissioning, demolition, remediation, reclamation, post-monitoring, disposal, and project management.

Demolition activities include purging vessels and pipelines, dismantling equipment, and removing structures. Remediation is the delineation and removal of contaminated substances from soils and groundwater. Reclamation is the restoration of the surface location to its original land use or an equivalent function.

360 implemented a five-part methodology in this assessment:

- 1) Identification of Assets
- 2) Data Collection
- 3) Recognition Criteria
- 4) Closure Activities
- 5) ARO Estimate

Values utilized in this estimate are reported in undiscounted **2023 CAD**. A summary document detailing the asset retirement obligations associated with the assets was provided electronically: <u>PS 3280 ARO Township of McGarry Appendices</u>.

The effective date of the information is April 25, 2024. Key quantities utilized in the formation and calculation of the assessment and the values contained herein were provided by the Township of McGarry based on McGarry's asset list, facility assessment reports, aerial reviews, and GIS measurement.

Details surrounding the measurement of the assets is noted within the <u>Basis of Estimate</u>.

ASSET RETIREMENT OBLIGATIONS

Township of McGarry's asset retirement obligations are represented in Table 1:

Table 1: Asset Retirement Obligations

Asset	Demolition	Reclamation	Safety	Project Manage- ment	Subtotal
Arena/Community Centre/Library	\$257,374	\$0	\$10,980	\$25,737	\$294,092
Crozier Garage	\$933,675	\$0	\$39,832	\$93,368	\$1,066,875
Medical Building	\$290,756	\$0	\$12,404	\$29,076	\$332,236
Office/Firehall/Public Works	\$373,470	\$0	\$15,933	\$37,347	\$426,750
Pumphouse (Well No. 1 Chiminis)	\$39,617	\$11,896	\$2,198	\$5,151	\$58,863
Secondary Well (Well No. 2 T3/91)	\$5,000	\$0	\$213	\$500	\$5,713
Ossian Gravel Pit	\$0	\$31,805	\$1,358	\$3,181	\$36,344
McGarry Gravel Pit	\$0	\$15,665	\$669	\$1,567	\$17,900
Municipal Waste Disposal Site	\$0	\$174,346	\$7,445	\$17,435	\$199,226
Diesel Fuel Tanks	\$6,842	\$0	\$292	\$684	\$7,818
Total	\$1,906,735	\$233,713	\$91,325	\$214,045	\$2,445,817

RECOGNIZED ASSETS

The assets that meet the recognition criteria for an ARO are represented in Table 2:

Table 2: Asset Compilation

Asset	Justification	Obligating Legislation, Source or Contract
Arena/Community Cen- tre/Library	There is an in-scope legal obligation for the removal of hazardous build-	Occupational Health and Safety Act, R.S.O 1990, (c. O-1, as amended). Section(s)
Crozier Garage Medical Building	ing materials (HBMs) where they may be disturbed during renovation,	37.1-37.3, 39.1. [2]
Office/Firehall/Public Works	maintenance, or demolition, ARO will be calculated for the removal of the HBM-containing portions of the buildings according to the method that the retirement obligation is most likely to be fulfilled.	Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations, O. Reg. 278/05, Section(s) 3.4, 6.1-6.2, 10.1-10.3, 10.10-10.11. [3]
		Township of McGarry. (2015). "Roof Lease Agreement". Solaire McGarry Solar Inc. Section(s) 5.4. [4]
Pumphouse Secondary Well	There is an in-scope legal obligation to abandon the water wells in a prescribed manner when they are permanently removed from service. ARO will be calculated to reflect compliance with the applicable regu-	proval No. 8844-C6UQEY expiring Sep 15, 2031). Ontario Ministry of the Environment, Conservation and Parks. [5]
	lation.	Wells, R.R.O. 1990, Reg. 903 [made under the Ontario Water Resources Act, R.S.O.

		1990, c. O.40]. King's Printer for Ontario. Section(s) 21-21.1. [6]
Ossian Gravel Pit McGarry Gravel Pit		Aggregate Resources Act, R.S.O (1990, c. A-8, as amended). Aggregate Permit (Permit No. 17037 effected Jun 16, 2011). Ontario Ministry of Natural Resources. [8]
		Aggregate Resources Act, R.S.O (1990, c. A-8, as amended). Section(s) 6, 48.1-48.2, 50.1-50.3. [9]
Municipal Waste Disposal Site	There is an in-scope legal obligation to perform rehabilitation and post-closure monitoring activities for the landfill site upon final closure. ARO will be calculated to reflect compliance with the Certificate of Approval.	Environmental Protection Act. (1971). Provisional Certificate of Approval: Waste Disposal Site (Approval No. A572402 issued Aug 20, 1980). Ontario Ministry of the Environment. [10] Landfilling Sites, O. Reg. 232/98 {made under the Environmental Protection Act,
		R.S.O. 1990, c E.19]. King's Printer for Ontario. Section(s) 24-25, 31-32. [11]
Diesel Fuel Tanks	There is an in-scope legal obligation to dispose of these assets in a prescribed manner upon retirement. ARO will be calculated to reflect compliance with the applicable regulation.	Environmental Protection Act, R.S.O. (1990, c. E-19, as amended). Certificate of Approval: Air. (Approval No. 0577- 6VAU2Z issued Nov 16, 2006). Ontario
		Environmental Protection Act, R.S.O. (1990, c. E-19, as amended). Certificate of Approval: Air. (Approval No. 6997-73UN73 issued Sep 19, 2007). Ontario Ministry of the Environment. [14]
		Fire Code, O. Reg. 231/07 [made under the Fire Protection and Prevention Act, S.O. 1997, c. 4]. King's Printer for Ontario. Section(s) 4.3.17.2-4.3.17.5. [15]

DATA

Data was sourced from proprietary data provided by Township of McGarry, public records, satellite imagery, and 360's proprietary database. In general:

- McGarry's proprietary data was comprised of:
 - o Asset lists [16] [17]
 - o Appraisals and historical records [18] [19] [20] [21]
 - o Environmental assessments and sampling [22] [23] [24]
 - o Contracts and agreements [25] [26] [27] [4]
- Public records encompassed:
 - o Historical environmental approvals, order, and enforcements [28] [29] [30] [31] [32] [33] [34] [35]
 - Various policy and regulatory documents [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [46] [47] [2] [48] [49] [50] [51] [52] [53]
 - o Hazardous materials manuals [54] [55] [3] [56] [57] [58] [59] [60]
- Satellite imagery was used to characterize landscape features, construction history, and facility components [61].
- 360's proprietary database included:
 - o Service unit rates [62] [63]
 - o 2,641 analogous Environmental Site Assessment ("ESA") and remediation reports
 - Technical data and closure records collected while evaluating \$20 billion of ARO and conducting 5,500 closure activities in the Western Canadian Sedimentary Basin.

REFERENCE OF ESTIMATES

The costs applied are exhibited in the Appendices.

SCOPE OF ESTIMATE

Costs were developed from 360's proprietary data and professional experience. In general:

- The asset's demolition and disposal estimates were calculated according to assumed construction quantities and the quantum of service associated with the demolition and disposal of each quantity.
- Remediation was out of scope of this assessment as there was no documentation allowing the
 presence of contamination to be confirmed. If it is considered likely that future environmental assessments will confirm the presence of contamination, a different section may apply (see PS 3300).
- Reclamation was calculated according to construction type, land use, and disturbance area and the quantum of service associated with the activity.

BASIS OF ESTIMATE

Execution Methodology

The assets or their components, where identified, are to be demolished on site and removed based on best practices, occupational health and safety requirements, and provincial and federal regulations as applicable

Contents

The ARO estimate assumes all contents (i.e. equipment, accessories, etc.) have been removed prior to demolition and deconstruction. No salvage or resale values were netted against the ARO.

Vendor Experience and Rationale

The basis of estimate and costing methodology was derived from historical data sets completed and compiled by 360 and professional experience including but not limited to:

- \$25B of asset retirement obligations assessed.
- Benchmarking data from 400+ Site-Specific Liability Assessments [64].
- Proprietary database of 10,000+ historical environmental reports.
- Team of 100+ engineering and environmental professionals across British Columbia, Saskatchewan, and Alberta.
- 100% approval of ARO values utilized for financial reporting as audited by multinational accounting firms.

Rates

Unit rates were sourced from 360 internal execution rates for closure activities. The rates utilized in the ARO estimate are represented in *Appendix B – Rate Sheet* provided electronically.

Equipment Rates

Equipment rates utilized in the ARO estimate are inclusive of operator costs.

Insurance

Transportation insurance costs are excluded from the ARO estimate.

Hazardous Building Materials

360 reviewed all buildings under ownership or management of the Township with construction or in-service dates before 1991 to determine the likelihood of the presence of hazardous building materials (HBMs) that would allow McGarry to recognize a liability based on legislation and standards related to the safe abatement and disposal of hazardous materials. Buildings with construction dates after 1990 are considered less likely to contain HBMs as per Government of Ontario guidance [58]. 360 completed a desktop exercise utilizing Township provided data, publicly available data, and photos of visible construction materials to facilitate the assessment of potential retirement obligations that McGarry should recognize based on the likelihood of hazardous building materials present in the remainder of the buildings.

360 reviewed aerial photos and management documentation as available for all buildings to determine if the asset had analogous characteristics to building practices and materials known to contain hazardous substances, as defined in asbestos management guidance documents [58] [60] [59]. The identification of these practices and characteristics including vintage, building type, building use, and building materials were benchmarked against the guidance documents by comparing the manufacturing period of known HBMs to the construction, renovation, or in-service date of the building to consider the potential inclusion of the asset per PS 3280 requirements.

360 recognized construction materials that may contain asbestos and estimated the cost to abate, remove, and dispose of the potential HBMs using its proprietary cost models factoring in individual building characteristics such as surface area, building height, age, and the nature of the material being disposed. In summary, only assets of the appropriate vintage with visible construction materials thought to be potentially HBM-containing were included, as outlined in the Ontario guidance documents.

DISCLAIMER: 360 provides these cost estimates based on publicly available data and Government of Ontario technical bulletins and best practices. These estimates are to be used as a benchmark for the purpose of recording a liability related to an asset retirement obligation. A desktop review cannot confirm the presence of hazardous building materials and should not be relied upon for the purposes of planning, development, renovation, construction, or any other such act that may require disturbance of materials within the assets noted in the assessment. The Township is recommended to follow best practices per Ontario Occupational Health & Safety Legislation such as completing hazard assessments, intrusive sampling and testing to confirm the presence of hazardous building materials prior to any development, renovation, construction, or disturbance within the buildings noted in this assessment.

Key Assumptions

The accuracy and reliability of the ARO estimate depends on the validity of the following key assumptions. These assumptions should be continuously monitored, and any significant deviations should be promptly addressed through proper change management procedures.

Disposal Estimate Project Management

Project management fees were applied with a 10% multiplier to the base costs. The project management costs represent third party contractor costs associated with the demolition and reclamation of the assets.

Safety

360 utilized a 4.27% safety multiplier applied to all demolition and reclamation activities. The safety multiplier was derived from statistics for safety spend within industry and extrapolated for the province of Ontario. The multiplier includes 1.3% for Workers Compensation Board premiums [65], 2.50% spend for on site safety training [66], and 0.47% for normal use on site personal protective equipment (PPE) [67].

Material Disposal

Material quantities attributed to the building's area are to be removed, transported, and disposed of at the nearest disposal area.

Estimate Methodology

The values contained herein were completed as a 2023 estimate.

July 9, 2024

Page 6

<u>Technology</u>

The assessment does not predict future technological advances and process improvements.

Post-1990 Facilities

This assessment assumes that the likelihood of the presence of hazardous building materials in buildings constructed after 1990 to be nil.

July 9, 2024

Page 7

GENERAL ASSESSMENT METHODOLOGY

360 implemented a five-part methodology in this assessment:

- 1) Identification of Assets
- 2) Data Collection
- 3) Recognition Criteria
- 4) Closure Activities
- 5) ARO Estimate

IDENTIFICATION OF ASSETS

360 used McGarry's list of tangible assets ("TCA Register"), public and historical environmental data to identify unique assets for the identification of potential asset retirement obligations.

The identification process considered:

- · Assets in productive use and being amortized,
- · Tangible capital assets fully amortized,
- · Assets no longer in productive use,
- Unrecognized tangible capital assets,
- Unrecorded tangible capital assets identified in public records [28] [29] [30] [31] [32] [33] [34] [35],
- Unrecorded tangible capital assets identified in any provincial dispositions.

The assets were classified in accordance with official recommendations [68] and categorized based on asset description, age, book value, and event count. To ensure that the fullest representation of the Township's assets was captured, all available and relevant information was compiled. This included, but was not limited to:

- Permanent structures and their disturbance area,
- Land and land improvements,
- Surface infrastructure (i.e., storage vessels, shacks, etc.),
- Ancillary surface fixtures and their disturbance area (i.e., concrete pads, parking lots, etc.),
- Portable, temporary, and/or non-fixed assets (machinery, vehicles, bus shelters, etc.),
- Engineered structures,
- Residual contamination from operation or other contamination events.

Certain records in the TCA Register were consolidated to represent a unique underlying asset where appropriate. The corresponding event count refers to individual TCA Register records, overlapping assets, or adjusting entries. The asset data is represented in Table 3.

Table 3: Asset Records

Major Asset Class	Unique TCA IDs (360)	Event Count
Buildings	7	5
Engineered Structures	210	207
Land	40	40
Land Improvements	6	3
Machinery & Equipment	23	22
Vehicles	8	8
Total	294	285

DATA COLLECTION

360 requested to access, review, and collect multiple data sets to verify that no assets were overlooked in the identification process and to identify where legal obligations for retirement may exist. The purpose of requesting and gathering data is to ensure that all relevant information to the recognition or calculation of a potential ARO is thoroughly investigated.

360 requested the following information from the Township of McGarry:

- A complete register of all tangible capital assets currently owned or controlled.
- Electronic plot plans, site plans, and construction plans for major buildings and infrastructure.
- Details of any third-party assets located on Township-owned land and any assets for which the Township maintains an interest but is not the primary owner or leaseholder, including contracts and agreements for the third-party use of Township-owned assets.
- Reports and results of any environmental assessments, testing, and sampling that was completed in relation to the assets.
- Details of any known contamination, structural damage, hazardous building materials, or hazardous chemicals stored or handled in relation to the assets.
- Details of any machinery and equipment requiring disposal under environmental legislation, or equipment that may generate contamination through its normal use.
- Details of any assets that the Township planned to permanently remove from service or prepare for alternative use.
- Details of any assets that may cross, are in proximity to or adjacent to a water body or sensitive natural area.
- Details of any landfills active or inactive and the nature of their ownership by the Township.
- Details of any cultural, historical, or heritage sites that the Township had an interest in preserving indefinitely.
- Details of any legal or environmental enforcements, orders, or judgements made in relation to the assets.

360 assumed that all data collected was complete and accurate to the best knowledge of the Township. 360 cannot confirm the accuracy and validity of the data collected from private or proprietary sources.

The requests assisted in identifying information, documents, approvals, orders, or testing results that could be used to validate the potential inclusion or exclusion of an asset based on PS 3280 ARO recognition criteria.

Additional information was collected and included the following:

- Interviews with key Township of McGarry employees responsible for management and oversight of the assets [69].
- Review of satellite imagery to identify ancillary assets, construction practices, and land use [61].
- Review of key travel distances and environmental considerations.
- Review of legislation regulating environmental protection and enhancement activities.

360 reviewed public records published by the Ontario Government to determine any historical environmental enforcements or prosecutions, approvals, permits, or authorizations, applicable regulations, environmental site assessments, development history, and designated historical or cultural sites to supplement the data requests provided by the Township [28] [29] [30] [31] [32] [33] [34] [35].

The data collected was cross referenced against the identified asset lists to determine if the assets met the PS 3280 recognition criteria.

RECOGNITION CRITERIA

PS 3280 specifies four criteria that must be met for an asset retirement obligation to exist, including the presence of a legal obligation, the occurrence of a past transaction or event, an expectation of future economic benefits being given up, and the ability to make a reasonable estimate of the amount. These liabilities arise from legal obligations associated with the retirement of tangible capital assets, stemming from acquisition, construction, development, or use [70].

Requirement 1: A Legal Obligation Exists

The first step in the application of PS 3280 recognition criteria was to determine if a legal obligation exists. A legal obligation:

- Stems from the entity's acquisition, construction, development, or normal use of a TCA.
- In some form requires the retirement of an asset through contracts, legislative requirements, or reasonable expectations under the doctrine of promissory estoppel.

In determining whether a legal obligation exists, all known client provided data and public data was reviewed.

Where a legal obligation did not exist, the asset fell outside of the scope of the Standard and an ARO was not recognized. The assets excluded per requirement 1 are represented in Table 4:

Table 4: Requirement 1 - Excluded Assets

Major Asset Class	Minor Asset Class	Justification	Source
Buildings	Permanent Structure (3/7)	Out of scope: A legal obligation does not exist. Include if the Township can provide any agreements, contracts, development plans, or engineering studies that may suggest any of these assets: are known to contain hazardous materials; must be removed, decommissioned, or demolished for any legal reason; must be monitored post retirement; are being prepared for permanent removal or alternate use that could impose an existing legal obligation; are being prepared for removal and are across or adjacent to a water body or sensitive natural area.	None
Land Improvements	Outdoor Recreation, Play- ground Structure	Out of scope: A legal obligation does not exist.	None
Machinery & Equip- ment	Communications, Computer System, Control System, Fire Equipment, Heavy Construction Equipment, Office Furniture & Equipment, Tools & Shop Equipment	Out of scope: A legal obligation does not exist.	None
Vehicles	All Minor Classes	Out of scope: A legal obligation does not exist.	None

Where a legal obligation did exist in relation to an asset or its component costs, the recognition process moved on to the next criterion.

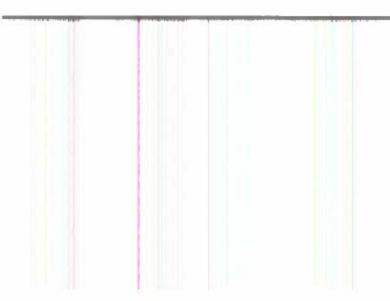
Requirement 2: Obligating Event has Occurred

An asset retirement obligation can be incurred through a past transaction or event that puts the identified asset in control of the entity such as:

- The acquisition, construction, or development of a tangible capital asset; or
- Normal use of a tangible capital asset.

The existence of a legally enforceable obligation is not the event that creates the liability [71]. The obligating event had occurred for all assets satisfying the prior criterion and the recognition process moved on to the next criterion.

July 9, 2024 Page 11



Requirement 3: Future Economic Benefits Given Up

The requirement that future economic benefits will be given up performing the retirement activities must be satisfied to recognize an ARO per PS 3280. The requirement is defined under the basis that depreciable assets have a finite life and, at some point in the future, will deteriorate to the point where they cannot be routinely maintained and must be replaced. Obligations that result from the normal use of a tangible capital asset are predictable, likely to occur and unavoidable as a result of operations [72].

Where it was deemed unlikely that an asset would be permanently removed from service in a manner satisfying an existing legal obligation, future economic benefit would not be forgone, and the asset fell outside of the scope of the Standard. The assets excluded per requirement 3 are represented in Table 5:

Table 5: Requirement 3 – Excluded Assets

Major Asset Class	Minor Asset Class	Justification	Source
Engineered Struc- tures	Roadway System, Storm System	Out of scope: Future economic benefits are not expected to be given up. Given the nature of the assets, the Township expects that it will never incur costs to permanently remove any portion of the system, nor has the Township provided any agreements, contracts, development plans, or engineering studies suggesting that any portion of the system is to be permanently removed.	None
Engineered Structures	Sewer System	nently removed. Out of scope: Future economic benefits are not expected to be given up. Given the nature of the assets, the Township expects that it will never incur costs to permanently remove any portion of the system, nor has the Township provided any agreements, contracts, development plans, or engineering studies suggesting that any portion of the system is to be permanently removed.	Ontario Water Resources Act, R.S.O (1990, c O.40). Certificate of Approval: Municipal and Private Sewage Works (Approval No. 5186-699S9C issued Jul 6, 2006). Ontario Ministry of the Environment. [73] Licensing of Sewage Works Operators, O. Reg. 129/04 [made under the Ontario Water Resources Act, R.S.O. 1990, c.O.40]. King's Printer for Ontario. [74] Water Works and Sewage Works, O. Reg. 435/93 [made under the Ontario Water Resources Act, R.S.O. 1990, c.O.40].

			King's Printer for Ontario. [75]
Engineered Struc- tures	Water System: Distribution System, Reservoir	Out of scope: Future economic benefits are not expected to be given up. Given the nature of the assets, the Township expects that it will never incur costs to permanently remove any portion of the system, nor has the Township provided any agreements, contracts, development plans, or engineering studies suggesting that any portion of the system is to be permanently removed.	Safe Drinking Water Act, S.O. 2002, c. 32. Munici- pal Drinking Water Li- cence (DWS No. 220000317). [49]

Where an asset satisfied the requirement, the recognition process moved on to the next criterion.

Requirement 4: A Reasonable Estimate can be Made

A reasonable estimate of the costs directly attributable to the retirement of the asset must be satisfied as the final recognition criterion in identifying an ARO. These estimates are built upon reliable proprietary data, local unit rates, and expert opinion.

A reasonable estimate of the asset retirement obligation could be made for all assets satisfying the prior criteria. No assets were excluded at this step.

Assets satisfying all criteria had a recognizable ARO requiring an estimate in accordance with the legal obligation establishing the liability.

Exclusions

Key exclusions based on the criteria review and expert opinion included the following assets and major classifications:

Network Distribution and Collection Systems

Exclusion on the basis that infrastructure and gathering systems associated with water and wastewater collection and distribution are assumed to be replaced and routinely maintained for the use and purposes of the Township. Any future suspension or abandonment of segments are assumed to be reclaimed in place in the effort to reduce further disturbance of ecological environments.

Inclusions

360 reviewed and completed the recognition criteria for each asset class and identified asset. The assets that met the PS 3280 recognition criteria are represented in Table 6:

July 9, 2024

Page 13

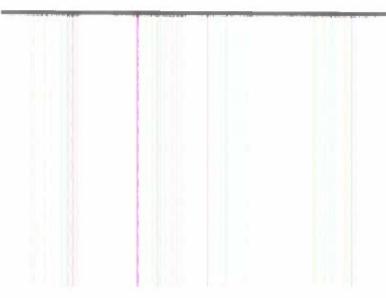


Table 6: Recognition Summary

Asset	Requirement 1: Legal Obli- gation	Requirement 2: Obligating Event	Requirement 3: Future Benefit	Requirement 4: Reasona- ble Estimate	Recognized ARO
Arena/Community Centre/Library	Υ	Υ	Υ	Υ	Υ
Crozier Garage	Υ	Υ	Υ	Υ	Υ
Medical Building	Υ	Υ	Υ	Υ	Υ
Office/Firehall/Public Works	Υ	Υ	Y	Υ	Υ
Pumphouse (Well No. 1 Chiminis)	Υ	Υ	Υ	Y	Υ
Secondary Well (Well No. 2 T3/91)	Y	Υ	Υ	Υ	Υ
Ossian Gravel Pit	Υ	Υ	Υ	Υ	Υ
McGarry Gravel Pit	Υ	Υ	Y	Υ	Υ
Municipal Waste Disposal Site	Υ	Y	Y	Y	Y
Diesel Fuel Tanks	Υ	Υ	Y	Y	Y
Arena/Community Centre/Library	Υ	Υ	Υ .	Υ	Y

Inclusion summaries referencing processes, relevant legislation, sources, and contractual obligations were provided electronically in <u>Appendix C - Scope Summary</u>.

CLOSURE ACTIVITIES

The assets that met the required PS 3280 criteria for the recognition of an ARO were assigned analogous service types to determine closure costs and risk associated with the requirements for closure activities.

Building Demolition & Disposal

The constructed assets were characterized by major components. Components were identified from plot plans and satellite imagery.

The major components were defined as:

Major Component	Description
Vessel	Small infrastructure that required a small picker truck to decommission.
Tank	An above ground tank used to store fluids. Tanks ranged between 100 bbl. to 3,000 bbl.
Infrastructure	Structures were counted based on aerial review

Remediation

Remediation was excluded from this assessment due to the lack of completed environmental site assessments, Phase 1, or Phase 2 remedial assessments required to determine the presence of contaminants from normal use of the tangible capital assets. The existence of any liability in such cases is contingent on a future determination by a court, a regulator or some other competent authority, or a future determination by the entity that it would be held liable, and therefore excluded from the scope of PS 3280.

Reclamation

Reclamation was characterized by lease construction type, land use, access road construction type, disturbance area, and access road length.

Lease Construction

Lease construction type was defined as:

Construction Type	Definition
Built	The topsoil horizon was stripped to a clay base or clay was imported to build a base and gravel was added to act as the surface of the lease.

<u>Land Use</u>

Land use was classified as:

Land U	Use	Definition
Forest	ted	Any treed land, whether or not the forest vegetation is utilized for commercial purposes (excluding agroforestry and wetlands) [19].

Access Road Construction

Access road construction type was distinguished as:

Construction Type	Definition
Built	The construction practises mirrored those of built leases discussed above; the topsoil horizon on the access road was stripped to a clay base or clay was used to build a base and layers of gravel were added to act as the primary road surface.

<u>Disturbance Area</u>

Disturbance area is defined where the physical, chemical, or biological properties of soil and vegetation had been altered and required replacement to equivalent land capability [40].

ASSET RETIREMENT OBLIGATION ESTIMATES

ARO estimates were calculated for each closure activity based on construction material quantities and service unit rates specific to the Assets utilizing the basis of estimate referenced in this assessment.

Building Demolition

Building demolition costs were applied to each asset and based on service type and material quantities calculated by 360 for the purposes of the estimates.

The material quantities calculated for the assets are demonstrated in Table 7:

Table 7: Material Quantity List

Construction Material	Quantity
Finishing Material – Cinderblock (ea)	76,038
Finishing Material – Drywall/Flooring (ea)	70
Finishing Material – Siding (ea)	2,283
Tank Abandonment (ea)	4
Well Abandonment (ea)	2

The service rates and units of time required for closure and the summation of, formulated the overall demolition costs of the buildings. 360 determined the per day cost for each service activity which are outlined below:

The costs for Hazardous Material Removal (Exterior Siding) are described in Table 8.

Table 8: Hazardous Material Removal (Exterior Siding)

	Rates	Units	Service
Service	ON	-	ON
Labourer (hour)	\$80	2	\$1,600
Dump Trailer (hour)	\$170	1	\$1,700
Scissor lift (hour)	\$139	1	\$1,389
Supervisor (day)	\$1,000	1	\$1,000
Tear Off Asbestos Material - no haul off	\$2	100	\$2,000
Containment Barrier/Airlock/Decon. Chamber	\$0.67	133	\$89
Containment Barrier - Tension post - per day	\$4.23	33	\$141
Negative Air Fan/Air Scrubber (Day)	\$140	7	\$933
Crew Truck (day)	\$900	1	\$900
Asbestos Material Disposal Container	\$125	25	\$3,128
Total			\$12,880

The costs for Hazardous Material Removal (Exterior Block) are described in Table 9.

Table 9: Hazardous Material Removal (Exterior Block)

	Rates	Units	Service
Service	ON	2	ON
Labourer (hour)	\$80	2	\$1,600
Dump Trailer (hour)	\$170	1	\$1,700
Scissor lift (hour)	\$139	1	\$1,389
Supervisor (day)	\$1,000	1	\$1,000
Tear Off Asbestos Material - no haul off	\$8	25	\$2,000
Containment Barrier/Airlock/Decon. Chamber	\$0.67	33	\$22
Containment Barrier - Tension post - per day	\$4.23	8	\$35
Negative Air Fan/Air Scrubber (Day)	\$140	2	\$233
Crew Truck (day)	\$900	1	\$900
Asbestos Material Disposal Container	\$125	6	\$782
Total			\$9,662

The costs for Building Demolition/Removal are described in Table 10.

Table 10: Building Demolition/Removal

	Rates	Units	Service
Service	ON	-	ON
Labourer (hour)	\$80	3	\$1,920
Excavator w/ attachment (hour)	\$218	1	\$1,744
Excavator (hour)	\$195	1	\$1,560
Dump Trailer (hour)	\$170	1	\$1,360
D6 Dozer	\$200	1	\$1,600
Supervisor (day)	\$1,000	1	\$1,000
Crew Truck (day)	\$900	1	\$900
Total			\$10,084

The costs for Disposal Cost per Trip are described in Table 11.

Table 11: Disposal Cost per Trip

	Rates	Units	Service
Service	ON		ON
Labourer (hour)	\$80	0.83	\$1,067
Dump Trailer (hour)	\$170	0.83	\$2,267
Crew Truck (day)	\$900	0.83	\$1,500
Landfill (Tonne)	\$0	3.86	\$0
Total			\$4,833

The costs for Disposal Cost per Trip (HBM) are described in Table 12.

Table 12: Disposal Cost per Trip (HBM)

	Rates	Units	Service
Service	ON	-	ON
Labourer (hour)	\$80	0.83	\$1,333
Dump Trailer (hour)	\$170	0.83	\$2,833
Crew Truck (day)	\$900	0.83	\$1,500
Landfill (Tonne)	\$0	3.86	\$0
Total			\$5,667

The costs for Concrete Removal are described in Table 13.

Table 13: Concrete Removal (m³)

	Rates	Units	Service	
Service	ON		ON	
Excavator w/ attachment (hour)	\$218	1	\$1,744	
Excavator (hour)	\$195	1	\$1,560	
Rock Truck (hour)	\$250	1	\$2,000	
Supervisor (day)	\$1,000	1	\$1,000	
Recycle bin (day)	\$500	1	\$500	
Crew Truck (day)	\$900	1	\$900	
Labourer (hour)	\$80	2	\$1,280	
Total			\$8,984	

The costs for Above Ground Tank Removal are described in Table 14.

Table 14: Aboveground Tank Removal

	Rates	Units	Service
Service	ON	-	ON
Maintenance Crew w/ 1 Ton picker truck (hour)	\$168	2	\$336
Combo Unit w/ Swamper (hour)	\$360	1	\$360
Liquid Disposal (m³)	\$80	4	\$320
Landfill (Tonne)	\$0	0.1	\$0
Supervisor (Day)	\$1,000	0.5	\$500
Excavator (hour)	\$195	1	\$195
Total			\$1,711

The costs for Water Well Abandonment are described in Table 15.

Table 15: Water Well Abandonment (ea)

	Rates	Units	Service
Service	ON	+	ON
Maintenance Crew w/ 1 Ton picker truck (hour)	\$168	1	\$671
Labourer (hour)	\$80	2	\$1,280
Supervisor (day)	\$1,000	1	\$1,000
Crew Truck (day)	\$900	1	\$900
Cement Services	\$2,500	1	\$2,500
Administration & Reporting	\$200	1	\$200
Project Management & Engineering	\$500	0.25	\$125
Total			\$6,676

Key assumptions were used to quantify unit time for the summation of service costs. The following assumptions were applied to determine the demolition & disposal activity costs in Table 16.

Table 16: Service Cost Assumptions

Key Assumptions	Unit	Rate
Workday	Shift (hours/day)	8
Workday – Asbestos Material Removal	Shift (hours/day)	10
Asbestos Material Removal - Concrete/Cinder	Rate (m2/day)	25
Asbestos Material Removal - Hardiboard/Siding	Rate (m2/day)	100
Asbestos Material Containment (Setup/Tear Down)	Rate (m2)	1.33
Asbestos Material Containment (HEPA negative air)	Rate (m2/day)	1
Asbestos Material Containment (Tension Posts)	Rate (ea/hr)	4
Asbestos Material Disposal Container	Rate (m2/each)	4
Building Demolition	Rate (m2/day)	600
Concrete Removal	Rate (m³/day)	120
Dump Trailer	Capacity (kg)	3,855
Distance to Disposal Area	(km)	5
Travel Time	Round trip (hr)	0.83
Wall Height	m	2.4

Demolition & Disposal Activity Costs

360 extrapolated the performance assumptions across the material quantities and service costs. The estimate for demolition and disposal is represented in Table 17.

Table 17: Demolition Costs

	Demolition &	Project Man-	
Asset Name	Disposal	agement	Total
Arena/Community Centre/Library	\$257,374	\$25,737	\$283,112
Crozier Garage	\$933,675	\$93,368	\$1,027,043
Medical Building	\$290,756	\$29,076	\$319,831
Office/Firehall/Public Works	\$373,470	\$37,347	\$410,817
Pumphouse (Well No. 1 Chiminis)	\$34,617	\$3,462	\$38,079

Reclamation

Reclamation costs were estimated for the site based on five reclamation activities: earthworks, vegetation management, assessment, topsoil, and fencing. The costs for each reclamation activity were calculated according to service rates and quantity of units based on construction type, land use, and disturbance area.

The following assumptions were applied to determine the reclamation activity costs:

Ontario	Unit	Forested Rates
Disturbance Area Reclaimed per Day	m²	2,000
Access Reclaimed per Day	m	150
Dozer: Excavator Ratio	ea	1:1
Disturbance Area	m²	8,000
Access Road Length	m	0
Trucking Time (Round Trip)	hr	1

The unit costs for reclamation are demonstrated in Table 18.

Table 18: Reclamation Unit Costs

Service	Per	NE ON
Project Manager	Hour	\$120
Administrative	Hour	\$120
Site Supervisor	Day	\$1,000
Line Locates	Fixed	\$920
Hydrovac	Hour	\$440
Survey	Fixed	\$1,500
Lowboy (Mob/Demob)	Hour	\$180
Tractor (Disk Topsoil)	Hour	\$115
D6 Dozer	Hour	\$200
Excavator	Hour	\$160
Truck and Pup	Hour	\$170
Operator Travel	Hour	\$65
Operator Crew Truck	Day	\$150
Subsistence/Accommodations	Day	\$350
Equipment Washing	Equipment	\$1,100
Tractor (Seeding)	Hour	\$103
Seed Drill	Day	\$275
Seed	Fixed	\$825
Saplings	Stem	\$2.50
Labourer	Hour	\$85

Reclamation Activity Costs

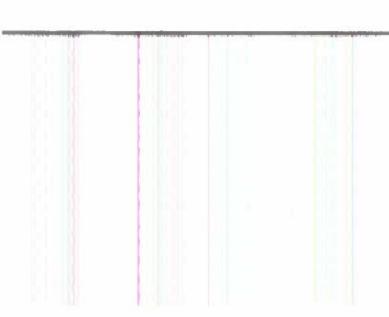
The costs for each reclamation activity in Ontario is summarized in Table 19.

Table 19: Reclamation Activity Costs for Ontario

Construction			Vegetation Man	
Type	Land Use	Earthworks (m²)	agement	Assessment
Built	Forested	\$3.43 - \$98.12	\$1,170 - \$31,970	\$4,250

July 9, 2024

Page 21



CLOSING SUMMARY

The ARO projections in this assessment were calculated using the available historical data, 360's proprietary benchmarking data, and professional judgement. It is possible that unknown conditions may result in large variances from the assigned liability values. The ARO estimate was calculated according to current regulations, technology, and industry practises.

We trust this information meets your present requirements. Please contact Graeme Hawkins at 403-629-9799 should you have any questions.

This report was prepared by:

Logan Riexinger Project Engineer

L. Islinz

This report was prepared by:

Leah Glinz ARO Analyst This report was reviewed by:

Graeme Hawkins

Manager, Asset Retirement Obligations

REFERENCES

- [1] Financial Reporting & Assurance Standards Canada, *PS 3280 Asset Retirement Obligations*, PS 3030 PS 3510 ed., Public Sector Accounting Board, 2023.
- [2] Government of Ontario, "Occupational Health and Safety Act, R.S.O. 1990, c. O.1.," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/90001.
- [3] Government of Ontario, "Designated Substance Asbestos on Construction Projects and in Buildings and Repair Operations, O. Reg. 278/05 [made under the Occupational Health and Safety Act, R.S.O. 1990, c. O.1]," King's Printer for Ontario, 2020.
- [4] Township of McGarry, "Solar Project Roof Lease Agreement 2015," Karine Pelletier, 2024.
- [5] Province of Ontario, "Ontario Water Resources Act, R.S.O (1990, c O.40). Permit to Take Water (Approval No. 8844-C6UQEY expiring Sep 15, 2031)," Ontario Ministry of the Environment, Conservation and Parks, 2021.
- [6] Government of Ontario, "Wells, R.R.O. 1990, Reg. 903 [made under the Ontario Water Resources Act, R.S.O. 1990, c. O.40]," King's Printer for Ontario, 2024.
- [7] Ontario Ministry of Natural Resources, "Aggregate Resources Act, R.S.O (1990, c. A-8, as amended). Aggregate Permit (Permit No. 14487 effected Aug 4, 2011)," King's Printer for Ontario, 2011.
- [8] Ontario Ministry of Natural Resources, "Aggregate Resources Act, R.S.O (1990, c. A-8, as amended). Aggregate Permit (Permit No. 17037 effected Jun 16, 2011)," King's Printer for Ontario, 2011.
- [9] Government of Ontario, "Aggregate Resources Act, R.S.O (1990, c. A-8, as amended). Section(s) 6, 48.1-48.2, 50.1-50.3.," King's Printer for Ontario, 2024.
- [10] Province of Ontario, "Environmental Protection Act. (1971). Provisional Certificate of Approval: Waste Disposal Site (Approval No. A572402 issued Aug 20, 1980)," Ontario Ministry of the Environment, 1980.
- [11] Government of Ontario, "Landfilling Sites, O. Reg. 232/98 [made under the made under the Environmental Protection Act, R.S.O. 1990, c E.19]," King's Printer for Ontario, 2011.
- [12] Province of Ontario, "Environmental Protection Act, R.S.O. (1990, c. E-19, as amended). Certificate of Approval: Air. (Approval No. 0577-6VAU2Z issued Nov 16, 2006)," Ontario Ministry of the Environment, 2006.

- [13] Province of Ontario, "Environmental Protection Act, R.S.O. (1990, c. **E-19**, as amended). Certificate of Approval: Air. (Approval No. 6257-6VAPPL issued Nov 16, 2006)," Ontario Ministry of the Environment, 2006.
- [14] Province of Ontario, "Environmental Protection Act, R.S.O. (1990, c. E-19, as amended). Certificate of Approval: Air. (Approval No. 6997-73UN73 issued Sep 19, 2007)," Ontario Ministry of the Environment, 2007.
- [15] Government of Ontario, "Fire Code, O. Reg. 231/07 [made under the Fire Protection and Prevention Act, S.O. 1997, c. 4]," King's Printer for Ontario, 2024.
- [16] Township of McGarry, "Tangible Capital Asset Detail By Business Group (2)," Karine Pelletier, 2024.
- [17] Township of McGarry, "McGarry Facilities & Address," Karine Pelletier, 2024.
- [18] Township of McGarry, "McGarry.ON.2022-flNANCIAL-REPORT," Karine Pelletier, 2024.
- [19] Township of McGarry, "McGarry.ON.Asset-Management-Plan," Karine Pelletier, 2024.
- [20] Township of McGarry, "Asset Management Plan," Karine Pelletier, 2024.
- [21] Township of McGarry, "info 360," Karine Pelletler, 2024.
- [22] Township of McGarry, "Pinchin," Karine Pelletier, 2024.
- [23] Township of McGarry, "2017 annual summary report ocwa," Karine Pelletier, 2024.
- [24] Township of McGarry, "Virginiatown-Kearns DWS 2020 Annual Report," Karine Pelletier, 2024.
- [25] Township of McGarry, "certificate solar," Karine Pelletier, 2024.
- [26] Township of McGarry, "solar agreement," Karine Pelletier, 2024.
- [27] Township of McGarry, "Solar Panel Building Permit Roof 2014," Karine Pelletier, 2024.
- [28] Ontario.ca, "Access Environment environmental approvals and registrations," [Online]. Available: https://www.ontario.ca/page/list-environmental-approvals-and-registrations. [Accessed March 2024].
- [29] Government of Canada, "Canadian Impact Assessment Registry," [Online]. Available: https://iaac-aeic.gc.ca/050/evaluations. [Accessed March 2024].

- [30] Government of Canada, "Canadian Environmental Assessment Archives," [Online]. Available: https://iaac-aeic.gc.ca/052/index-eng.cfm. [Accessed March 2024].
- [31] Government of Canada, "Enforcement notifications," [Online]. Available: https://www.canada.ca/en/environment-climate-change/services/environmentalenforcement/notifications.html. [Accessed March 2024].
- [32] Ontario.ca, "Environmental Registry of Ontario," [Online]. Available: https://ero.ontario.ca/search. [Accessed March 2024].
- [33] Ontario Data Catalogue, "Environmental Penalty Annual Report," [Online]. Available: https://data.ontario.ca/dataset/environmental-penalty-annual-report. [Accessed March 2024].
- [34] Ontario Heritage Trust, "Ontario Heritage Act Register," [Online]. Available: https://www.heritagetrust.on.ca/oha/advanced-search. [Accessed March 2024].
- [35] Ontario Land Registry Access, "Ontario Land Property Records Portal," [Online]. Available: https://www.onland.ca/ui/. [Accessed March 2024].
- [36] Canadian Council of Ministers of the Environment (CCME), "Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products (PN 1326). Section(s) 9.4-9.6.," 2008. [Online]. Available: https://www.canada.ca/content/dam/eccc/documents/pdf/cepa/ccme-pn-1326-eng.pdf. [Accessed 2023].
- [37] British Columbia Ministry of Environment and Climate Change Strategy, "Environmental Management Act. SBC 2003 Chapter 53," 2003. [Online]. Available: https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/03053_01. [Accessed 2023].
- [38] BC Oil & Gas Commission, "Site Remediation and Reclamation Manual Version 1.6: June 2022," BC Oil & Gas Commission, Victoria, 2023.
- [39] British Columbia Ministry of Environment and Climate Change Strategy, "Contaminated Sites Regulation. (BC Reg. 375/96, O.C. 1480/96 and M040/2019," BC Energy Regulator, Victoria, 1996.
- [40] Alberta Agriculture and Forestry, "FOMP Share-point Site," 20 April 2015. [Online]. Available: https://www1.agric.gov.ab.ca/\$department/deptdocs.nsf/all/formain15847/\$file/FO-SOP18SoilDisturbanceArea-Dec2015.pdf?OpenElement. [Accessed 28 May 2020].
- [41] Alberta Energy Regulator, "Directive 055: Storage Requirements for the Upstream Petroleum Industry," Alberta Energy Regulator, Calgary, 2001.

- [42] Alberta Environment, "Wellsite Construction: Guidelines for No-Strip and Reduced Disturbance," Government of Alberta, Edmonton, 2003.
- [43] Ministry of Environment and Climate Change Strategy, "Protocol 13 for Contaminated Sites: Screening Level Risk Assessment.," Victoria, 2023.
- [44] Government of Canada, "Prohibition of Asbestos and Products Containing Asbestos Regulations," Government of Canada, Ottawa, 2023.
- [45] Government of Ontario, "Environmental Protection Act, R.S.O. 1990, c E.19," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/90e19.
- [46] Government of Ontario, "Ontario Water Resources Act, R.S.O. 1990, c. O.40," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/90040.
- [47] Government of Ontario, "Municipal Act, S.O. 2001, c. 25.," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/01m25.
- [48] Government of Ontario, "Environmental Assessment Act, R.S.O. 1990, c. E.18.," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/90e18.
- [49] Government of Ontario, "Safe Drinking Water Act, S.O. 2002, c. 32.," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/02s32.
- [50] Government of Ontario, "Clean Water Act, S.O. 2006, c. 22.," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/06c22.
- [51] Government of Ontario, "Planning Act, R.S.O. 1990, c. P.13.," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/90p13.
- [52] Government of Ontario, "Public Lands Act, R.S.O. 1990, c. P.43.," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/90p43.
- [53] Government of Ontario, "Public Transportation and Highway Improvement Act, R.S.O. 1990, c. P.50.," 2024. [Online]. Available: https://www.ontario.ca/laws/statute/90p50.
- [54] Alberta Employment and Immigration, "Best practices mould at the work site (Bulletin BH019). Section(s) 3.2.3, 3.2.4.," Government of Alberta, 2009.
- [55] Alberta Infrastructure, "Technical Specification 02 83 19B Removal and Disposal of Bulk Lead Materials and Lead-Based Paints. Section 3.2.," alberta.ca, 2019.

- [56] Government of Ontario, "Ozone Depleting Substances and Other Halocarbons, O. Reg. 463/10 [made under the Environmental Protection Act, R.S.O. 1990, c E.19]," King's Printer for Ontario, 2011.
- [57] Environment Canada, "Environmental code of practice for the elimination of fluorocarbon emissions from refrigeration and air conditioning systems," Canada.ca, 2015.
- [58] Ministry of Labour, Immigration, Training and Skills Development, "Appendix 2 Sample list of suspect asbestos-containing building material," [Online]. Available: https://www.ontario.ca/document/guide-regulation-respecting-asbestos-construction-projects-and-buildings-and-repair-15. [Accessed May 2024].
- [59] Occupational Health Clinics for Ontario Workers Inc., "Asbestos," [Online]. Available: https://www.ohcow.on.ca/occupational-illness/exposures/asbestos/. [Accessed May 2024].
- [60] American Society for Testing and Materials, "E 1368--05 Standard Practice for Visual Inspection of Asbestos Abatement Projects," ASTM International, 2005.
- [61] Cartofact, "Asset Listing," Cartofact, Calgary, 2024.
- [62] CAT, "345D L Hydraulic Excavator," Lectura Specs, Calgary, 2023.
- [63] Strike, "SERVICE GROUP LABOUR & EQUIPMENT RATES," 360 ELM, Fort Nelson, 2023.
- [64] Alberta Energy Regulator, "Directive 001 Requirements for Site-Specific Liability Assessments," AER, Calgary, 2023.
- [65] WSIB Ontario, "2024 Premium Rates," Workplace Safety and Insurance Board, 2024. [Online]. Available: https://www.wsib.ca/en/2024premiumrates. [Accessed May 2024].
- [66] Electronic Library of Construction Occupational Safety & Health, "Improving Safety Can Save You Money," eLOSCH, Toronto, 2023.
- [67] Institute for Work & Health, "What Do Employers Spend to Protect the Health and Safety of Workers?," Ottawa.
- [68] Alberta Municipal Affairs, "Recommended Guideline #1: Asset Classification," Government of Alberta, 2007.
- [69] Township of McGarry, "PS 3280 Municipalities Data Request_McGarry_Q2 2024 (1)," Karine Pelletier, 2024.
- [70] International Financial Reporting Standards, "International Accounting Standard 37: Provisions, Contingent Liabilities and Contingent Assets," IFRS, Calgary, 2023.

July 9, 2024

Page 27

- [71] Public Sector Accounting Board (PSAB), "Public Sector Accounting Section 3280 Asset Retirement Obligations (PS 3280.17)," CPA Canada, 2022.
- [72] Public Sector Accounting Board, "Public Sector Accounting Section 3280 Asset Retirement Obligations (3280.20)," CPA Canada, 2022.
- [73] Province of Ontario, "Ontario Water Resources Act, R.S.O (1990, c O.40). Certificate of Approval: Municipal and Private Sewage Works (Approval No. 5186-699S9C issued Jul 6, 2006)," Ontario Ministry of the Environment, 2006.
- [74] Government of Ontario, "Licensing of Sewage Works Operators, O. Reg. 129/04 [made under the Ontario Water Resources Act, R.S.O. 1990, c.O.40]," King's Printer for Ontario, 2024.
- [75] Government of Ontario, "Water Works and Sewage Works, O. Reg. 435/93 [made under the Ontario Water Resources Act, R.S.O. 1990, c.O.40]," King's Printer for Ontario, 2024.
- [76] Statistics Canada, "Table 18-10-0005-01 Consumer Price Index, annual average, not seasonally adjusted," 16 January 2024. [Online]. Available: https://doi.org/10.25318/1810000501-eng. [Accessed January 2024].

