

APPENDIX H

Alignment Sheets



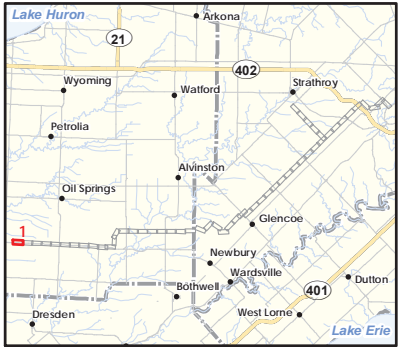
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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA				
	WETLAND WATERCOURSE					
	VEGETATION					
	WATER WELL WITHIN 50 m	Well Present				
	LINEAR FEATURES					Driveway
	ENVIRONMENTALLY SENSITIVE AREA / ANSI					
	SPECIES AT RISK (SAR) HABITAT					
<p>Construction Mitigation Notes:</p> <p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List:</p> <p>ER: Environmental Report (Stantec 2020)</p> <p>ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019)</p> <p>SCRCA: St. Clair River Conservation Authority</p> <p>UTRCA: Upper Thames Region Conservation Authority</p> <p>LTVCA: Lower Thames Valley Conservation Authority</p> <p>MNRF: Ministry of Natural Resources and Forestry</p> <p>SAR: Species at Risk</p>						
Construction Mitigation	CONSTRUCTION REQUIREMENTS		Note 7		Note 7	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)					
	PIPELINE CROSSING METHODS					
	MONITORING		Notes 4 & 5		Notes 4 & 5	
	VEGETATION RESTRICTIONS					
	PERMITTING REQUIREMENTS	Note 6				
	SEED MIX					
	POTENTIALLY CONTAMINATED SITES					
	SPECIES AT RISK (SAR) HABITAT					



Legend

- Preferred Route
- Water Well (MECP)
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area
- Waterbody



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N.
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3. Orthoimagery © 2020 Microsoft Corporation © 2020 Maxar © CNES (2020) Distribution Airbus DS. Date of imagery unknown.
4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-1	-

July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-1

Title
Environmental Alignment
Sheets - Map 1

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA						
	WETLAND WATERCOURSE	Watercourse →		Watercourse →				
	VEGETATION							
	WATER WELL WITHIN 50 m	Well Present						
	LINEAR FEATURES					← Road	← Driveway	← Driveway
	ENVIRONMENTALLY SENSITIVE AREA / ANSI							
	SPECIES AT RISK (SAR) HABITAT							
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Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7	Note 7	Note 7	Note 7	Note 7	Note 7	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8 →		Note 8 →		Note 7		Note 7
	PIPELINE CROSSING METHODS							
	MONITORING	Notes 4 & 5						
	VEGETATION RESTRICTIONS							
	PERMITTING REQUIREMENTS	Note 6						
	SEED MIX							
	POTENTIALLY CONTAMINATED SITES							
	SPECIES AT RISK (SAR) HABITAT							



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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Figure No.	Rev.
A-2	-

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Client/Project
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London Lines Project
Environmental Alignment Sheets

Figure No.
A-2

Title
Environmental Alignment
Sheets - Map 2

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA				SCRCA				SCRCA						
	WETLAND WATERCOURSE														
	VEGETATION														
	WATER WELL WITHIN 50 m				Wells Present										
	LINEAR FEATURES	Driveways					Driveways and Roads				Driveways				
	ENVIRONMENTALLY SENSITIVE AREA / ANSI														
	SPECIES AT RISK (SAR) HABITAT														
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>															
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	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)														
	PIPELINE CROSSING METHODS														
	MONITORING				Notes 4 & 5										
	VEGETATION RESTRICTIONS														
	PERMITTING REQUIREMENTS					Note 6						Note 6			
	SEED MIX														
	POTENTIALLY CONTAMINATED SITES														
	SPECIES AT RISK (SAR) HABITAT														



Legend

- Preferred Route
- Water Well (MECP)
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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Figure No.	Rev.
A-3	-

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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-3
Title
Environmental Alignment
Sheets - Map 3

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA	
	WETLAND WATERCOURSE		
	VEGETATION		
	WATER WELL WITHIN 50 m		
	LINEAR FEATURES	Driveways and Roads	Driveways
	ENVIRONMENTALLY SENSITIVE AREA / ANSI		
	SPECIES AT RISK (SAR) HABITAT		
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>			
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)		
	PIPELINE CROSSING METHODS		
	MONITORING		
	VEGETATION RESTRICTIONS	Note 3	
	PERMITTING REQUIREMENTS	Note 6	
	SEED MIX		
	POTENTIALLY CONTAMINATED SITES		
	SPECIES AT RISK (SAR) HABITAT		



Legend

- Preferred Route
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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Figure No.	Rev.
A-4	-

July 2020
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-4

Title
Environmental Alignment
Sheets - Map 4

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA				
	WETLAND WATERCOURSE					
	VEGETATION					
	WATER WELL WITHIN 50 m					Wells Present
	LINEAR FEATURES	← Road	Di driveways		Di driveways and Roads	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI					
	SPECIES AT RISK (SAR) HABITAT					
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>						
Construction Mitigation	CONSTRUCTION REQUIREMENTS	← Note 7	Note 7		Note 7	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)					
	PIPELINE CROSSING METHODS					
	MONITORING					Notes 4 & 5
	VEGETATION RESTRICTIONS					
	PERMITTING REQUIREMENTS	Note 6				
	SEED MIX					
	POTENTIALLY CONTAMINATED SITES					
	SPECIES AT RISK (SAR) HABITAT					



Legend

- Preferred Route
- Water Well (MECP)
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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Figure No.	Rev.
A-5	-

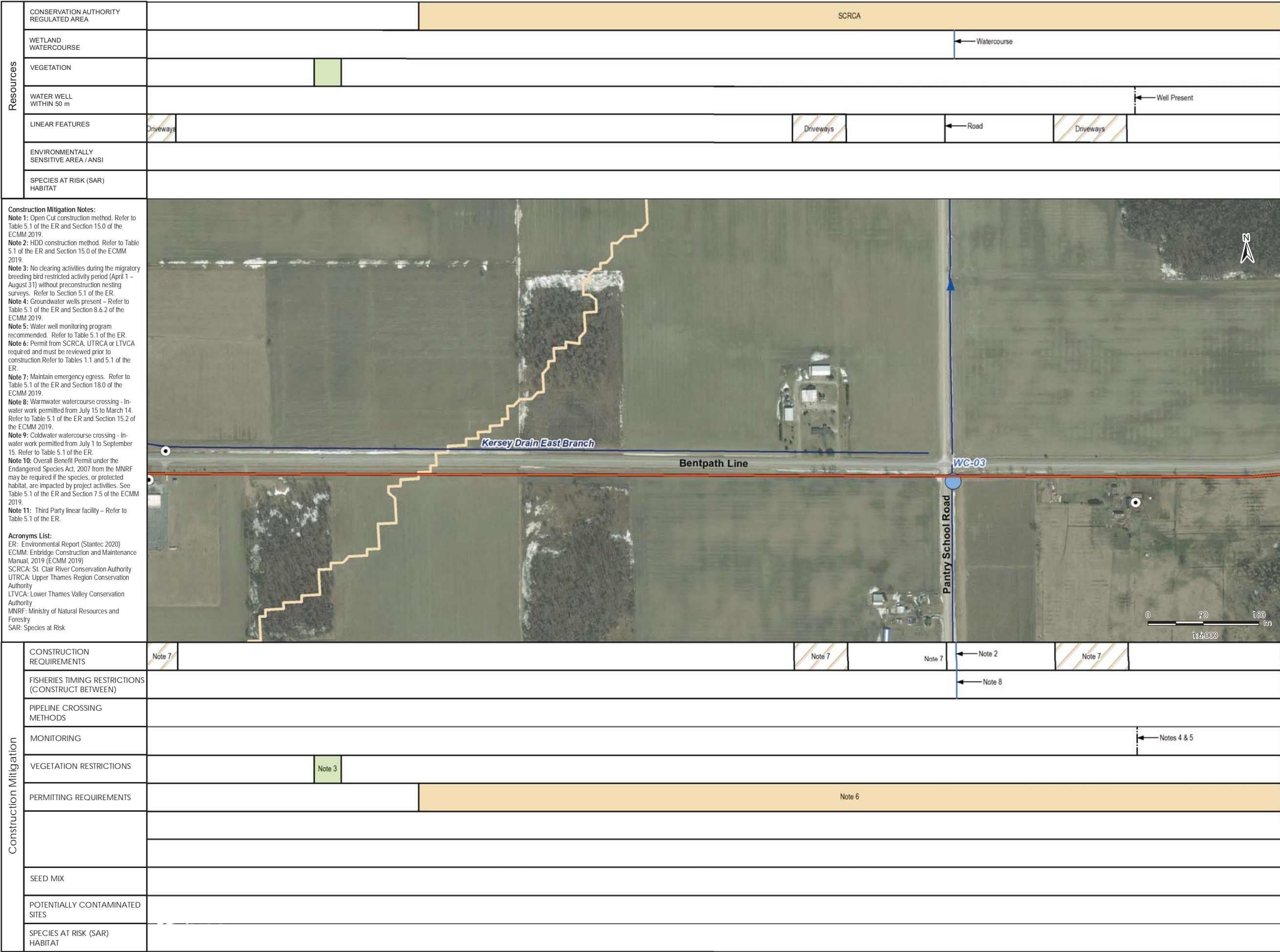
July 2020
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-5

Title
Environmental Alignment
Sheets - Map 5

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Revised: 2020-07-11 By: seafes



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Flow Direction
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- Watercourse
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Notes

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Figure No.	Rev.
A-6	-

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Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-6

Title

Environmental Alignment
Sheets - Map 6

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA		SCRCA	
	WETLAND WATERCOURSE	<div>← Watercourse</div>			
	VEGETATION				
	WATER WELL WITHIN 50 m				
	LINEAR FEATURES	<div>← Road</div>			
	ENVIRONMENTALLY SENSITIVE AREA / ANSI				
	SPECIES AT RISK (SAR) HABITAT				
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Construction Mitigation	CONSTRUCTION REQUIREMENTS			<div>Note 7</div>	<div>← Note 2</div>
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)				<div>← Note 8</div>
	PIPELINE CROSSING METHODS				
	MONITORING				
	VEGETATION RESTRICTIONS				
	PERMITTING REQUIREMENTS	Note 6		Note 6	
	SEED MIX				
	POTENTIALLY CONTAMINATED SITES				
	SPECIES AT RISK (SAR) HABITAT				



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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Figure No.	Rev.
A-7	-

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160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-7

Title
Environmental Alignment
Sheets - Map 7

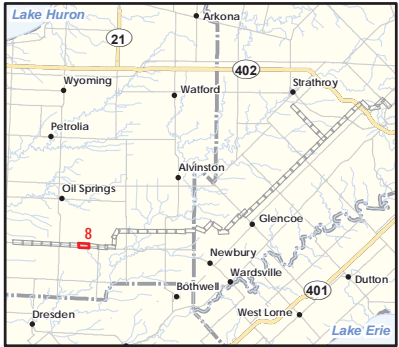
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Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA	
	WETLAND WATERCOURSE	Watercourse →	
	VEGETATION		
	WATER WELL WITHIN 50 m	← Notes 4 & 5	
	LINEAR FEATURES	Road →	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI		
	SPECIES AT RISK (SAR) HABITAT		
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	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)		Note 8 →
	PIPELINE CROSSING METHODS		
	MONITORING	Notes 4 & 5 →	
	VEGETATION RESTRICTIONS		
	PERMITTING REQUIREMENTS	Note 6	
	SEED MIX		
	POTENTIALLY CONTAMINATED SITES		
	SPECIES AT RISK (SAR) HABITAT		



Legend

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- Watercourse Crossing Location
- Water Well (MECP)
- Flow Direction
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4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-8	-

July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-8

Title

Environmental Alignment
Sheets - Map 8

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA		SCRCA		SCRCA	
	WETLAND WATERCOURSE	Watercourse →		Watercourse →			
	VEGETATION						
	WATER WELL WITHIN 50 m						
	LINEAR FEATURES	Road →		Driveway →			
	ENVIRONMENTALLY SENSITIVE AREA / ANSI						
	SPECIES AT RISK (SAR) HABITAT						
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>							
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 2 →		Note 2 →			
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8 →		Note 8 →			
	PIPELINE CROSSING METHODS						
	MONITORING						
	VEGETATION RESTRICTIONS						
	PERMITTING REQUIREMENTS	Note 6		Note 6		Note 6	
	SEED MIX						
	POTENTIALLY CONTAMINATED SITES						
	SPECIES AT RISK (SAR) HABITAT						



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-9	-

July 2020
160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

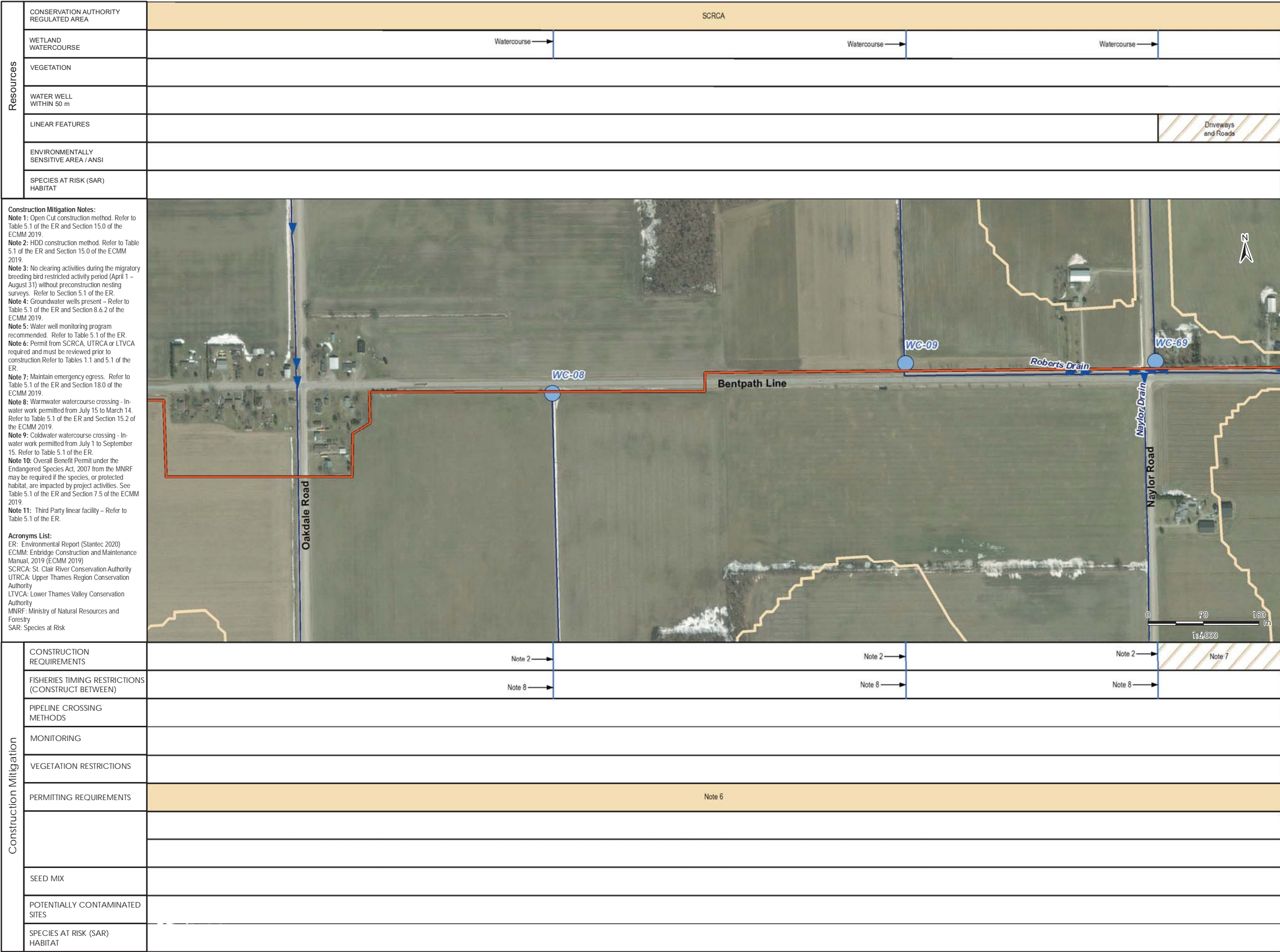
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A-9

Title

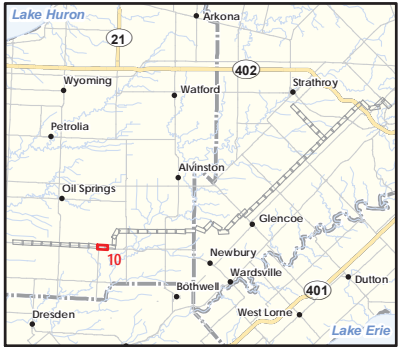
Environmental Alignment
Sheets - Map 9

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Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- ANSI, Life Science:Regional
- Regulation Area



Notes

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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-10	-

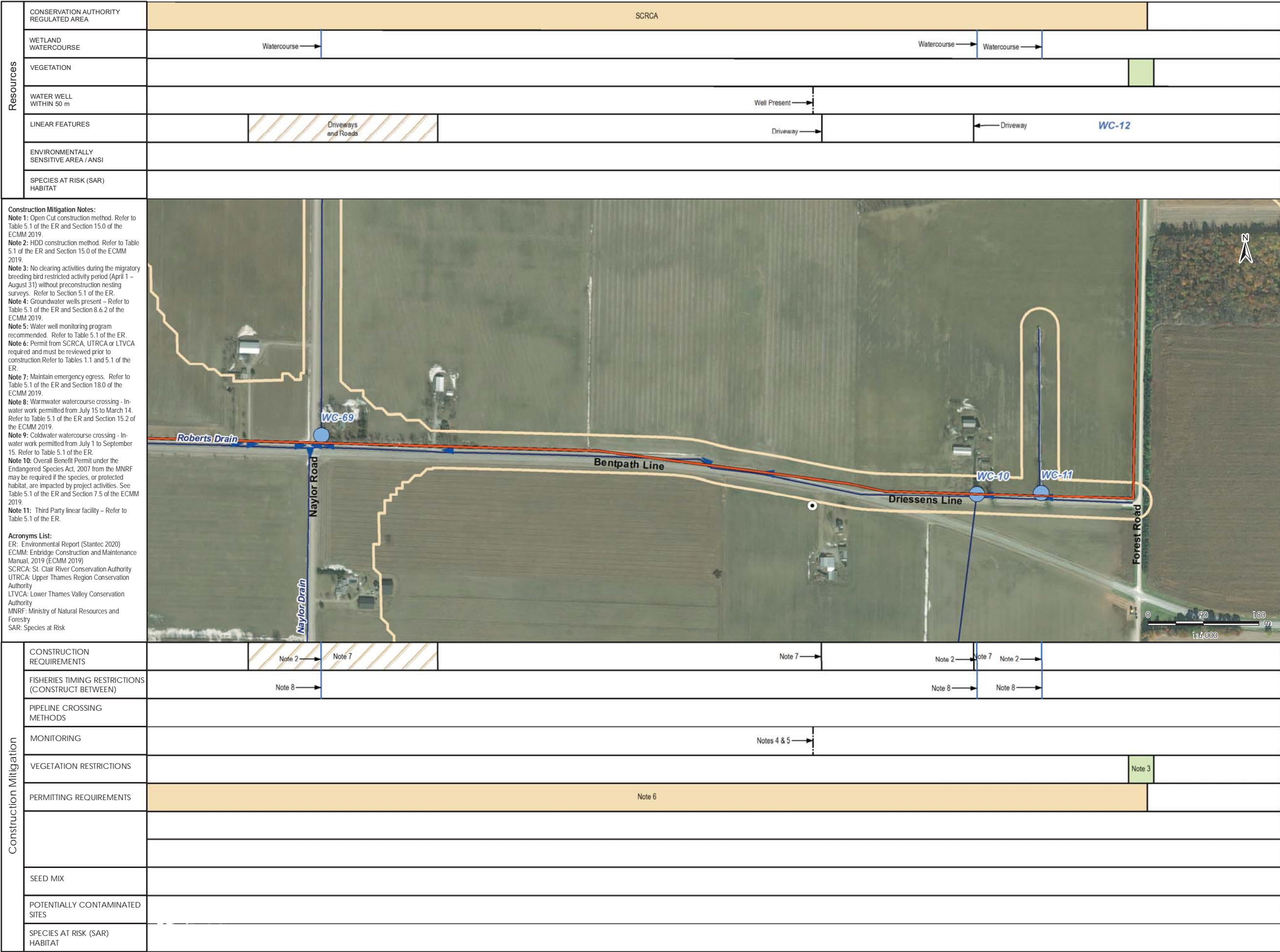
July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-10

Title
Environmental Alignment
Sheets - Map 10

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Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Intermittent Watercourse
- Flow Direction
- Constructed Drain
- Watercourse
- ANSI, Life Science/Regional
- Regulation Area



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-11

Title

Environmental Alignment
Sheets - Map 11

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA		
	WETLAND WATERCOURSE	Watercourse →		
	VEGETATION			
	WATER WELL WITHIN 50 m			
	LINEAR FEATURES	Driveway → Driveway →		
	ENVIRONMENTALLY SENSITIVE AREA / ANSI			
	SPECIES AT RISK (SAR) HABITAT			
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>				
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 2 →	Note 7 →	Note 7 →
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8 →		
	PIPELINE CROSSING METHODS			
	MONITORING			
	VEGETATION RESTRICTIONS		Note 3	Note 3
	PERMITTING REQUIREMENTS	Note 6		
	SEED MIX			
	POTENTIALLY CONTAMINATED SITES			
	SPECIES AT RISK (SAR) HABITAT			



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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6. All driveway crossings will allow for emergency services access.

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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-12

Title
Environmental Alignment
Sheets - Map 12

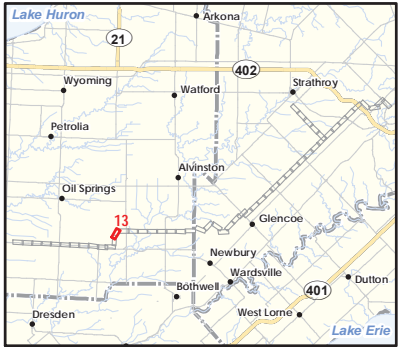
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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA		SCRCA		SCRCA		SCRCA		SCRCA	
	WETLAND WATERCOURSE	Watercourse→								
	VEGETATION									
	WATER WELL WITHIN 50 m									
	LINEAR FEATURES					Road→		Driveways and Roads		
	ENVIRONMENTALLY SENSITIVE AREA / ANSI									
	SPECIES AT RISK (SAR) HABITAT									
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>										
Construction Mitigation	CONSTRUCTION REQUIREMENTS			Note 2→		Note 7→		Note 7		
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)			Note 8→						
	PIPELINE CROSSING METHODS									
	MONITORING									
	VEGETATION RESTRICTIONS				Note 3					
	PERMITTING REQUIREMENTS		Note 6			Note 6		Note 6		Note 6
	SEED MIX									
	POTENTIALLY CONTAMINATED SITES									
	SPECIES AT RISK (SAR) HABITAT									



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.	July 2020 160951170
A-13	-	

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-13

Title
Environmental Alignment
Sheets - Map 13

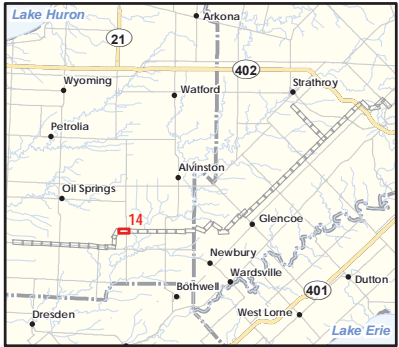
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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA		SCRCA		
	WETLAND WATERCOURSE				
	VEGETATION				
	WATER WELL WITHIN 50 m			Well Present	
	LINEAR FEATURES	Road		Road	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI				
	SPECIES AT RISK (SAR) HABITAT				
Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER. Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk					
	CONSTRUCTION REQUIREMENTS	Note 7	Note 2	Note 2	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)		Note 8		Note 8
	PIPELINE CROSSING METHODS				
	MONITORING				Notes 4 & 5
	VEGETATION RESTRICTIONS		Note 3		
	PERMITTING REQUIREMENTS		Note 6		
	SEED MIX				
POTENTIALLY CONTAMINATED SITES					
SPECIES AT RISK (SAR) HABITAT					



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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Figure No.	Rev.
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160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-14

Title
Environmental Alignment
Sheets - Map 14

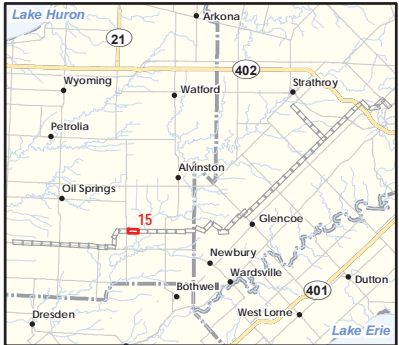
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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA		SCRCA				SCRCA	
	WETLAND WATERCOURSE			← Watercourse	← Watercourse			
	VEGETATION							
	WATER WELL WITHIN 50 m	← Well Present		Wells Present				
	LINEAR FEATURES					← Road	← Driveway	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI							
	SPECIES AT RISK (SAR) HABITAT							
Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER. Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk								
Construction Mitigation	CONSTRUCTION REQUIREMENTS			← Note 2	← Note 2	← Note 7	← Note 7	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)			← Note 8	← Note 8			
	PIPELINE CROSSING METHODS							
	MONITORING	← Notes 4 & 5		Notes 4 & 5				
	VEGETATION RESTRICTIONS							Note 3
	PERMITTING REQUIREMENTS		Note 6				Note 6	
	SEED MIX							
POTENTIALLY CONTAMINATED SITES								
SPECIES AT RISK (SAR) HABITAT								



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-15	-

July 2020
160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

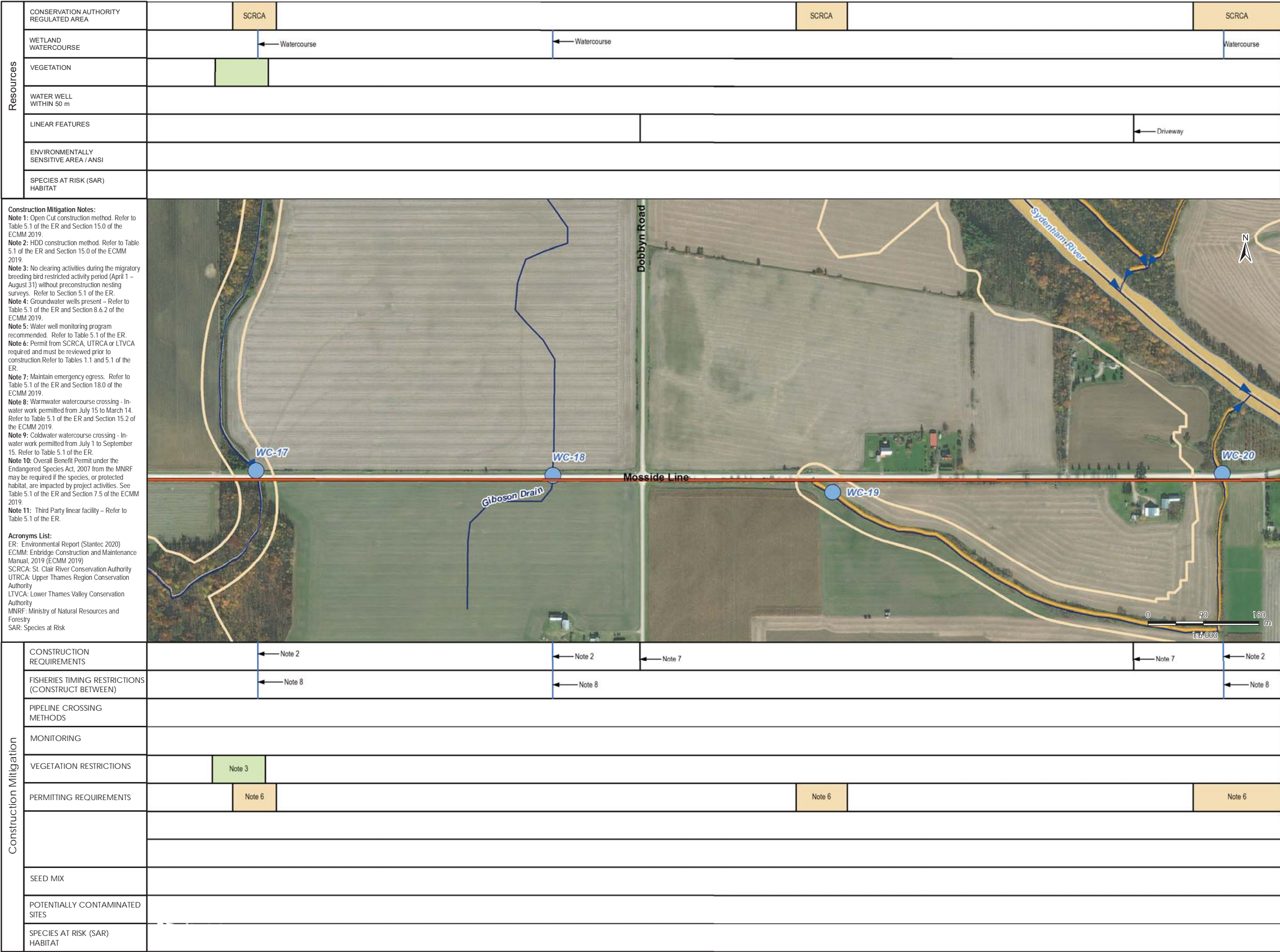
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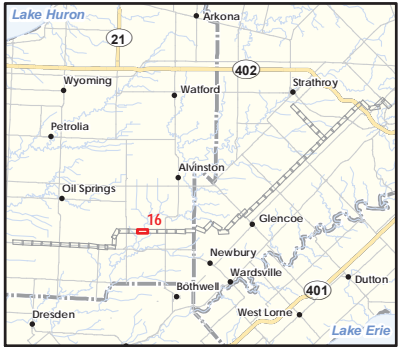
Environmental Alignment
Sheets - Map 15

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Revised: 2020-07-11 By: seafes



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Warm
- Thermal Regime, Warm
- Regulation Area
- Waterbody



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-16	-

July 2020
160951170

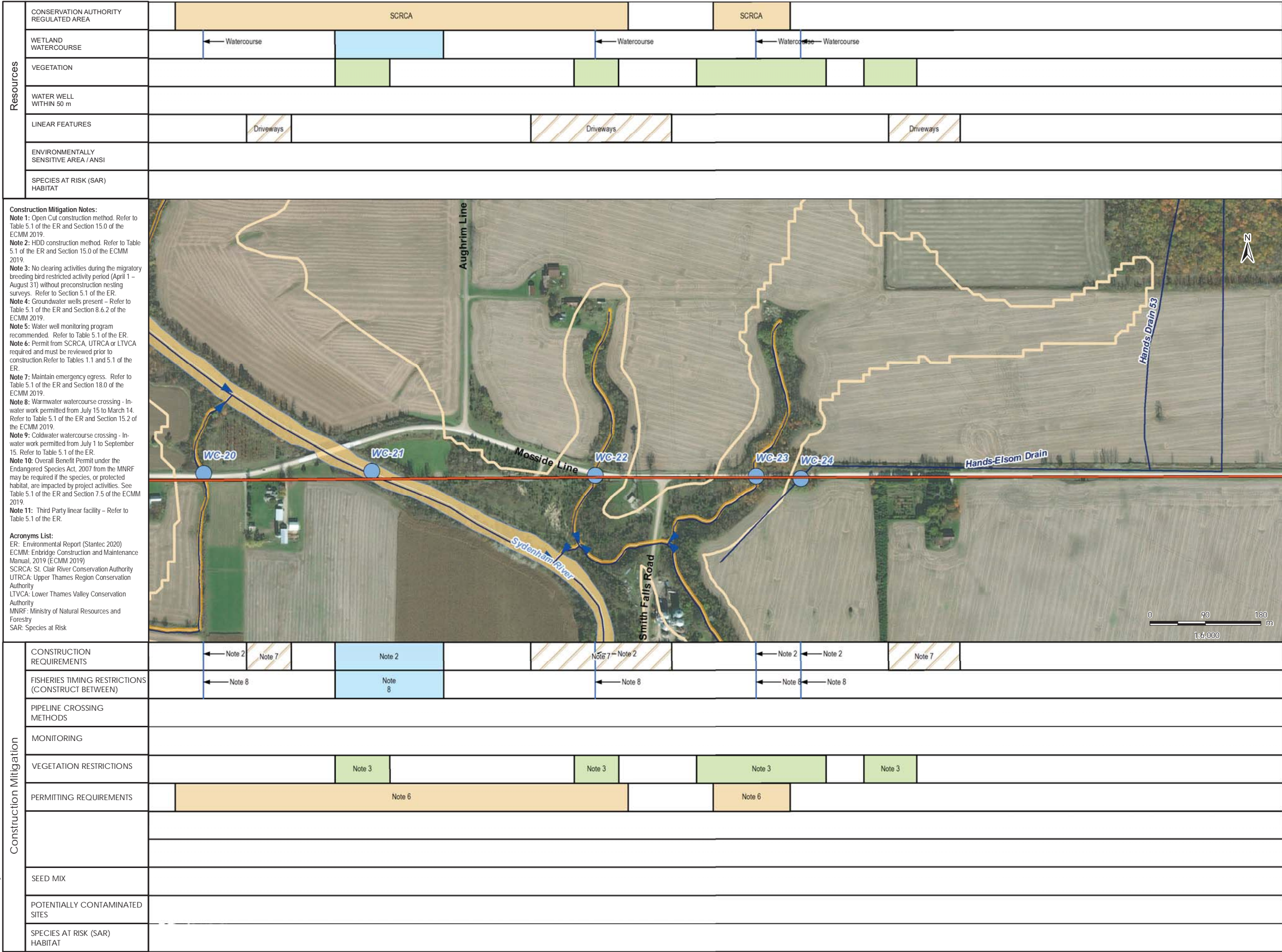
Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-16

Title

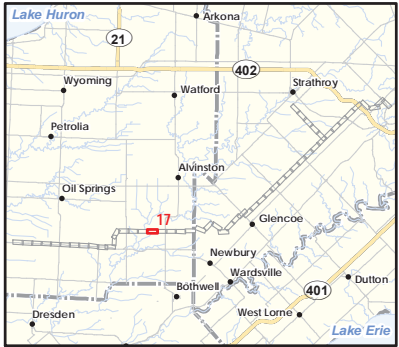
Environmental Alignment
Sheets - Map 16

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Revised: 2020-07-11 By: searles



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Warm
- Thermal Regime, Warm
- Regulation Area
- Waterbody



Notes

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Figure No.	Rev.
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-17

Title

Environmental Alignment
Sheets - Map 17

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Revised: 2020-07-17 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA		SCRCA		SCRCA		
	WETLAND WATERCOURSE		← Watercourse			← Watercourse	
	VEGETATION						
	WATER WELL WITHIN 50 m						
	LINEAR FEATURES						
	ENVIRONMENTALLY SENSITIVE AREA / ANSI						
	SPECIES AT RISK (SAR) HABITAT						
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>							
Construction Mitigation	CONSTRUCTION REQUIREMENTS		Note 7	Note 2 →		← Note 2	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)			Note 8 →		← Note 8	
	PIPELINE CROSSING METHODS						
	MONITORING						
	VEGETATION RESTRICTIONS				Note 3		
	PERMITTING REQUIREMENTS		Note 6			Note 6	
	SEED MIX						
	POTENTIALLY CONTAMINATED SITES						
	SPECIES AT RISK (SAR) HABITAT				Note 10		



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Other/Locally Significant Wetland
- Regulation Area



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N.
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4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-18	-

July 2020
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Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

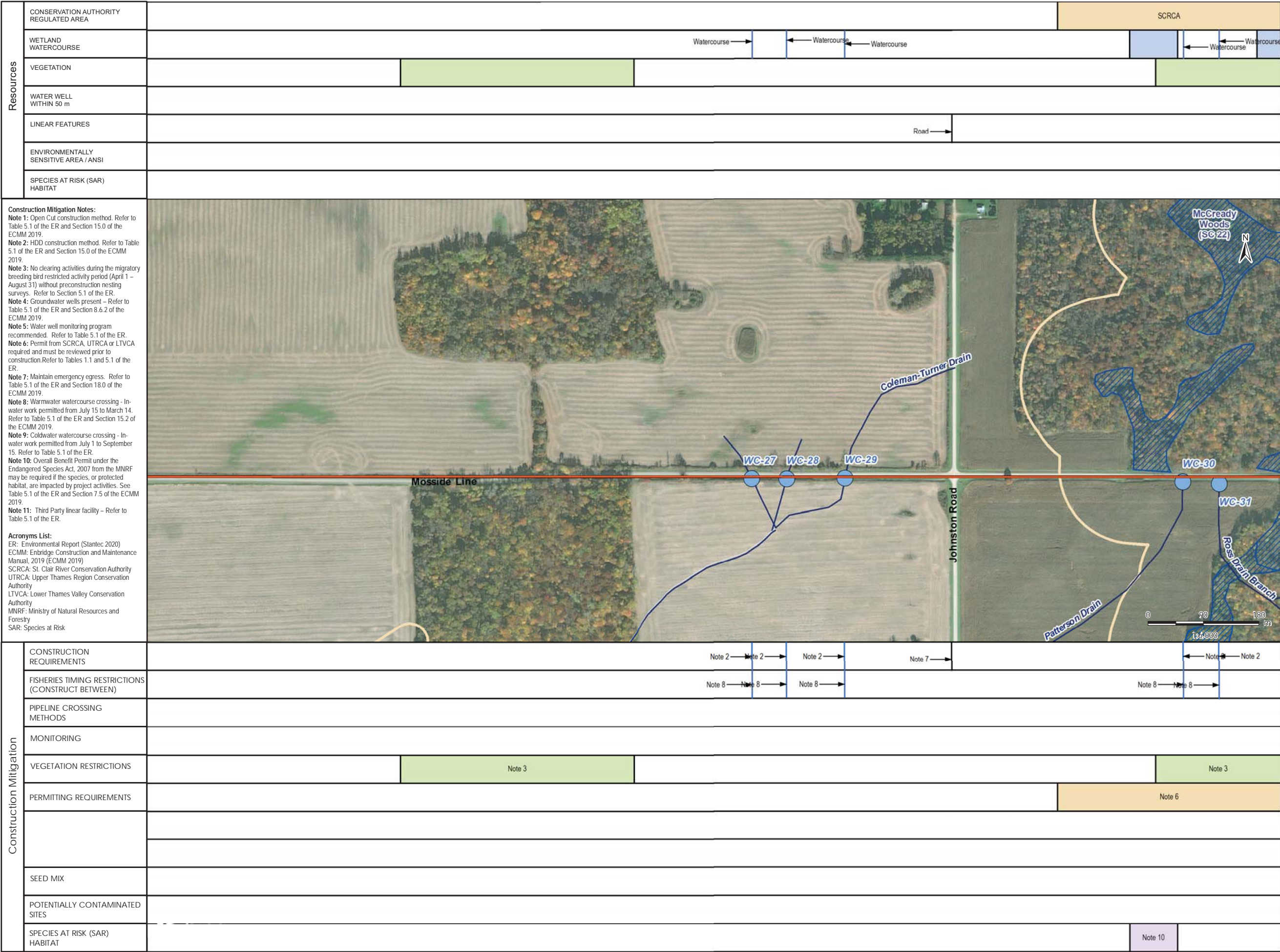
Figure No.

A-18

Title

Environmental Alignment
Sheets - Map 18

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Revised: 2020-07-11 By: seafes



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Provincially Significant Wetland
- Regulation Area



Notes

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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-19	-

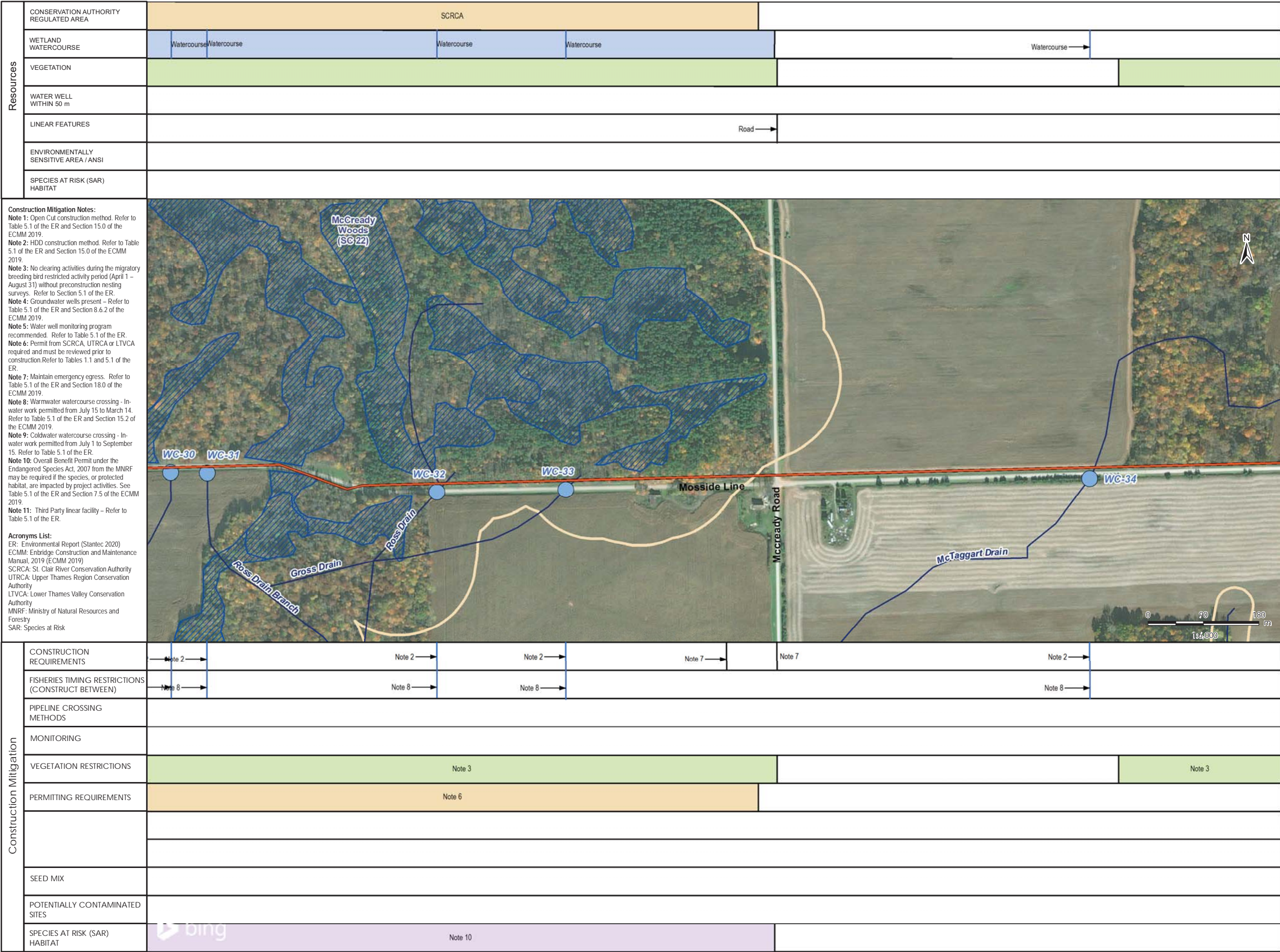
July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-19

Title
Environmental Alignment
Sheets - Map 19

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Revised: 2020-07-12 By: searles



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Provincially Significant Wetland
- Regulation Area

Notes

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3. Orthoimagery © 2020 Microsoft Corporation © 2020 Maxar © CNES (2020) Distribution Airbus DS. Date of imagery unknown.
4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-20	-

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-20

Title
Environmental Alignment Sheets - Map 20

July 2020
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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA					SCRCA			
	WETLAND WATERCOURSE	Watercourse →		Watercourse →		Wetland			
	VEGETATION								
	WATER WELL WITHIN 50 m								
	LINEAR FEATURES	← Road				← Road			
	ENVIRONMENTALLY SENSITIVE AREA / ANSI								
	SPECIES AT RISK (SAR) HABITAT								
Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER. Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk									
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 2 →		Note 7		Note 2 →		Note 7 →	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8 →				Note 8 →			
	PIPELINE CROSSING METHODS								
	MONITORING								
	VEGETATION RESTRICTIONS	Note 3		Note 3		Note 3			
	PERMITTING REQUIREMENTS					Note 6			
	SEED MIX								
	POTENTIALLY CONTAMINATED SITES								
	SPECIES AT RISK (SAR) HABITAT					Note 10			



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Provincially Significant Wetland
- Regulation Area



Notes

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4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-21	-

July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-21

Title
Environmental Alignment
Sheets - Map 21

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA		SCRCA		
	WETLAND WATERCOURSE	<div><div></div><div>Watercourse</div></div>				
	VEGETATION	<div><div></div><div></div></div>				
	WATER WELL WITHIN 50 m					
	LINEAR FEATURES	<div><div></div><div>Road</div></div>		<div><div></div><div>Driveways</div></div>	<div><div></div><div>Driveways and Roads</div></div>	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI	WC-38				
	SPECIES AT RISK (SAR) HABITAT					
<p>Construction Mitigation Notes:</p> <p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List:</p> <p>ER: Environmental Report (Stantec 2020)</p> <p>ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019)</p> <p>SCRCA: St. Clair River Conservation Authority</p> <p>UTRCA: Upper Thames Region Conservation Authority</p> <p>LTVCA: Lower Thames Valley Conservation Authority</p> <p>MNRF: Ministry of Natural Resources and Forestry</p> <p>SAR: Species at Risk</p>						
Construction Mitigation	CONSTRUCTION REQUIREMENTS	<div><div></div><div>Note 2</div></div>	<div><div></div><div>Note 7</div></div>	<div><div></div><div>Note 7</div></div>	<div><div></div><div>Note 7</div></div>	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	<div><div></div><div>Note 8</div></div>				
	PIPELINE CROSSING METHODS					
	MONITORING					
	VEGETATION RESTRICTIONS	<div><div></div><div>Note 3</div></div>				
	PERMITTING REQUIREMENTS	Note 6			Note 6	
	SEED MIX					
POTENTIALLY CONTAMINATED SITES						
SPECIES AT RISK (SAR) HABITAT						



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
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July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-22









Title

Environmental Alignment
Sheets - Map 22

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Revised: 2020-07-11 By: seafes



Legend

-  Preferred Route
-  Watercourse Crossing Location
-  Flow Direction
-  Constructed Drain
-  Watercourse
-  Provincially Significant Wetland
-  Regulation Area
-  Waterbody



Notes

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Figure No.	Rev.
A-23	-

July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-23

Title

Environmental Alignment
Sheets - Map 23

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA		SCRCA	
	WETLAND WATERCOURSE	Watercourse →		Watercourse →	
	VEGETATION				
	WATER WELL WITHIN 50 m				
	LINEAR FEATURES	Driveway →	Driveways	Driveway →	Road →
	ENVIRONMENTALLY SENSITIVE AREA / ANSI				
	SPECIES AT RISK (SAR) HABITAT				
<p>Construction Mitigation Notes:</p> <p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>					
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 2 Note 7	Note 7 Note 2	Note 7	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8	Note 8		
	PIPELINE CROSSING METHODS				
	MONITORING				
	VEGETATION RESTRICTIONS				
	PERMITTING REQUIREMENTS	Note 6	Note 6		
	SEED MIX				
	POTENTIALLY CONTAMINATED SITES				
	SPECIES AT RISK (SAR) HABITAT				



Legend

- Preferred Route
- Watercourse Crossing Location
- Flow Direction
- Constructed Drain
- Watercourse
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-24

Title
Environmental Alignment
Sheets - Map 24

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA		SCRCA			SCRCA			SCRCA	
	WETLAND WATERCOURSE	Watercourse →									
	VEGETATION										
	WATER WELL WITHIN 50 m	Well Present									
	LINEAR FEATURES	Railway → Driveways and Roads									
	ENVIRONMENTALLY SENSITIVE AREA / ANSI	WC-44									
	SPECIES AT RISK (SAR) HABITAT										
Construction Mitigation Notes:											
<p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>											
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 2 →		Note 11 →			Note 7		Note 2 →		
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8 →							Note 8 →		
	PIPELINE CROSSING METHODS										
	MONITORING	Notes 4 & 5									
	VEGETATION RESTRICTIONS										
	PERMITTING REQUIREMENTS	Note 6		Note 6				Note 6		Note 6	
	SEED MIX										
	POTENTIALLY CONTAMINATED SITES										
	SPECIES AT RISK (SAR) HABITAT										



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
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July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-25

Title
Environmental Alignment
Sheets - Map 25

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA		SCRCA				
	WETLAND WATERCOURSE		← Note 2	Watercourse			
	VEGETATION						
	WATER WELL WITHIN 50 m						Well Present
	LINEAR FEATURES	← Driveways	Driveways	← Driveways		← Road	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI						
	SPECIES AT RISK (SAR) HABITAT						
Construction Mitigation	<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>						
	CONSTRUCTION REQUIREMENTS	← Note 7	← Note 2	Note 7	← Note 7		← Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	← Note 8					
	PIPELINE CROSSING METHODS						
	MONITORING	Notes 4 & 5					
	VEGETATION RESTRICTIONS						Note 3
	PERMITTING REQUIREMENTS		Note 6				
	SEED MIX						
	POTENTIALLY CONTAMINATED SITES						
SPECIES AT RISK (SAR) HABITAT							



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Regulation Area
- Waterbody



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
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Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.

A-26

Title

Environmental Alignment
Sheets - Map 26

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA				SCRCA			
	WETLAND WATERCOURSE	Watrcourse →						
	VEGETATION							
	WATER WELL WITHIN 50 m							
	LINEAR FEATURES		Driveways		Driveways			
	ENVIRONMENTALLY SENSITIVE AREA / ANSI							
	SPECIES AT RISK (SAR) HABITAT							
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>								
Construction Mitigation	CONSTRUCTION REQUIREMENTS		Note 7		Note 2 →		Note 7	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8 →						
	PIPELINE CROSSING METHODS							
	MONITORING							
	VEGETATION RESTRICTIONS		Note 3					
	PERMITTING REQUIREMENTS						Note 6	
	SEED MIX							
	POTENTIALLY CONTAMINATED SITES							
SPECIES AT RISK (SAR) HABITAT								



Legend

- Preferred Route
- Watercourse Crossing Location
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Regulation Area
- Waterbody



Notes

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3. Orthoimagery © 2020 Microsoft Corporation © 2020 Maxar © CNES (2020) Distribution Airbus DS. Date of imagery unknown.
4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-27	-

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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-27

Title
Environmental Alignment
Sheets - Map 27

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA			
	WETLAND WATERCOURSE			
	VEGETATION			
	WATER WELL WITHIN 50 m			
	LINEAR FEATURES	<div><div>Driveways</div></div>		<div>← Road</div>
	ENVIRONMENTALLY SENSITIVE AREA / ANSI			
	SPECIES AT RISK (SAR) HABITAT			
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>				
Construction Mitigation	CONSTRUCTION REQUIREMENTS	<div><div>Note 7</div></div>		<div>← Note 7</div>
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)			
	PIPELINE CROSSING METHODS			
	MONITORING			
	VEGETATION RESTRICTIONS			
	PERMITTING REQUIREMENTS			
	SEED MIX			
	POTENTIALLY CONTAMINATED SITES			
	SPECIES AT RISK (SAR) HABITAT			



Legend

- Preferred Route
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area
- Waterbody



Notes

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3. Orthoimagery © 2020 Microsoft Corporation © 2020 Maxar © CNES (2020) Distribution Airbus DS. Date of imagery unknown.
4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-28	-

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Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.

A-28

Title

Environmental Alignment
Sheets - Map 28

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA				SCRCA		
	WETLAND WATERCOURSE							
	VEGETATION							
	WATER WELL WITHIN 50 m	Well Present						
	LINEAR FEATURES	Road	Driveway		Driveway	Driveway		
	ENVIRONMENTALLY SENSITIVE AREA / ANSI							
	SPECIES AT RISK (SAR) HABITAT							
Construction Mitigation	Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER. Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk							
	CONSTRUCTION REQUIREMENTS	Note 7	Note 7		Note 7	Note 7		
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)							
	PIPELINE CROSSING METHODS							
	MONITORING	Notes 4 & 5						
	VEGETATION RESTRICTIONS							
	PERMITTING REQUIREMENTS	Note 6				Note 6		
	SEED MIX							
	POTENTIALLY CONTAMINATED SITES							
SPECIES AT RISK (SAR) HABITAT								



Legend

- Preferred Route
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area
- Waterbody



Notes

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4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
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Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.

A-29

Title

Environmental Alignment
Sheets - Map 29

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA	
	WETLAND WATERCOURSE		
	VEGETATION		
	WATER WELL WITHIN 50 m		
	LINEAR FEATURES	Road →	Driveways
	ENVIRONMENTALLY SENSITIVE AREA / ANSI		
	SPECIES AT RISK (SAR) HABITAT		
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>			
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7 →	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)		
	PIPELINE CROSSING METHODS		
	MONITORING		
	VEGETATION RESTRICTIONS		Note 3
	PERMITTING REQUIREMENTS	Note 6	
	SEED MIX		
	POTENTIALLY CONTAMINATED SITES		
	SPECIES AT RISK (SAR) HABITAT		



Legend

- Preferred Route
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area
- Waterbody



Notes

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3. Orthoimagery © 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS. Date of imagery unknown.
4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-30	-

July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-30

Title
Environmental Alignment
Sheets - Map 30

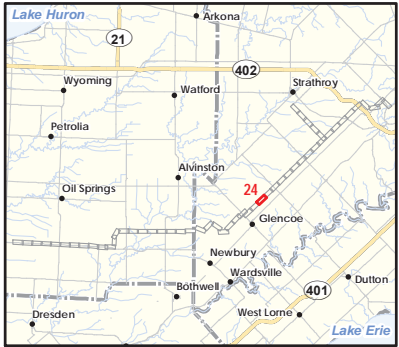
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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA		LTVCA			LTVCA	
	WETLAND WATERCOURSE	Watercourse →		Watercourse →		Watercourse →	
	VEGETATION						
	WATER WELL WITHIN 50 m						
	LINEAR FEATURES						
	ENVIRONMENTALLY SENSITIVE AREA / ANSI						
	SPECIES AT RISK (SAR) HABITAT						
Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER. Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk							
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 2 →		Note 2 →		Note 7 →	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8 →		Note 8 →			
	PIPELINE CROSSING METHODS						
	MONITORING						
	VEGETATION RESTRICTIONS	Note 3				Note 3	
	PERMITTING REQUIREMENTS			Note 6		Note 6	
	SEED MIX						
	POTENTIALLY CONTAMINATED SITES						
	SPECIES AT RISK (SAR) HABITAT						



Legend

- Preferred Route
- Watercourse Crossing Location
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area



Notes

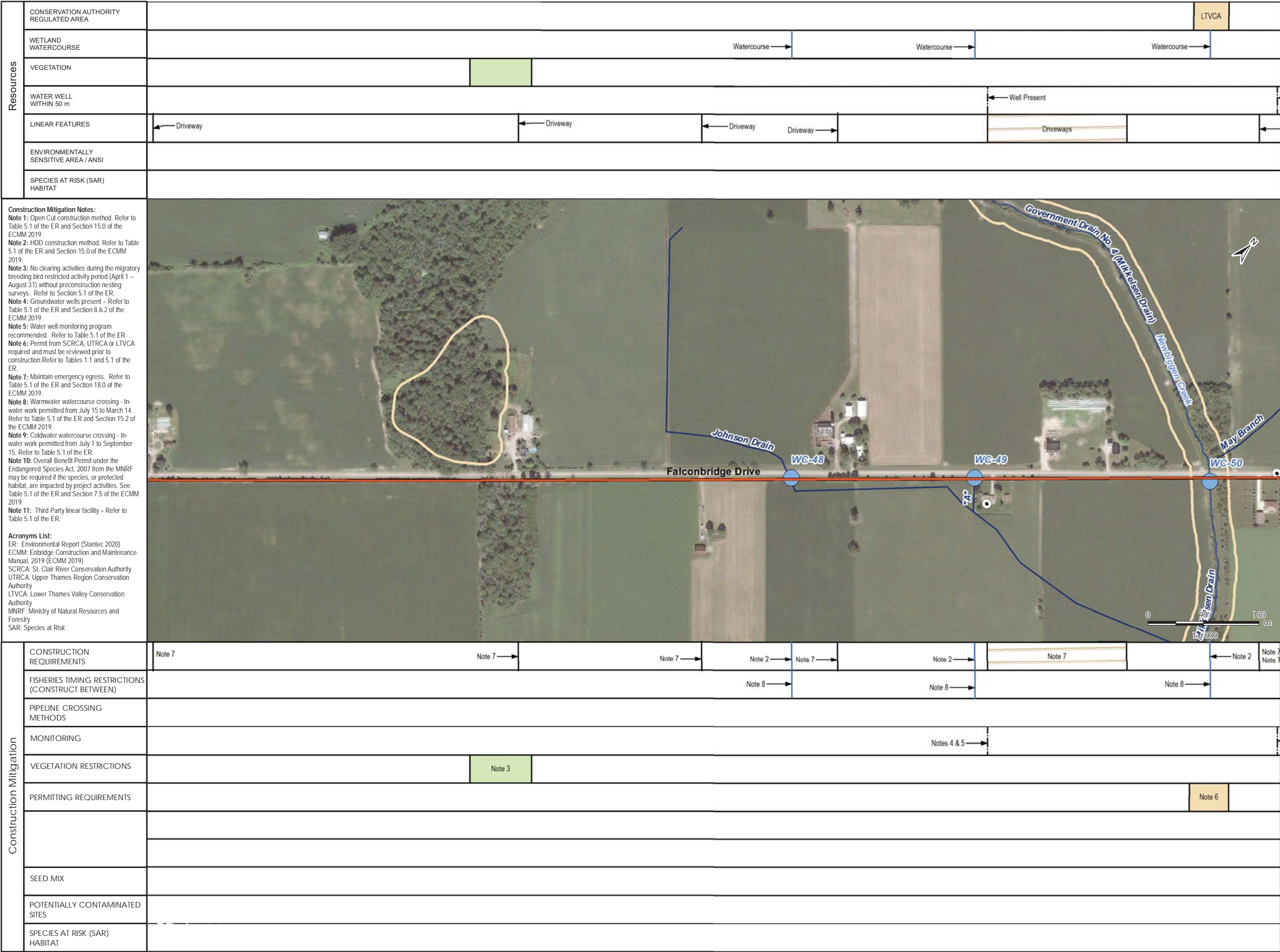
1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2020.
3. Orthoimagery © 2020 Microsoft Corporation © 2020 Maxar © CNES (2020) Distribution Airbus DS. Date of imagery unknown.
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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.	
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-31
Title
Environmental Alignment
Sheets - Map 31

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Revised: 2020-07-11 By: searles



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Regulation Area

Notes

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Figure No.	Rev.
A-32	-

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160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets









Figure No.
A-32

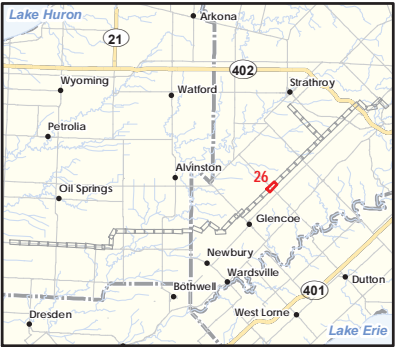
Title
**Environmental Alignment
Sheets - Map 32**

Resources	CONSERVATION AUTHORITY REGULATED AREA	LTVCA		SCRCA	
	WETLAND WATERCOURSE	Watercourse		Watercourse	Watercourse
	VEGETATION				
	WATER WELL WITHIN 50 m	Well Present			
	LINEAR FEATURES	Driveway		Road	Driveway
	ENVIRONMENTALLY SENSITIVE AREA / ANSI				
	SPECIES AT RISK (SAR) HABITAT				
<p>Construction Mitigation Notes:</p> <p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>					
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 2	Note 7	Note 2	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 8		Note 8	Note 8
	PIPELINE CROSSING METHODS				
	MONITORING	Notes 4 & 5			
	VEGETATION RESTRICTIONS				
	PERMITTING REQUIREMENTS	Note 6	Note 6		
	SEED MIX				
	POTENTIALLY CONTAMINATED SITES				
SPECIES AT RISK (SAR) HABITAT					



Legend

-  Preferred Route
-  Watercourse Crossing Location
-  Water Well (MECP)
- Railway - Operational
-  Flow Direction
- Constructed Drain
-  Watercourse
-  Thermal Regime, Cold
-  Regulation Area
-  Waterbody



Notes

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4. Distribution Airbus DS. Date of imagery unknown.
5. The imagery and the derived data have been positioned based on published UTM coordinates © Queens's Printer for Ontario, 2020.
6. Conservation Authority data provided under license from St Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
7. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-33	-

July 2020
160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.

A-33

Title

Environmental Alignment Sheets - Map 33

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA				SCRCA	
	WETLAND WATERCOURSE						
	VEGETATION						
	WATER WELL WITHIN 50 m						
	LINEAR FEATURES	Driveways	Driveway	Driveway	Hydro	Road	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI						
	SPECIES AT RISK (SAR) HABITAT						
Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER. Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk							
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7		Note 7	Note 7	Note 11	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)						
	PIPELINE CROSSING METHODS						
	MONITORING						
	VEGETATION RESTRICTIONS					Note 3	
	PERMITTING REQUIREMENTS	Note 6					Note 6
	SEED MIX						
	POTENTIALLY CONTAMINATED SITES						
	SPECIES AT RISK (SAR) HABITAT						



Legend

- Preferred Route
- Hydro Line
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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- MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
- Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-34	-

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160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-34

Title
Environmental Alignment
Sheets - Map 34

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA	SCRCA	SCRCA
	WETLAND WATERCOURSE			Wetland
	VEGETATION			
	WATER WELL WITHIN 50 m		Well Present	Well Present
	LINEAR FEATURES		Driveways	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI			
	SPECIES AT RISK (SAR) HABITAT			
<div>Construction Mitigation Notes:</div> <div>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</div> <div>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</div> <div>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</div> <div>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</div> <div>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</div> <div>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</div> <div>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</div> <div>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</div> <div>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</div> <div>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</div> <div>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</div> <div>Acronyms List:</div> <div>ER: Environmental Report (Stantec 2020)</div> <div>ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019)</div> <div>SCRCA: St. Clair River Conservation Authority</div> <div>UTRCA: Upper Thames Region Conservation Authority</div> <div>LTVCA: Lower Thames Valley Conservation Authority</div> <div>MNRF: Ministry of Natural Resources and Forestry</div> <div>SAR: Species at Risk</div>				
Construction Mitigation	CONSTRUCTION REQUIREMENTS		Note 2	Note 7
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)		Note 9	
	PIPELINE CROSSING METHODS			
	MONITORING		Notes 4 & 5	Notes 4 & 5
	VEGETATION RESTRICTIONS			Note 3
	PERMITTING REQUIREMENTS	Note 6	Note 6	Note 6
	SEED MIX			
	POTENTIALLY CONTAMINATED SITES			
Construction Mitigation	SPECIES AT RISK (SAR) HABITAT			Note 10



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Hydro Line
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area



Notes

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3. Orthoimagery © 2020 Microsoft Corporation © 2020 Maxar © CNES (2020) Distribution Airbus DS. Date of imagery unknown.
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Figure No.	Rev.
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-35

Title

Environmental Alignment
Sheets - Map 35

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Revised: 2020-07-11 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA		SCRCA			
	WETLAND WATERCOURSE						
	VEGETATION						
	WATER WELL WITHIN 50 m						
	LINEAR FEATURES			Driveways			
	ENVIRONMENTALLY SENSITIVE AREA / ANSI						
	SPECIES AT RISK (SAR) HABITAT						
Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER. Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk							
	CONSTRUCTION REQUIREMENTS	Note 2 →		Note 2 →	Note 7 →	Note 7 →	Note 2 →
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 9 →		Note 9 →			Note 8 →
	PIPELINE CROSSING METHODS						
	MONITORING			Notes 4 & 5 →		Notes 4 & 5 →	
	VEGETATION RESTRICTIONS			Note 3		Note 3	
	PERMITTING REQUIREMENTS	Note 6				Note 6	
	SEED MIX						
POTENTIALLY CONTAMINATED SITES							
SPECIES AT RISK (SAR) HABITAT							



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Hydro Line
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area



Notes

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Figure No.	Rev.
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-36

Title

Environmental Alignment
Sheets - Map 36

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Revised: 2020-07-12 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA	SCRCA											
	WETLAND WATERCOURSE	<div>← Watercourse</div> <div>← Watercourse</div> <div>← Watercourse</div>											
	VEGETATION												
	WATER WELL WITHIN 50 m												
	LINEAR FEATURES		<div>Driveways</div>		<div>Driveways</div>	<div>Driveway</div>		<div>Driveway</div>		<div>Road</div>		<div>Hydro Line</div>	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI												
	SPECIES AT RISK (SAR) HABITAT												
Construction Mitigation	<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>												
	CONSTRUCTION REQUIREMENTS		<div>Note 7</div>		<div>Note 7</div>	<div>Note 7</div>	<div>Note 2</div>		<div>Note 7</div>	<div>Note 2</div>	<div>Note 7</div>	<div>Note 2</div>	<div>Note 11</div>
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)				<div>Note 9</div>			<div>Note 9</div>		<div>Note 9</div>			
	PIPELINE CROSSING METHODS												
	MONITORING												
	VEGETATION RESTRICTIONS			<div>Note 3</div>									<div>Note 3</div>
	PERMITTING REQUIREMENTS									<div>Note 6</div>			
	SEED MIX												
POTENTIALLY CONTAMINATED SITES													
SPECIES AT RISK (SAR) HABITAT													



Legend

- Preferred Route
- Watercourse Crossing Location
- Hydro Line
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area



Notes

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Figure No.	Rev.
A-37	-

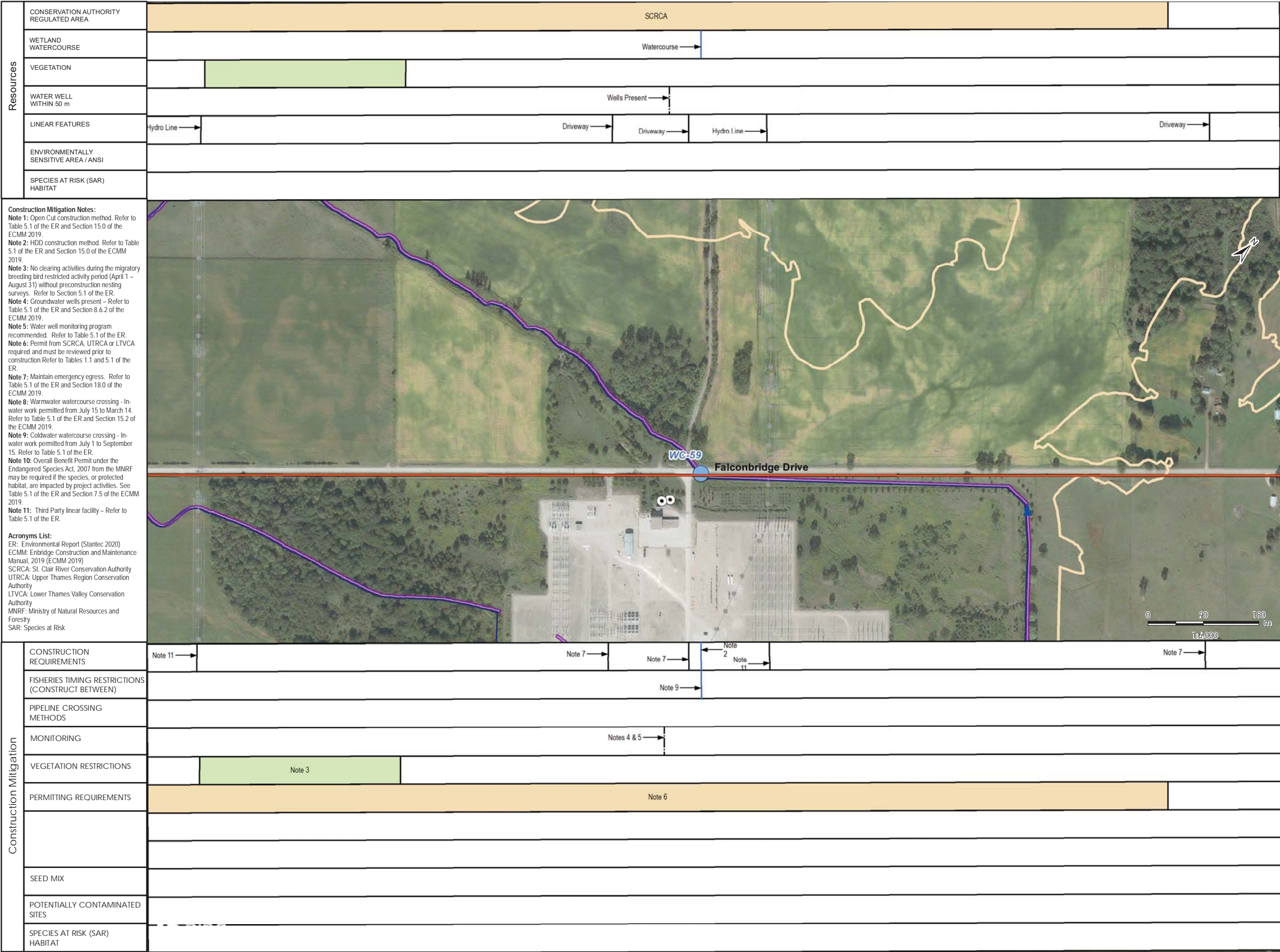
July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-37

Title
Environmental Alignment
Sheets - Map 37

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Revised: 2020-07-12 By: searles



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Hydro Line
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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Figure No.	Rev.
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July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-38

Title
Environmental Alignment
Sheets - Map 38

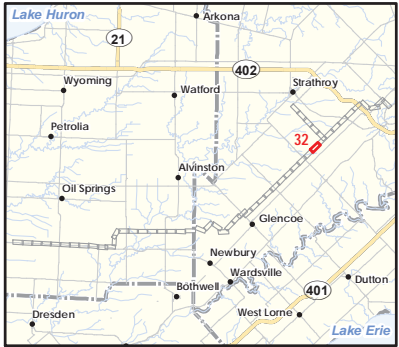
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Revised: 2020-07-12 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA						SCRCA				
	WETLAND WATERCOURSE						Wetland				
	VEGETATION										
	WATER WELL WITHIN 50 m										
	LINEAR FEATURES	← Driveway		Road →	← Driveway		Driveway →	← Driveway		Driveway →	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI										
	SPECIES AT RISK (SAR) HABITAT										
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>											
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7 →		Note 7 →		Note 7 →		Note 7 →		Note 7 →	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)										
	PIPELINE CROSSING METHODS										
	MONITORING										
	VEGETATION RESTRICTIONS							Note 3			
	PERMITTING REQUIREMENTS						Note 6				
							Note 10				



Legend

- Preferred Route
- Intermittent Watercourse
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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Figure No.	Rev.
A-39	-

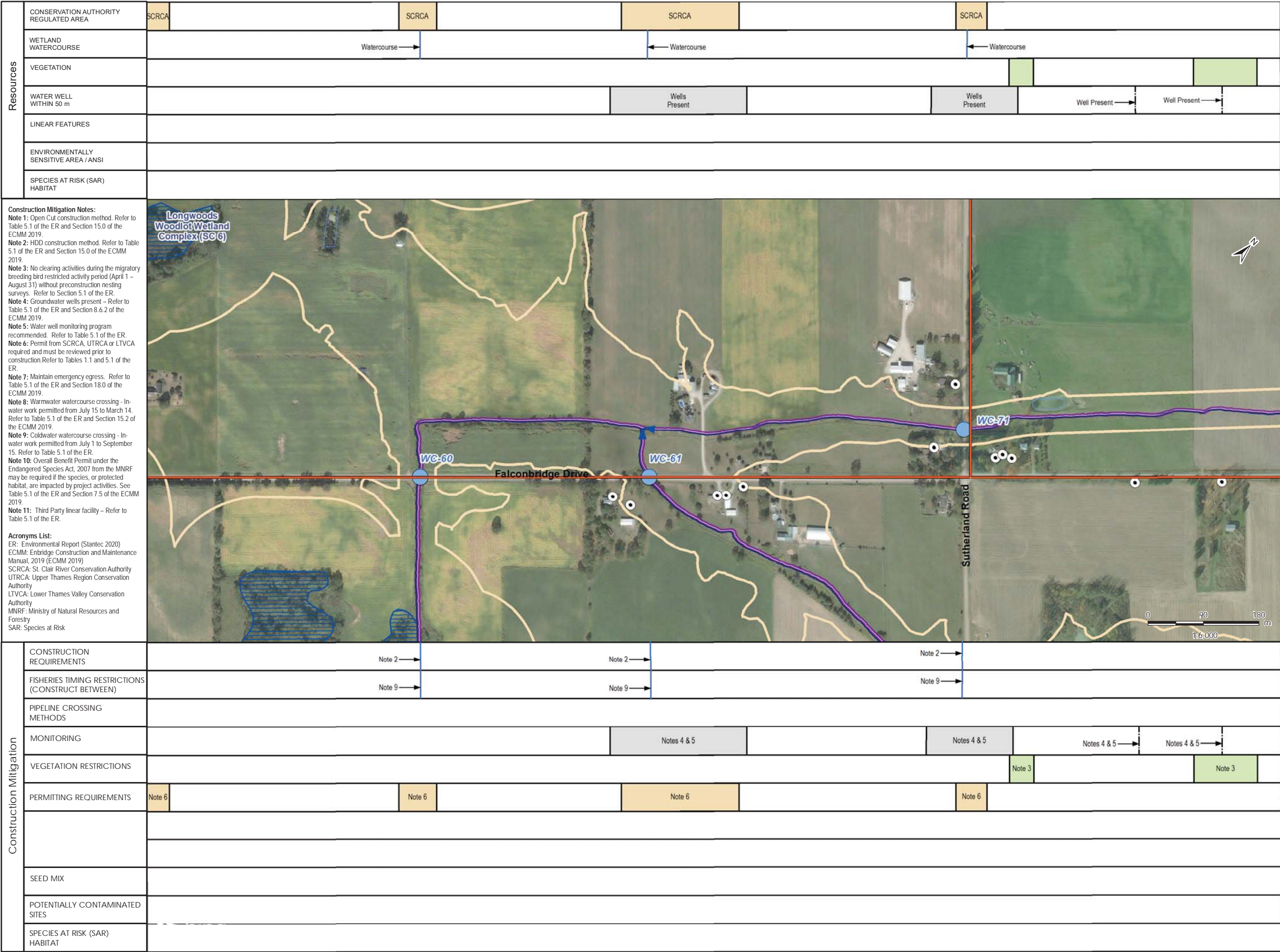
July 2020
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-39

Title
Environmental Alignment
Sheets - Map 39

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Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody

Notes

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Figure No.	Rev.
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-40

Title
Environmental Alignment Sheets - Map 40

July 2020
160951170

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA						SCRCA
	WETLAND WATERCOURSE						Watercourse →
	VEGETATION						
	WATER WELL WITHIN 50 m	Well Present →					← Well Present
	LINEAR FEATURES	Road →	Driveway →	Driveway →		Road →	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI						
	SPECIES AT RISK (SAR) HABITAT						
Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER. Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk							
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7 →		Note 7 →		Note 7 →	Note 2 →
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)						Note 2 →
	PIPELINE CROSSING METHODS						
	MONITORING	Notes 4 & 5 →					← Notes 4 & 5
	VEGETATION RESTRICTIONS	Note 3		Note 3		Note 3	Note 3
	PERMITTING REQUIREMENTS						Note 6
	SEED MIX						
	POTENTIALLY CONTAMINATED SITES						
	SPECIES AT RISK (SAR) HABITAT						



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

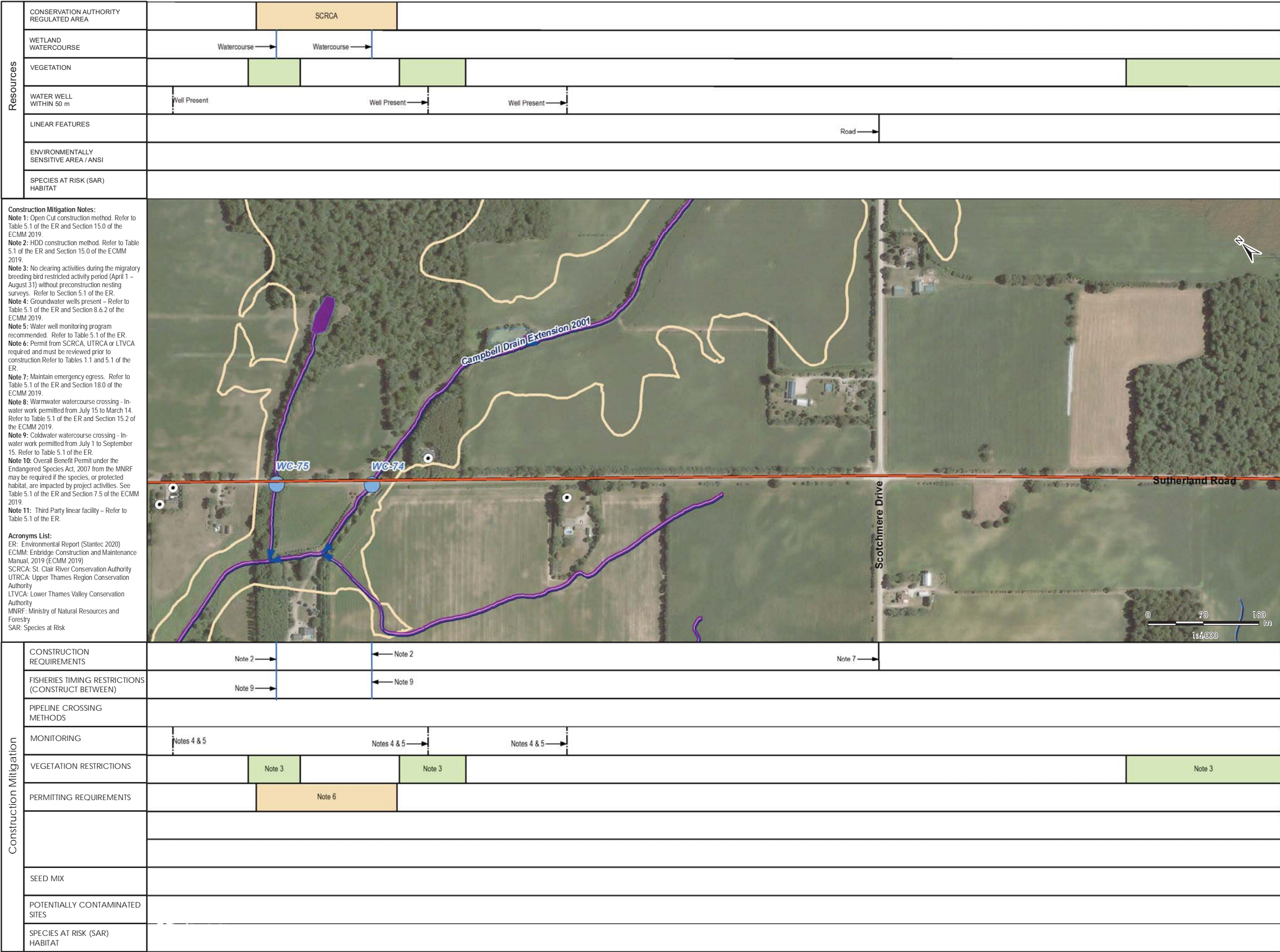
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-41
Title
Environmental Alignment
Sheets - Map 41

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Revised: 2020-07-11 By: searles



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Intermittent Watercourse
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Thermal Regime, Cold
- Regulation Area
- Waterbody



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-42

Title
Environmental Alignment
Sheets - Map 42

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA											SCRCA									
	WETLAND WATERCOURSE															Watercourse	→				
	VEGETATION																				
	WATER WELL WITHIN 50 m															Well Present	→				
	LINEAR FEATURES																				
	ENVIRONMENTALLY SENSITIVE AREA / ANSI																				
	SPECIES AT RISK (SAR) HABITAT																				
Construction Mitigation Notes:																					
Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.																					
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Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.																					
Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.																					
Acronyms List:																					
ER: Environmental Report (Stantec 2020)																					
ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019)																					
SCRCA: St. Clair River Conservation Authority																					
UTRCA: Upper Thames Region Conservation Authority																					
LTVCA: Lower Thames Valley Conservation Authority																					
MNRF: Ministry of Natural Resources and Forestry																					
SAR: Species at Risk																					
Construction Mitigation	CONSTRUCTION REQUIREMENTS																				
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)																				
	PIPELINE CROSSING METHODS																				
	MONITORING																				
	VEGETATION RESTRICTIONS																				
	PERMITTING REQUIREMENTS																				
	SEED MIX																				
	POTENTIALLY CONTAMINATED SITES																				
	SPECIES AT RISK (SAR) HABITAT																				



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Intermittent Watercourse
- Hydro Line
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Regulation Area



Notes

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- Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-43	-

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160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.

A-43

Title

Environmental Alignment
Sheets - Map 43

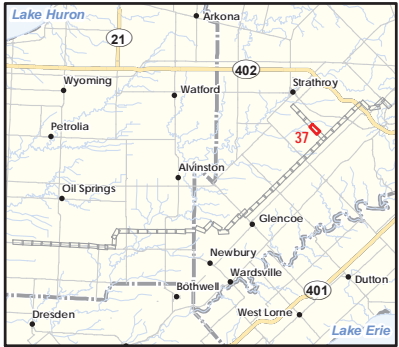
\\cd1215-001\work_group\071609\Active\160951170\planning\03_data\gis\cad\gis\mxd\rap\report_figures\alignment_sheets\160951170_EA_EnviroAlignmentSheet\Mapbook.mxd
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Resources	CONSERVATION AUTHORITY REGULATED AREA				SCRCA	
	WETLAND WATERCOURSE	Watercourse →				
	VEGETATION					
	WATER WELL WITHIN 50 m					
	LINEAR FEATURES	Road →	Hydro Line →		← Hydro Line	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI					
	SPECIES AT RISK (SAR) HABITAT					
<p>Construction Mitigation Notes: Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019. Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER. Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019. Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER. Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER. Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019. Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019. Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER. Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019. Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>						
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7 →	Note 11 →	← Note 11	Note 2 →	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)					Note 9 →
	PIPELINE CROSSING METHODS					
	MONITORING					
	VEGETATION RESTRICTIONS			Note 3		
	PERMITTING REQUIREMENTS				Note 6	
	SEED MIX					
POTENTIALLY CONTAMINATED SITES						
SPECIES AT RISK (SAR) HABITAT						



Legend

- Preferred Route
- Watercourse Crossing Location
- Hydro Line
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Regulation Area
- Waterbody



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-44	-

July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-44

Title
Environmental Alignment
Sheets - Map 44

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA		SCRCA				SCRCA				
	WETLAND WATERCOURSE								Watercourse		
	VEGETATION										
	WATER WELL WITHIN 50 m							Wells Present			
	LINEAR FEATURES	Road					Railway		Road		
	ENVIRONMENTALLY SENSITIVE AREA / ANSI										
	SPECIES AT RISK (SAR) HABITAT										
Construction Mitigation Notes:											
<p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>											
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7					Note 11		Note 2	Note 7	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)									Note 9	
	PIPELINE CROSSING METHODS										
	MONITORING							Notes 4 & 5			
	VEGETATION RESTRICTIONS		Note 3				Note 3				
	PERMITTING REQUIREMENTS		Note 6						Note 6	WC-61	
SEED MIX											
POTENTIALLY CONTAMINATED SITES											
SPECIES AT RISK (SAR) HABITAT											



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Intermittent Watercourse
- Hydro Line
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-45	-

July 2020
160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

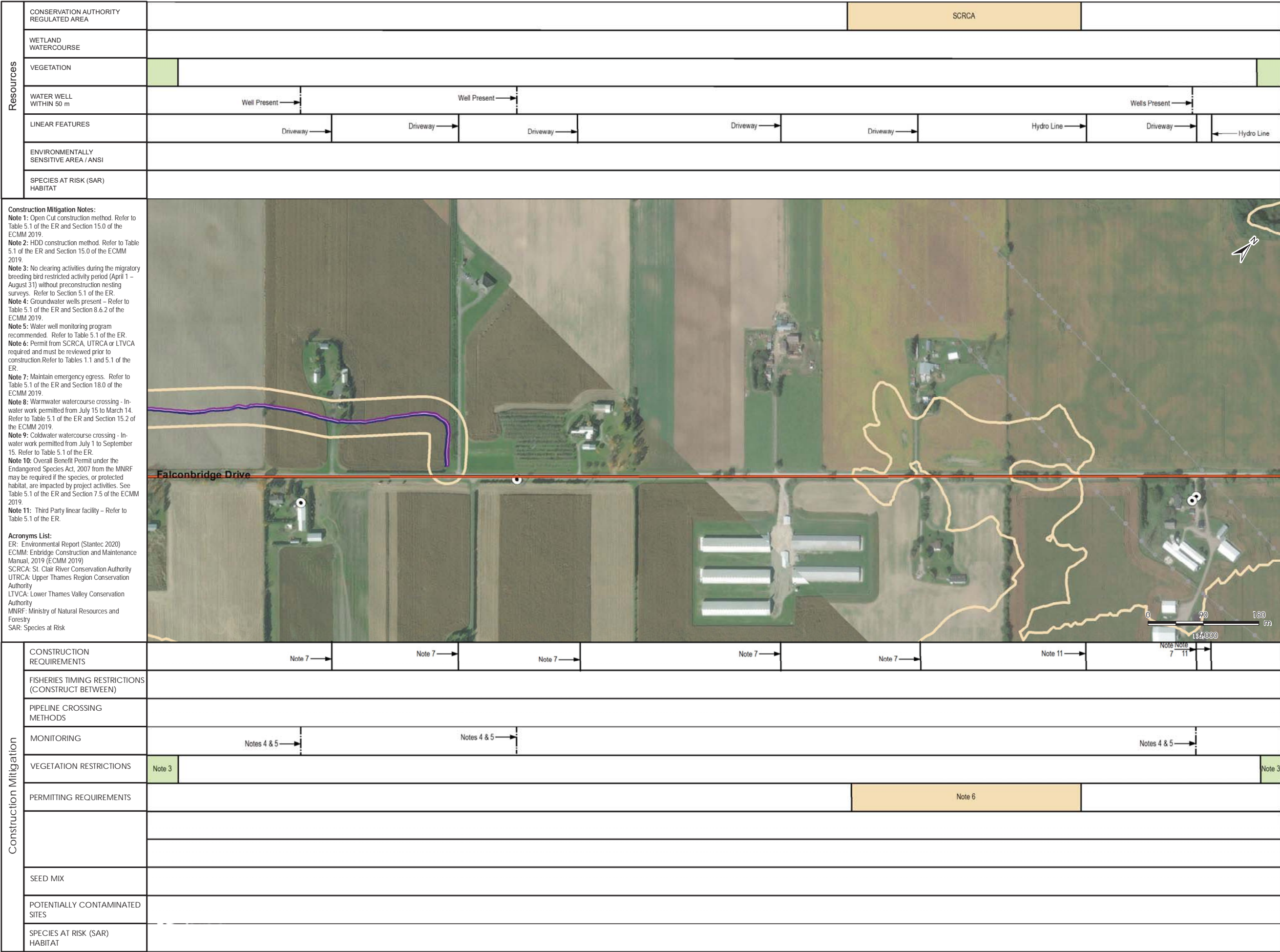
Figure No.

A-45

Title

Environmental Alignment
Sheets - Map 45

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Revised: 2020-07-11 By: searles



Legend

- Preferred Route
- Water Well (MECP)
- Intermittent Watercourse
- Hydro Line
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Regulation Area

Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-46	-

July 2020
160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-46

Title
**Environmental Alignment
Sheets - Map 46**

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Revised: 2020-07-11 By: searles



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Intermittent Watercourse
- Hydro Line
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Regulation Area
- Waterbody

Notes

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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-47	-

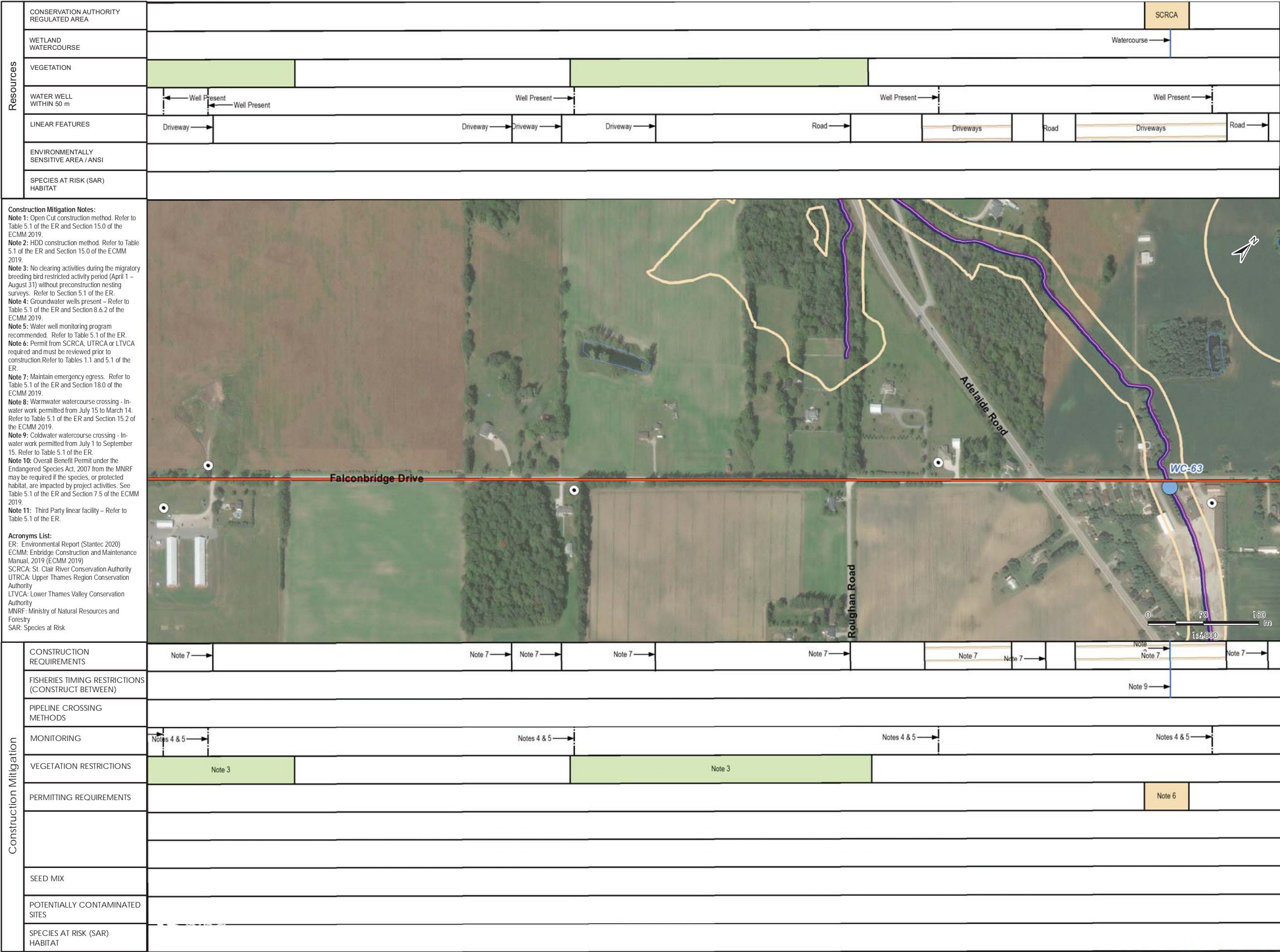
Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-47

Title
**Environmental Alignment
Sheets - Map 47**

July 2020
160951170

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Revised: 2020-07-11 By: searles



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody

Notes

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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
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160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-48

Title
**Environmental Alignment
Sheets - Map 48**

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA	UTRCA									
	WETLAND WATERCOURSE										
	VEGETATION										
	WATER WELL WITHIN 50 m	Wells Present → Well Present → Wells Present →									
	LINEAR FEATURES	Driveways → Driveway → Driveway → Driveways → Driveway → Driveway → Driveway → Road →									
	ENVIRONMENTALLY SENSITIVE AREA / ANSI										
	SPECIES AT RISK (SAR) HABITAT										
<p>Construction Mitigation Notes:</p> <p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>											
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 7 → Note 7 → Note 7 → Note 7 → Note 7 →									
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)										
	PIPELINE CROSSING METHODS										
	MONITORING	Notes 4 & 5 → Notes 4 & 5 → Notes 4 & 5 →									
	VEGETATION RESTRICTIONS	Note 3									
	PERMITTING REQUIREMENTS	Note 6									
	SEED MIX										
	POTENTIALLY CONTAMINATED SITES										
	SPECIES AT RISK (SAR) HABITAT										



Legend

- Preferred Route
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Warm
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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- All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-49	-

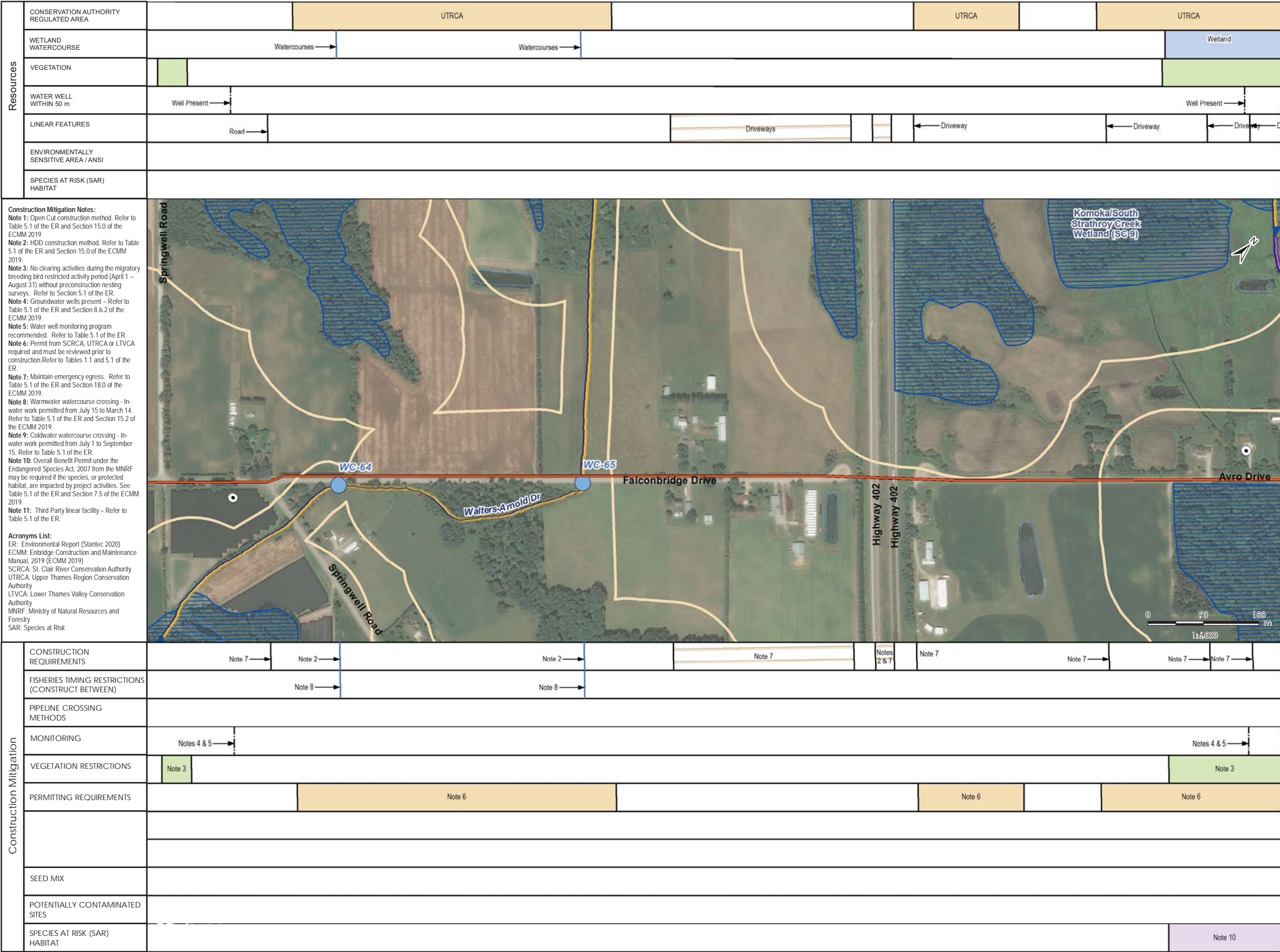
July 2020
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Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-49

Title
Environmental Alignment
Sheets - Map 49

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Revised: 2020-07-11 By: searles



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Thermal Regime, Warm
- Provincially Significant Wetland
- Regulation Area
- Waterbody

Notes

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Figure No.	Rev.
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July 2020
160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-50

Title
**Environmental Alignment
Sheets - Map 50**

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Revised: 2020-07-17 By: searles

Resources	CONSERVATION AUTHORITY REGULATED AREA	UTRCA				
	WETLAND WATERCOURSE	Watercourse		Wetland	Watercourse	Wetland
	VEGETATION					
	WATER WELL WITHIN 50 m					
	LINEAR FEATURES	Road →				Road →
	ENVIRONMENTALLY SENSITIVE AREA / ANSI					
	SPECIES AT RISK (SAR) HABITAT					
<p>Construction Mitigation Notes:</p> <p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List:</p> <p>ER: Environmental Report (Stantec 2020)</p> <p>ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019)</p> <p>SCRCA: St. Clair River Conservation Authority</p> <p>UTRCA: Upper Thames Region Conservation Authority</p> <p>LTVCA: Lower Thames Valley Conservation Authority</p> <p>MNRF: Ministry of Natural Resources and Forestry</p> <p>SAR: Species at Risk</p>						
Construction Mitigation	CONSTRUCTION REQUIREMENTS	Note 2 →	Note 7	Note 2 →	Note 7 →	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)	Note 9 →		Note 9 →		
	PIPELINE CROSSING METHODS					
	MONITORING					
	VEGETATION RESTRICTIONS		Note 3	Note 3	Note 3	
	PERMITTING REQUIREMENTS		Note 6			
	SEED MIX					
	POTENTIALLY CONTAMINATED SITES					
	SPECIES AT RISK (SAR) HABITAT				Note 10	



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-51	-

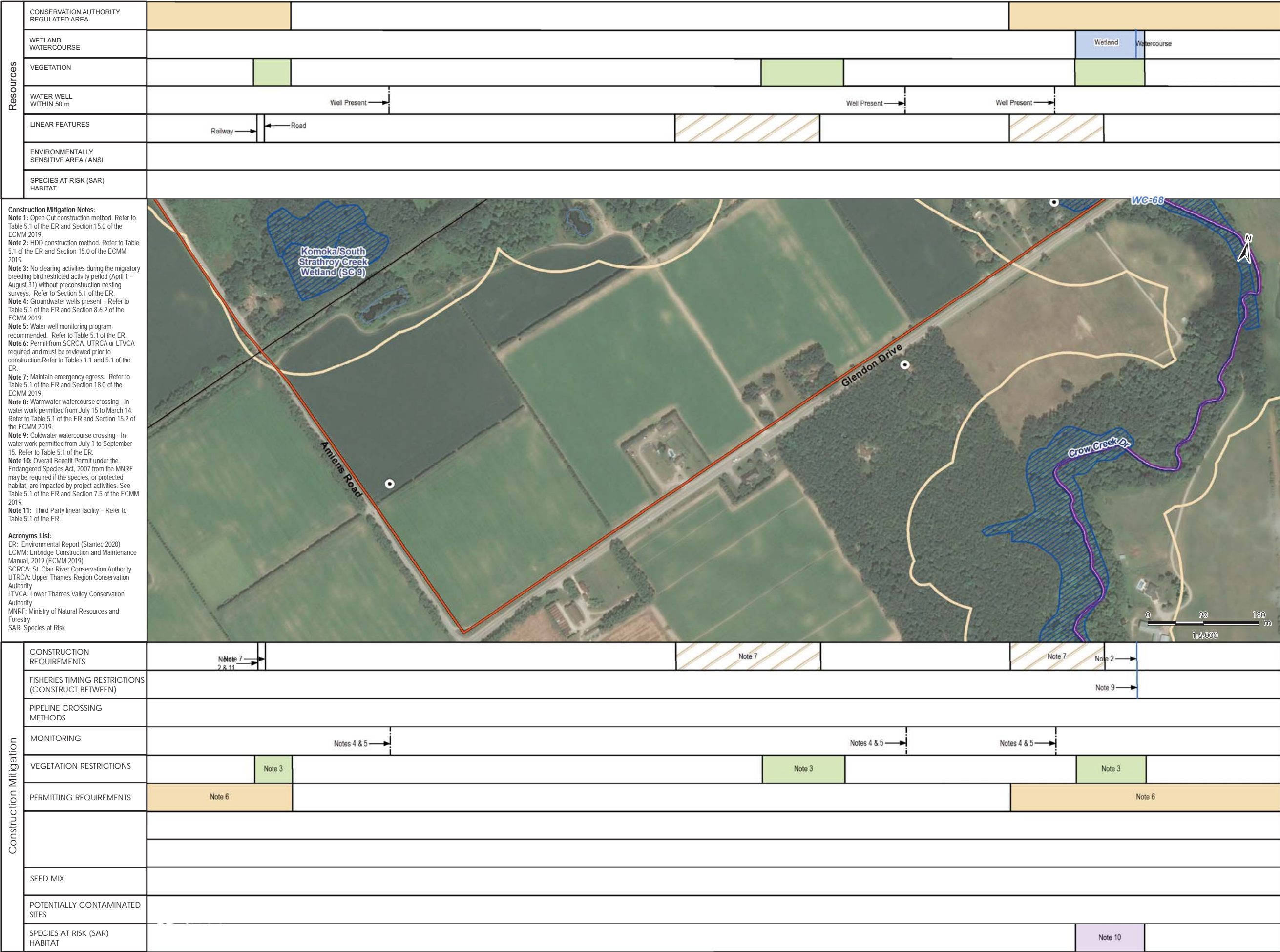
July 2020
160951170

Client/Project
Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
A-51

Title
Environmental Alignment
Sheets - Map 51

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Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Regulation Area
- Waterbody



Notes

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6. All driveway crossings will allow for emergency services access.

Figure No.	Rev.
A-52	-

July 2020
160951170

Client/Project

Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

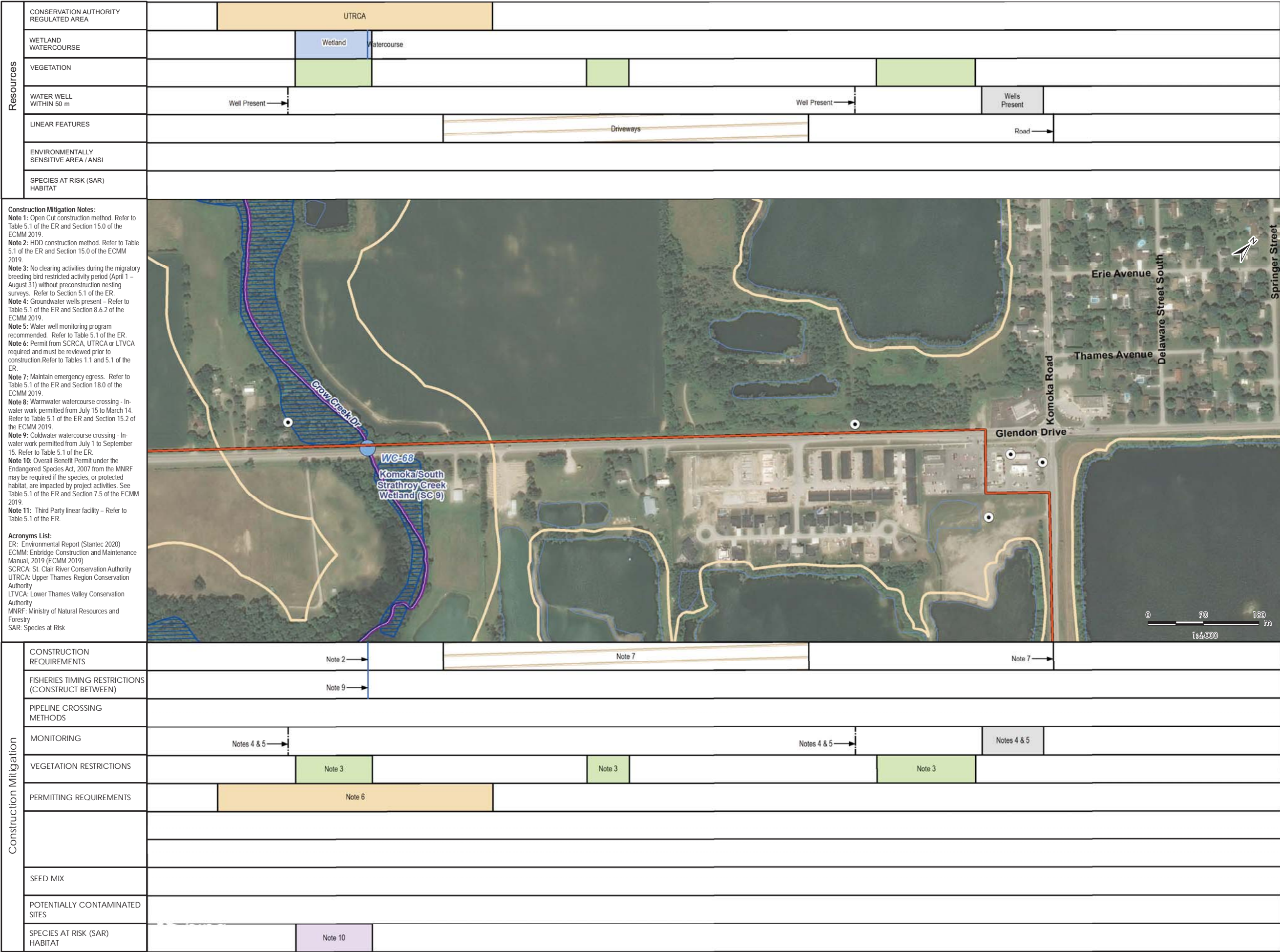
Figure No.

A-52

Title

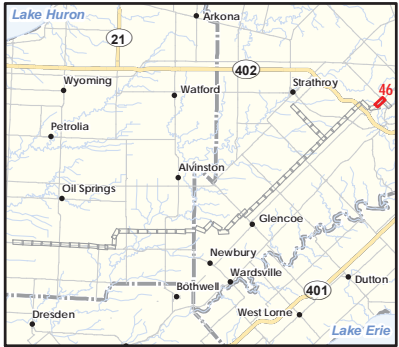
Environmental Alignment
Sheets - Map 52

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Revised: 2020-07-11 By: seafes



Legend

- Preferred Route
- Watercourse Crossing Location
- Water Well (MECP)
- Railway - Operational
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Cold
- Provincially Significant Wetland
- Provincial Park - Provincially Regulated
- Regulation Area
- Waterbody



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2020.
3. Orthoimagery © 2020 Microsoft Corporation © 2020 Maxar © CNES (2020) Distribution Airbus DS. Date of imagery unknown.
4. MECP Water well locations are approximate and have been positioned based on published UTM coordinates © Queen's Printer for Ontario, 2020.
5. Conservation Authority data provided under license from St. Clair Region Conservation Authority, Lower and upper Thames Valley Conservation Authority and Maitland Valley Conservation Authority (2020).
6. All driveway crossings will allow for emergency services access.

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Enbridge Gas Inc.
London Lines Project
Environmental Alignment Sheets

Figure No.
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Title

Environmental Alignment
Sheets - Map 53

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Revised: 2020-07-11 By: seafes

Resources	CONSERVATION AUTHORITY REGULATED AREA				
	WETLAND WATERCOURSE				
	VEGETATION				
	WATER WELL WITHIN 50 m	Wells Present	Well Present →		
	LINEAR FEATURES			Driveways	
	ENVIRONMENTALLY SENSITIVE AREA / ANSI				
	SPECIES AT RISK (SAR) HABITAT				
<p>Construction Mitigation Notes:</p> <p>Note 1: Open Cut construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 2: HDD construction method. Refer to Table 5.1 of the ER and Section 15.0 of the ECMM 2019.</p> <p>Note 3: No clearing activities during the migratory breeding bird restricted activity period (April 1 – August 31) without preconstruction nesting surveys. Refer to Section 5.1 of the ER.</p> <p>Note 4: Groundwater wells present – Refer to Table 5.1 of the ER and Section 8.6.2 of the ECMM 2019.</p> <p>Note 5: Water well monitoring program recommended. Refer to Table 5.1 of the ER.</p> <p>Note 6: Permit from SCRCA, UTRCA or LTVCA required and must be reviewed prior to construction.Refer to Tables 1.1 and 5.1 of the ER.</p> <p>Note 7: Maintain emergency egress. Refer to Table 5.1 of the ER and Section 18.0 of the ECMM 2019.</p> <p>Note 8: Warmwater watercourse crossing - In-water work permitted from July 15 to March 14. Refer to Table 5.1 of the ER and Section 15.2 of the ECMM 2019.</p> <p>Note 9: Coldwater watercourse crossing - In-water work permitted from July 1 to September 15. Refer to Table 5.1 of the ER.</p> <p>Note 10: Overall Benefit Permit under the Endangered Species Act, 2007 from the MNRF may be required if the species, or protected habitat, are impacted by project activities. See Table 5.1 of the ER and Section 7.5 of the ECMM 2019.</p> <p>Note 11: Third Party linear facility – Refer to Table 5.1 of the ER.</p> <p>Acronyms List: ER: Environmental Report (Stantec 2020) ECMM: Enbridge Construction and Maintenance Manual, 2019 (ECMM 2019) SCRCA: St. Clair River Conservation Authority UTRCA: Upper Thames Region Conservation Authority LTVCA: Lower Thames Valley Conservation Authority MNRF: Ministry of Natural Resources and Forestry SAR: Species at Risk</p>					
Construction Mitigation	CONSTRUCTION REQUIREMENTS			Note 7	
	FISHERIES TIMING RESTRICTIONS (CONSTRUCT BETWEEN)				
	PIPELINE CROSSING METHODS				
	MONITORING	Notes 4 & 5	Notes 4 & 5 →		
	VEGETATION RESTRICTIONS				
	PERMITTING REQUIREMENTS				
	SEED MIX				
	POTENTIALLY CONTAMINATED SITES				
	SPECIES AT RISK (SAR) HABITAT				



Legend

- Preferred Route
- Water Well (MECP)
- Intermittent Watercourse
- Flow Direction
- Constructed Drain
- Watercourse
- Thermal Regime, Warm
- ANSI, Life Science/Provincial
- Provincially Significant Wetland
- Provincial Park - Provincially Regulated
- Regulation Area
- Waterbody



Notes

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Environmental Alignment
Sheets - Map 54

