Samsung Renewable Energy Inc. and

Pattern Renewable Holdings Canada ULC

7D Natural Heritage Environmental Impact Study

For

Armow Wind Project

6XPPDU\ RI 5HSRUW 5HYLVLRQV

6HFWLRQ RI	5HSRUW 6XEPL $XJXVW	5HSRUW 6XEPLVV 6HSWHPEHU	5HSRUW 6XEPLV 1RYHPEHU
3.0 ±Table 1.		Added: - New habitats (including generalized) Removed: - Individual wetlands which have been complexed Updated: - Distances, significance columns for several natural features	Updated: - µ'LVWDQFH WR 7XUELQH¶ FROX - µ'LVWDQFH WR Other Project ,QIUDVWUXFWXU - µ'LVWDQFH WR Infrastructure with an 2SHUDWLRQDO column
3.0 ±Figures 2-67		Updated: - Figures	
4.1 ±Table 2.		Updated: - Number of watercourse crossing locations	Updated: - µ([WHQW RI (IIH
4.1 ±Table 3.	- Effect of watercourse crossings by cabling	Updated: - Number of watercourse crossing locations Added: - Effect of watercourse crossings by new roads or road widening	
5.2		Added: - Valleyland overlap with project area	
5.2 ±Table 7.		Added and Removed: - Various natural feature IDs Updated: - Mitigation measures, performance objectives, as well as monitoring and contingency plans	Added: - Additional wetland (Feature ID) Updated: - µ0LWLJDWLRQ 0 column - µ3HUIRUPDQFH Monitoring, and &RQWLQJHQF\ 3 column
5.3.1		Updated: - Number of overlapping habitats	
5.3.1 ±Table 8.		Updated: - Survey methods for additional habitats	Updated: - µ3RWHQWLDO 1 (IIHFWV¶ FROXP - µ3-Construction 6XUYH\V¶ FROX - µ0LWLJDWLRQ 0 column - µ3HUIRUPDQFH Monitoring and &RQWLQJHQF\ 3 column
5.3.2 ±Table 9			Updated: - µ3RWHQWLDO 1 (IIHFWV¶ FROXP - µ0LWLJDWLRQ 0 column - µ3HUIRUPDQFH Monitoring and Contingency Plans column

6HFWLRQ RI	5HSRUW 6XEPL $XJXVW	5HSRUW 6XEPLVV 6HSWHPEHU	5HSRUW 6XEPL\ 1RYHPEHU
5.3.3		Updated: - Number of habitats	
5.3.3 ±Table 10.	- no identification of amphibian habitats which do and do not require pre- and post-construction surveys	Added: - New wildlife habitats - Mitigation measures, performance objectives, as well as monitoring and contingency plans for new wildlife habitats - Annotations for amphibian breeding habitats which do not require pre- and post-construction surveys	Updated: - µ3RWential Negative (IIHFWV¶ FROXP - µ3RVW-Construction 6XUYH\V¶ FROX - µ0LWLJDWLRQ 0 column - µ3HUIRUPDQFH Monitoring and Contingency Plans ¶ column
5.3.4 ±Table 11			Updated: - µ3HUIRUPDQFH Monitoring and Contingency Plans ¶ column
6.1			Added: - Reference to provincial standards of significance
6.1 ±Table 12.		Added: - New wildlife habitats	Updated: - µ*HQHUDOL]HG column
6.2 ±Table 13.		Added: - New mitigation measures for new wildlife habitats - New applicable wildlife habitat IDs Updated: - µ2EMHFWLYHV¶ FRO	Updated: - µ0LWLJDWLRQ (column - µ2EMHFWLYH V - µ/RFDWLRQ V ¶
6.3 ±Table 14.		Added: - New wildlife habitats	Updated: - µ*HQHUDOL]HG column - µ/RFDWLRQ V ¶
Appendices		Added: - New appendices (survey methods) for new habitats	Updated: - Appendix IX: Number of monitoring stations - Appendix IX: Mapping

& K D S W H U , 9
Natural Heritage
Environmental Impact Study Report

ARMOW WIND PROJECT
1 D W X U D O + H U L W D J H (Q Y L U R Q P H Q W D

3 U H S D U H G I R U
Golder Associates Ltd.
2390 Argentia Road
Mississauga, ON L5N 5Z7

Project No. 1275

Date: October 2012

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

ARMOW WIND PROJECT
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Report submitted on October 26, 2012

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3URMHFW 'HVFULSWLRQ

7KH $UPRZ :LQG 3URMHFW WKH ³3URMHFW commercial LV DQ XS WR P wind energy generation facility located substantially on leased privately owned lands in the Municipality of Kincardine, Bruce County, Ontario. The Project is being developed by SP Armow Wind Ontario GP Inc., in its capacity as general partner of SP Armow :LQG 2QWDULR /3 WKH ³3URSRQHQW´   7KH 3URSRQHQW LV D RZQHG E\ DIILOLDWHV RI 3DWWHUQ 5HQHZDEOH +ROGLQJV &DQ 6DPVXQJ 5HQHZDEOH (QHUJ\ ,QF ³6DPVXQJ´

Natural Resource Solutions Inc. (NRSI) was retained in August 2011 by Golder Associates Ltd, on behalf of the Proponent, to conduct a natural environment resource assessment in accordance with the Renewable Energy Approval (REA) Regulation. This assessment includes a records review, site investigation, evaluation of significance and impact assessment of any potentially significant natural features at the proposed 180MW wind energy facility in Bruce County within the municipality of Kincardine, Ontario. The analysis of the natural heritage features and biological factors affecting the proposed site is one issue being considered. Other factors, such as water bodies, land ownership, social impacts, and cultural impacts are also being assessed by other team members, and will be addressed under separate covers as outlined by the REA Regulation.

The proposed Armow Wind Project is located in the southwest end of Bruce County, within the Township of Kincardine. The general project area is roughly bordered by Bruce Road 20 to the north, Highway 9 to the south, Bruce Road 1 to the east, and Highway 21 to the west. This wind energy generating facility is proposed to be up to 180MW in size, consisting of up to 99 operational wind turbines, as well as supporting infrastructure and development activities.

As identified in the REA Regulation, the proposed layout of these features is collectively UHIHUUHG WR DV WK The project location is defined as per the Natural Heritage Assessment Guide for Renewable Energy Projects (OMNR 20 D a part of land and all or part of any building or structure in, on or over which a person is engaging in or proposes to engage in the project and any air space in which a person is engaging in or proposes to engage in the project. ´ As described herein, the project location boundary is the outer limit of where site preparation and construction activities will occur (i.e. temporary disturbance areas), and where permanent infrastructure will be located, including the air space occupied by turbine blades.

In accordance with Section 25 of the Renewable Energy Approval (REA) Regulation (O. Reg. 359/09 of the Environmental Protection Act), NRSI has conducted a thorough records review of available background resources to identify any potentially significant natural features within 120m of the project location. This includes areas within 120m of turbine blade tip as well as any areas that may be used as temporary lay-down areas, crane pads, access roads, and connector, distribution and transmission lines. For the purposes of this report, NRSI will refer to the areas within 120m of the project location as W K H µ S U R M H F W D U H D ¶

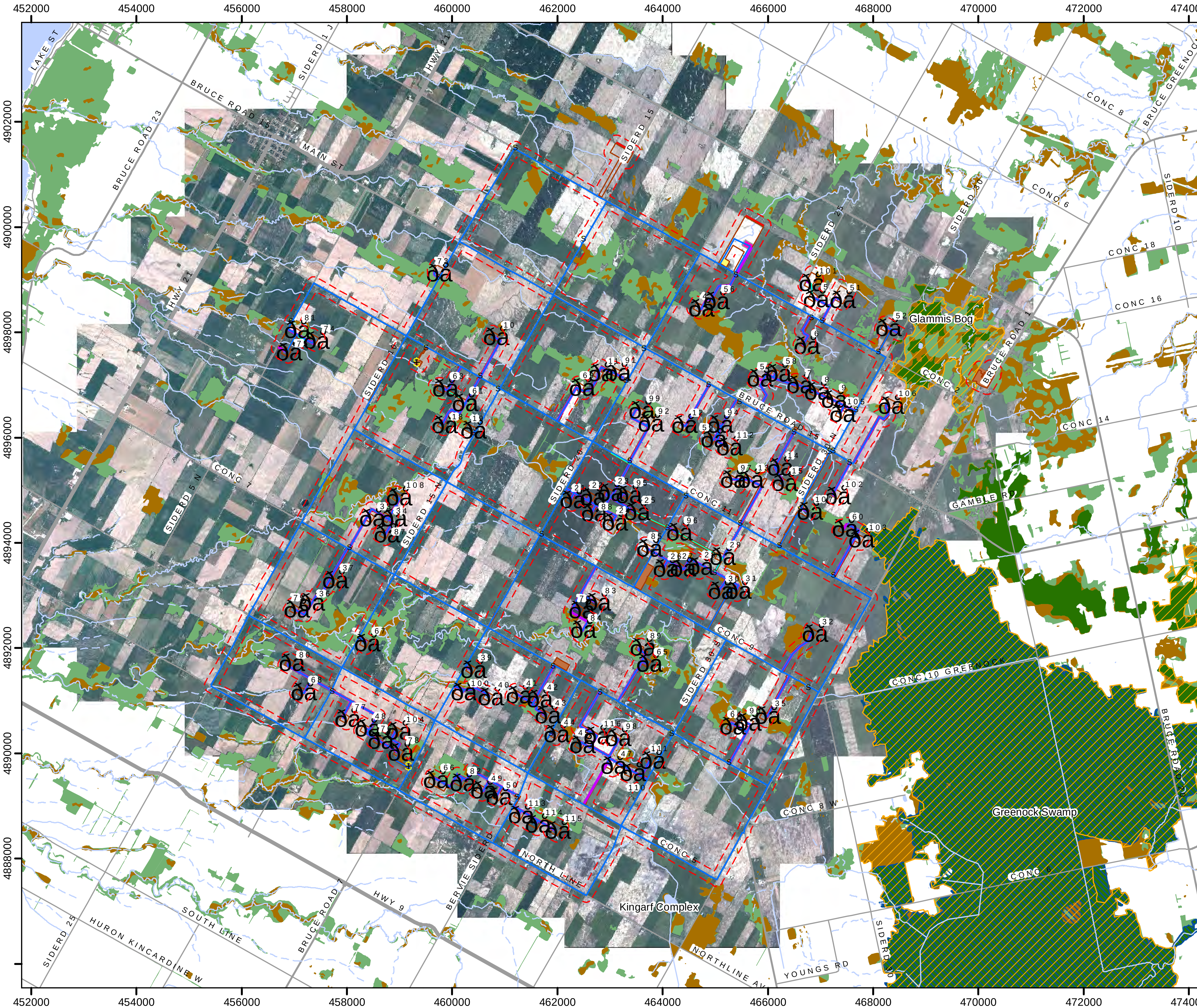
The Armow Wind Project area is dominated by agricultural fields, including rotational corn, wheat and soy crops, hayfields and pastureland. The project area also consists of natural features such as woodlands, wetlands and valleylands. In addition, several wildlife habitats, including seasonal concentration areas, specialized wildlife habitats and habitats for species of conservation concern are also located within the project area. The Armow Wind Project area, as well as natural features can be seen on Figure 1.

As part of this project, NRSI has considered all aspects relating to provincially Threatened and Endangered species; however, since these species are addressed as part of the Endangered Species Act (2007), they have not been discussed within any of these Natural Heritage Assessment reports. These species will be addressed in full detail, including a description and results of field assessments, potential impacts, and recommended mitigation measures, as part of a separate Approval and Permitting Requirements Document (APRD) to be submitted to the MNR under a separate cover, where necessary.

Figure 1

Armow Wind Project

Project Area and Natural Features



Legend

- Project Area (120m)
- Proposed Turbine (L12 Rev1)
- MET Tower
- Junction Box
- Crane Walk
- Cabling
- Access Road
- Disturbance Area
- Potential Operations Building
- Substation
- Staging Area
- Interconnect Area
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Watercourse (Intermittent)
- Waterbody
- ANSI, Life Science
- Deer Wintering Area
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Wooded Area

Map Produced by Natural Resource Solutions Inc. This map is proprietary and confidential and must not be duplicated or distributed by any means without express written permission of NRSI.
Data provided by MNR© Copyright: Queen s Printer Ontario.
Imagery provided by Golder Associates, 2011.

Project: 1275
Date: July-24-12

NAD83 - UTM Zone 17
Size: 11x17"
1:72,000

0 1 2 3 4 5 kms

Path: X:\1275_ArmowWF\NRSI_1275_RR_Fig1_ProjectAreaNaturalFeatures_72K_2012_07_24_SWM.mxd

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Ontario Regulation (O. Reg.) 359/09 ±Renewable Energy Approvals Under Part V.0.1 of the Act, (herein referred to as the REA Regulation) made under the Environmental Protection Act identifies the requirements for the development of renewable energy projects in Ontario. In accordance with the REA Regulation, the Armow Wind Project is classified as a Class 4 wind facility, and is required to complete a REA.

Section 38 of the REA Regulation specifies that no development activities shall be permitted within 120m of a significant natural feature unless an environmental impact study report is prepared in accordance with any procedures established by the Ministry of Natural Resources. As per Subsection 2, this report should:

1. Identify and assess any negative environmental effects of the project on a natural feature, provincial park or conservation reserve,
2. Identify mitigation measures in respect of any negative environmental effects mentioned in the subclause above,
3. 'HVFULEH KRZ WKH HQYLURQPHQWDO HIIHFWV PRQLWRULQ negative environmental effects mentioned in subclause 1, and
4. Describe how the construction plan report « DGGUHVVHV DQ\ QHJDWLYH environmental effects mentioned in subclause 1.

This Natural Heritage Assessment report has been organized and prepared to satisfy the requirements of the environmental impact study as outlined in the REA Regulation.

(YDOXDWLRQ RI 6LJQLILFDQFH 6XPPDU\

In accordance with the REA Regulation, NRSI biologists have completed a detailed evaluation of significance of all potentially significant natural features or wildlife habitats within 120m of the Armow Wind Project location. The results of the evaluation of significance have been discussed in detail within the Armow Wind Project: Natural Heritage Evaluation of Significance Report (NRSI 2012), and have been summarized in Table 1 below. This table summary includes the results of the evaluation of significance for the woodlands, wetlands, valleylands, significant wildlife habitat, including species of conservation concern, and whether each of these features or wildlife habitats require detailed consideration as part of this Environmental Impact Study. All significant natural features (woodlands, wetlands, and valleylands) have been mapped on Figures 2-18. Significant wildlife habitats have been mapped on Figures 19-50. Generalized significant wildlife habitats are mapped on Figures 51-67.

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$UPRZ :LQG 3URMHFW

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3UR ,QIUDVWUXF	'LVWDQFH 3URMHF\ ,QIUDVWUX :LWK DQ 2SHUDWLR (IIHFW P	(,6 5HTXLU < 1 *HQHUD
$16,V				
Greenock Swamp	105 (T103)	CA ±7 CB ±7	N/A	<HV
Glammis Bog	>120	CA ±Overlapping	N/A	<HV
:RRGODQGV				
WOD-001	45 (T96)	CB ±3	N/A	<HV
WOD-002	8 (T99)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-003	>120	AR ±84 CA ±84	N/A	1R
WOD-004	34 (T99)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-005	55 (T67)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-006	70 (T24)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3UR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLR (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WOD-008	71 (T63)	CB ±2	N/A	<HV
WOD-009	57 (T32)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-010	28 (T74)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	1R
WOD-012	1 (T84)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-013	91 (T42)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-015	22 (T59)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-016	>120	CB ±3	N/A	<HV
WOD-018	>120	CB ±94	N/A	<HV
WOD-019	2 (T60)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-020	77 (T45)	CA ±>0.1 CB ±>0.1 AR ± >0.1	N/A	<HV
WOD-021	114 (T34)	AR ±66 CA ±66	N/A	1R
WOD-022	37 (T108)	AR ±1 CB ±1 CA ±1	N/A	<HV
WOD-023	69 (T31)	AR ±14 CB ±14 CA ±14	N/A	<HV
WOD-024	>120	AR ±4 CB ±4 CA ±4	N/A	1R
WOD-025	94 (T27)	CA ±52	N/A	1R
WOD-028	21 (T104)	AR ±1 CB ±1 CA ±1	N/A	<HV
WOD-029	42 (T78)	CB ±2 CA ±2	N/A	<HV
WOD-030	>120	CB ±88	N/A	<HV

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WF 2WKHU 3WJR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WOD-031	38 (T57)	AR ±1 CB ±1 CA ±1	N/A	< H V
WOD-032	109 (T9)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	< H V
WOD-035	11 (T34)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	1 R
WOD-037	15 (T61)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	< H V
WOD-041	>0.1 (T64)	CA ±>0.1	N/A	< H V
WOD-044	33 (T101)	CB ±1 CA ±1	N/A	< H V
WOD-047	45 (T6)	CA ±42	N/A	1 R
WOD-050	35 (T13)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	< H V
WOD-051	65 (T15)	CA ±1	N/A	< H V
WOD-052	6 (T66)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	< H V
WOD-054	9 (T73)	AR ±1 CB ±1 CA ±1	N/A	< H V
WOD-055	23 (T69)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	< H V
WOD-059	69 (T52)	AR ±58 CB ±58 CA ±58	N/A	< H V
WOD-060	>120	CA ±66	N/A	< H V
WOD-061	58 (T103)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	< H V
WOD-064	8 (T106)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	< H V
WOD-067	104 (T80)	CB ±2	N/A	< H V
WOD-072	>120	CB ±3	N/A	< H V
WOD-074	69 (T4)	CA ±16	N/A	1 R

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3URM ,QIUDVWUXF	'LVWDQFH 3URMHFW\ ,QIUDVWUX :LWK DQ 2SHUDWLRQ (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WOD-076	>120	CA ±>0.1	N/A	< H V
WOD-078	>120	CA ±27	N/A	< H V
WOD-079	>120	CA ±>0.1	N/A	< H V
WOD-082	>120	CA ±40	N/A	1 R
WOD-084	>120	CB ±60	N/A	1 R
WOD-086	>120	CB ±37	N/A	1 R
WOD-087	>120	CB ±79	N/A	1 R
WOD-088	>120	CB ±2	N/A	< H V
WOD-089	>120	CB ±23	N/A	< H V
WOD-090	>120	AR ±67 CB ±67 CA ±67	N/A	1 R
WOD-091	88 (T69)	AR ±71 CB ±71 CA ±71	N/A	1 R
WOD-092	87 (T69)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	< H V
WOD-095	>120	CB ±23	N/A	< H V
WOD-096	>120	CA ±22	N/A	1 R
WOD-099	>120	CB ±1	N/A	< H V
WOD-100	>120	CB ±50	N/A	1 R
WOD-102	32 (T104)	CA ±1	N/A	1 R
WOD-103	1 (T104)	CA ±>0.1	N/A	1 R
WOD-104	1 (T104)	CA ±>0.1	N/A	1 R
WOD-107	>120	CB ±20	N/A	1 R
WOD-108	>120	CB ±2	N/A	1 R
WOD-109	>120	CB ±5	N/A	< H V
WOD-110	>120	CB ±67	N/A	1 R

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WF 2WKHU 3UR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WOD-111	51 (T114)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-112	>120	CB ±16	N/A	1R
WOD-113	>120	CB ±3	N/A	<HV
WOD-114	>120	CB ±17	N/A	1R
WOD-115	>120	CB ±>0.1	N/A	1R
WOD-116	>120	CB ±104	N/A	<HV
WOD-119	>120	CB ±20	N/A	<HV
WOD-120	>120	CB ±76	N/A	1R
WOD-121	>120	CB ±62	N/A	1R
WOD-122	>120	CB ±48	N/A	1R
WOD-123	>120	CB ±80	N/A	1R
WOD-124	>120	CB ±1	N/A	1R
WOD-125	>120	BU ±97	N/A	<HV
WOD-126	>120	CB ±>0.1	N/A	<HV
WOD-127	>120	CB ±3	N/A	<HV
WOD-128	>120	CB ±113	N/A	1R
WOD-129	>120	CB ±105	N/A	1R
WOD-130	>120	CB ±20	N/A	1R
WOD-131	>120	CB ±109	N/A	<HV
WOD-132	24 (T100)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-133	>120	CB ±17	N/A	<HV
WOD-134	>120	CB ±15	N/A	1R
WOD-135	>120	CB ±3	N/A	1R
WOD-136	>120	AR ±2 CB ±2 CA ±2	N/A	1R

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3URM ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLR (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WOD-137	4 (T89)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WOD-138	64 (T65)	CB ±17	N/A	<HV
WOD-139	>120	AR ±70 CB ±70 CA ±70	N/A	1R
WOD-140	50 (T94)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	1R
WOD-141	82 (T35)	CA ±58	N/A	<HV
WOD-142	>120	CA ±>0.1	N/A	<HV
WOD-143	>120	CB ±10	N/A	<HV
WOD-144	>120	CB ±3	N/A	1R
:HWODQGV				
WET-001	>120	CB ±3	N/A	<HV
WET-002	>120	CB ±23	N/A	<HV
WET-003	>120	CB ±25	N/A	<HV
WET-004	>120	CA ±>0.1	N/A	<HV
WET-005	>120	CA ±63	N/A	<HV
WET-006	97 (T106)	CA ±9	N/A	<HV
WET-007	34 (T6)	CA ±5	N/A	<HV
WET-008	49 (T12)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WET-009	82 (T57)	CA ±69	N/A	<HV
WET-010	29 (T4)	CB ±3	N/A	<HV
WET-011	>120	CB ±3	N/A	<HV
WET-012	>120	CB ±2	N/A	<HV
WET-013	59 (T73)	AR ±45 CB ±45 CA ±45	N/A	<HV
WET-014	33 (T101)	AR ±1 CA ±1	N/A	<HV

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3URMHFW ,QIUDVWUXF	'LVWDQFH 3URMHFV ,QIUDVWUX :LWK DQ 2SHUDWLR (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WET-015	12 (T69)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WET-016	34 (T99)	CA ±>0.1	N/A	<HV
WET-019	35 (T13)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WET-020	21 (T107)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WET-021	101 (T103)	AR ±8 CB ±8 CA ±8	N/A	<HV
WET-022	57 (T32)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WET-023	>120	CB ±1	N/A	<HV
WET-024	69 (T31)	AR ±4 CB ±4 CA ±4	N/A	<HV
WET-025	>120	CA ±>0.1	N/A	<HV
WET-026	41 (T63)	CA ±2	N/A	<HV
WET-027	>120	CB ±3	N/A	<HV
WET-028	71 (T108)	CA ±50	N/A	<HV
WET-029	112 (T70)	AR ±2 CB ±2 CA ±2	N/A	<HV
WET-030	85 (T65)	CA ±56	N/A	<HV
WET-031	>0.1 (T64)	CA ±>0.1	N/A	<HV
WET-032	82 (T35)	CA ±58	N/A	<HV
WET-033	>120	CB ±3	N/A	<HV
WET-034	>120	CB ±3	N/A	<HV
WET-036	43 (T45)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WET-037	91 (T42)	AR ±2 CB ±2	N/A	<HV
WET-038	>120	CB ±17	N/A	<HV

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WF 2WKHU 3UR ,QIUDVWUXF	'LVWDQFH 3URMHFW\ ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WET-039	1 (T104)	AR ±>0.1 CB ±>0.1 CA ±>0.1	N/A	<HV
WET-040	>120	CB ±2	N/A	<HV
WET-041	>120	CB ±>0.1	N/A	<HV
WET-042	>120	CB ±88	N/A	<HV
WET-043	>120	CB ±27	N/A	<HV
WET-046	>120	CB ±>0.1	N/A	<HV
9DOOH\ODQGV				
VAL-001	>120	CA ±90	N/A	<HV
VAL-002	Overlapping (T94)	AR, CB, CA ± Overlapping	N/A	<HV
VAL-006	50 (T108)	CB ±2	N/A	<HV
VAL-007	Overlapping (T84)	AR, CB, CA ± Overlapping	N/A	<HV
VAL-008	>120	CB ±3	N/A	<HV
:LOGOLIH +DELWDW				
WST-007	Overlapping (T50)	AR, CB, CA ± Overlapping	WT ±Overlapping	1R
WST-017	56 (T84)	CA ±>0.1m	WT ±56 (T84)	<HV
WST-018	>120	BU ±Overlapping	BU ±Overlapping	<HV
WSA-001	Overlapping (T4)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WSA-002	Overlapping (T42)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WSA-003	Overlapping (T69)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WSA-004	Overlapping (T31)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WSA-005	Overlapping (T78)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WSA-006	Overlapping (T64)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WSA-007	Overlapping (T32)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WSA-009	Overlapping (T12)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WSA-010	8 (T94)	CA ±Overlapping	WT ±8	<HV
WSA-011	Overlapping (T107)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3URM ,QIUDVWUXF	'LVWDQFH 3URMHFW\ ,QIUDVWUX :LWK DQ 2SHUDWLR (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WSA-012	Overlapping (T60)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-013	Overlapping (T45)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-014	Overlapping (T104)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-015	Overlapping (T05, 101)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-017	Overlapping (T35)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-018	Overlapping (T106)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-019	Overlapping (T57)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-020	Overlapping (T13, 97)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-021	Overlapping (T91)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
WSA-022	>120	AR, CB, CA ± Overlapping	WT ±>120	< H V
WSA-023	Overlapping (T11)	AR, CB, CA ± Overlapping	WT ±>120	< H V
WSA-024	44 (T69)	AR, CB, CA ± Overlapping	WT ±44	< H V
WSA-025	>120	AR, CB, CA ± Overlapping	WT ±>120	< H V
SHM-001	8 (T94)	CA ±Overlapping	WT ±8	< H V
SHM-002	Overlapping (T57)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
RWA-001	69 (T52)	CB ±24	WT ±69 CB ±24	1 R
RWA-002	Overlapping (T6,T7,T8,T9)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-004	>120	CB ±2	WT ±>120 CB ±2	1 R
RWA-005	Overlapping (T73)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-006	>120	CB ±3	WT ±>120 CB ±3	1 R
RWA-007	24 (T69)	AR, CB, CA ±>0.1	WT ±24 CB ±>0.1	1 R
RWA-008	Overlapping (T92, T99)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-009	Overlapping (T14, T15)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-010	Overlapping (T107)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-011	>120	CB ±27	WT ±>120 CB ±27	1 R

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3WR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
RWA-012	Overlapping (T31, T32)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-015	Overlapping (T19)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA -017	Overlapping (T33, T34)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-018	>120	BU ±Overlapping	WT ±>120 CB ±>0.1	1 R
RWA-019	Overlapping (T90)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-020	Overlapping (T37)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-021	Overlapping (T39, T100)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-022	Overlapping (T67)	CA ±Overlapping	WT ±Overlapping CB ±3	1 R
RWA-023	Overlapping (T47, T110)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-024	102 (T111)	CB ±Overlapping	WT ±102 CB ±Overlapping	1 R
RWA-026	7 (T66)	AR ±>0.1 CB ±>0.1	WT ±7 CB ±>0.1	1 R
RWA-028	34 (T51)	CA ±>0.1	WT ±34 CB ±23	1 R
RWA-029	>120	CB ±3	WT ±>120 CB ±3	1 R
RWA-031	66 (T65)	CB ±17	WT ±66 CB ±17	1 R
RWA-032	>120	CB ±3	WT ±>120 CB ±3	1 R
RWA-034	>120	CB ±27	WT ±>120 CB ±27	1 R
RWA-035	Overlapping (T80)	AR, CB, CA ± Overlapping	WT ±Overlapping CB ±Overlapping	1 R
RWA-036	5 (T89)	AR ±>0.1 CA ±>0.1	WT ±5 CB ±17	1 R
BMA-001	70 (T24)	AR ±>0.1 CA ±>0.1	WT ±70	< H V
BMA-004	28 (T74)	AR ±>0.1 CA ±>0.1	WT ±28	< H V
BMA-020	58 (T103)	AR ±>0.1 CA ±>0.1	WT ±58	< H V
BMA-021	8 (T106)	AR ±>0.1 CA ±>0.1	WT ±8	< H V
BMA-024	69 (T52)	CA ±46	WT ±69	< H V
BMA-028	24 (T100)	AR ±>0.1 CA ±>0.1	WT ±24	< H V
BMA-032	114	AR ±66 CA ±66	WT ±114	< H V
BMA-034	69	CA ±16	WT ±69	< H V

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3WR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
BMA-035	48 (T73)	CB ±3	WT ±48	<HV
CBT-001	>120	CA ±32	WT ±>120 AR ±76	<HV
CBG-001	Overlapping (T21)	AR, CA, CB ± Overlapping	WT ±Overlapping AR ±Overlapping	<HV
CBG-002	Overlapping (T07, 08)	AR, CA, CB ± Overlapping	WT ±Overlapping AR ±Overlapping	<HV
CBG-003	Overlapping (T47, T98, T110, T111, T116)	AR, CA, CB ± Overlapping	WT ±Overlapping AR ±Overlapping	<HV
CBG-004	Overlapping (T24)	CA ±73	WT ±Overlapping AR ±>120	<HV
CBG-005	Overlapping (T81)	CB ±17	WT ±Overlapping AR ±70	<HV
CBG-006	Overlapping (T81)	CB ±17	WT ±Overlapping AR ±70	<HV
CBG-007	Overlapping (T81)	CB ±17	WT ±Overlapping AR ±70	<HV
CBG-008	Overlapping (T45)	AR, CA, CB ± Overlapping	WT ±Overlapping AR ±Overlapping	<HV
Winter Deer Yard	100 (T103)	AR ±23 CA ±23	WT ±100 AR ±23 CB ±35 CA ±23 BU ±>120	<HV
WFN-002	91 (T106)	AR ±42 CA ±42	WT ±91	1R
WFN-003	58 (T103)	AR ±12 CA ±12	WT ±58	1R
WFN-004	63 (T4)	AR, CB, CA ±47	WT ±63	<HV
WFN-005	91 (T42)	AR, CB, CA ±>0.1	WT ±91	<HV
WFN-006	23 (T69)	AR, CB, CA ±>0.1	WT ±23	<HV
WFN-007	Overlapping(T99)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WFN-008	Overlapping(T31)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WFN-009	Overlapping(T59, 94)	CA ±Overlapping	WT ±Overlapping	<HV
WFN-010	Overlapping(T107)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WFN-011	Overlapping(T107)	CA ±Overlapping	WT ±Overlapping	<HV
WFN-013	Overlapping(T6)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WFN-014	Overlapping(T64, 90)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WF 2WKHU 3UR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
WFN-015	Overlapping(T32)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WFN-016	39 (T106)	AR, CB, CA ±>0.1	WT ±39	<HV
WFN-017	49 (T12)	CA ±11	WT ±49	<HV
WFN-018	70 (T65)	CA ±46	WT ±70	<HV
WFN-019	25 (T47)	AR, CB, CA ± Overlapping	WT ±25	<HV
WFN-020	Overlapping (104)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
WFN-021	12 (T45)	AR, CB, CA ± Overlapping	WT ±12	<HV
WFN-022	18 (T91)	AR, CB, CA ±>0.1	WT ±18	<HV
AWO-001	>120	AR, CB, CA ±3	AR ±3	<HV
AWO-002	58 (T103)	AR ±>0.1 CA ±>0.1	AR ±>0.1	<HV
AWO-004	63 (T04)	AR, CB, CA ±47	AR ±47	<HV
AWO-005	23 (T69)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-007	87 (T69)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-008	31 (T60)	AR, CB, CA ±28	AR ±28	<HV
AWO-009	Overlapping (T104)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-012	82 (T35)	AR, CB, CA ±66	AR ±66	<HV
AWO-013	72 (T07)	CA ±24	AR ±79	<HV
AWO-016	71 (T57)	AR, CB, CA ±2	AR ±2	<HV
AWO-017	59(T69)	AR, CB, CA ±37	AR ±37	<HV
AWO-018	14 (T11)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-020	1 (T104)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-021	2 (T60)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-022	69 (T52)	CB, CA ±46	AR ±103	<HV
AWO-023	>120	AR, CB, CA ±70	AR ±70	<HV
AWO-025	>120	AR, CB, CA ±84	AR ±84	<HV
AWO-026	>120	AR, CB, CA ±4	AR ±4	<HV

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WF 2WKHU 3UR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
AWO-027	69 (T31)	AR, CB, CA ±14	AR ±14	<HV
AWO-028	>0.1 (T64)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-029	>120	AR, CB, CA ±67	AR ±67	<HV
AWO-031	37 (T06)	CA ±5	AR ±65	<HV
AWO-033	1 (T63)	CA ±2	AR ±91	<HV
AWO-034	49 (T12)	CA ±10	AR ±100	<HV
AWO-036	43 (t45)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-038	42 (T78)	CB, CA ±2	AR ±93	<HV
AWO-039	35 (T13)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-040	8 (T106)	AR, CB, CA ±>0.1	AR ±>0.1	<HV
AWO-041	>120	CA ±32	AR ±76	<HV
AWO-043	65 (T15)	CA ±1	AR ±116	<HV
AWO-044	91 (T42)	CA ±1	AR ±2	<HV
MBB-002	108 (T94)	CA ±1	WT ±65	<HV
OCB-001	39 (T51)	CA ±>0.1	WT ±39	<HV
OCB-004	Overlapping (T6, T7, T8, T9)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-008	Overlapping (T10)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-009	Overlapping (T19, T61)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-010	Overlapping (T21)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-011	Overlapping (T92, T99)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-012	Overlapping (T59, T94)	AR ,CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-013	Overlapping (T107)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-014	92 (T60)	CA ±2	WT ±92	<HV
OCB-015	Overlapping (T31, T32)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-017	Overlapping (T28)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV
OCB-018	Overlapping (T33, T34)	AR, CB, CA ± Overlapping	WT ±Overlapping	<HV

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3URM ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
OCB-020	Overlapping (T47, T110, T116)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
OCB-021	Overlapping (T90)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
OCB-023	Overlapping (T50)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
OCB-024	>120	BU ±Overlapping	WT ±>120	< H V
OCB-025	Overlapping (T14,T15)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
OCB-026	103 (T111)	CB ±Overlapping	WT ±103	< H V
OCB-027	Overlapping (T80)	AR, CB, CA ± Overlapping	WT ±Overlapping	<H V
OCB-028	Overlapping (T73)	AR, CB, CA Overlapping	WT ±Overlapping	< H V
OCB-029	Overlapping (T113)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
OCB-030	Overlapping (T40)	AR, CB, CA ± Overlapping	WT ±Overlapping	< H V
SSB-001	104 (T6)	CA ±68	WT ±104	1 R
OSF-002	55 (T67)	CB ±3	WT ±55	1 R
CNH-001	39 (T51)	CA ±>0.1	WT ±39	1 R
CNH-004	Overlapping (T6, T7, T8, T9)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-008	Overlapping (T10)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-009	Overlapping (T19, T61)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-010	Overlapping (T21)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-011	Overlapping (T92, T99)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-012	Overlapping (T59, T94)	AR ,CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-013	Overlapping (T107)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-014	92 (T60)	CA ±2	WT ±92	1 R
CNH-015	Overlapping (T31, T32)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-017	Overlapping (T28)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-018	Overlapping (T33, T34)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-020	Overlapping (T47, T110, T116)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R
CNH-021	Overlapping (T90)	AR, CB, CA ± Overlapping	WT ±Overlapping	1 R

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3UR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
CNH-023	Overlapping (T50)	AR, CB, CA ± Overlapping	WT ±Overlapping	1R
CNH-025	Overlapping (T14,T15)	AR, CB, CA ± Overlapping	WT ±Overlapping	1R
CNH-026	103 (T111)	CB ±Overlapping	WT ±103	1R
CNH-027	Overlapping (T80)	AR, CB, CA ± Overlapping	WT ±Overlapping	1R
CNH-028	Overlapping (T73)	AR, CB, CA ± Overlapping	WT ±Overlapping	1R
CNH-029	Overlapping (T113)	AR, CB, CA ± Overlapping	WT ±Overlapping	1R
CNH-030	Overlapping (T40)	AR, CB, CA ± Overlapping	WT ±Overlapping	1R
*HQHUDOL]HG DEL GDLWM +				
Waterfowl Stopover and Staging area (Terrestrial)	N/A	N/A	WT ±>120	<HV *HQHUDO
Waterfowl Stopover and Staging area (Aquatic)	N/A	N/A	WT ±>120	<HV *HQHUDO
Shorebird Migratory Stopover Area	N/A	N/A	WT ±>120	<HV *HQHUDO
Bat Maternity Colony	N/A	N/A	WT ±>120	<HV *HQHUDO
Reptile Hibernaculum (Snakes)	N/A	N/A	WT ±>120 AR ±>120	<HV *HQHUDO
Colonial-Nesting Bird Breeding Habitat (Ground)	N/A	N/A	WT ±>120 AR ±>120	<HV *HQHUDO
Old-growth or Mature Forest Stands	N/A	N/A	No development within habitat	<HV *HQHUDO
Waterfowl Nesting Area	N/A	N/A	WT ±>120	<HV *HQHUDO
Other Rare Vegetation Communities	N/A	N/A	AR ±>120	<HV *HQHUDO

)HDWXUH ,	'LVWDQFH &ORVHVW 7 IURP EODG P	'LVWDQFH WR 2WKHU 3UR ,QIUDVWUXF	'LVWDQFH 3URMHFW ,QIUDVWUX :LWK DQ 2SHUDWLF (IIHFW P	(,6 5HTXLU < 1 *HQHUD
Woodland Raptor Nesting Habitat	N/A	N/A	No development within habitat	<HV *HQHUD
Amphibian Breeding Habitat (Woodland)	N/A	N/A	AR ±>120	<HV *HQHUD
Amphibian Breeding Habitat (Wetland)	N/A	N/A	AR ±>120	<HV *HQHUD
Marsh Breeding Bird Habitat	N/A	N/A	WT ±>120	<HV *HQHUD
Woodland Area-sensitive Bird Breeding Habitat	N/A	N/A	No development within habitat	<HV *HQHUD
Open Country Bird Breeding Habitat	N/A	N/A	WT ±>120	<HV *HQHUD
Shrub/Early Successional Bird Breeding Habitat	N/A	N/A	WT ±>120	<HV *HQHUD
Terrestrial Crayfish	N/A	N/A	No development within habitat	<HV *HQHUD
Habitat for Common Nighthawk	N/A	N/A	WT ±>120	<HV *HQHUD
Habitat for Olive-sided Flycatcher	N/A	N/A	WT ±>120	<HV *HQHUD
Habitat for Red-headed Woodpecker	N/A	N/A	No development within habitat	<HV *HQHUD

/HJHQG
WT: Wind Turbine
AR: Access Road
CB: Cabling
CA: Construction Activity/Temporary Infrastructure/Balance of Operations
BU: Building/Transformer Station/Distribution Station

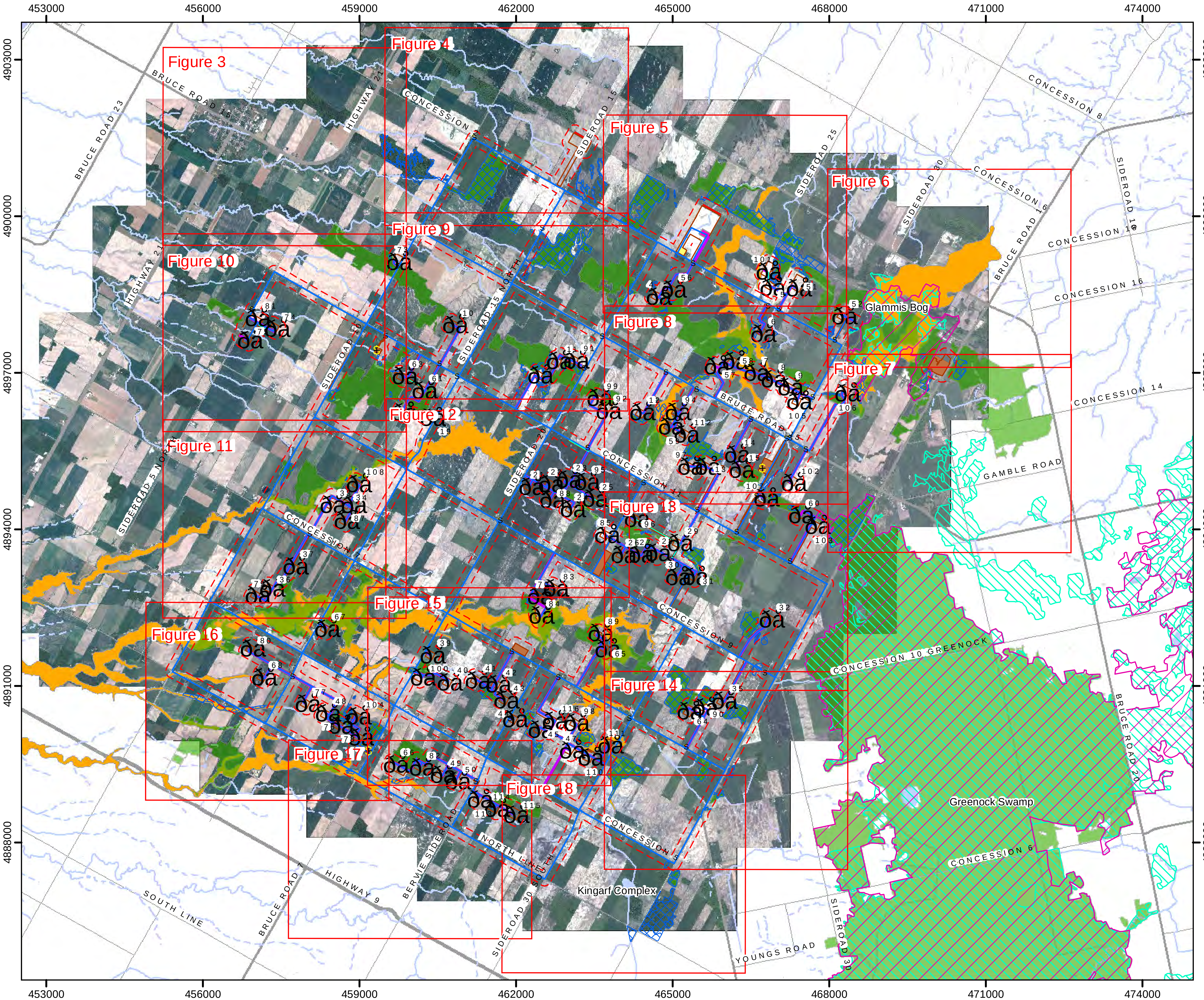

Figure 2

Armow Wind Project

Significant Woodlands, Wetlands and Valleylands - Key Map

Legend

- Map Extent
- Project Area (120m)
- Proposed Turbine (L12 Rev1)
- MET Tower
- Junction Box
- Crane Walk
- Cabling
- Access Road
- Disturbance Area
- Potential Operations Building
- Substation
- Staging Area
- Interconnect Area
- Wetland
- Valleyland
- Woodlands
- ANSI, Life Science
- Provincially Significant Wetland
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Watercourse (Intermittent)
- Waterbody

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Imagery provided by: Golder Associates, 2011

Project: 1275
Date: September 12, 2012

NAD83 - UTM Zone 17
Size: 11x17"
1:72,000

0 1 2 3 4 5 Kms

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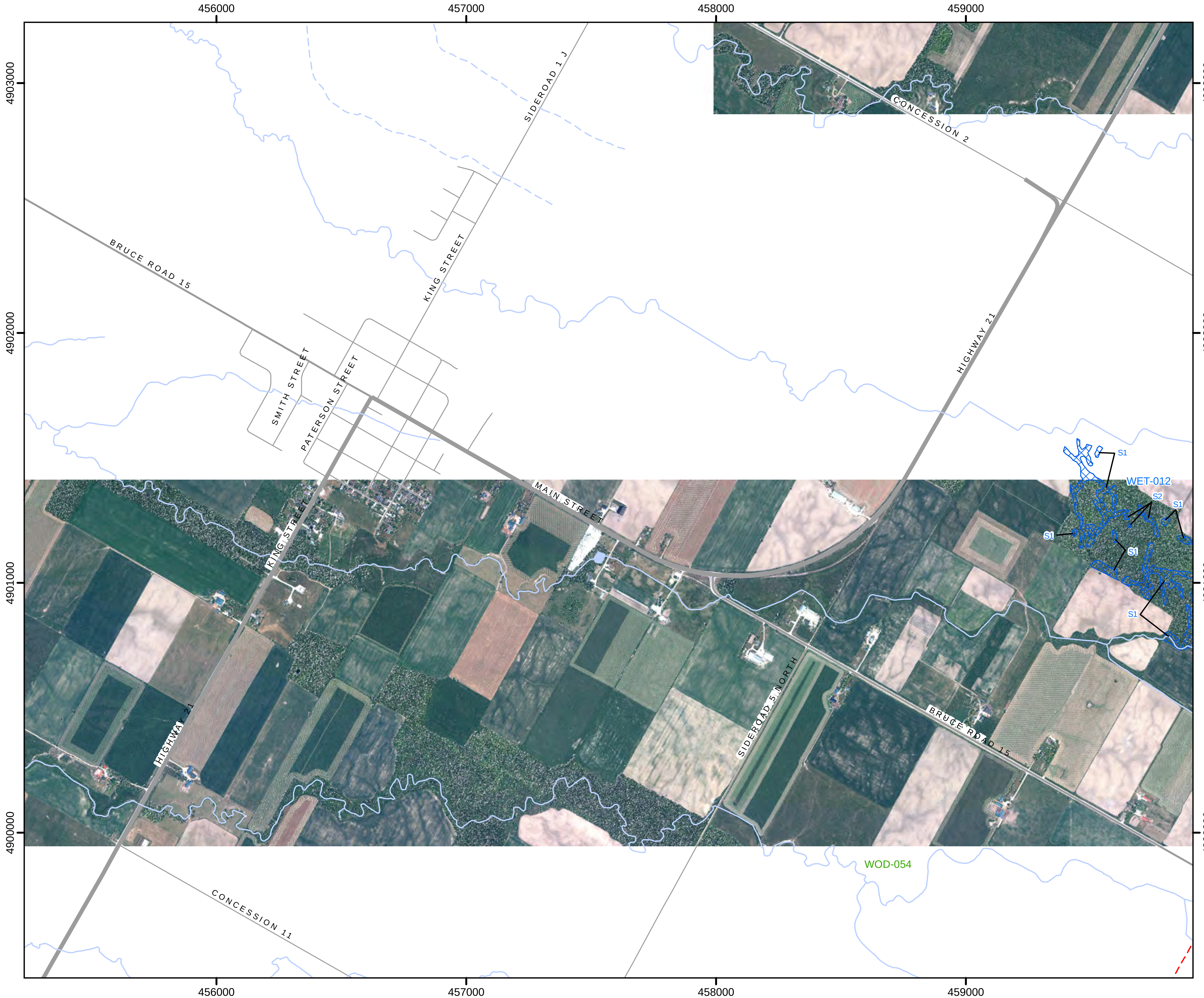

Figure 3

Armow Wind Project

Significant Woodlands, Wetlands, and Valleylands

Legend

- Project Area (120m)
- Proposed Turbine (L12 Rev1)
- MET Tower
- Junction Box
- Crane Walk
- Cabling
- Access Road
- Disturbance Area
- Potential Operations Building
- Substation
- Staging Area
- Interconnect Area
- Woodlands
- Valleylands
- Wetlands
- ANSI, Life Science
- Provincially Significant Wetland
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Watercourse (Intermittent)
- Waterbody

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Imagery provided by: Golder Associates, 2011

Project: 1275
Date: August 27, 2012

NAD83 - UTM Zone 17
Size: 11x17"
1:15,124

0 250 500 750 1,000 m

N

Path: X:\1275_ArmowWF\NRSI_1275_EOS_Fig3-18_WOD_WET_VAL_15K_2012_08_09_SWM.mxd