

Table 3-2 Summary of Scioto Ridge Wind Farm Impacts within the New Project Area

Impact Type	Potential Impacts within New Project Area
Field-delineated wetlands	0 Acres
Stream Crossings	0 Linear Feet
Tree Clearing	0.032 Acres
Access Road Temporary Soil	3.32 Acres
Access Road Permanent Soil	3.28 Acres
Collection Lines Temporary Soil	7.79 Acres
Floodplains	0 Acres
Turbine Foundation Footprint (approximate)	0.41 Acres

Note: Based on current engineering design.

Within the 197-acre New Project Area, approximately 6.60 acres of soil will be impacted (temporary and permanent impacts combined) due to construction of access roads. Approximately 7.79 acres will be temporarily impacted due to collection line installations. Permanent soil impacts due to turbine foundations will be approximately 0.41 acres. The stream crossings (SOH-AD05 and SOH-AD06) will have no impacts by utilizing HDD technology (See Table 3-3 below). Approximately 0.032 acres of tree clearing are anticipated within the New Project Area. A majority of these impacts have already been accounted for in Cardno's 2013 Ecological Assessment, and therefore, already included in the Certification. For example, the relocation of Turbine #129 involved moving it approximately 490 feet north from previously permitted location. The previously reported impacts (as presented in Cardno's 2013 *Ecological Assessment*) included the calculated impacts such as foundation, access road and collection line associated with Turbine #129; which are now represented in the impacts presented in Table 3-2 above. The impact comparison in the following Section 3.2 should further clarify this.

Table 3-3 Stream Crossing Impacts

Stream ID	Stream Classification				Facility Feature		Width of Feature Impact	
	Aquatic Use Designation		PHWH Class	HHEI	Type	Construction Method	Temporary	Permanent
SOH-AD05	WWH	Perennial	Class III PHWH	73	Collection Line	HDD	N/A	N/A
SOH-AD06	WWH	Perennial	Modified Class II	57	Collection Line	HDD	N/A	N/A
Total							0	0

These impacts will be further reduced for the finalized proposed infrastructure as these numbers are based along the centerline of the 400-foot wide New Project Area. In most cases micro-siting the infrastructure away from known and delineated features will minimize impacts to wetlands and streams, and require little to no tree clearing.

Through project design and avoidance and minimization measures, EverPower will avoid impacts to the single wetland delineated within the New Project Area, WOH-AD01. Avoidance measures will include pre-construction field preparation such as flagging and signage of regulated resources, environmental training for construction crews and the use of environmental monitors during construction as determined necessary. The installation of the collection line under stream crossings of SOH-AD05 and SOH-AD06 are proposed to utilize horizontal directional drilling (HDD) due to their moderately higher qualitative ranking and perennial flow. This widely used technique accomplishes the installation of buried utilities with minimal or no impact, by routing the utility under a sensitive feature (such as a stream, river or wetland).

3.2 Comparison of Project Corridors

The following discussion focuses on the impacts within the total Project Corridor as it now appears in the 2014 amended site plan, in comparison to the originally permitted plan in Cardno's 2013 *Ecological Assessment*. The overall Study Area acreage has not changed. The most significant changes have resulted from adjusting the locations of turbines, their associated collection lines and access roads, and potential relocation of a previously permitted collector substation within the Project Study Area, as presented in Table 3-4 below.

Table 3-4 Summary Comparison of Scioto Ridge Wind Project Infrastructure

Features	Approximate Values for 2013 Permitted Project Corridor	Approximate Values for 2014 Amended Project Corridor
Total Study Area	31,986 acres	31,986 acres
Total Project Corridor	4,755 acres	4,671 acres
Permanent Constructed Project Infrastructure	177 acres	175.13 acres
Number of Turbines	Up to 176	Up to 172
Miles of Collection Lines	83.61 miles	81.90 miles
Miles of Access Roads	59.69 miles	59.05 miles

Table 3-5 below shows the change in potential impacts between plans. All impacts to resources either stayed or decreased..

Table 3-5 Summary of Scioto Ridge Wind Farm – Total Impacts

Impact Type	Potential Impacts within 2013 Permitted Project Corridor	Potential Impacts within 2014 Amended Project Corridor
Field-delineated wetlands	0.41 Acres	0.41 Acres
Stream Crossings	883.4 Linear Feet	883.4 Linear Feet
Tree Clearing	22.24 Acres	21.38 Acres
Access Road Temporary Soil	137.8 Acres	137.20 Acres
Access Road Permanent Soil	138.94 Acres	137.69 Acres
Collection Lines Temporary Soil	132.43 Acres	130.23 Acres
Floodplains	11.48 Acres	8.74 Acres
Turbine Foundation Footprint (approximate)	35.02 Acres	34.40 Acres

Based on current engineering design.

Based on the amendments to the infrastructure the majority of Project impacts to identified resources within the Project Corridor have decreased from those which were previously permitted.

The Scioto Ridge Wind Farm is proposed to be primarily built on land that has already been impacted by land clearing; and is actively disturbed annually for agriculture. The vegetation clearing and ground disturbance required for the proposed Project is minimal compared with the operation of coal mines, the installation of gas wells and construction and operation of gas and coal-fired power stations. If the proposed Scioto Ridge Wind Farm were decommissioned, the landscape can be returned to its previous condition.

The streams found within the Study Area are highly impacted by the surrounding land use. Though they may have potential sensitive habitat, the water quality may not support the development of rich faunal communities. No water

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Summary: Application to Amend -- Exhibit D (Part 7 of 31) electronically filed by Mrs. Gretchen L. Petrucci on behalf of Hardin Wind LLC