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## 2.0 SUMMARY OF IMPACTS

EMH&T has prepared this document in accordance with a request by MBJ Holdings, LLC for Section 401 Water Quality Certification from the Ohio EPA and Section 404 authorization from the USACE for impacts to Waters of the United States in association with the Harrison Road East Development. The proposed development is located east of Harrison Road, south of Jug Street, west of Mink Street, and north of State Route 161 in Jersey Township, Licking County, Ohio, as shown on Exhibit 1 (Section 6). MBJ Holdings, LLC is seeking authorization from the Ohio EPA and the USACE to construct the proposed Preferred Design (Alternative #1)

The proposed development site has 4,980 linear feet of intermittent stream, 3,000 linear feet of ephemeral stream, and 12.67 acres of jurisdictional wetlands, as shown on Exhibit 7 (Section 6). The proposed impacts, based on Alternative #1, the Preferred Design (Exhibit 8 in Section 6), include 853 linear feet of intermittent stream, 1,989 linear feet of ephemeral stream, and 2.66 acres of Category 1 and 2 jurisdictional wetlands. Based on Alternative #2, the Minimal Degradation Alternative (Exhibit 9 in Section 6), the proposed impacts include 469 linear feet of intermittent stream, 1,497 linear feet of ephemeral stream, and 1.5 acres of Category 1 and 2 jurisdictional wetlands. These impacts are summarized on the Proposed Impacts Tables (Attachments 2A and 2B).

For Alternative #1, the proposed mitigation will include the preservation of approximately 4,937 linear feet of stream onsite and 1,987 linear feet of stream offsite. The proposed mitigation will also include purchase of 6.7 acres of wetland mitigation credits from the Stream + Wetlands Foundation Huntington District In-Lieu Fee Program. The proposed mitigation is further discussed in Section 7.

Alternative #1 is feasible, cost effective and a desirable alternative for onsite development. By implementing the Preferred Design, numerous social and economic benefits would be gained by the City of New Albany, Licking County and the State of Ohio. Some environmental benefits would be lost during the construction of the proposed development, but with the implementation of the proposed mitigation techniques, environmental benefits would also be gained via the preservation of high quality streams and wetlands on the site.



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## **ATTACHMENT 2A**

### **401 WQC PROPOSED STREAM IMPACTS AND MITIGATION TABLE**



# Application for Section 401 Water Quality Certification — Proposed Stream Impacts and Mitigation

Division of Surface Water 401 Water Quality Certification and Isolated Wetland Permitting Unit

Section 1: Streams Onsite and Proposed Impacts									
Stream ID	Jurisdictional?	Flow	Aquatic Life Use Designation in 3745-1	Existing Use?	Length Onsite (linear ft.)	Preferred Alternative		Minimal Degradation Alternative	
						Impact Length (linear ft.)	Impact Type	Impact Length (linear ft.)	Impact Type
Stream 1	YES	Intermittent	Undesignated	LWH	1551.00	160.00	Culvert/Pipe	160.00	Culvert/Pipe
Stream 1	YES	Intermittent	Undesignated	LWH	0.00	471.00	Fill	87.00	Fill
Stream 2	YES	Ephemeral	Undesignated	LWH	665.00	0.00	Choose an item.	0.00	Choose an item.
Stream 3	YES	Ephemeral	Undesignated	LWH	766.00	635.00	Fill	173.00	Choose an item.
Stream 4	YES	Ephemeral	Undesignated	LWH	385.00	385.00	Fill	385.00	Choose an item.
Stream 5	YES	Intermittent	WWH	WWH	3429.00	100.00	Culvert/Pipe	100.00	Culvert/Pipe
Stream 5	YES	Intermittent	WWH	WWH	0.00	122.00	Fill	122.00	Fill
Stream 6	YES	Ephemeral	Undesignated	LWH	607.00	556.00	Fill	556.00	Fill
Stream 7	YES	Ephemeral	Undesignated	LWH	432.00	383.00	Fill	383.00	Fill
Stream 8	YES	Ephemeral	Undesignated	LWH	145.00	0	Choose an item.	0.00	Choose an item.
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.		Choose an item.
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.		Choose an item.
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.		Choose an item.
<b>Stream Length Totals</b>					7980.00	2812.00		1966.00	

Section 2: Proposed Stream Mitigation (Check All That Apply) Preferred Alternative				
<input type="checkbox"/>	In-Lieu Fee Program	ILF Sponsor: Choose an item.	Number of Stream Credits:	Number of Buffer Credits: Proof of Reservation? YES <input type="checkbox"/> NO <input type="checkbox"/>
<input checked="" type="checkbox"/>	On-Site Permittee-Responsible Mitigation	<input type="checkbox"/> Restoration/Creation Choose an item. linear feet <input checked="" type="checkbox"/> Preservation of WWH 4937 linear feet with 50 foot buffers		<input type="checkbox"/> Enhancement of linear feet of a Choose an item. to a Choose an item. through Choose an item. <input type="checkbox"/> Other Click here to enter text.
<input checked="" type="checkbox"/>	Off-Site Permittee-Responsible Mitigation	<input type="checkbox"/> Restoration/Creation Choose an item. linear feet <input checked="" type="checkbox"/> Preservation of WWH 1987 linear feet with 50 foot buffers		<input type="checkbox"/> Enhancement of linear feet of a Choose an item. to a Choose an item. through Choose an item. <input type="checkbox"/> Other Click here to enter text.
Section 3: Proposed Stream Mitigation (Check All That Apply) Minimal Degradation Alternative				
<input type="checkbox"/>	In-Lieu Fee Program	ILF Sponsor: Choose an item.	Number of Stream Credits:	Number of Buffer Credits: Proof of Reservation? YES <input type="checkbox"/> NO <input type="checkbox"/>
<input checked="" type="checkbox"/>	On-Site Permittee-Responsible Mitigation	<input type="checkbox"/> Restoration/Creation Choose an item. linear feet <input checked="" type="checkbox"/> Preservation of WWH 5914 linear feet with 50 foot buffers		<input type="checkbox"/> Enhancement of linear feet of a Choose an item. to a Choose an item. through Choose an item. <input type="checkbox"/> Other Click here to enter text.
<input checked="" type="checkbox"/>	Off-Site Permittee-Responsible Mitigation	<input type="checkbox"/> Restoration/Creation Choose an item. linear feet <input checked="" type="checkbox"/> Preservation of WWH 1987 linear feet with 50 foot buffers		<input type="checkbox"/> Enhancement of linear feet of a Choose an item. to a Choose an item. through Choose an item. <input type="checkbox"/> Other Click here to enter text.



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**ATTACHMENT 2B**

**401 WQC PROPOSED WETLAND IMPACTS TABLE**



# Application for Section 401 Water Quality Certification — Proposed Wetland Impacts and Mitigation

Division of Surface Water 401 Water Quality Certification and Isolated Wetland Permitting Unit

Wetlands Onsite and Proposed Impacts											
Wetland ID	ORAM Score	Category	Cat. Verified by Ohio EPA?	Ohio EPA Reviewer who Verified	Acreage Onsite	Preferred Alternative			Minimal Degradation Alternative		
						Impact Acreage		Impact Type	Impact Acreage		Impact Type
						Forested	Non		Forested	Non	
Wetland A	71.50	3	<input type="checkbox"/>	Choose an item.	2.73	0.00	0.00		0.00	0.00	
Wetland B	44.00	2	<input type="checkbox"/>	Choose an item.	0.54	0.54	0.00	Fill	0.33	0.00	Fill
Wetland C	56.00	2	<input type="checkbox"/>	Choose an item.	2.55	2.05	0.00	Fill	1.10	0.00	Fill
Wetland G	33.00	2	<input type="checkbox"/>	Choose an item.	0.03	0.03	0.00	Fill	0.03	0.00	Fill
Wetland I	63.50	3	<input type="checkbox"/>	Choose an item.	6.77	0.00	0.00		0.00	0.00	
Wetland M	27.00	1	<input type="checkbox"/>	Choose an item.	0.05	0.00	0.04	Fill	0.00	0.04	Fill
Click here to enter text.		1	<input type="checkbox"/>	Choose an item.				Choose an item.			Choose an item.
Click here to enter text.		1	<input type="checkbox"/>	Choose an item.				Choose an item.			Choose an item.
Click here to enter text.		1	<input type="checkbox"/>	Choose an item.				Choose an item.			Choose an item.
Click here to enter text.		1	<input type="checkbox"/>	Choose an item.				Choose an item.			Choose an item.
Click here to enter text.		1	<input type="checkbox"/>	Choose an item.				Choose an item.			Choose an item.
Click here to enter text.		1	<input type="checkbox"/>	Choose an item.				Choose an item.			Choose an item.
<b>Wetland Acreage Totals</b>					12.67	2.62	0.04		1.46	0.04	
<b>Totals – Category 1 Wetlands</b>					0.05	0.00	0.04		0.00	0.04	
<b>Totals – Category 2 Wetlands</b>					3.12	2.62	0.00		1.46	0.00	
<b>Totals – Category 3 Wetlands</b>					9.50	0.00	0.00		0.00	0.00	

Proposed Wetland Mitigation (Check All That Apply) Preferred Alternative					
<input type="checkbox"/> <b>Wetland Mitigation Bank</b> Mitigation Bank: Choose an item.	Number of Forested Credits: Number of Non-Forested Credits: Number of Buffer Credits:	Type of Credits (if applicable): Choose an item. Type of Credits (if applicable): Choose an item. Type of Credits (if applicable): Choose an item.	Proof of Reservation? <input type="checkbox"/>		
<input checked="" type="checkbox"/> <b>In-Lieu Fee Program</b>	ILF Sponsor: Stream + Wetlands Foundation	Number of Wetland Credits: 6.7 Number of Buffer Credits:			
<input type="checkbox"/> <b>On-Site Permittee-Responsible Mitigation</b>	<input type="checkbox"/> <b>Restoration/Creation</b> Choose an item. Acres	<input type="checkbox"/> <b>Enhancement</b> Choose an item. Acres			
	<input type="checkbox"/> <b>Preservation</b> Choose an item. Acres	<input type="checkbox"/> <b>Other</b> Click here to enter text.			
<input type="checkbox"/> <b>Off-Site Permittee-Responsible Mitigation</b>	<input type="checkbox"/> <b>Restoration/Creation</b> Choose an item. Acres	<input type="checkbox"/> <b>Enhancement</b> Choose an item. Acres			
	<input type="checkbox"/> <b>Preservation</b> Choose an item. Acres	<input type="checkbox"/> <b>Other</b> Click here to enter text.			
Proposed Wetland Mitigation (Check All That Apply) Minimal Degradation Alternative					
<input type="checkbox"/> <b>Wetland Mitigation Bank</b> Mitigation Bank: Choose an item.	Number of Forested Credits: Number of Non-Forested Credits: Number of Upland Buffer Credits:	Type of Credits (if applicable): Choose an item. Type of Credits (if applicable): Choose an item. Type of Credits (if applicable): Choose an item.	Proof of Reservation? <input type="checkbox"/>		
<input checked="" type="checkbox"/> <b>In-Lieu Fee Program</b>	ILF Sponsor: Stream + Wetlands Foundation	Number of Wetland Credits: 3.8 Number of Buffer Credits:			
<input type="checkbox"/> <b>On-Site Permittee-Responsible Mitigation</b>	<input type="checkbox"/> <b>Restoration/Creation</b> Choose an item. Acres	<input type="checkbox"/> <b>Enhancement</b> Choose an item. Acres			
	<input type="checkbox"/> <b>Preservation</b> Choose an item. Acres	<input type="checkbox"/> <b>Other</b> Click here to enter text.			
<input type="checkbox"/> <b>Off-Site Permittee-Responsible Mitigation</b>	<input type="checkbox"/> <b>Restoration/Creation</b> Choose an item. Acres	<input type="checkbox"/> <b>Enhancement</b> Choose an item. Acres			
	<input type="checkbox"/> <b>Preservation</b> Choose an item. Acres	<input type="checkbox"/> <b>Other</b> Click here to enter text.			