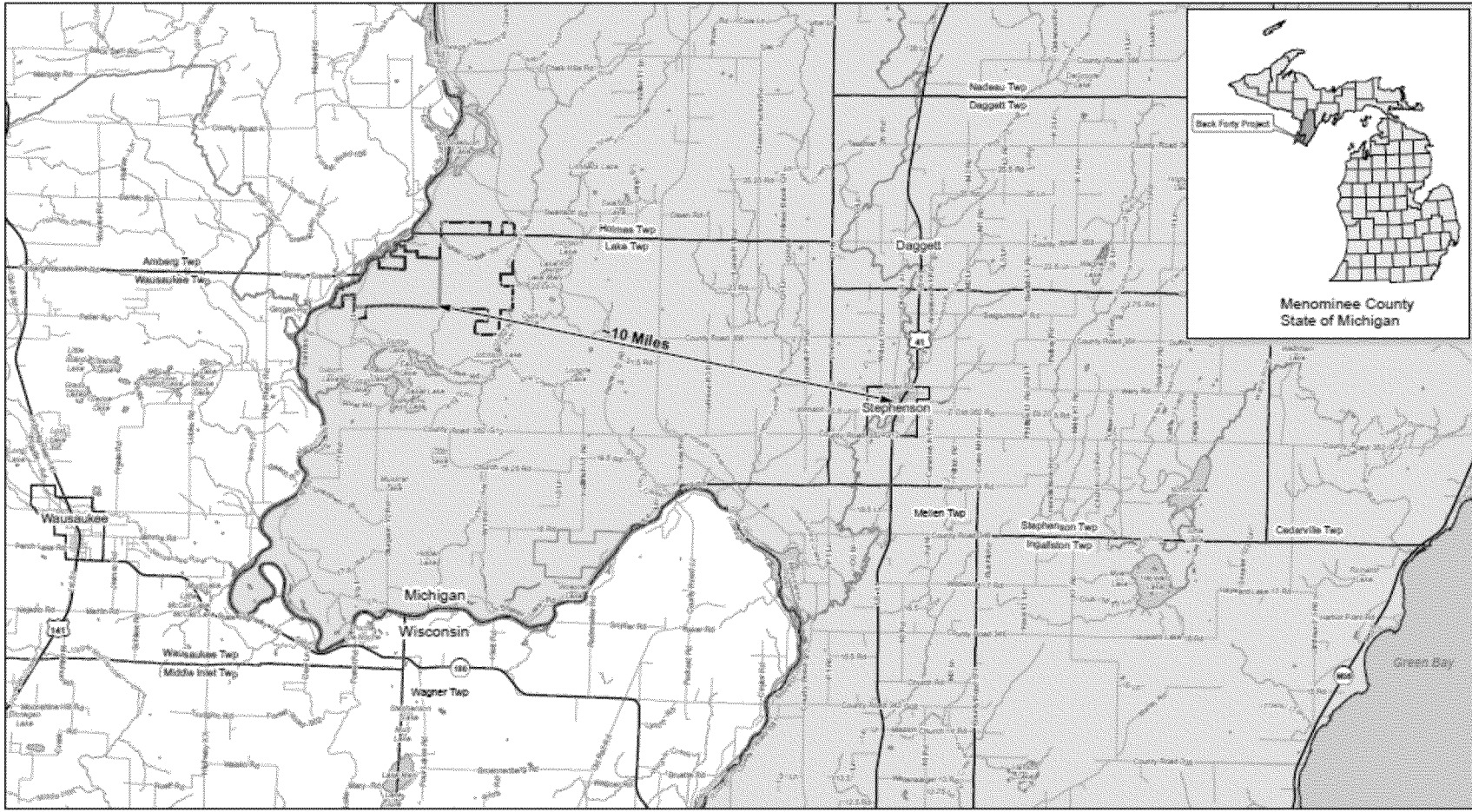


NOTES:

1. Road and boundary information downloaded from Michigan Center of Geographic Information (http://www.mcgi.state.mi.us/mgdi/).
2. Hydrographic features generated from Michigan Geographic Framework and the Wisconsin DNR 24K Hydro datasets.
3. Horizontal datum based on NAD 83. Horizontal coordinates based on UTM Zone 16N.

LEGEND

- Major Road
- Minor Road
- Streams
- Lakes/Rivers
- Minor Civil Division Boundary
- Proposed Preservation Parcel
- Mineral Property Boundary
- Project Boundary

Aquila Resources Inc.

Foth

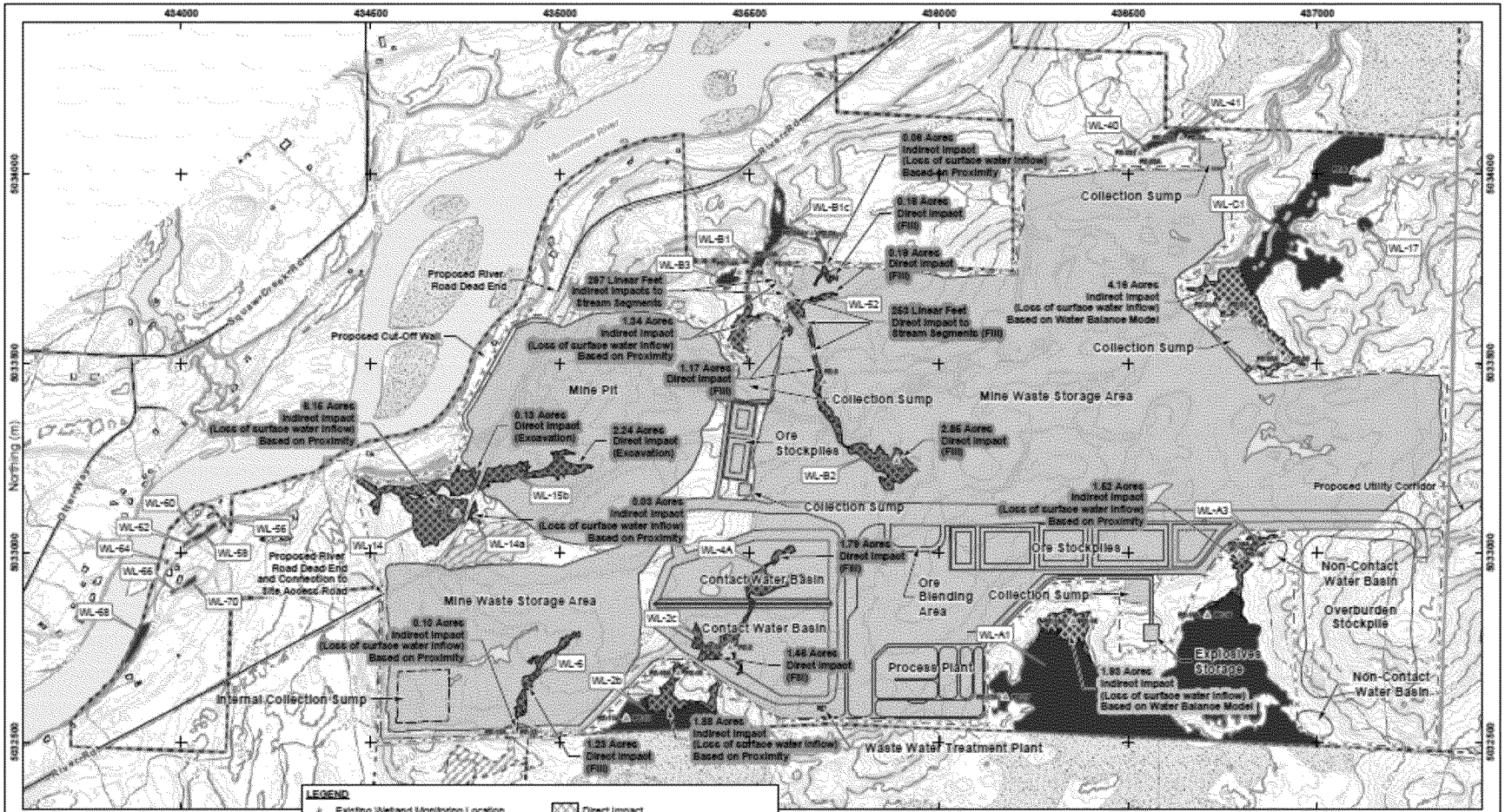
Foth Infrastructure & Environment, LLC			
REVISED:	DATE:	BY:	DESCRIPTION
PREPARED BY: MJV2			DATE: SEP. '17
REVIEWED BY: MAN			DATE: SEP. '17
APPROVED BY: KKB			DATE: SEP. '17

BACK FORTY PROJECT

FIGURE 4-1
PROJECT AREA LOCATION MAP
WETLAND PERMIT APPLICATION
STEPHENSON, MICHIGAN

Scale: 0 5,000 10,000 Feet | Date: SEPTEMBER 2017
Drafted by: DAT | Project No: 17A021

Path: X:\GB\B\2014\A14A021-00\GIS\mxd\WPA Aug 2017\Figure 4-1 Project Location.mxd Date: 9/15/2017



NOTES

1. Topographic and planimetric data provided by Aero-Metric, Inc., Sheboygan, WI. Date of Acquisition: LIDAR-October 31, 2007 and Imagery-May 14, 2008.
2. Horizontal datum based on NAD 1983. Horizontal coordinates based on UTM Zone 16 North. Topographic contours in meters.
3. Wetlands created from June 2017 field surveys supplied by King and MacGregor.
4. Updated facility features and pit design supplied by Lycopodium in August 2017.

LEGEND

- Existing Wetland Monitoring Location
- Existing Road
- Facility Features
- Proposed Fence
- Proposed Cut-Off Wall
- Treated Water Discharge Pipeline
- Field Identified Intermittent Stream Channel
- Contact Water Management Areas
- NWI Wetland
- Direct Impact
- Indirect Impact (Hydrology/Model - Based)
- Indirect Impact (Proximity - Based)
- Regulated Wetland
- Non-Regulated Wetland
- WL-40/41 Inferred Wetland
- WL-6 Field Determined Wetland
- Mineral Property Boundary
- Project Boundary

Aquila Resources Inc.

Foth

Foth Infrastructure & Environment, LLC			
REVISED	DATE	BY	DESCRIPTION
PREPARED BY: MJV2		DATE: OCT. '17	
REVIEWED BY: MAN		DATE: OCT. '17	
APPROVED BY: KKB		DATE: OCT. '17	

BACK FORTY PROJECT

FIGURE 3-1
WETLAND IMPACT SUMMARY (OPERATIONS)
WETLAND PERMIT APPLICATION
STEPHENSON, MICHIGAN

Scale: 0 400 800 Feet
Date: OCTOBER 2017
Drafted by: DAT
Project No: 17A021

Path: X:\0810\0\2014\14A021-00\09\Wrod\WPA Oct 2017 Addendum\Figure 3-1 Wetlands Impact Summary Operations.mxd Date: 10/20/2017