JANESVILLE SHINE SITE **ROCK RIVER** AIRIE SHINE UN-NAMED TRIBUTARY TO THE ROCK RIVER U.S. GEOLOGICAL SURVEY (USGS) 05430500 ROCK RIVER GAUGE AT AFTON, WI MILES SCALE

Figure 2.4-1 – SHINE Site in Relation to Rock River

LEGEND

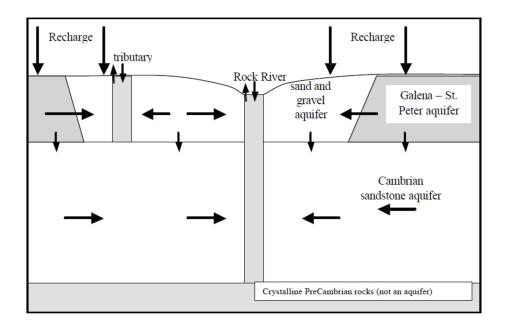
REFERENCES

0

SHINE SITE

WDNR, 1997a; WDNR, 1997b; WDNR, 1997c; WDNR, 1997d

Figure 2.4-2 – Schematic of the Flow System in Rock County



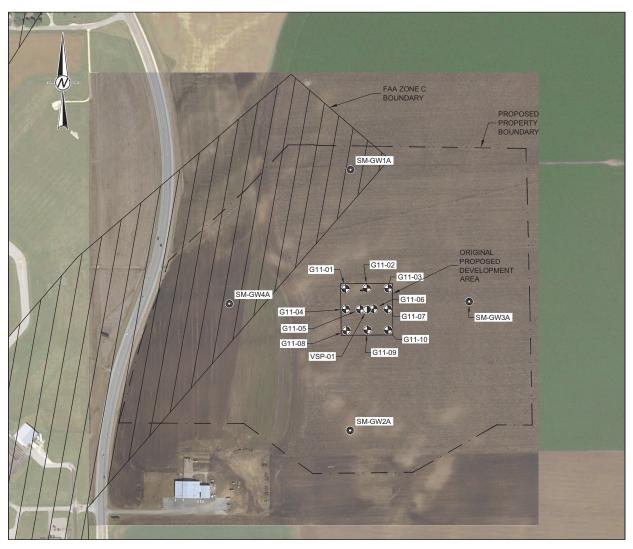
NOTE

1.) ARROWS INDICATE THE POTENTIAL FLOW DIRECTIONS

REFERENCE

1.) GAFFIELD ET AL., 2002.

Figure 2.4-3 – SHINE Site Groundwater Monitoring Wells



NOTES

- 1.) BOREHOLE AND WELL LOCATION LOCATIONS AS SURVEYED BY AYERS ASSOCIATES ON NOVEMBER 11, 2011.
- 2.) PROPOSED DEVELOPMENT AREA IS A SQUARE, MEASURING 316 FEET ON EACH SIDE.
- 3.) CENTER OF BUILDING OUTLINE PLACED WITHIN PROPOSED SITE POLYGON AS DIRECTED BY CLIENT.

REFERENCE

1.) USDA, 2011.

LEGEND

G11-08
BOREHOLE LOCATION AND DESIGNATOR

VSP-01

BOREHOLE LOCATION WITH 2 INCH PVC INSTALLED FOR

SEISMIC TESTING AND DESIGNATOR

SM-GW2A

WELL LOCATION AND DESIGNATOR



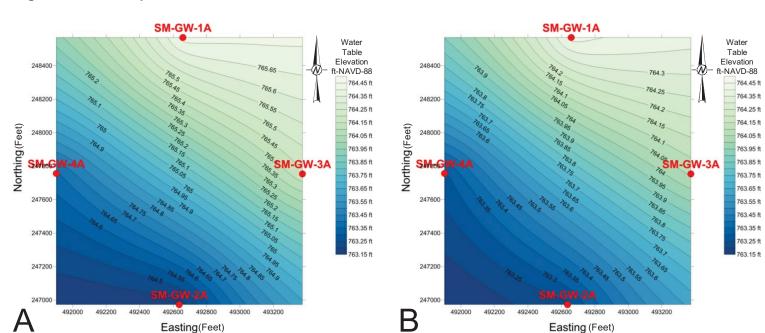
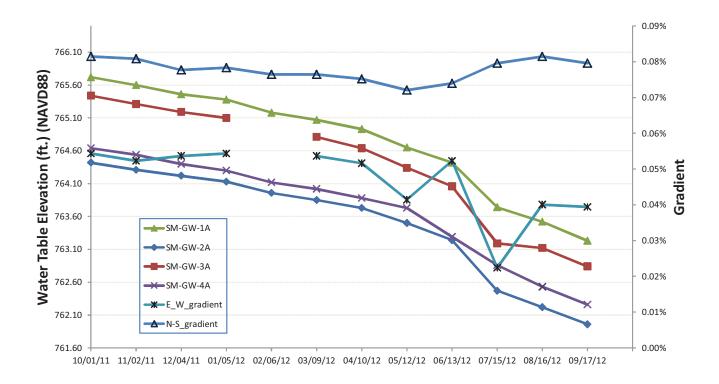


Figure 2.4-4 – Simplified Groundwater Table Contours Based on Measured Groundwater Elevations in Monitoring Wells

NOTES

- 1.) PLOT A BASED ON MEASUREMENTS FROM 10/26/2011.
- 2.) PLOT B BASED ON MEASUREMENTS FROM 06/12/2012.
- 3.) MAPS ARE JUST FOR VISUALIZATION PURPOSES. MAPS HAVE BEEN GENERATED BY SURFER DEFAULT PARAMETERS OF KRIGING

Figure 2.4-5 – SHINE Site Monitored Hydraulic Gradients



Janesville 0 767 [51] 0 755

Figure 2.4-6 – Piezometric Water Table Surface from 1958

LEGEND

SHINE SITE

MILES

REFERENCE

1.) LEROUX, 1963.

Lake Michigan RushLake Little Green Lake ake Emily Lake Redstone Fox Dake Sinissi pi Lake Pike4Lake Crystel Lake Pine4Lake **LEGEND** Lake Waubesa SHINE SITE Rome Pond Lake Kegonsa DAM LOCATION AND IDENTIFER Muskego Lake Tichigan Lake Indian Ford Yellowstane lake JANESVILLE (RM 177)
SOUTHERN WISCONSIN REGIONAL
AIRPORT / SITE (RM 172.5) LAKES (REGIONAL) .Eagle⊳Lake WATER (REGIONAL) Lake Ceneva AFTON USGS GUAGE (RM 172) 100 MILE RADIUS Lake Marie STATE BOUNDARY Crystal Lake Łake ⊈urich REFERENCE NATIONAL ATLAS OF THE US AND USGS, 2004a; NATIONAL ATLAS OF THE US AND USGS, 2004b; WDNR, 2012a Orland Lake Mississippi River NOTE

Figure 2.4-7 – SHINE Site Vicinity Hydraulic Features

1.) RIVER MILES (RM) ARE BASED ON UPSTREAM DISTANCES ALONG ROCK RIVER FROM CONFLUENCE OF THE MISSISSIPPI RIVER.

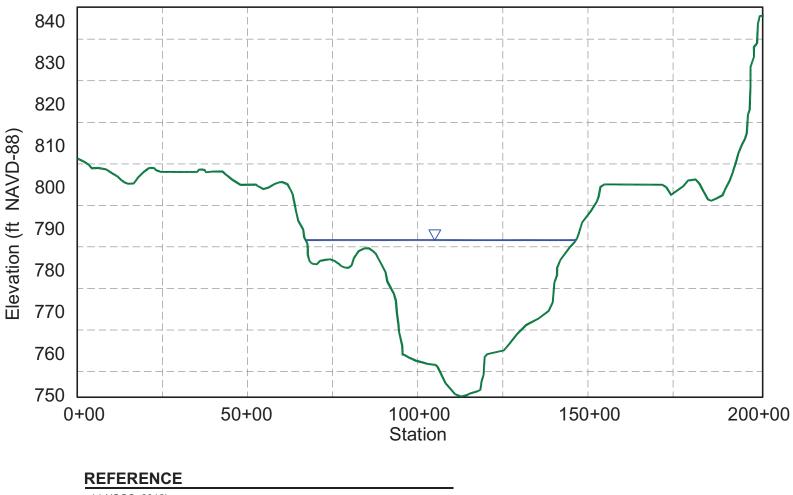


Figure 2.4-8 – Rock River Cross-Section Used in PMF Calculation

1.) USGS, 2012b.

Indianford Indian Ford Willie O'Pend SHINE SITE Upper Janesville Monteray **ROCK RIVER** SHINE SITE MILES

Figure 2.4-9 – Dam Locations in Vicinity of SHINE Site

LEGEND

REFERENCES

SHINE SITE

WDNR, 1980; WDNR, 1981; WDNR, 2012a

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DAM LOCATION AND IDENTIFER

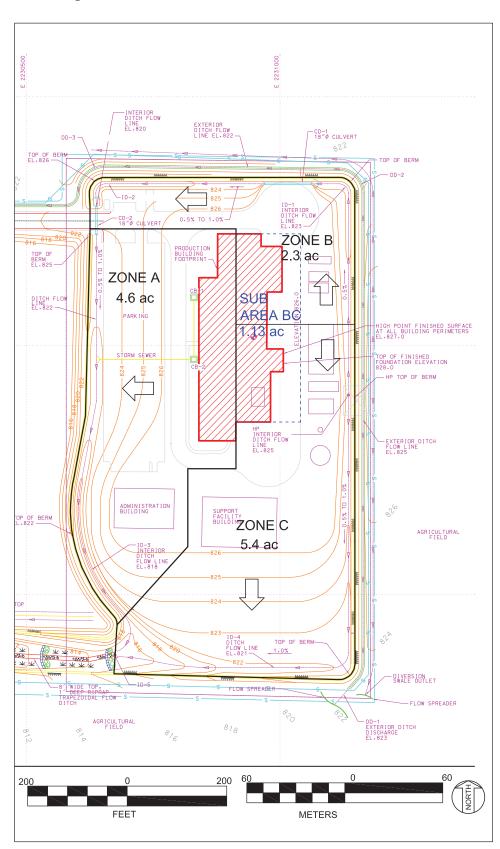


Figure 2.4-10 - Plan - PMP Zones for SHINE Site Area

Figure 2.4-11 – Plan – Off-Site Drainage Area Delineation

