

2320

VARIANCE / FIELD CHANGE NOTICE	Significant? Yes (Yes or No):	V/F No. LMS-FER-S03496-5.0-02
---------------------------------------	-------------------------------	-------------------------------

DOCUMENT NO: LMS-FER-S03496-5.0-02	Page 1 of 1
Date: 09-20-2012	

DOCUMENT TITLE:
 Comprehensive Legacy Management and Institutional Controls Plan (LMICP), Rev. 5.0
 Volume II, Attachment A – Operations and Maintenance Master Plan

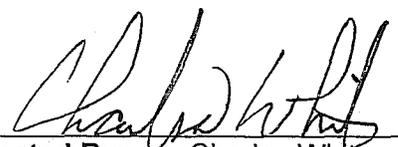
VARIANCE / FIELD CHANGE NOTICE (Include justification)

Current Requirement: Attachment A (Operations and Maintenance Master Plan), Section 4.1 discusses extraction well pumping rates from the Great Miami Aquifer at the Fernald Preserve.

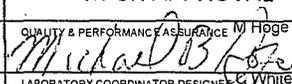
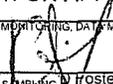
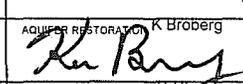
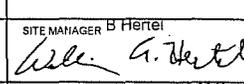
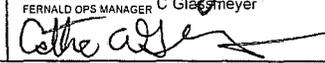
Variance: Pulse pumping of four extraction wells commenced on September 12, 2012 at Extraction Wells EW-18, EW-19, EW-20, and EW-25. As such, the following text will be added as the third paragraph of Section 4.1 on page 4-1:

For pulse pumping operations, the extraction rate and duration of pumping will assure the capture of the 30 µg/L uranium plume is maintained and that 24-hour volumes planned for removal under the WSA Phase II design (DOE 2005b) are achieved. For example, a 110 gpm well pumping for 24 hours a day will remove 158,400 gallons in 24 hours. Selection of a pulse pumping rate and time will also be based on removing 158,400 gallons in a 24-hour time period. Pulse pumping operation instructions will be issued and documented through the use of Operation Work Instructions.

Justification: Verbal concurrence to pulse pump these four wells was received from the Ohio EPA on August 30, 2012 and from the US EPA on September 5, 2012. Per the regulator approved aquifer remediation design, these four wells are operated at 100 gpm for 24 hours/day. When the four wells were installed, pumps and motors were sized to provide a range of pumping options, but are most energy efficient when operated at a rate of approximately 300 gpm. Rather than continue to pump the wells at 100 gpm for 24 hours/day, the wells will be pumped at ~300 gpm for ~8 hours per day to achieve better energy efficiency. Pumping these four wells at 300 gpm for 8 hours/day will maintain capture of the uranium plume and also maintain regulator approved aquifer remediation design withdrawal volumes.



Requested By: Charles White **Date:** 09-20-2012

X IF REQD	V/FCN APPROVAL	DATE	X IF REQD	V/FCN APPROVAL	DATE
X	<small>QUALITY & PERFORMANCE ASSURANCE M. Hodge</small>  <small>LABORATORY COORDINATOR DESIGNER C. White</small>	9-27-12	X	<small>ENVIRONMENTAL MONITORING, DATA MANAGEMENT & REPORTING</small> <small>K. Voisard</small> 	9-27-12
X	<small>AQUIFER RESTORATION K. Broberg</small> 	9/27/12	X	<small>SITE MANAGER B. Fierel</small> 	10/1/2012
X	<small>FERNALD OPS MANAGER C. Glasmeier</small> 	10/1/12		<small>ENVIRONMENTAL COMPLIANCE M. Sizemore</small> 	

REVISION REQUIRED (Document No. & Title): see above
 YES NO

DISTRIBUTION: Records Management, US EPA, & Ohio EPA