



Department of Energy

Portsmouth/Paducah Project Office
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August 11, 2026

Ms. Grace Stutler
Site Coordinator
Ohio Environmental Protection Agency
Southeast District Office
2195 E. Front Street
Logan, Ohio 43138

PPPO-03-10038028-26

Dear Ms. Stutler:

LETTER REQUEST TO CONDUCT GROUNDWATER WELL ABANDONMENTS ASSOCIATED WITH THE INDUSTRIAL REUSE AREAS OF THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO

In accordance with the provisions of *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (D&D DFF&O) (Ohio EPA 2012), the U.S. Department of Energy (DOE) is requesting concurrence from Ohio Environmental Protection Agency (Ohio EPA) to proceed with the abandonment of 60 groundwater wells within the footprint of the Industrial Reuse Areas associated with the construction of the planned data center. The 60 groundwater wells are listed in Table 1 and shown on Figure 1. Note that 27 of the 60 groundwater wells identified on Table 1 are included in the *Integrated Groundwater Monitoring Plan for the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (IGWMP) and currently sampled as specified in the IGWMP.

DOE's Portsmouth Gaseous Diffusion Plant (PORTS) Decontamination and Decommissioning (D&D) prime contractor and subcontractors will perform the groundwater well abandonment activities. Groundwater wells located within the footprint of the Industrial Reuse Areas will be abandoned in accordance with applicable site procedures and the *Technical Guidance Manual for Hydrogeologic Investigations and Ground Water Monitoring*, Chapter 9, "Sealing Boreholes and Decommissioned Monitoring Wells" (Ohio EPA 2016). DOE's D&D Contractor's drilling subcontractor will electronically file the Ohio Department of Natural Resources Water Well Sealing Report for each abandoned well as required by Ohio Revised Code 1521.05, *Well construction logs - well sealing reports*. The well construction materials (e.g., riser, protective casing, and concrete pads) will be removed at the time of well abandonment and size-reduced as needed for effective waste management. The wells will be over-drilled, and the boreholes will be grouted to the surface. The concrete pads, bollards (if present), and protective casings will be removed.

The waste debris and any residual soil, may be placed in a debris pile on plastic sheeting in the surrounding area. If any waste debris size reduction is required to meet On-Site Waste Disposal Facility (OSWDF) waste acceptance criteria (WAC), it is anticipated to be performed in the

immediate vicinity of the well abandonment project area. The resulting size-reduced materials will be disposed of in the OSWDF as Type 2 waste or alternatively shipped off site for disposal. Waste debris destined for on-site disposal will be loaded into transfer trucks for placement in the OSWDF.

As an initial step in establishing the site area for construction of the planned data center and associated new infrastructure, these well abandonments will be performed before excavation of the remaining groundwater plumes, landfills, deferred units, utilities, or demolition of buildings and structures located within the Industrial Reuse Areas. Ohio EPA's concurrence of this Letter Request will allow the field work to begin for physically removing and sealing the wells, thereby facilitating timely completion of the well abandonment process. Not all wells will be abandoned at one time, but in phases as dictated by the schedule of the field projects to release land required by specific data center buildings or infrastructure. Removal of wells in the X-749A and X-740 areas will result in the removal of most or all of the IGWMP monitoring wells for these areas. The X-749A and X-740 IGWMP monitoring wells will not be removed until work in the associated area is about to begin, so that monitoring of each area will continue until the area is removed (X-749A Landfill) or otherwise affected (X-740 excavation area).

After completion of several planned and ongoing remediation projects within the Industrial Reuse Areas, a follow-on regulatory mechanism may be necessary to evaluate the groundwater conditions in the areas associated with the former remediation projects (i.e., demolition and soil excavation projects). Once those remediation projects are complete, DOE will discuss with Ohio EPA, in a collaborative decision-making approach, the potential scope for a comprehensive revision of the IGWMP, which may include installation of several new groundwater monitoring wells and the associated requirements for sampling, analysis, and reporting.

All well abandonment activities will be reported in the D&D DFF&O Quarterly Progress Reports and IGWMP well removals will also be documented in the Environmental Restoration Monthly Technical Progress Reports. Potential needs for any replacement wells will be identified through future Environmental Restoration Monthly Technical Progress Reports, annual groundwater monitoring reports, or other means.

If you have any questions or require additional information, please contact Ryan Callihan of my staff at (740) 897-2835.

Sincerely,

**ANNETTE
BROWN**

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Christy Brown
Alternate Site Coordinator
Portsmouth/Paducah Project Office

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**Table 1. Groundwater Monitoring Wells to be Abandoned
Within the Footprint of the Industrial Reuse Areas**

Well name	IGWMP (Yes/No)	Purpose (Program/Type of Well)
F-14B	No	GWQA
F-15G	No	GWQA
F-16B	No	GWQA
F-17G	No	GWQA
F-18B	No	GWQA
X700-03G	Yes	Plume extent
X701-27G	Yes	Plume extent
X701-28GA	Yes	Plume extent
X701-30G	Yes	Plume extent
X701-31G	Yes	Plume extent
X701-46G	No	GWQA
X710-01G	Yes	Plume extent
X710-02M	No	RFI
X710-03G	No	RFI
X710-04G	No	RFI
X710-05G	No	RFI
X710-06G	No	RFI
X710-07G	No	RFI
X710-09B	No	RFI
X720-04G	No	RFI
X720-05B	No	RFI
X720-07G	No	RFI
X740-24B	Yes	CM monitoring
X740-25G	Yes	CM monitoring
X740-26B	Yes	CM monitoring
X740-27G	Yes	CM monitoring
X740-28G	Yes	CM monitoring
X740-29G	Yes	CM monitoring
X740-30G	Yes	CM monitoring
X744G-01G	Yes	Plume extent
X744G-02G	Yes	Plume extent
X744G-03G	Yes	Plume extent
X744G-04B	No	RFI

**Table 1. Groundwater Monitoring Wells to be Abandoned
Within the Footprint of the Industrial Reuse Areas
(Continued)**

Well name	IGWMP (Yes/No)	Purpose (Program/Type of Well)
X746-01G	No	Additional SWMU Investigation (2002)
X746-02G	No	Monitoring Well
X746-03G	No	Monitoring Well
X747F-01G	No	RFI
X747F-02G	No	RFI
X747F-03G	No	RFI
X749A-01G	No	Legacy
X749A-02G	Yes	Post-closure monitoring
X749A-03G	Yes	Post-closure monitoring
X749A-04G	Yes	Post-closure monitoring
X749A-05G	No	Legacy
X749A-06G	No	Legacy
X749A-07G	Yes	Post-closure monitoring
X749A-09G	Yes	Plume extent
X749A-11G	No	Legacy
X749A-12G	Yes	Post-closure monitoring
X749A-13G	No	Legacy
X749A-13GA	No	Legacy
X749A-14G	Yes	Post-closure monitoring
X749A-15G	No	Closure
X749A-16G	Yes	Post-closure monitoring
X749A-17G	Yes	Post-closure monitoring
X749A-18G	Yes	Post-closure monitoring
X749A-19G	Yes	Post-closure monitoring
X750-MW02	No	UST
X750-MW03	No	UST
X750-MW04	No	UST

Notes:

CM = Corrective measures

GWQA = *Ground-Water Quality Assessment of Four RCRA Units for the Portsmouth Gaseous Diffusion Plant*, Martin Marietta Energy Systems, Piketon, Ohio, 1989.

IGWMP = *Integrated Groundwater Monitoring Plan for the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*, DOE/PPPO/03-0032&D12, U.S. Department of Energy, Piketon, Ohio, May, 2024.

RFI = RCRA Facility Investigation

SWMU = solid waste management unit

UST = underground storage tank

**Figure 1. Active Groundwater Monitoring Wells to be Abandoned**