

Year	East End Site
2007	<ul style="list-style-type: none"> • In summer, began initial soil and groundwater investigations on “West Parcel” based on historical review of MGP operations and proposed residential development on western adjoining property to generally assess environmental conditions. Work included test pits, NAPL (tars and oils) fingerprinting and a geophysical survey of the tar lagoon. • Investigation extended to “East Parcel” based on historical review of MGP operations and proposed residential development on eastern adjoining property.
2008	<ul style="list-style-type: none"> • Additional forensic analysis of NAPL (tars and oils) samples. • Development of VAP approach to addressing contamination at site. • Commencement of VAP Phase I Property Assessment on East Parcel and West Parcel. • Indoor air sampling in buildings at East End related to MGP contamination.
2009	<ul style="list-style-type: none"> • Performed VAP Phase II Property Assessment work on East Parcel and West Parcels. • Continued groundwater monitoring at site. • Development of Human Health Risk Assessment in accordance with VAP. • Evaluation of options for remediation and preparation of Remedial Action Plan (RAP) for East Parcel and West Parcel.
2010	<ul style="list-style-type: none"> • Design work for implementation of RAP for East and West Parcels. • Development of Ambient Air Monitoring Plan for remedial work. • Obtained permits for remedial activities from Ohio EPA and City of Cincinnati and bond to secure work required by City. • Began remedial activities at West Parcel.
2011	<ul style="list-style-type: none"> • Continued remedial activities, which included excavation on West Parcel, and excavation and ISS on East Parcel. • Duke Energy Ohio acquired the “Purchased Parcel” from DCI Properties, Inc. (“DCI”) and began soil sampling in the “Area West of the West Parcel” as an extension of work on the West Parcel. • VAP Phase I Property Assessment on “Middle Parcel.” • VAP Phase I Property Assessment of Purchased Parcel.
2012	<ul style="list-style-type: none"> • Completed excavation on West Parcel. • Completed excavation and ISS on East Parcel. • Performed VAP Phase II Property Assessment on Middle Parcel, including soil sampling, NAPL delineation and groundwater monitoring. • Began VAP Phase II Property Assessment on the Purchased Parcel. • Completion of West Parcel Remediation Construction Summary Report.
2013	<ul style="list-style-type: none"> • Continued Phase II Property Assessment soil and groundwater sampling on Middle Parcel, including installation of additional wells. • Continued VAP Phase II Property Assessment soil and groundwater sampling on the Purchased Parcel (which was later refined to include only what became known as the “Riverside Drive Property” a/k/a “Keck Street Property”).

	<ul style="list-style-type: none"> • Requested Technical Assistance from Ohio EPA related to the Riverside Drive Parcel, which was determined to not have MGP impacts based on VAP Phase II Property Assessment of Purchased Parcel. • Performed initial remedial activities in areas where Duke Gas Department was planning to install new vaporizers (West Parcel) and where new gas line was anticipated (East Parcel).
2014	<ul style="list-style-type: none"> • Performed a forensic analysis on DNAPL (tars and oils) in deep wells. • Continued performance of groundwater monitoring across the East End site. • Completion of VAP Phase II Property Assessment report on Middle Parcel, which included identifying remedial technologies to be implemented on the Middle Parcel and the portion of the Purchased Parcel, referred to as the “Area West of the West Parcel,” where MGP contaminants were present in concentrations that exceeded applicable standards. • Completed Focused Remedial Alternatives Analysis (RAA) Report on the Middle Parcel and the Area West of the West Parcel.
2015	<ul style="list-style-type: none"> • Began Pre-Design Investigation for remediation focused on the Middle Parcel and Area West of the West Parcel. • Initiated Remedial Design for Middle Parcel and Area West of the West Parcel. • Continued groundwater sampling across East End site.
2016	<ul style="list-style-type: none"> • Completed Pre-Design Investigation for remediation focused on the Middle Parcel and Area West of the West Parcel, including investigation of SBK01/02 in the Area West of the West Parcel. • Completed Remedial Design for Middle Parcel and Area West of the West Parcel. • Obtained all necessary permits for the remediation work in Middle Parcel and Area West of the West Parcel. • Performed excavation and ISS in Phase 1 Area (Middle Parcel) and Phase 2 Area (Area West of the West Parcel). • Continued groundwater sampling across East End site.
2017	<ul style="list-style-type: none"> • Completed soil excavation, ISS and backfilled the Phase 2 Area (Area West of the West Parcel) in July 2017. • Installed shoring in Phase 3 Area (Middle Parcel). • High Pressure Gas Line “E” taken out of service in Phase 3 Area (Middle Parcel). • Began excavation and ISS activities in Phase 3 Area (Middle Parcel). • Continued groundwater sampling and further evaluation of NAPL conditions across the East End site. • Prepared work plan for sediment investigation in Ohio River at the East End site.
2018	<ul style="list-style-type: none"> • Completed excavation and ISS activities in Phase 3 Area (Middle Parcel). • Installed shoring in Phase 4 Area (Middle Parcel). • Initiated excavation and ISS activities in Phase 4 Area (Middle Parcel). • Initiated excavation and ISS activities in Phase 5 Area (Middle Parcel). • Completed excavation and ISS activities in Phase 6 Area (Middle Parcel). • Initiated top of riverbank soil investigation along the upland border at the East End site.

	<ul style="list-style-type: none"> Continued groundwater sampling and further evaluation of NAPL conditions across the East End site. Initiated next phase of sediment investigation in the Ohio River at the East End Site.
2019	<ul style="list-style-type: none"> Completed excavation and ISS activities in Phase 4 Area (Middle Parcel). Completed excavation and ISS activities in Phase 5 Area (Middle Parcel). Completed restoration (<i>i.e.</i>, grading, seeding, installing gravel base, and repaving) of the Middle Parcel and Area West of the West Parcel. Continued groundwater sampling and further evaluation of NAPL conditions across the East End site. Performed TarGOST sediment investigation and installed sediment borings in Ohio River at the East End site. Installed an organoclay-impregnated Reactive Core Mat (RCM) placed on an approximately 4-inch thick layer of Aquagate Organoclay on the riverbank as a limited remedial measure to mitigate MGP impacts near the river. Prepared Remedial Design Package for areas that are inaccessible due to sensitive underground infrastructure and propane peaking facilities in operation; these will be Phase 7 and Phase 8 Areas. Installed soil borings along the bottom of the riverbank.

Year	West End Site
2009	<ul style="list-style-type: none"> Notified by ODOT and KY DOH that preferred route for the new Brent Spence Bridge Corridor Project crosses part of the West End site. The preferred route would require, among other things, the relocation of a major electric substation and other structures on the West End site. Began collecting background information on site.
2010	<ul style="list-style-type: none"> Conducted VAP Phase I Property Assessment of the entire West End site. Conducted VAP Phase II Property Assessment involving soil and groundwater investigation on accessible portions of West End site. Continued groundwater monitoring across West End site. Performed Pre-Design Investigation of subsurface conditions for remedial activities. Obtained permits for remedial activities from Ohio EPA and City of Cincinnati for performance of the remedial action.
2011	<ul style="list-style-type: none"> Began implementation of remedial activities on Phase 1 and Phase 2 Areas. Performed excavation and off-site disposal of MGP impacted materials in Phase 1 Area. Began ISS and backfilling of Phase 1 Area. Performed Tar-specific Green Optical Screening Tool (TarGOST) investigations to assess the extent of tar-like material (TLM) and oil-like material (OLM) in the subsurface for remedial action in Phase 1 Area. Performed asphalt milling and demolition activities in Phase 2 Area.

	<ul style="list-style-type: none"> • Performed excavation and off-site disposal of MGP impacted materials in Phase 2 Area. • Continued performance of groundwater monitoring across the site.
2012	<ul style="list-style-type: none"> • Performed Pre-Design Investigation for remediation of the Phase 2A area and Geotechnical Supplemental Investigation needed for design of earth retention system. • Performed PCB investigation in southwest corner of Phase 2A Area to define limits of PCB-impacted materials that were required to be removed and managed separately from the remainder of the MGP impacted materials. • Performed TarGOST investigation of Phase 2A Area and Phase 3 Area. • Completed ISS and backfilling for Phase 1 Area. • Performed jet grouting on Phase 2 Area (to treat areas impacted with TLM/OLM that could not be accessed with auger during ISS activities). • Began ISS and backfilling for Phase 2 Area. • Excavated and disposed of MGP-impacted materials in Phase 2A Area.
2013	<ul style="list-style-type: none"> • Performed jet grouting in Phase 2A Area (to treat areas impacted with TLM/OLM that could not be accessed with auger during ISS activities) and backfilling. • Conducted remediation of areas where new electrical equipment would be installed to replace equipment that would be impacted by the construction of the new Brent Spence Bridge (“BSB”) Corridor Project. • Obtained permits and authorizations and perform limited sediment sampling to evaluate whether MGP impacts may be present in areas of the Ohio River associated with the West End site and in the footprint of proposed bridge. Work included forensic evaluation of selected sediment samples. • Continued performance of groundwater monitoring across the West End site.
2014	<ul style="list-style-type: none"> • Completed Remedial Action Completion Report for Phase 1, 2, and 2A Area. • Continued performance of groundwater monitoring. • Performed soil assessment along the eastern side of the Brent Spence Bridge right-of-way in the location of a new gas line which was expected to be installed in June 2015. • Conducted limited sediment investigation in the proposed new Brent Spence Bridge location.
2015	<ul style="list-style-type: none"> • Installed three additional monitoring wells on the northern “Front and Rose Parcel” to further evaluate groundwater impacts in that area of the site and conducted groundwater monitoring across the West End site.
2016	<ul style="list-style-type: none"> • Continued groundwater sampling and further evaluation of NAPL conditions across the entire West End site.
2017	<ul style="list-style-type: none"> • VAP Phase II Property Assessment of Phase 3 Area (areas that were not previously accessible, including under eastern substation and area on north side of Mehring Way) and Tower Areas. • Completed Remedial Alternatives Analysis Report for the Phase 3 and Tower Areas. • Continued groundwater sampling and further evaluation of NAPL conditions across the West End site.

	<ul style="list-style-type: none">• Initiated sediment and surface water investigation in the Ohio River portion of the West End site.
2018	<ul style="list-style-type: none">• Developed remediation design package for the Phase 3 and Tower Areas.• Developed Ambient Air Monitoring Plan for remedial activities.• Obtained all necessary permits for remedial activities.• Obtained bids from contractors for the remedial activities in the Phase 3 and Tower Areas.• Completed the VAP Phase II Property Assessment of Phase 4 Area at the West End site.• Continued groundwater sampling and further evaluation of NAPL conditions across the West End site.• Continued sediment and surface water investigation in the Ohio River portion of the West End site.
2019	<ul style="list-style-type: none">• Completed excavation and ISS activities in the Phase 3 Area.• Completed excavation activities in the Tower Area.• Continued groundwater sampling and further evaluation of NAPL conditions across the West End site.• Initiated next phase of Ohio River sediment sampling and toxicity analysis at the West End site.