



Electric Energy, LLC
 1500 Eastport Plaza Dr.
 Collinsville, IL 62234

November 2, 2023

Illinois Environmental Protection Agency
 DWPC – Permits MC #15
 Attn: Part 845 Coal Combustion Residual Rule Submittal
 1021 North Grand Avenue East
 Springfield, IL 62794

Re: Notification to Owners and Residents of Exceedance of Boron in Groundwater
 East Ash Pond, Joppa Power Plant, Joppa Illinois
 Compliance with 35 I.A.C. § 845.650(d)(2)

While conducting groundwater sampling, EEI identified exceedances of the boron groundwater protection standard (of 2.0 mg/L) underlying both the Joppa Power Plant facility and potentially migrating offsite. In accordance with 35 I.A.C. § 845.650(d)(1), we delineated the plume and in May of this year, pursuant to 35 I.A.C. § 845.650(d)(2), we notified all persons who own the land or reside on the land directly overlying the off-site plume. The following properties overlie the plume, and the owners and residents of those properties were sent the letter included with this correspondence and labelled as Attachment A:

PIN	Parcel No.	Site Address (when available)
04-14-200-045	414200045	1051 Joppa North Avenue, Metropolis, IL 62960
04-14-222-007	414222007	750 & 760 Joppa North Ave, Joppa, IL 62953
04-14-225-002	414225002	900 Joppa North Ave, Joppa, IL 62953
04-14-226-001	414226001	940 Joppa North Ave, Metropolis, IL 62960
04-14-400-019	414400019	P.O. Box 10, Joppa, IL 62953
04-14-400-026	414400026	850 Joppa North Ave, Joppa, IL 62953
04-14-401-003	414401003	507 Washington Ave, Joppa, IL 62953
04-14-401-008	414401008	635 Washington Ave, Joppa, IL 62953
04-14-419-003	414419003	411 Joppa North Ave, Joppa, IL 62953
04-14-420-009	414420009	414 Joppa North Ave, Joppa, IL 62953
04-14-421-009	414421009	630 Joppa North Ave, Joppa, IL 62953
04-14-423-002	414423002	745 Joppa North Ave, Joppa, IL 62953
04-14-423-004	414423004	174 Blasdel Dr, Joppa, IL 62953
04-14-424-004	414424004	815 Joppa North Ave, Joppa, IL 62953
04-14-441-011	414441011	189 Blasdal Dr, Joppa, IL 62953
04-14-441-013	414441013	199 Little Ave, Joppa, IL 62953
04-23-102-024	423102024	215 Main St, Joppa, IL 62953
04-23-112-004	423112004	226 Pope Ave, Joppa, IL 62953
04-23-112-005	423112005	234 Pope Ave, Joppa, IL 62953
04-23-112-007	423112007	229 S North Ave, Joppa, IL 62960
04-23-112-009	423112009	212 & 218 Pope Ave, Joppa, IL 62953

PIN	Parcel No.	Site Address (when available)
04-23-113-007	423113007	125 Church Street, Joppa, IL 62953
04-23-115-001	423115001	221 Pope St, Joppa, IL 62953
04-23-115-002	423115002	311 Pope St, Joppa, IL 62953
04-23-113-003	423113003	122 Church St, Joppa, IL 62953
04-14-225-004	414225004	924 Joppa North Ave, Joppa, IL 62953
04-14-225-005	414225005	920 Joppa North Ave, Joppa, IL 62953
04-23-111-004	423111004	211 Pope Ave, Joppa, IL 62953
04-14-200-052	414200052	1059 Joppa North Avenue, Metropolis, IL 62960
04-14-227-003	414227003	173 Rickard St, Joppa, IL 62953
04-14-227-004	414227004	N/A
04-14-419-002	414419002	401 Joppa North Ave, Joppa, IL 62953
04-14-421-002	414421002	628 Joppa North Ave, Joppa, IL 62953
04-14-421-005	414421005	650 Joppa North Ave, Joppa, IL 62953
04-14-421-010	414421010	540 Joppa North Ave, Joppa, IL 62953
04-14-423-022	414423022	725 Joppa North Avenue, Joppa, IL 62953
04-14-423-023	414423023	176 Blasdel Drive, Joppa, IL 62953
04-14-424-006	414424006	801 Joppa North Ave, Joppa, IL 62953
04-14-441-023	414441023	860 Lowery Ave, Joppa, IL 62953
04-14-441-024	414441024	850 Lowery, Joppa, IL 62953
04-14-441-030	414441030	185 Blasdel Dr, Joppa, IL 62953
04-23-102-003	423102003	235 Main St, Joppa, IL 62953
04-23-102-005	423102005	255 Main St, Joppa, IL 62953
04-23-102-006	423102006	N/A
04-23-102-027	423102027	137 Main St, Joppa, IL 62953
04-23-111-006	423111006	225 Copeland, Joppa, IL 62953
04-23-111-009	423111009	235 Pope Ave, Joppa, IL 62953
04-23-112-001	423112001	130 Church St, Joppa, IL 62953
04-23-112-006	423112006	242 Pope Ave, Joppa, IL 62953
04-23-113-002	423113002	175 Joppa North Ave, Joppa, IL 62953
04-23-113-005	423113005	149 Joppa North Ave, Joppa, IL 62953
04-23-114-010	423114010	N/A
04-23-114-012	423114012	153 Bradley St, Joppa, IL 62953
04-23-114-014	423114014	300 Pope Ave, Joppa, IL 62953
04-23-114-016	423114016	237 Joppa North Ave, Joppa, IL 62953
04-23-114-017	423114017	319 Joppa North Avenue, Joppa, IL 62953
04-14-227-002	414227002	4029 Long Rd, Joppa, IL
04-14-222-001	414222001	700 Joppa North Ave, Joppa, IL 62953
04-14-421-006	414421006	N/A
04-14-421-007	414421007	N/A
04-14-222-002	414222002	720 Joppa North Ave, Joppa, IL 62953
04-14-222-003	414222003	730 Joppa North Ave, Joppa, IL 62953
04-14-222-004	414222004	740 Joppa North Ave, Joppa, IL 62953

PIN	Parcel No.	Site Address (when available)
04-14-225-001	414225001	N/A
04-14-400-035	414400035	413 Joppa North Ave, Joppa, IL 62953
04-23-101-002	423101002	140 Main St, Joppa, IL 62953
04-23-101-003	423101003	N/A
04-23-101-004	423101004	160 Main St, Joppa, IL 62953
04-23-101-004	423101004	160 Main St, Joppa, IL 62953
04-23-113-009	423113009	N/A
04-23-113-011	423113011	N/A
04-14-400-027	414400027	176 Rickard, Joppa, IL 62953
04-14-423-021	414423021	727 Joppa North Ave., Joppa, IL 62953
04-14-401-004	414401004	515 Washington Ave, Joppa, IL 62953
04-14-401-005	414401005	603 Washington Ave, Joppa, IL 62953
04-14-401-006	414401006	611 Washington Ave, Joppa, IL 62953
04-14-401-007	414401007	619 Washington Ave, Joppa, IL 62953
04-14-404-001	414404001	N/A
04-14-421-003	414421003	640 Joppa North Ave, Joppa, IL 62953
04-14-421-008	414421008	N/A
04-14-441-008	414441008	188 Little Ave, Joppa, IL 62953
04-14-441-021	414441021	N/A
04-14-441-010	414441010	211 Little St, Joppa, IL 62953
04-14-441-041	414441041	N/A
04-23-102-002	423102002	225 Main St, Joppa, IL 62953
04-23-111-008	423111008	N/A
04-23-115-006	423115006	N/A
04-23-102-004	423102004	247 Main St, Joppa, IL 62953
04-23-200-013	423200013	N/A
04-23-111-004	423111004	211 Pope Ave, Joppa, IL 62953
04-23-111-005	423111005	207 Pope Ave, Joppa, IL 62953
04-14-100-005	414100005	N/A
04-23-200-014	423200014	N/A
04-14-225-003	414225003	910 Joppa North Ave, Joppa, IL 62953
04-14-400-003	414400003	N/A
04-14-400-032	414400032	N/A
04-14-419-001	414419001	405 Joppa North Ave, Joppa, IL 62953
04-14-420-001	414420001	101 Joppa Rd, Joppa, IL 62953
04-14-420-002	414420002	N/A
04-14-420-006	414420006	406 Joppa North Ave, Joppa, IL 62953
04-14-420-008	414420008	N/A
04-14-424-001	414424001	825 Joppa North Ave, Joppa, IL 62953
04-14-424-005	414424005	187 Blasdel Dr, Joppa, IL 62953
04-14-441-033	414441033	210 Blasdel Dr, Joppa, IL 62953
04-23-102-014	423102014	108 Pope St, Joppa, IL 62953

PIN	Parcel No.	Site Address (when available)
04-23-102-015	423102015	110 Pope Ave, Joppa, IL 62953
04-23-113-004	423113004	120 Church St, Joppa, IL 62953
04-23-114-013	423114013	N/A
04-14-228-001	414228001	N/A
04-14-420-010	414420010	N/A
04-14-441-039	414441039	830 Lowery St, Joppa, IL 62953
04-23-102-025	423102025	135 Pope St, Joppa, IL 62953
04-23-111-007	423111007	N/A
04-23-112-008	423112008	N/A
04-23-113-010	423113010	N/A
04-23-114-009	423114009	N/A
04-23-114-011	423114011	332 Pope St, Joppa, IL 62953
04-23-114-015	423114015	113 Bradley St, Joppa, IL 62953
04-14-401-009	414401009	421 Washington St, Joppa, IL 62953
04-14-420-003	414420003	410 Joppa North Ave, Joppa, IL 62953
04-23-102-025	423102025	135 Pope Ave., Joppa, IL 62953
04-14-441-033	414441033	210 Blasdel Dr., Joppa, IL 62953
04-14-225-007	414225007	N/A
04-23-115-004	423115004	N/A

We used best efforts to notify each owner and resident, including retrieving the property and address information from the Massac County Geographic Information System (GIS), which can be found here:

https://ags.bhamaps.com/arcgisserver/rest/services/MassacIL/MassacIL_PAT_TaxMap/MapServer.

In the event a street address was not available for the site, we sent the attached letter to the owner's listed mailing address. In the event the owner did not reside at the property (*ie.* the property owner's mailing address differed from the site address), we sent the attached letter to both the property address and the owner's listed mailing address. For those letters that were returned to sender, the attached letter was re-sent in July of 2023 to ensure all reasonable attempts at notification were conducted.

The company will post this correspondence along with the attached letter to its publicly accessible internet site as required by 35 I.A.C. § 845.650(d)(2): <https://www.luminant.com/ccr/illinois-ccr/>.

If you should have any questions regarding the enclosed information or desire additional information, please contact Phil Morris at (618) 606-7788 or phil.morris@vistracorp.com.

Sincerely,



Phil Morris
Senior Director Environmental



May 16, 2023

Dear Neighbor:

In April and June of 2022, you may have received information from Vistra Corp. and Electric Energy Inc. (EEI), the entity that owns the Joppa Power Plant, on the closure of the plant and what we're doing related to groundwater monitoring in the vicinity of the plant.

In those letters, Vistra Corp. and EEI shared their commitment to being a good steward of our property and to retiring the Joppa Power Plant in an environmentally responsible manner. As part of that diligence, EEI installed groundwater monitoring stations in accordance with the Illinois coal ash rule near the plant's property boundary and detected elevated levels of boron in groundwater. The detected levels of boron at the property's edge exceed the applicable state groundwater standard of 2.0 milligrams per liter (mg/L). EEI briefed and worked with local, regional, and state officials, including the Illinois EPA.

There is no evidence that groundwater in the lower aquifer, which supplies the Village's public water supply well, has been impacted, and EEI tested the public water supply well and confirmed that the Village's public water supply has not been impacted by the Joppa Power Plant.

Now, as part of our effort to keep you informed on what we're doing to retire the facility in an environmentally responsible way, we want to share some new information with you.

Environmental Update

As a result of our initial groundwater monitoring results, EEI installed additional groundwater monitoring wells in various locations beyond the plant site on public property within the Village of Joppa. Recently, we completed the groundwater sampling process with those new wells.

What those tests show is that there are concentrations of boron in groundwater in the upper aquifer, which occurs within 40 to 130 feet below the surface of your property, that exceed groundwater quality standards. Let me share some vital facts with you about boron.

Boron is a naturally occurring element found in fruits, vegetables, and seawater. Many everyday items such as cosmetics, dietary supplements, and cleaning products also contain boron. While boron is naturally occurring, studies have shown that ingesting boron in high concentrations could adversely impact human health.

What's important to know regarding your property is that the current detected levels of boron in groundwater in the upper aquifer are *significantly less* than the concentrations associated with health impacts in various studies. Also, the only way a person can be impacted is by drinking from a well on property drawing groundwater from the upper aquifer.

A search of the Illinois State Geological Survey wells database and a visual survey by EEI of all properties in Joppa last year did not find any wells on private property. Should you have a well on your property, please let us know. That's because out of an abundance of caution, EEI recommends Joppa residents not use existing groundwater wells screened in the upper aquifer for consumption or install new groundwater wells in the upper aquifer until boron concentrations are reduced below groundwater quality standards.

The Village of Joppa's drinking water is not impacted There continues to be **no evidence** that groundwater in the lower aquifer, which is separated from the upper aquifer by a 14 to 28 foot thick clay confining layer and supplies the Village's public water supply well, has been affected. EEI worked with the Village to test the water supply on May 23, 2022 and September 15, 2022 to ensure it remains within drinking water standards.

Seeking Solutions

To bring the impacted groundwater that lies beyond our plant site back within state standards, we've already begun evaluating mitigation measures. EEI is considering the extraction of groundwater at the plant boundary that would reduce boron concentrations in the groundwater effectively and expediently. This system would collect the extracted water and then manage it appropriately. All corrective measures we take will eventually be reviewed and permitted by Illinois EPA.

We understand that you may have questions after receiving this letter. To provide you with additional resources and easy access to government-created resources on the health impacts of boron, we've created a webpage with briefings, infographics, and hyperlinks to trusted resources. Please visit www.renewillinoispower.com/joppa for more information.

Please reach out to us if you have questions or concerns about our Joppa Power Plant.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad Watson', is positioned below the word 'Sincerely,'.

Brad Watson
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