



April 30, 2024

Cassandra Johnson  
Office of Community Engagement  
Mississippi Department of Environmental Quality  
PO Box 2261  
Jackson, MS 39225

**RE: COMMUNITY ENGAGEMENT PROGRESS REPORT FEBRUARY 2024 THROUGH APRIL 2024, KUHLMAN ELECTRIC CORPORATION CLEAN UP ACTIONS, CRYSTAL SPRINGS, MISSISSIPPI**

Dear Ms. Johnson:

This report provides a summary of community engagement actions for the Kuhlman Electric Corporation (KEC) environmental clean-up in Crystal Springs, Mississippi, as required by the Community Engagement Plan approved by the Mississippi Department of Environmental Quality (MDEQ) on July 17, 2012. This report will cover the period from February 2024 through and including April 2024. Future reports will continue to be provided quarterly.

KEC has continued to be actively engaged with the community. During this quarter, KEC with its consultants Environmental Management Services (EMS) and Caffee, Caffee and Associates (CCA) has met with MDEQ and updated and notified Crystal Springs residents of remedial activities through one-on-one dialogue and quarterly newsletters.

The following Corrective Action Plan milestone activities were initiated or continued during this reporting period:

- Soil Vapor Extraction System operation, maintenance and monitoring (ongoing)
- Soil Vapor Extraction System optimization (additional wells and monitoring points)
- Capacity Plan Implementation –
  - Operation of new City wells CSW-WA9, CSW-WA10, and CSW-WA11 continued
  - City wells CSW-WA1 and CSW-WA2 remain out of service
  - Operation of new City of Crystal Springs municipal water supply pipeline
  - Planning for rehabilitation of City of Crystal Springs supply well CSW-WA6
  - Evaluation of potential additional supply well needs and locations (ongoing)
- Groundwater monitoring event

Progress in implementing the Community Engagement Plan as it relates to these specific milestones, above, is detailed in Table 1 (attached). There were no required activities that were not completed.

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Community relations are conducted on an as-needed basis, designed to meet the requests and needs of the public. The current status is as follows:

#### Points of Contact

The local contact is Craig Flagge, Health Safety Environment Manager for the Hitachi Energy facility in Crystal Springs, MS.

Community relations contractor is Brenda Caffee of CCA (continued).

#### Fact Sheets

Fact sheets are available on an ongoing basis, as requested from the public. Fact sheets available are:

- Soil Vapor Extraction
- Air Sparging
- Monitored Natural Attenuation
- Groundwater Corrective Action Plan

#### Media Releases and Briefings

There were no media releases or briefings.

#### Public Notices

There were no Public Notices required or completed.

#### Information Repository

Final reports are submitted to MDEQ for storage in the information repository, maintained by MDEQ online at <https://www.deq.state.ms.us>. Final reports are also maintained at the Crystal Springs Public Library Information Desk, 200 South Jackson Street, Crystal Springs, MS. Newsletters will be provided for public access through the Crystal Springs City Hall, as well.

Submittal of the Soil Vapor Extraction System Second Semi-Annual Report 2024 was made to MDEQ in March 2024 and will be made available in the Crystal Springs Public Library.

#### Local Briefings and Telephone Briefings

CCA, on behalf of KEC, continues to hold individual meetings as requested, as well as telephone conversations each quarter. CCA has maintained communication and a presence in the community each month to reassure residents of KEC's community engagement efforts.

Representatives routinely hold one-on-one talks with businesses and churches in Crystal Springs while hand delivering copies of the KEC newsletter (see Direct Mail below) during normal quarters.

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### Public Meeting, Open Houses and Small Group Meetings

CCA has continually offered updates during the reporting period, as requested, not including those who received newsletters (see Direct Mail below).

### Direct Mail

KEC continues to distribute copies of the quarterly newsletter, the Kuhlman Cleanup News. The most recent version was issued in April 2024. Over 1500 newsletters will be made available at City Hall and any open businesses. Businesses and churches receive copies of the newsletter to ensure a broad distribution and that interested individuals have multiple locations to obtain a copy. The January issue of the newsletter provides updates on the soil vapor extraction system and water quality monitoring. A copy is attached.

### Comment Period and Comment Responses

MDEQ has not notified KEC of any other public notice/comment periods required at this time.

### Upcoming Activities

KEC will provide the next quarterly update in July 2024. Please do not hesitate to contact me with any questions you might have at 601-892-6567.

Sincerely,

*By Antonio Pimentel*  
By Antonio Pimentel (Apr 30, 2024 11:34 CDT)

Craig Flagge  
HSE Manager, Hitachi Energy Crystal Springs, MS

KUHLMAN ELECTRIC CORPORATION

101 KUHLMAN DRIVE, CRYSTAL SPRINGS, MS

TABLE 1 - CORRECTIVE ACTION PLAN MILESTONE/COMMUNITY ENGAGEMENT TASK SUMMARY

CAP Milestone	Anticipated Date	Planned Community Engagement Activities	Task Initiated and/or Completed	Task Planned for Following Quarter	Problems and Delays
<p>Capacity Plan for Potable Water Supply, City of Crystal Springs</p> <p>(submitted to MDEQ, and MDOH June 8, 2012).</p>	<p>Summer 2012</p>	<ul style="list-style-type: none"> <li>- Concurrently submit to the mayor of the City of Crystal Springs for review and comment.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Update civic leaders.</li> <li>- Approved document will be placed in public repository.</li> </ul>	<ul style="list-style-type: none"> <li>- Capacity Plan for Potable Water Supply approved by MDEQ in December 2012.</li> <li>- Quarterly Newsletter distributed to Crystal Spring’s residents and businesses in January 2013.</li> <li>- Mayor and Civic leaders were updated through the Newsletter.</li> <li>- Documents placed in the public repository. Also available upon request.</li> </ul>	<p>- None at this time. This milestone is complete.</p>	<p>- None at this time.</p>
<p>Capacity Plan Implementation</p> <p>Interim Treatment System Final Design</p>	<p>Summer – Fall 2012</p>	<ul style="list-style-type: none"> <li>- Will be submitted to MDEQ, MSDH, and engineers selected by the City of Crystal Springs.</li> <li>- Approved design will be placed in the public repository at the Crystal Springs library and on the MDEQ website.</li> <li>- Public notice upon approval.</li> <li>- Update civic leaders.</li> <li>- Publish in quarterly newsletter to interested parties.</li> </ul>	<ul style="list-style-type: none"> <li>- The bench study and final design was successfully completed.</li> <li>- The MDSH issued a letter of concurrence with the proposed interim treatment system design in November 2012.</li> <li>- The final design was approved by MDEQ in December 2012.</li> <li>- Public notice and updates to civic leaders were provided via quarterly newsletter in January 2013.</li> </ul>	<p>- None at this time. Design is complete.</p>	<p>- None at this time.</p>

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<p>Capacity Plan Implementation</p> <p>Interim Treatment System Construction Complete</p>	<p>Fall 2013</p>	<ul style="list-style-type: none"> <li>- Public notice</li> <li>- Update civic leaders.</li> <li>- Publish in quarterly newsletter to interested parties</li> <li>- Attend regularly scheduled City meeting on an annual basis and provide update.</li> </ul>	<ul style="list-style-type: none"> <li>- Treatment system site preparation and construction complete.</li> <li>- Public notice provided in The Meteor article published Nov 6, 2013.</li> <li>- Update published in quarterly newsletters October 2013.</li> <li>- Capacity Plan for Potable Water Supply Status Report submitted to MDEQ and City in August 2013.</li> <li>- Tests conducted in Sept/Oct 2013 confirmed the system will perform as designed.</li> <li>- Operations Demonstration conducted for City, MDOH, and MDEQ Oct 30, 2013.</li> <li>- Ready to be activated if treatment of the City wells becomes necessary.</li> <li>- Emergency Generator added July 2015.</li> </ul>	<ul style="list-style-type: none"> <li>- System will remain on standby and water quality will continue to be monitored on a regular basis.</li> <li>- If operation is required, establish City update schedule.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time.</li> </ul>
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<p>Capacity Plan Implementation</p> <p>Long term volume replacement, as needed</p>	<p>Ongoing</p>	<ul style="list-style-type: none"> <li>- Progress will be included in Groundwater monitoring reports submitted to MDEQ.</li> <li>- Update civic leaders.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Attend regularly scheduled City meeting on an annual basis and provide update.</li> </ul>	<ul style="list-style-type: none"> <li>- Updates via newsletters, Capacity Plan for Potable Water Supply Status Report (August 2013), verbal reports.</li> <li>- Collaboration with City.</li> <li>- Supply Wells CSW-WA9 and CSW-WA10 complete January 2016.</li> <li>- CSW-WA9, CSW-WA10 approved July 2016.</li> <li>- CSW-WA9, CSW-WA10 operating June 2017.</li> <li>- CSW-WA1 and CSW-WA2 taken out of service July 2017.</li> <li>- Water Main Installation completed January 2022.</li> <li>- CSW-WA11 operational January 2022.</li> <li>- Planning for rehabilitation of existing City Well CSW-WA6 as alternative to new location</li> </ul>	<ul style="list-style-type: none"> <li>- Rehabilitation of City well CSW-WA6.</li> <li>- Continued collaboration with City.</li> </ul>	<ul style="list-style-type: none"> <li>- Additional potential well siting locations have been denied by private land owners or rejected by City engineers; this has delayed this task.</li> </ul>

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Expected results of Soil Vapor Extraction (SVE) Pilot Test	Fall 2012	<ul style="list-style-type: none"> <li>- Updates with individuals, as requested.</li> <li>- Results will be included in Final Design submitted to MDEQ. Once approved, MDEQ will place the design in a public repository at the Crystal Springs library and on the MDEQ website.</li> <li>- Publish in quarterly newsletter to interested parties.</li> </ul>	<ul style="list-style-type: none"> <li>- The initial test of the proposed Soil Vapor Extraction (SVE) procedure was successfully completed in May 2012.</li> <li>- The results were be included in the final design submitted to MDEQ.</li> <li>- Updates on this milestone were included in the October 2012 Quarterly Newsletter.</li> <li>- Pilot Test Report and SVE Conceptual Design submitted to MDEQ in February 2013; approved in July 2013.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time. This milestone is complete.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time.</li> </ul>

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Final design of SVE System	Fall 2013	<ul style="list-style-type: none"> <li>- A final design will be submitted to MDEQ. Once approved, MDEQ will place the design in a public repository at the Crystal Springs library and on the MDEQ website.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Update civic leaders.</li> </ul>	<ul style="list-style-type: none"> <li>- Detailed design work has been completed for design, procurement, and installation of the SVE system.</li> <li>- Conceptual Design was submitted to MDEQ in February 2013, revised May 2013, and approved July 2013.</li> <li>- Soil Vapor Extraction Final Design and Quality Assurance Project Plan submitted to MDEQ September 2013, approved by MDEQ October 2013.</li> <li>- Update on this milestone was included in the July 2013, October 2013, and January 2014 Newsletters.</li> </ul>	- None. This milestone is complete.	- None.



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Installation of SVE System	Winter 2013-2014	<ul style="list-style-type: none"> <li>- Construction report will be submitted to MDEQ.</li> <li>- Approved report will be placed in public repository at Crystal Spring’s library and on MDEQ website.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Attend regularly scheduled City meeting on an annual basis and provide update.</li> </ul>	<ul style="list-style-type: none"> <li>- Extraction well installed as part of the SVE pilot test in 2012.</li> <li>- Soil Vapor Extraction Final Design and Quality Assurance Project Plan approved by MDEQ October 2013.</li> <li>- Installation of the full scale SVE system was completed December 2013 - April 2014. Optimization and start of operation occurred in May 2014.</li> </ul>	- None at this time. This milestone is complete.	- None at this time.

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Monitored Natural Attenuation (MNA)/ Groundwater Monitoring	Ongoing Semi-Annually	<ul style="list-style-type: none"> <li>- Groundwater Monitoring Reports will be sent to the MDEQ following each sampling event.</li> <li>- Final Monitoring Reports will be placed in a public repository at the Crystal Springs Library and the MDEQ website.</li> <li>- Updates with individuals, small groups as requested.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Attend regularly scheduled City meeting on an annual basis and provide update.</li> </ul>	<ul style="list-style-type: none"> <li>- Semi-Annual Groundwater Assessment Report submitted to MDEQ.</li> <li>- Two additional monitoring wells installed December 2015.</li> <li>- Notice of upcoming reports/sampling included in quarterly newsletters.</li> <li>- Documents submitted to MDEQ for placement in the public repository. Also available upon request.</li> <li>- MDEQ approval of additional monitoring well locations.</li> </ul>	<ul style="list-style-type: none"> <li>- KEC will respond to any comments that might be received on the Semi-Annual Groundwater Assessment Report submitted to MDEQ.</li> </ul>	<ul style="list-style-type: none"> <li>- City meeting schedule not established. City satisfied with verbal updates and newsletters to date.</li> </ul>

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Ongoing SVE operations	Ongoing Quarterly-to Semi-Annually	<ul style="list-style-type: none"> <li>- KEC will submit a summary of the active SVE operations within the Ground Water Assessment Reports.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Attend regularly scheduled City meeting on an annual basis and provide updates.</li> </ul>	<ul style="list-style-type: none"> <li>- Soil Vapor Extraction System Semi-Annual Report issued September 2015.</li> <li>- Monitoring, operation and maintenance of SVE is ongoing.</li> <li>- Updates are included in quarterly newsletters.</li> <li>- Performance assessment soil sampling program completed 4Q 2016. Report submitted 1Q2017.</li> </ul>	<ul style="list-style-type: none"> <li>- Operation and monitoring of full scale system.</li> <li>- Optimization efforts consisting of additional extraction and monitoring points within the building footprint.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time. Attendance at City meetings not requested.</li> </ul>
Air sparge (AS) vs. alternative remedial method evaluation – KEC will evaluate the effectiveness of the SVE system and either proceed with the installation of Air Sparging or an alternative plume treatment scenario.	Underway	<ul style="list-style-type: none"> <li>- Recommendations will be made available to MDEQ in written format. Any changes to the CAP approved by MDEQ will be posted to the public document repository.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Attend regularly scheduled City meeting on an annual basis and provide updates.</li> </ul>	<ul style="list-style-type: none"> <li>- Timing for this milestone is pending monitoring results from operation of the SVE system. To date, the system continues to remove contamination from beneath the building slab.</li> <li>- Bench scale study for Ozone complete (not selected).</li> <li>- Blower replacement.</li> <li>- SVE Well optimization testing.</li> </ul>	<ul style="list-style-type: none"> <li>- Continued evaluation of SVE system performance after optimization efforts (above).</li> </ul>	<ul style="list-style-type: none"> <li>- SVE System start up delayed until 2014; performance and optimization ongoing.</li> </ul>

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Contingencies/In Situ Treatment – Groundwater trends will be reexamined and KEC will determine if the treatment technologies are meeting the CAP objectives.	To Be Determined	<ul style="list-style-type: none"> <li>- Will be summarized on Groundwater Monitoring reports.</li> <li>- Final Monitoring Reports will be placed in a public repository at the Crystal Springs Library and the MDEQ website.</li> <li>- Updates with individuals, small groups as requested.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Attend regularly scheduled City meeting on an annual basis and provide updates.</li> </ul>	<ul style="list-style-type: none"> <li>- Groundwater trends indicate progress toward CAP objectives.</li> </ul>	<ul style="list-style-type: none"> <li>- Data evaluation will continue in 2024.</li> </ul>	<ul style="list-style-type: none"> <li>- Not yet implemented due to ongoing effectiveness of SVE system and water supply replacement program.</li> </ul>
No Further Remedial Action Request  (Monitoring Only)	To Be Determined	<ul style="list-style-type: none"> <li>- Formal request will be submitted to MDEQ when data supports it.</li> <li>- Public notice.</li> <li>- Publish in quarterly newsletter to interested parties.</li> <li>- Attend regularly scheduled City meeting on an annual basis and provide updates.</li> </ul>	<ul style="list-style-type: none"> <li>- This milestone will be completed pending the results of planned remedial actions.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time.</li> </ul>

# KUHLMAN CLEANUP NEWS

APRIL 2024

*Newsletter on Kuhlman Environmental Cleanup in Crystal Springs*

## CURRENT PROGRESS AND UPCOMING PROJECTS

### *Soil Vapor Extraction Progress*

The Soil Vapor Extraction (SVE) system continues to operate as designed, removing chemicals from below the building. Recently, construction work has begun to further improve the SVE system. Additional vapor extraction and monitoring points are being added within the plant footprint. This strategic enhancement aims to strengthen the system's efficiency in mitigating environmental contaminants. The installation and start up process for the new components is being carefully orchestrated to minimize disruptions and ensures worker's health and safety. The work is scheduled to take place after operating hours and spanning several weekends.

Performance monitoring of the Soil Vapor Extraction system is also ongoing, including indoor air quality air sampling for chemicals found below the building. Sampling results confirm that indoor air meets appropriate regulatory standards.

### **QUESTIONS OR COMMENTS?**

*If you have any questions  
or concerns, we want to  
hear them!  
Please submit all  
questions or comments to  
Brenda Bell Caffee,  
Caffee, Caffee and  
Associates  
at 601-336-7212.*

### *City Water Supply & Well*

Plans are being made to refurbish existing City Well CSW-WA6. The refurbishment project aims to upgrade critical infrastructure and bring the well back into production. The goal is to enhance the City's water distribution capacity and reduce dependency on other wells. The project's successful completion is expected to provide reliable, good quality water to residents, supporting the city's growing demand.

### **GROUNDWATER MONITORING AND SAMPLING**

The semi-annual groundwater monitoring event was performed in March. Over 40 monitoring wells were sampled. The samples were sent to the lab to be analyzed. The results will be submitted to MDEQ and made available in the next semi-annual groundwater monitoring

report. We also continue to sample City-owned water supply wells on a monthly basis. Results of samples collected and analyzed from the City-owned wells are submitted to both MDEQ and the City of Crystal Springs.



## **IMPROVEMENTS CONTINUE AT CHAUTAUQUA LAKE**

The City of Crystal Springs reports progress continues to be made on the walking and bike path that will connect Chautauqua Lake to the downtown area.

### **UPCOMING EVENTS**

- Continued operation of the full-scale Soil Vapor Extraction system
- Continued monitoring of existing public supply wells.

### **PUBLIC DOCUMENTS REPOSITORY**

Remediation planning documents and sampling reports have been made available at your local Crystal Springs Library for review or you can visit <http://www.mdeq.state.ms.us/>