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## Fugitive Dust Event at CEMEX Lyons + a Couple Questions

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**Sarah Lorang** <lorang.sarah@gmail.com>

Wed, May 3, 2023 at 1:41 PM

To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>

Hi Patrick,

I hope you are well. I saw the questions you sent to CEMEX regarding their Reclamation Cost Estimate - thank you for posting that. I also just wanted to follow up on the two items from this thread:

1. CEMEX did not appear to be following the prescribed dust control measures on March 30th, which resulted in a significant dust event. I believe the lack of the water truck operating falls under the purview of DRMS - have you had a chance to look into this?
2. I was also hoping to hear what you have learned about management and jurisdiction over the transport of CKD now that CEMEX is selling it to the Oil and Gas industry.

Thanks again for your help - hope all is well!

Sincerely,  
Sarah Lorang

[Quoted text hidden]



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## Fugitive Dust Event at CEMEX Lyons + a Couple Questions

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**Lennberg - DNR, Patrick** <patrick.lennberg@state.co.us>

Thu, May 4, 2023 at 10:29 AM

To: Sarah Lorang <lorang.sarah@gmail.com>

Good Morning Sarah,

Thank you for following up. My answers to your questions are below.

1. The Division forwarded your initial email to the Operator and they provided the attached response. The Operator has provided documentation that the water truck was operating on March 30<sup>th</sup>. Operation of the water truck is part of the CKD management revision but it also is part of their site wide air permit. Your email was also forwarded to the State Air Division and Boulder County to insure they were aware of these issues. Both indicated they were pursuing additional information on those items.

2. The Division requested additional information regarding the sale of CKD. The Operator has indicated it is/was being sold to entities in Deer Trail and Fort Collins not the Oil and Gas Industry. The Division informed the Operator they needed to contact the Hazardous Waste Division about the possibility of needing additional permitting to continue the practice. The Division also notified Hazardous Waste about what the Operator stated and they would follow up accordingly.

Thank you,

Patrick

[Quoted text hidden]



**FugitiveDustEvents\_Cemex.pdf**

1884K



## Fugitive Dust Event at CEMEX Lyons + a Couple Questions

Sarah Lorang <lorang.sarah@gmail.com>

Fri, Mar 31, 2023 at 10:49 AM

To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>

Hi Patrick,

I initially was just going to share that CEMEX had another fugitive dust event yesterday ([here is a link with photos, location details, and approximate wind speed/direction](#)) and ask that DRMS look into it, but I also have a couple more questions about the Division's CKD Management Standards that I was hoping you could help with:

- **What are the consequences for these frequent dust events?** I've included a spreadsheet of semi-recent documentation of dust events compiled from just a couple of neighbors to the plant below. All that's to say, these photos and videos are from no more than 3 people who just happened to be outside, with a phone, when an incident was occurring, so the dust events are far more frequent than what is depicted here. It doesn't really feel like any enforcement or corrective actions are being taken as the end result (the occurrence of dust events) continues to happen at the (seemingly) same rate. I have not gone outside to look, but we have been experiencing sustained ~30 mph winds all morning and I would imagine that more dust events are occurring as I type this. **Can you share what the Division's policy is regarding enforcement for repeated offenses like this?**
- Semi-related, you mentioned in your March 2023 inspection report that "The Operator has also begun to divert some of their CKD material to the oil and gas industry for use in their operations decreasing the amount of CKD needing to be disposed of on-site." **Can you confirm (preferably with photo documentation) how the CKD is being both stored for its eventual sale, and also how it is being transported to the oil and gas buyers from CEMEX's Lyons plant site?** I've spoken with several State and County agencies to determine who is responsible for the safe transport of CKD and it seems that it is still under the jurisdiction of DRMS and it didn't appear to be addressed in that particular inspection.

Thank you so much for your time and help!

Sincerely,  
Sarah Lorang

CEMEX Lyons Fugitive Dust Events Log			
Date	Time	Link to Photo/Video	Additional Information
1/31/22	-	<a href="#">Incident Photos</a>	
5/17/22	-	<a href="#">Incident Photos</a>	
6/4/22	-	<a href="#">Incident Photos</a>	
6/6/22	-	<a href="#">Incident Photos</a>	
6/7/22	-	<a href="#">Incident Photos</a>	
6/27/22	-	<a href="#">Incident Photos</a>	
9/16/22	6:15 PM	<a href="#">9/16/22 Incident</a>	
12/3/22	7:30 PM	<a href="#">12/3/22 Incident</a>	Photo taken from Hygiene Rd
12/11/22	8:19 AM	<a href="#">12/11/22 Incident</a>	Photo taken from west side of plant near Highway 36.
12/12/22	7:33 PM	<a href="#">12/12/22 Incident</a>	Photo taken from west side of plant near Highway 36.
12/19/22	1:34 PM	<a href="#">12/19/22 Incident</a>	Large plumes of dust exiting the CKD pit and traveling rapidly very far off property Time Of Event: 13:34 Mountain Time Observation Location: Intersection of Hygiene Road and Highway 36 Wind Speed and Direction: 10-15 MPH SE

			Dust Origination: CKD Pit Dust Direction: Blowing South-East off property
12/20/22	11:27 PM	<a href="#">12/20/22 Incident</a>	Photo taken from Hygiene Rd
12/21/22	8:36 AM	<a href="#">12/21/22 Incident (1 of 2)</a>	Time Of Event: 08:36 Mountain Time Observation Location: Intersection of Hygiene Road and Highway 36 Wind Speed and Direction: 0-10 MPH SE Dust Origination: Stockpiles and/or facility Dust Direction: Blowing South-East off property
12/21/22	10:58 AM	<a href="#">12/21/22 Incident (2 of 2)</a>	Time Of Event: 10:58 Mountain Time Observation Location: Intersection of Hygiene Road and Highway 36 Wind Speed and Direction: 10-15 MPH SE Dust Origination: Stockpiles and/or facility Dust Direction: Blowing South-East off property
1/8/23	4:22 PM	<a href="#">1/8/23 Incident</a>	Time Of Event: 16:22 Mountain Time Observation Location: Intersection of Hygiene Road and Highway 36 Wind Speed and Direction: 0-5 MPH SE Dust Origination: Main facility Dust Direction: Blowing South-East off property
2/20/23	-	<a href="#">2/20/23 Incident</a>	Video sped up to 50x.
3/9/2023	9:12 AM	<a href="#">3/9/23 Incident</a>	Time Of Event: 09:12 Mountain Time Observation Location: Intersection of Hygiene Road and Highway 36 Wind Speed and Direction: 10-15 MPH SE Dust Origination: Main facility, CKD Pit via Dump Truck Dust Direction: Blowing South-East off property Duration: Unknown as only the tail end of the event was observed, but maybe 5-10 minutes total. Impact: Because the dumping is occurring at the CKD pit, we can only assume that the dump truck unloaded Cement Kiln Dust in this event.
3/30/23	5:43 PM	<a href="#">3/30/23 Incident</a>	Time Of Event: 17:43 Mountain Time Observation Location: Hygiene Road, just east of Highway 36 Wind Speed and Direction: ~5-15 MPH SE Dust Origination: Main facility Dust Direction: Blowing South-East off property

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Sarah Lorang  
Cell: 303-476-0089  
Email: [lorang.sarah@gmail.com](mailto:lorang.sarah@gmail.com)



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## Fugitive Dust Event at CEMEX Lyons + a Couple Questions

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Scott A Harcus <scotta.harcus@cemex.com>

Mon, Apr 17, 2023 at 3:37 PM

To: "patrick.lennberg@state.co.us" <patrick.lennberg@state.co.us>

Cc: Erik Estrada <erik.estrada@cemex.com>, Cita Cisse <cita.cisse@cemex.com>, Maribel B Aguilos <maribelb.aguilos@cemex.com>

Hello Patrick –

Lyons Cement Plant has compiled Water Truck Logs for each date listed in the table below. These are attached for your review and reference.

Recent events from 2/20/2023 through 3/31/2023 have been reviewed and those details are as follows:

### 2/20/2023

- Based on the time stamps and video review, the dusting source appears to be primarily from the limestone. The limestone stockpiles are periodically watered in effort to mitigate dusting during wind events. In the videos, the Lyons water truck is seen responding to the stockpiles and haul roads in the area. CEMEX is exploring larger gradation of rock for limestone resources to mitigate fugitive dust in the future.

### 3/9/2023

- The Lyons Kiln was down for outage during this time and refractory within the kiln was replaced as routine maintenance. As permitted in DRMS Mine Permit No. M1977-208 TR #9, spent kiln brick was hauled to the C-pit area for disposal. Water truck escort was present and active during disposal, however the wind speed peaked at 33.2 mph around 9:13am causing challenges in controlling dust from the unloading activity. Corrective action is to stop c-pit hauling activities during windy conditions.

### 3/30/2023

- Review of videos shows adequate moisture and water over the paved and unpaved haul roads prior to the encroachment of the wind event from approximately 1700-1830. The dusting appears to be primarily from the limestone stockpiles. CEMEX continues to explore options to achieve increased fugitive dust control specific to the raw material stockpiles. Mitigation of stockpile fugitive dust has seen recent success with the deployment of the water truck's "water cannon" to the stockpiles in anticipation of, or in response to, regional wind events.

### 3/31/2023

- A significant wind event with peak speeds of 50+ mph hit the front range region and Lyons Cement Plant measured instantaneous highs up to 43 mph. Lyons Cement Plant anticipated the event and applied significant water to the plant. Internal video review shows surrounding properties having effects of wind erosion, but Lyons Plant appears less impacted by the wind event. On the date of the event, Lyons wind speed monitoring showed elevated wind speeds from around 08:00 until approximately 16:20 that evening.

Regards,

Scott



SCOTT A. HARCUS

Cement Operations - Environmental

Lyons Plant Environmental Manager

Phone: 303-823-2124

[scotta.harcus@cemex.com](mailto:scotta.harcus@cemex.com)

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[cemex.com](http://cemex.com)

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**From:** Lennberg - DNR, Patrick <[patrick.lennberg@state.co.us](mailto:patrick.lennberg@state.co.us)>  
**Sent:** Monday, April 3, 2023 10:54 AM  
**To:** Scott A Harcus <[scotta.harcus@cemex.com](mailto:scotta.harcus@cemex.com)>  
**Subject:** Fwd: Fugitive Dust Event at CEMEX Lyons + a Couple Questions

**CAUTION: External Email | PRECAUCIÓN: Correo electrónico externo | VORSICHT: Externe E-Mail | ATTENTION: Courriel externe** [To learn more about email protection click here](#)

Good Morning Scott,

[Quoted text hidden]

CONFIDENTIALITY: The information contained in this transmission may contain privileged and confidential information. It is intended only for the use of the person(s) named above. If you are not the intended recipient, you are hereby notified that any review, dissemination, distribution or duplication of this communication, and the information contained in it, is strictly prohibited. If you are not the intended recipient, please contact the sender and immediately destroy all copies of the original message.

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 **CMX Lyons\_Water Truck Logs\_DRMS Email 2023.04.03.pdf**  
1614K



**APP II-3 (Rev#4, 10/24/2019) Approved by S. Harcus**

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Josh Sticker Date: 5-17-22

Start time: 0600 End time: 1400 No. of Loads: 10

°Freezing? YES ☐ NO ☒ °Snow/Ice on ground? YES ☐ NO ☒ °Wet ground? YES ☐ NO ☒

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: \_\_\_\_\_)

☐ Ice, snow, or rain covering plant grounds (hrs. down: \_\_\_\_\_)

☐ Freezing conditions (hrs. down: \_\_\_\_\_)

☐ Water Truck Maintenance (hrs. down: \_\_\_\_\_)

☐ Other \_\_\_\_\_ (hrs. down: \_\_\_\_\_)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
South and West Side of A-Frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Area West of Railroad Tracks (Coal Storage)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Patio Area and West Ramp by Vehicle Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
East Haul Road, including Road to Patio	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hot Clinker Pit Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other area (s) watered:		
○ All PAVED areas in the plant from north to south.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
○ _____		
○ _____		

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: \_\_\_\_\_

**Check areas covered:** °East Haul Road \_\_\_\_\_ °Plant Patio Area and Ramp \_\_\_\_\_ °Dust Pit Ramp \_\_\_\_\_

°CKD Pit Disposal Area \_\_\_\_\_ °West side of A-Frame \_\_\_\_\_ °Hot Clinker Pit Area \_\_\_\_\_

°Dowe Flats Unpaved Haul Roads \_\_\_\_\_ °Dowe Flats Patio Area \_\_\_\_\_

**Notes/Other Observations:** \_\_\_\_\_

Shift Supervisor's Initials AB Review Date 5-17-22

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Aaron Gregory Date: 6-4-22

Start time: 0600 End time: 1400 No. of Loads: 7

°Freezing? YES ☐ NO ☒ °Snow/Ice on ground? YES ☐ NO ☒ °Wet ground? YES ☐ NO ☒

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: \_\_\_\_\_)

☐ Ice, snow, or rain covering plant grounds (hrs. down: \_\_\_\_\_)

☐ Freezing conditions (hrs. down: \_\_\_\_\_)

☐ Water Truck Maintenance (hrs. down: \_\_\_\_\_)

☐ Other \_\_\_\_\_ (hrs. down: \_\_\_\_\_)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	✓	
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	✓	
South and West Side of A-Frame	✓	
Area West of Railroad Tracks (Coal Storage)	✓	
Patio Area and West Ramp by Vehicle Shop	✓	
East Haul Road, including Road to Patio	✓	
Hot Clinker Pit Area	✓	
Other area (s) watered:		
○ All PAVED areas in the plant from north to south.	✓	
○ _____		
○ _____		

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: \_\_\_\_\_

Check areas covered: °East Haul Road \_\_\_\_\_ °Plant Patio Area and Ramp \_\_\_\_\_ °Dust Pit Ramp \_\_\_\_\_

°CKD Pit Disposal Area \_\_\_\_\_ °West side of A-Frame \_\_\_\_\_ °Hot Clinker Pit Area \_\_\_\_\_

°Dowe Flats Unpaved Haul Roads \_\_\_\_\_ °Dowe Flats Patio Area \_\_\_\_\_

Notes/Other Observations: \_\_\_\_\_

Shift Supervisor's Initials R7 Review Date 6/4/22

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Vincent Thomas Date: 6-6-22

Start time: 0600 End time: 1800 No. of Loads: 7

°Freezing? YES ☐ NO ☒ °Snow/Ice on ground? YES ☐ NO ☒ °Wet ground? YES ☒ NO ☐

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: \_\_\_\_\_)

☒ Ice, snow, or ~~rain~~ covering plant grounds (hrs. down: 1.5)

☐ Freezing conditions (hrs. down: \_\_\_\_\_)

☐ Water Truck Maintenance (hrs. down: \_\_\_\_\_)

☒ Other ENVIAO PADEWK (hrs. down: 2.5)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
South and West Side of A-Frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Area West of Railroad Tracks (Coal Storage)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Patio Area and West Ramp by Vehicle Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
East Haul Road, including Road to Patio	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hot Clinker Pit Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other area (s) watered: o All PAVED areas in the plant from north to south. o _____ o _____	<input type="checkbox"/>	<input type="checkbox"/>

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: \_\_\_\_\_

**Check areas covered:** °East Haul Road \_\_\_\_\_ °Plant Patio Area and Ramp \_\_\_\_\_ °Dust Pit Ramp \_\_\_\_\_

°CKD Pit Disposal Area \_\_\_\_\_ °West side of A-Frame \_\_\_\_\_ °Hot Clinker Pit Area \_\_\_\_\_

°Dowe Flats Unpaved Haul Roads \_\_\_\_\_ °Dowe Flats Patio Area \_\_\_\_\_

**Notes/Other Observations:** \_\_\_\_\_

Shift Supervisor's Initials JW Review Date 6-6-22

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) VINCENT TRUJILLO Date: 6-7-22

Start time: 0600 End time: 1800 No. of Loads: 8

°Freezing? YES ☐ NO ☒ °Snow/Ice on ground? YES ☐ NO ☒ °Wet ground? YES ☒ NO ☐

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: \_\_\_\_\_)

☐ Ice, snow, or rain covering plant grounds (hrs. down: \_\_\_\_\_)

☐ Freezing conditions (hrs. down: \_\_\_\_\_)

☐ Water Truck Maintenance (hrs. down: \_\_\_\_\_)

☒ Other ENVIRO PAPERS (hrs. down: 2.5)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
South and West Side of A-Frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Area West of Railroad Tracks (Coal Storage)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Patio Area and West Ramp by Vehicle Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
East Haul Road, including Road to Patio	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hot Clinker Pit Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other area (s) watered:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
o All PAVED areas in the plant from north to south.		
o _____		
o _____		

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: \_\_\_\_\_

**Check areas covered:** °East Haul Road \_\_\_\_\_ °Plant Patio Area and Ramp \_\_\_\_\_ °Dust Pit Ramp \_\_\_\_\_

°CKD Pit Disposal Area \_\_\_\_\_ °West side of A-Frame \_\_\_\_\_ °Hot Clinker Pit Area \_\_\_\_\_

°Dowe Flats Unpaved Haul Roads \_\_\_\_\_ °Dowe Flats Patio Area \_\_\_\_\_

**Notes/Other Observations:** \_\_\_\_\_

Shift Supervisor's Initials RV Review Date 6-7-22

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Aaron Carey Date: 6-27-22

Start time: 0600 End time: 1800 No. of Loads: 9

° Freezing? YES ☐ NO ☒ ° Snow/Ice on ground? YES ☐ NO ☒ ° Wet ground? YES ☐ NO ☒

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: \_\_\_\_\_)

☐ Ice, snow, or rain covering plant grounds (hrs. down: \_\_\_\_\_)

☐ Freezing conditions (hrs. down: \_\_\_\_\_)

☐ Water Truck Maintenance (hrs. down: \_\_\_\_\_)

☐ Other \_\_\_\_\_ (hrs. down: \_\_\_\_\_)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	✓	
GKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	✓	
South and West Side of A-Frame	✓	
Area West of Railroad Tracks (Coal Storage)	✓	
Patio Area and West Ramp by Vehicle Shop	✓	
East Haul Road, including Road to Patio	✓	
Hot Clinker Pit Area	✓	
Other area (s) watered:	✓	
○ All PAVED areas in the plant from north to south.		
○ _____		
○ _____		

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: \_\_\_\_\_

**Check areas covered:** ° East Haul Road \_\_\_\_\_ ° Plant Patio Area and Ramp \_\_\_\_\_ ° Dust Pit Ramp \_\_\_\_\_

° CKD Pit Disposal Area \_\_\_\_\_ ° West side of A-Frame \_\_\_\_\_ ° Hot Clinker Pit Area \_\_\_\_\_

° Dowe Flats Unpaved Haul Roads \_\_\_\_\_ ° Dowe Flats Patio Area \_\_\_\_\_

**Notes/Other Observations:** \_\_\_\_\_

Shift Supervisor's Initials [Signature] Review Date 6-27-22



**APP II-3 (Rev#4, 10/24/2019) Approved by S. Harcus**



APP II-3 (Rev#4, 10/24/2019) Approved by S. Harcus



APP II-3 (Rev#4, 10/24/2019) Approved by S. Harcus

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Josh Sticker Date: 12/12/22

Start time: 0700 End time: 1800 No. of Loads: 10

°Freezing? YES ☐ NO ☒ °Snow/Ice on ground? YES ☐ NO ☒ Wet ground? YES ☐ NO ☒

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down:   )

☐ Ice, snow, or rain covering plant grounds (hrs. down:   )

☐ Freezing conditions (hrs. down:   )

☐ Water Truck Maintenance (hrs. down:   )

☐ Other    (hrs. down:   )

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	X	
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	X	
South and West Side of A-Frame	X	
Area West of Railroad Tracks (Coal Storage)	X	
Patio Area and West Ramp by Vehicle Shop	X	
East Haul Road, including Road to Patio	X	
Hot Clinker Pit Area	X	
Other area (s) watered:		
○ All PAVED areas in the plant from north to south.		
○ <u>  </u>		
○ <u>  </u>		

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied:   

Check areas covered: °East Haul Road    °Plant Patio Area and Ramp    °Dust Pit Ramp   

°CKD Pit Disposal Area    °West side of A-Frame    °Hot Clinker Pit Area   

°Dowe Flats Unpaved Haul Roads    °Dowe Flats Patio Area   

Notes/Other Observations:   

Shift Supervisor's Initials Py Review Date 12/12/22



**APP II-3 (Rev#4, 10/24/2019) Approved by S. Harcus**

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Josh Strickner Date: 12/20/22

Start time: 0600 End time: 1800 No. of Loads: 8

°Freezing? YES ☒ NO ☒ °Snow/Ice on ground? YES ☐ NO ☒ °Wet ground? YES ☐ NO ☒

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down:       )

☐ Ice, snow, or rain covering plant grounds (hrs. down:       )

☐ Freezing conditions (hrs. down: 4 hrs 6am - 10am)

☐ Water Truck Maintenance (hrs. down:       )

☐ Other        (hrs. down:       )

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	X	
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	X	
South and West Side of A-Frame	X	
Area West of Railroad Tracks (Coal Storage)	X	
Patio Area and West Ramp by Vehicle Shop	X	
East Haul Road, including Road to Patio	X	
Hot Clinker Pit Area	X	
Other area (s) watered:		
○ All PAVED areas in the plant from north to south.	X	
○ <u>      </u>		
○ <u>      </u>		

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: N/A

Check areas covered: °East Haul Road        °Plant Patio Area and Ramp        °Dust Pit Ramp       

°CKD Pit Disposal Area        °West side of A-Frame        °Hot Clinker Pit Area       

°Dowe Flats Unpaved Haul Roads        °Dowe Flats Patio Area       

Notes/Other Observations:       

Shift Supervisor's Initials OC Review Date 12/20/22

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Josh Sticker Date: 12/21/22

Start time: 0600 End time: 1800 No. of Loads: 10

°Freezing? YES ☐ NO ☒ °Snow/Ice on ground? YES ☐ NO ☒ Wet ground? YES ☐ NO ☒

**Not Operating:** Check the reason why the water truck was down and note how long.

- ☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: \_\_\_\_\_)
- ☐ Ice, snow, or rain covering plant grounds (hrs. down: \_\_\_\_\_)
- ☐ Freezing conditions (hrs. down: \_\_\_\_\_)
- ☐ Water Truck Maintenance (hrs. down: \_\_\_\_\_)
- ☐ Other \_\_\_\_\_ (hrs. down: \_\_\_\_\_)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	X	
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	X	
South and West Side of A-Frame	X	
Area West of Railroad Tracks (Coal Storage)	X	
Patio Area and West Ramp by Vehicle Shop	X	
East Haul Road, including Road to Patio	X	
Hot Clinker Pit Area	X	
Other area (s) watered:		
○ All PAVED areas in the plant from north to south.	X	
○ _____		
○ _____		

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: 10

Check areas covered: °East Haul Road \_\_\_\_\_ °Plant Patio Area and Ramp \_\_\_\_\_ °Dust Pit Ramp \_\_\_\_\_

°CKD Pit Disposal Area \_\_\_\_\_ °West side of A-Frame \_\_\_\_\_ °Hot Clinker Pit Area \_\_\_\_\_

°Dowe Flats Unpaved Haul Roads \_\_\_\_\_ °Dowe Flats Patio Area \_\_\_\_\_

Notes/Other Observations: \_\_\_\_\_

Shift Supervisor's Initials ae Review Date 12/21/22

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Josh Sticker Date: 01/08/23

Start time: 0600 End time: 1800 No. of Loads: 2

°Freezing? YES ☒ NO ☐ °Snow/Ice on ground? YES ☒ NO ☐ °Wet ground? YES ☒ NO ☐

**Not Operating:** Check the reason why the water truck was down and note how long.

☒ Kiln and O2 system down for the past 24 hours and still down (hrs. down: 48 hrs)

☒ Ice, snow, or rain covering plant grounds (hrs. down:         )

☒ Freezing conditions (hrs. down: 3 hrs)

☐ Water Truck Maintenance (hrs. down:         )

☐ Other          (hrs. down:         )

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least every 3 hours</u> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CKD Pit active disposal area (must be watered <u>at least every 3 hours</u> when sprinklers are not in service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
South and West Side of A-Frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Area West of Railroad Tracks (Coal Storage)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Patio Area and West Ramp by Vehicle Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
East Haul Road, including Road to Patio	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hot Clinker Pit Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other area (s) watered:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> All PAVED areas in the plant from north to south.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> C-Pit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <u>        </u>	<input type="checkbox"/>	<input type="checkbox"/>

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: 0

Check areas covered: °East Haul Road          °Plant Patio Area and Ramp          °Dust Pit Ramp         

°CKD Pit Disposal Area          °West side of A-Frame          °Hot Clinker Pit Area         

°Dowe Flats Unpaved Haul Roads          °Dowe Flats Patio Area         

Notes/Other Observations:         

Shift Supervisor's Initials PS Review Date 1-8-23

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) VINCENT T. BROWN Date: 2-20-23  
 Start time: 0600 End time: 1800 No. of Loads: 7

°Freezing? YES ☐ NO ☒ °Snow/Ice on ground? YES ☒ NO ☐ °Wet ground? YES ☒ NO ☐

**Not Operating:** Check the reason why the water truck was down and note how long.

- ☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: \_\_\_\_\_)
- ☐ Ice, snow, or rain covering plant grounds (hrs. down: \_\_\_\_\_)
- ☐ Freezing conditions (hrs. down: \_\_\_\_\_)
- ☐ Water Truck Maintenance (hrs. down: \_\_\_\_\_)
- ☐ Other \_\_\_\_\_ (hrs. down: \_\_\_\_\_)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	X	
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	X	
South and West Side of A-Frame	X	
Area West of Railroad Tracks (Coal Storage)	X	
Patio Area and West Ramp by Vehicle Shop	X	
East Haul Road, including Road to Patio	X	
Hot Clinker Pit Area	X	
Other area (s) watered: <input checked="" type="checkbox"/> All PAVED areas in the plant from north to south. <input type="checkbox"/> _____ <input type="checkbox"/> _____	X	

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: \_\_\_\_\_

**Check areas covered:** °East Haul Road \_\_\_\_\_ °Plant Patio Area and Ramp \_\_\_\_\_ °Dust Pit Ramp \_\_\_\_\_

°CKD Pit Disposal Area \_\_\_\_\_ °West side of A-Frame \_\_\_\_\_ °Hot Clinker Pit Area \_\_\_\_\_

°Dowe Flats Unpaved Haul Roads \_\_\_\_\_ °Dowe Flats Patio Area \_\_\_\_\_

Notes/Other Observations: USING HYDRANT POND STILL FROZEN

Shift Supervisor's Initials Rv Review Date 2-20-23

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) JACOB PARKER Date: 3-9-23

Start time: 6:00AM End time: 6:00PM No. of Loads: 12

°Freezing? YES ☐ NO ☒ °Snow/Ice on ground? YES ☐ NO ☒ °Wet ground? YES ☐ NO ☒

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: 0)

☐ Ice, snow, or rain covering plant grounds (hrs. down: 0)

☐ Freezing conditions (hrs. down: 0)

☐ Water Truck Maintenance (hrs. down: 0)

☐ Other \_\_\_\_\_ (hrs. down: 0)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
South and West Side of A-Frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Area West of Railroad Tracks (Coal Storage)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Patio Area and West Ramp by Vehicle Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
East Haul Road, including Road to Patio	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hot Clinker Pit Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other area (s) watered: <input checked="" type="checkbox"/> All PAVED areas in the plant from north to south. <input type="checkbox"/> _____ <input type="checkbox"/> _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: 0

**Check areas covered:** °East Haul Road \_\_\_\_\_ °Plant Patio Area and Ramp \_\_\_\_\_ °Dust Pit Ramp \_\_\_\_\_

°CKD Pit Disposal Area \_\_\_\_\_ °West side of A-Frame \_\_\_\_\_ °Hot Clinker Pit Area \_\_\_\_\_

°Dowe Flats Unpaved Haul Roads \_\_\_\_\_ °Dowe Flats Patio Area \_\_\_\_\_

Notes/Other Observations: A-PUMP DOWN, USED HYDRANT FOR ALL LOADS

Shift Supervisor's Initials R Review Date 3/9/23

# Daily Environmental Report: WATER TRUCK



Water truck must be operated during the day shift 12 hours a day, 7 days a week except when any of the following conditions exists: a freezing condition, snow/ice covered roads, rain or a shutdown of the kiln and O2 system for greater than 24 hours. This form must be filled out in its entirety by the Water Truck Operator, and then reviewed by the Day Shift Supervisor for accuracy and completeness. On page 2, record the engine's startup and shutdown times every time you use the pump to load water from A-Pit.

Operator(s) (PRINT NAME) Vincent Truone Date: 3-30-23

Start time: 0600 End time: 1800 No. of Loads: 11

°Freezing? YES ☒ NO ☐ °Snow/Ice on ground? YES ☐ NO ☒ °Wet ground? YES ☐ NO ☒

**Not Operating:** Check the reason why the water truck was down and note how long.

☐ Kiln and O2 system down for the past 24 hours and still down (hrs. down: \_\_\_\_\_)

☐ Ice, snow, or rain covering plant grounds (hrs. down: \_\_\_\_\_)

☐ Freezing conditions (hrs. down: \_\_\_\_\_)

☐ Water Truck Maintenance (hrs. down: \_\_\_\_\_)

☐ Other \_\_\_\_\_ (hrs. down: \_\_\_\_\_)

**Watering:** Indicate in the space provided whether the following areas were covered:

AREAS	YES	NO
CKD Pit access road/ramp (Must be watered <u>at least</u> every 3 hours)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CKD Pit active disposal area (must be watered <u>at least</u> every 3 hours when sprinklers are not in service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
South and West Side of A-Frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Area West of Railroad Tracks (Coal Storage)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Patio Area and West Ramp by Vehicle Shop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
East Haul Road, including Road to Patio	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hot Clinker Pit Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other area (s) watered:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> All PAVED areas in the plant from north to south.		
<input type="checkbox"/> _____		
<input type="checkbox"/> _____		

**Application of Calcium Chloride/Other Chemical Dust Suppressant:** Gallons applied: \_\_\_\_\_

Check areas covered: °East Haul Road \_\_\_\_\_ °Plant Patio Area and Ramp \_\_\_\_\_ °Dust Pit Ramp \_\_\_\_\_

°CKD Pit Disposal Area \_\_\_\_\_ °West side of A-Frame \_\_\_\_\_ °Hot Clinker Pit Area \_\_\_\_\_

°Dowe Flats Unpaved Haul Roads \_\_\_\_\_ °Dowe Flats Patio Area \_\_\_\_\_

Notes/Other Observations: CITY HYDRANT

Shift Supervisor's Initials R Review Date 3-30-23



APP II-3 (Rev#4, 10/24/2019) Approved by S. Marcus