

**Non-discharging
ready mix
concrete facility
NPDES
compliance
assessments**



Pollution Prevention Institute

SBEAP Background



- The Kansas Small Business Environmental Assistance Program, or SBEAP, is part of the Pollution Prevention Institute (PPI) in the College of Engineering at Kansas State University
- Established in all states as part of the Clean Air Act of 1990
- Provide free environmental compliance assistance across all media (water, air, and waste) to small businesses (<100 employees) across KS
- Work with KDHE on a number of special projects annually

Non-Q RMC NPDES project



- Began as just technical assistance in 2018 based off issues identified during the 2017 RMC General Permit renewal
- Original focus was to assist with washout lagoon issues, but broadened to paperwork assistance as well
- 2020 COVID began to impact not only the ready mix concrete industry, but regulatory organizations as well, KDHE included

Non-Q RMC NPDES project



- With the 2022 RMC NPDES general permit quickly approaching and staffing shortages and turnover in KDHE district offices, KDHE BOW reached out to SBEAP to assist with an assessment of the facilities under the 2017 RMC NPDES general permit to determine what changes, if any, would need made in the 2022 general permit
- Decidedly different role for SBEAP – usually assist on the backside of inspections, but this project would be predominantly on the front end of the inspection

Non-Q RMC NPDES project



- In order to maintain integrity with our mission, SBEAP and KDHE had to make some adjustments to the inspection process
 - SBEAP would use two staff (Arthur Fink and Leena Divakar) that were previous KDHE BOW employees
 - Since SBEAP has no distinct regulatory authority, we could only complete “compliance assessments” and not “inspections”
 - However, SBEAP would use the same checklist and process as the KDHE district inspection staff

Concrete Ready-Mix and Product Plants and Their Associated Facilities
 Kansas Water Pollution Control Inspection Report



I. General Information

Facility Name:
 Primary Mailing Address:
 Owner's Mailing Address:
 Facility Location: Latitude Longitude
 Washout Location: Latitude Longitude

KDHE Representative: Arthur Fink KWPC Permit No.
 Inspection Date: Previous Inspection Date:

	Yes	No	N/A
Is there an enforcement order against the permittee for this facility?	<input type="checkbox"/>	<input type="checkbox"/>	
If yes, are they in compliance with the enforcement order?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples collected, and/or split with the facility?	<input type="checkbox"/>	<input type="checkbox"/>	

II. Contacts and Responsible Staff

Name	Present	Title	Email Address	Telephone No.
<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

III. Facility Information

	Yes	No	Comments
a. Briefly describe the operation and condition of the facility.			<input type="text"/>
b. Is the facility description in the permit accurate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
c. Describe any significant changes, additions or improvements to the facility since the last inspection.			<input type="text"/>
d. Is facility proposing any modifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

Non-Q RMC NPDES project



- Prior to starting the compliance assessments, SBEAP staff trained with KDHE district staff to assure compliance with KDHE protocols and requirements
- Final reports based on the compliance assessments were generated by SBEAP and then sent to facility, the KDHE district office, and KDHE BOW in Topeka
- Any corrective actions needed for a facility to get back into compliance were enforced by the KDHE

Compliance Assessments



- 100 Non-Q RMC facilities
 - North Central District – 22
 - Northeast District – 23
 - Southeast District – 12
 - South Central District – 18
 - Southwest District – 12
 - Northwest District – 13

Non-compliance issues

- The vast majority were paperwork issues
 - Keeping all aspects of the SWPPP up to date with any minor operational or personnel changes (training logs, detergent/descaler logs, facility maps)
 - Completing quarterly/annual inspections as required
- Aside from paperwork, the next biggest issue was labeling of the facility outfall in the field
- The following chart shows the district breakdown of these non-compliance issues



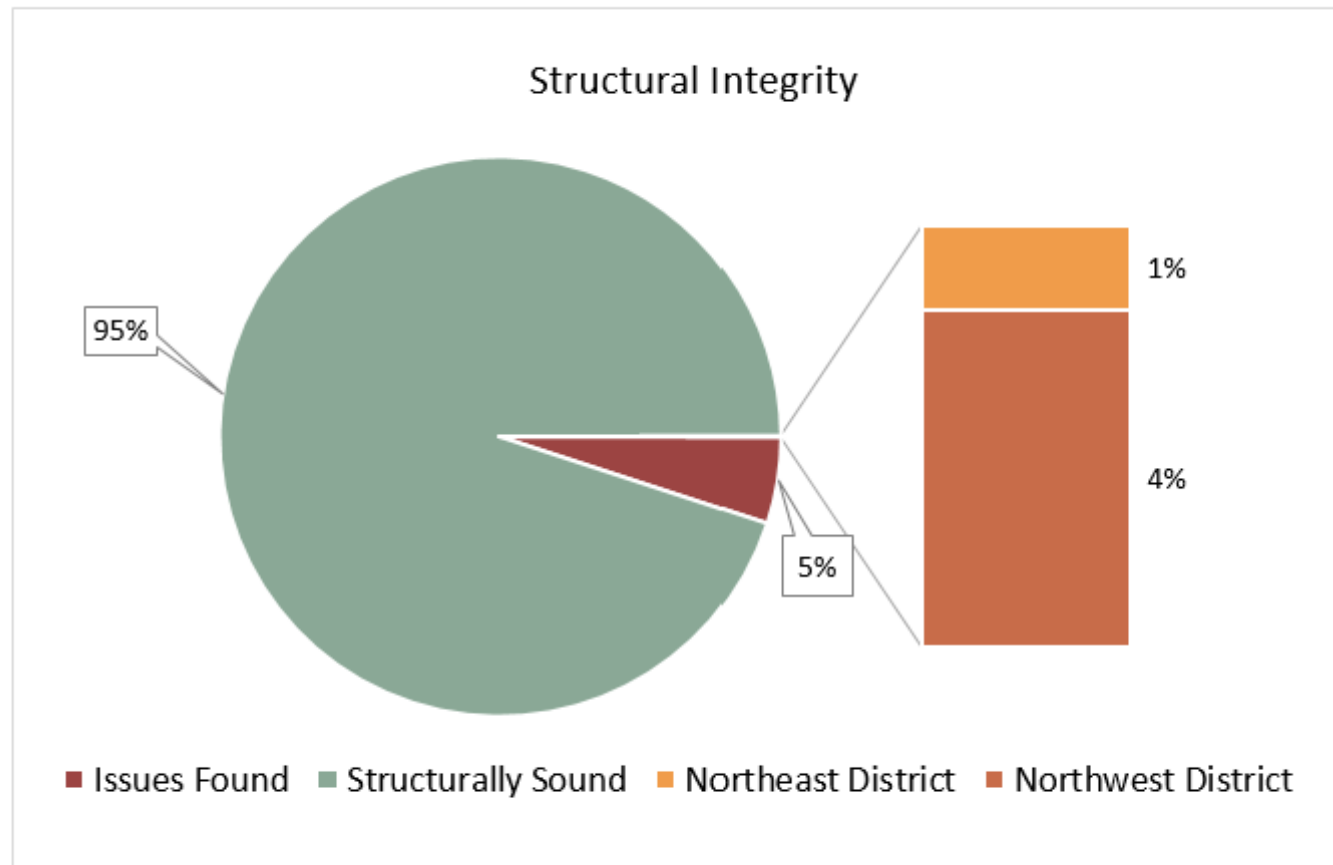
Structural Issues

These were issues involving the washout containment structure

Two main points to consider when looking at this data

1. Portable RMC plants must meet the SAME washout requirements as permanent plants
2. Western Kansas facilities that had been allowed to discharge into non-engineered drainage catchments are being required to come into the fold with the rest of the state and meet containment structure regulations.

Structural Integrity

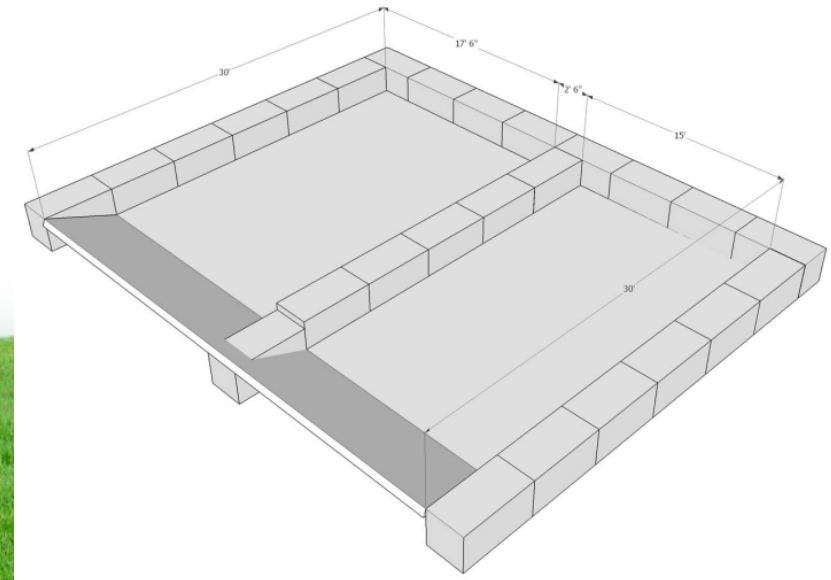


Structural issues were not found in the Northcentral, Southeast, Southcentral, and Southwest districts

A few notes on containment structures..



- Structures are designed for a given capacity – changes in operation may require changes in washout water management
- KDHE has approved a containment structure design utilizing formed concrete blocks and a steel-reinforced concrete slab – contact SBEAP or KDHE BOW for more information



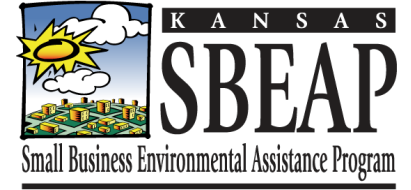
Final comments



A big thank you to KDHE BOW for allowing SBEAP to have this opportunity to serve the ready mix concrete industry in Kansas and to KAPA-KRMCA for allowing us access to its yearly conference and their members.

If anyone has specific questions or comments about this project or specific compliance assessments, please visit the SBEAP booth during the conference.

Kansas SBEAP contact info



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2022 General Permit Changes



- Updated permit numbering and dates.
- Requires existing facilities to submit a new NOI to continue coverage, or submit an individual permit application to change coverage to an individual NPDES permit by March 1st, 2023.
- Monitoring requirements – no change.
- Requires documentation of the amount and type of detergents, cleansers or other additives used. Permits discharge of wash water only from chemical/additive free washing. Requires non-discharging containment of wash water with additives. – no change.
- Incorporates "Attachment A" into permit, which standardizes the SWP2 Plan to those typical of all Industrial Facilities. – no change.
- Requires an updated SWP2 Plan that clearly identifies each wastewater structure and each stormwater outfall on the SWP2 Plan Map and in the field. – no change.
- Requires a SWP2 Plan Certification and up-to-date site map – no change.
- Requires Annual Comprehensive Site Compliance Evaluation to be submitted to KDHE-BOW by October 1st of each year. – no change.

2022 General Permit Changes cont.



For identified settlement and containment structures, requires permittee to indicate whether each structure is in compliance with KDHE Industrial Wastewater Lagoon Requirements (K.A.R. 28-16-160 through 174). For any structure not meeting these requirements, a structure upgrade schedule must be provided to bring the facility into compliance with the regulations. . The Director may require the permittee to request coverage and obtain an alternative individual permit if the structure upgrade schedule is unacceptable or if site conditions are not in compliance with this general permit.

- Updated Permit Standard Conditions and Attachment “A” – Using December 1, 2021 Standard Conditions; Updated links to guidance for Stormwater Pollution Prevention Plans.
- Updated NOI forms and Instructions, including addition of the SWP2 Plan Certification form and the Containment Structure Chemical Additives Log.
- Modified permit supplemental condition #17 to clarify that for closure of a facility, a Notice of Permit Termination (NOPT) form along with documentation demonstrating compliance with permit requirements.

KEIMS information



- Typical ready-mix permit applications in KEIMS:
- Five year renewals: most renewals were due by September 30, 2022
- Notice of Termination: Permits/facilities must be inspected before termination is approved. To avoid a possible lengthy waiting time, for an inspection and approval, submit photos of the cleared/reclaimed site, with the Notice of Termination for. If all is in order the termination can be approved without a formal inspection.
- Modifications: This includes those facilities that have added a basin for facility to become a non-discharging facility (no monitoring)
- Transfer of Ownership: For now, still using paper applications from our website until KEIMS is updated.

KEIMS information cont.

Important dates:

- Monitoring is expected to change from EDMR system to KEIMS as of April 1
- Quarterly reports will continue to be standard quarters, with reporting due within 30 days
- Annual fees will continue to be due on October 1. The fee can be paid 30 to 45 days prior to due date.
- Annual stormwater comprehensive site compliance evaluation due on October 1. This can be submitted within 60 days prior to October 1 or as soon as KEIMS sends out a reminder notification.
- At this time, still accepting paper applications, but eventually will only accept KEIMS submittals only

KDHE BOW contact info



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