

Ready for rain?

It's October and the rainy season is fast approaching. Are you prepared for another storm season under two Construction General Permits? In this month's edition of **The Monthly Dirt**, we interviewed QSP Dan Baumbach about what kind of preparation is needed, the difference between QPEs under the 2009 and 2022 CGPs, and how to make sure your site, trained delegates, and sampling kit is ready for rain.

To start off we asked Dan to outline the differences between Qualified Precipitation Events (QPEs) under each Permit as this information is very pertinent to how a QSP is to prepare for the rainy season if they are overseeing multiple sites.

2009 – "In the 2009 Permit, QPEs are known by another term, Qualified Rain Events, and they are defined as any event that produces 0.5 inches or more precipitation with a 48-hour or greater period between rain events. This straightforward definition makes it easy to track as you keep your eye on the rain gauge. If a storm produces 0.5 inches of rain, it is a Qualified Rain Event."

2022 – "Things get a little more nuanced under the 2022 CGP. Here is the definition from the CGP, "A qualifying precipitation event is any weather pattern that is forecast to have a 50 percent or greater Probability of Precipitation (PoP) and a Quantitative

Precipitation Forecast (QPF) of 0.5 inches or more within a 24-hour period. The event begins with the 24-hour period when 0.5 inches has been forecast and continues on subsequent 24- hour periods when 0.25 inches of precipitation or more is forecast."

Let's break this down and see if we can understand this definition.

- A QPE is any weather pattern that:
 Has a 50% or greater Probability of Precipitation (PoP), and
- A Quantitative Precipitation Forecast (QPF) of 0.5 inches or more in a 24-hour period. Another way of saying "quantitative precipitation forecast" is simply "amount of rain forecast".
- A QPE continues for subsequent 24-hour periods if 0.25 inches or more of precipitation is forecast.

Both the PoP and the QPF can be found on NOAA's website (https://

www.weather.gov/wrh/wxtable). On there you can even create custom thresholds to help identify QPEs, as well as creating permanent links for each location to make it easy to keep an eye on each of your sites."

How do you as a QSP handle the different requirements for QPEs under two permits?

"Navigating the different QPE requirements under the 2009 and 2022 CGP Orders is definitely challenging, but with a strategic approach, you can maintain compliance efficiently across your projects. It is critical that you understand the differences between the two QPEs. Use technology to your advantage with tools like real-time weather apps and automated alerts. Perhaps you might make a list or spreadsheet of your sites with their individual requirements based on their permit, if they have any delegated inspectors, etc. to help you manage your inspections. You might

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consider utilizing some storm water compliance software that integrates weather forecasting data to help you track ongoing events, but keep in mind that the CGP only allows NOAA forecasts for tracking QPEs. This storm season will be the last hurrah for the 2009 permit coverage, and ongoing projects will need to obtain coverage under the 2022 permit after August 31, 2025."

Preparing for Storm Season: A QSP's Guide

"As storm season approaches, preparation is key to ensuring compliance and keeping your construction site from potentially polluting storm water. From pre-storm season planning to ensuring your team is ready, let's walk through some of the essential steps a QSP should take.

How does a QSP prepare for storm season?

- Review the Site's SWPPP
 Before the rainy season begins, review
 your Storm Water Pollution Prevention
 Plan (SWPPP). Ensure all BMPs are
 updated and adequate for upcoming rain
 events. Confirm the SWPPP reflects the
 latest site conditions, as any changes in
 site layout, grading, or construction
 phases can affect storm water flow and
 BMP effectiveness.
- Conduct Pre-Season Site Inspections
 Perform thorough inspections of BMP installations like silt fences, fiber rolls, and storm drain inlet protections. Look for any wear and tear, erosion, or degradation that may have occurred during the dry season.
- Coordinate with Your Team
 Hold a storm season prep meeting with
 your team and any delegated inspectors
 to review roles, responsibilities, and the
 inspection schedule during QPEs.
 Everyone should understand their tasks
 before, during, and after a storm event.

How should a construction site be prepared for the upcoming rainy season?

Preparation starts long before the first rain hits. Here are key steps for preparing your site:

Stabilize Exposed Areas
 Any bare soil or exposed areas need erosion control measures like hydroseeding, mulching, or temporary stabilization to prevent sediment from being washed away. Cover any stockpiles, and install perimeter controls to contain

- potential runoff.
- Ensure Drainage Is Clear Check all storm drains, ditches, and culverts for blockages. Clearing out debris ensures proper water flow and reduces the risk of localized flooding or erosion.
- Stockpile Materials for BMPs
 Have extra BMP materials like fiber roll,
 gravel bags, or sandbags on-site and
 ready to deploy when rain is forecasted.
 This ensures quick responses if you
 need to reinforce BMPs as the storm
 season progresses.
- Secure Hazardous Materials
 Runoff can quickly spread pollutants.
 Ensure that any hazardous materials or
 chemicals are stored in weatherproof
 containers and are located in areas
 where runoff won't come into contact
 with them.
- Protect Active Work Areas
 If work continues during the rainy season, protect active construction zones with track-out controls and drainage controls to prevent mud and sediment from leaving the site.

How should delegated inspectors prepare for the storm season? As a QSP, you may delegate some storm water inspection duties to trained team members. Here's how to ensure they are prepared:

- Provide Site-Specific Training
 Ensure that delegated inspectors
 receive site-specific training that covers
 the unique conditions and BMPs of the
 construction site. Each inspector should
 know what to look for and how to
 handle site-specific challenges.
- Review Inspection Protocols
 Delegated inspectors need a clear
 understanding of the required
 inspection types: pre-storm, during storm, and post-storm inspections.
 Provide them with a checklist or form to
 ensure consistent documentation.
- Ensure Equipment Readiness
 Make sure your inspectors are equipped
 with the right tools such as
 weatherproof cell phone case, rain
 gauges, and sampling equipment to
 document site conditions during
 inspections.
- Plan for Emergency Responses
 If storm damage occurs or BMPs fail,
 inspectors should know how to escalate

issues and who to contact for repairs. This includes understanding the corrective action process and knowing how to log critical issues in compliance reports.

What kind of sampling preparation is needed?

Sampling is an important aspect of storm water monitoring, particularly when water quality standards are in question. Here's how to prepare for sampling during the rainy season:

- Inspect and Calibrate Sampling Equipment
 - Before the storm season starts, check that your pH meters, turbidity sensors, and other sampling devices are working properly. Ensure that all equipment is calibrated according to the manufacturer's instructions and properly stored.
 - Identify Sampling Locations
 Make sure you've identified all required sampling locations based on your SWPPP. This may include discharge points, receiving waters, or areas prone to runoff.
- Train Sampling Personnel
 Your sampling team must be trained in
 proper sampling techniques and
 documentation. They should know how
 to collect samples following both visual
 assessments and quantitative analysis
 (e.g., pH and turbidity measurements)
 based on storm water discharge criteria
 under the CGP.
- Have Sampling Kits Ready
 Assemble sampling kits in advance that include sample bottles, gloves, chain-of-custody forms, etc. These should be easily accessible to the team, especially when rain is forecasted, to ensure timely collection and processing."

Don't wait until the rain starts to begin preparing for the storm season, start implementing a plan now to ensure you stay in compliance for each QPE.

Please contact us if you have any questions ... The Monthly Dirt

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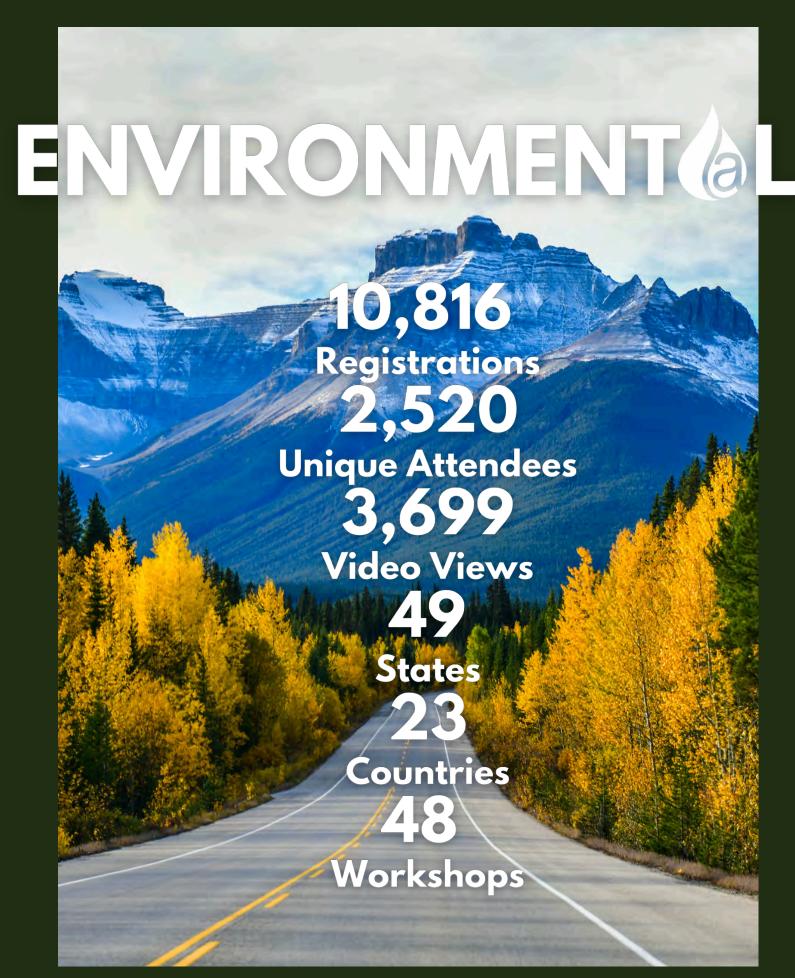
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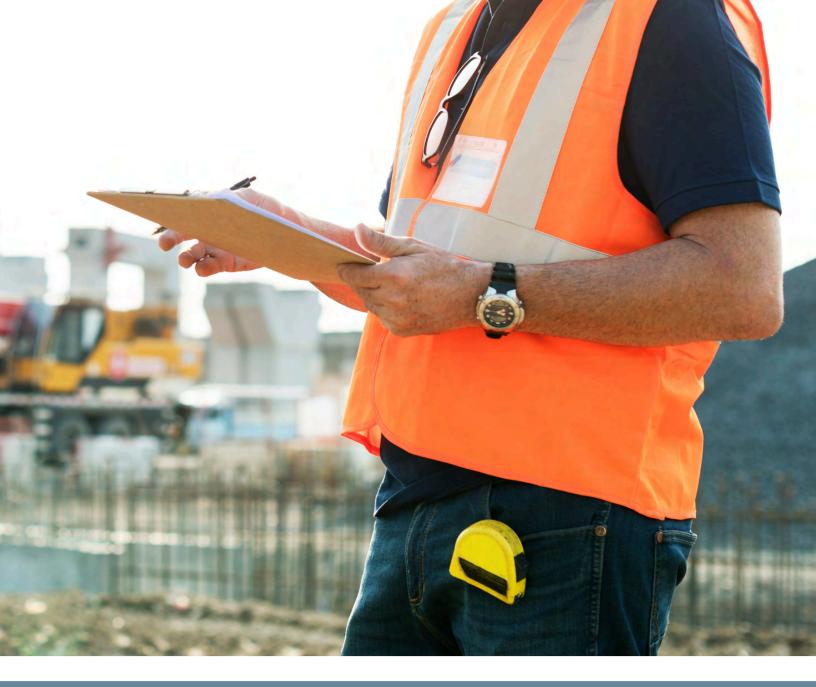
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