

U.S. EPA Update: National Drinking Water Protection Program

| February 17, 2020



OFFICE OF GROUND WATER
AND DRINKING WATER



EPA'S UNDERGROUND INJECTION CONTROL PROGRAM PRIORITIES

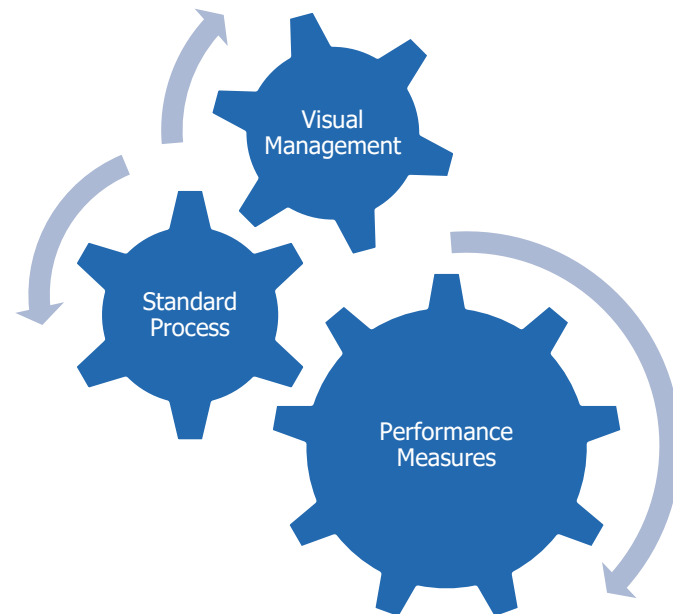
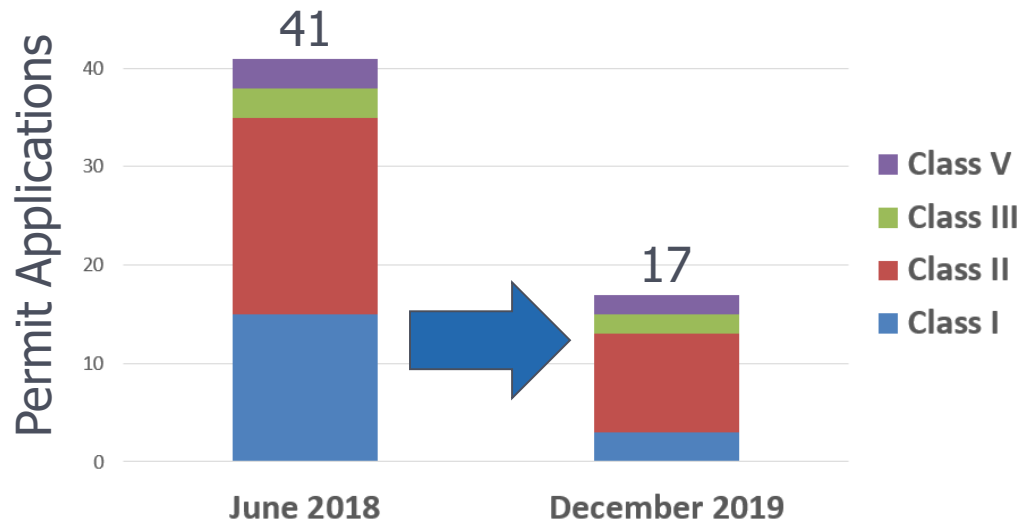
- Improving efficiency and transparency
- Building strong partnerships and engaging stakeholders
- Investing in training and education
- Balancing protection and sustainability

Improvements in Efficiency



UIC Permitting

UIC DI Permit Applications >180 Days



45Q Tax Credit for Carbon Oxide Sequestration

- Provides tax credits to eligible CCUS projects, including carbon oxide disposed of in secure geological storage
- Congress amended 45Q with the 2018 Bipartisan Budget Act (BBA)
- Department of Treasury and IRS “anticipate issuing regulations and other guidance to implement the provisions of 45Q” (IRS Notice 2019-32)

Then	Now
<ul style="list-style-type: none">• Captured <i>carbon dioxide</i> eligible for credit• \$20 per ton stored• \$10 per ton utilized for EOR• Capped at 75 million tons in total	<ul style="list-style-type: none">• Captured <i>carbon oxides</i> eligible for credit• Up to \$50 per ton stored• Up to \$35 per ton utilized (EOR or other)• Credit can be claimed for up to 12 years• Projects must start construction before Jan. 1, 2024



UIC Data Application- Qlik Stream

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Sheets Bookmarks Stories

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Cover Page



Inventory



Permits



Violations



Enforcement
Actions



SNC Enforcement
Actions



Other Compliance
Evaluation Data



Inspections



SNC Violations



Violations



Mechanical
Integrity Data



MIT- Significant
Leak

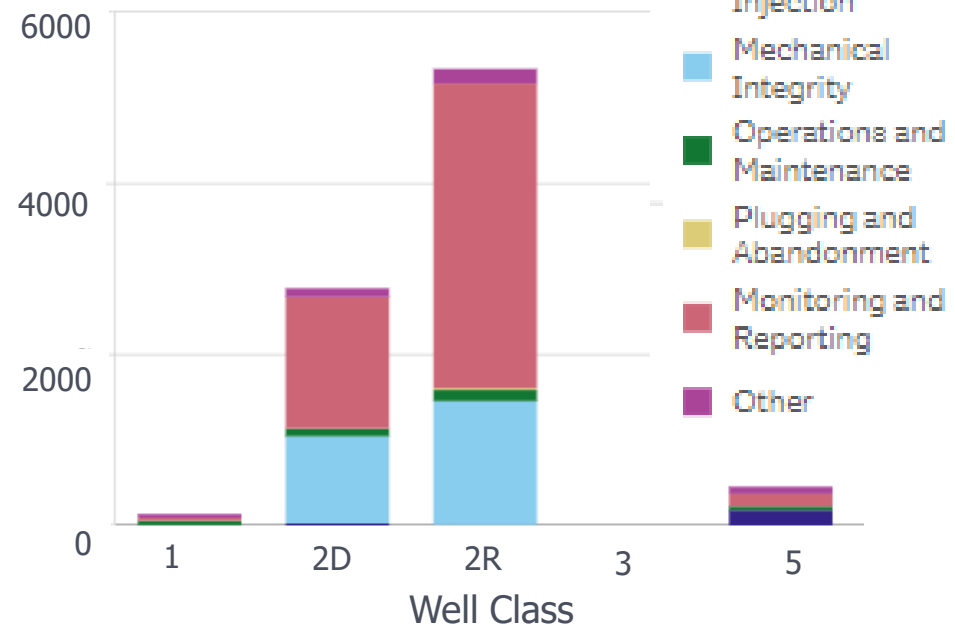
Data
Visualization
Tools to Increase
Effectiveness:
Qlik Reports

Data Visualization Tools to Increase Effectiveness

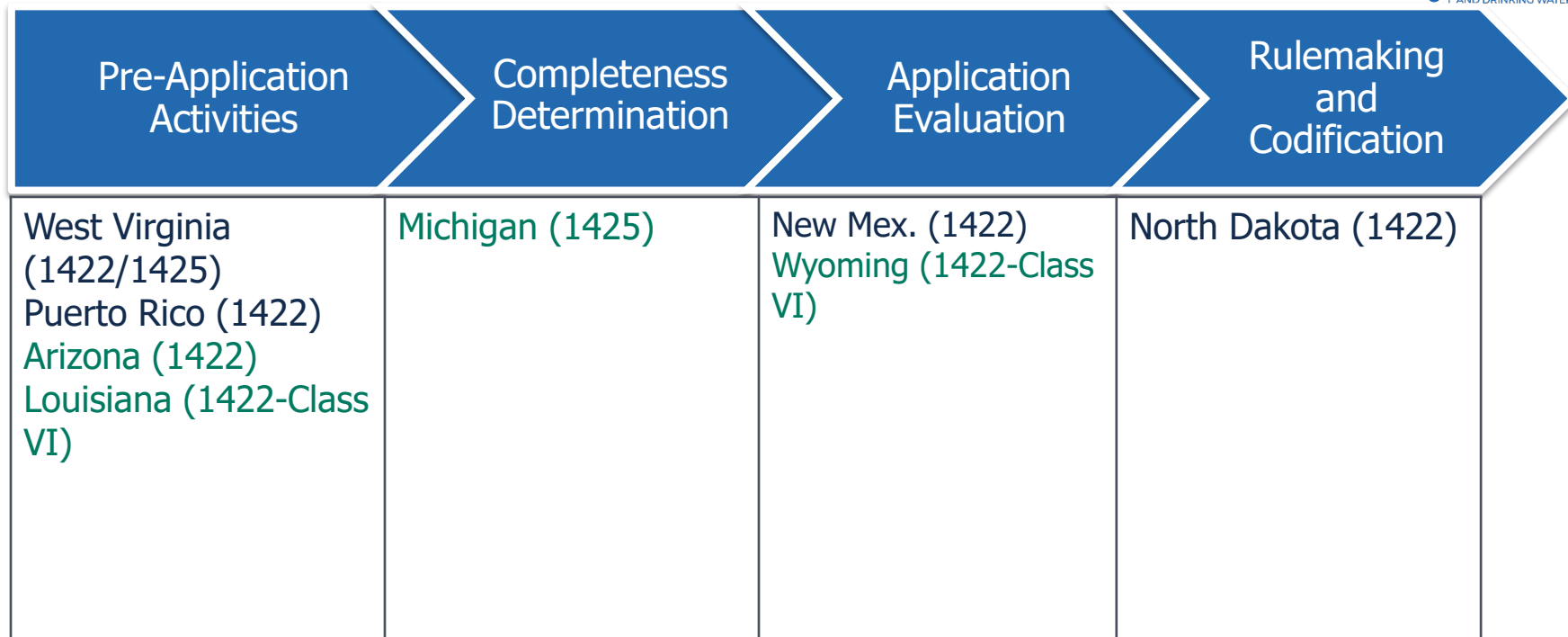
- Qlik reports available in the UIC Data Application
- FY19 4Q data shows data from about 80% of programs
- Class II wells received around 90% of violations
- Greatest numbers of violations
 - monitoring & reporting, overall
 - mechanical integrity for Class II
 - unauthorized injection for Class V



Types of Violations in FY 2019



UIC Primacy Applications and Program Revisions



Program Revisions; New Primacy Applications

<https://www.epa.gov/uic/primary-enforcement-authority-underground-injection-control-program>

Improving Efficiency and Transparency

UIC Comprehensive Program Evaluations (CPE)

Comprehensive UIC Program Evaluations February 21, 2019

Introduction

The mission of the EPA's Underground Injection Control (UIC) program is to prevent endangerment of underground sources of drinking water (USDWs) where injection activities are occurring. States, tribes, and territories (referred to collectively as "primacy programs" in this document) may apply for, and the EPA may grant, by rulemaking, primary enforcement responsibility ("primacy") for all or part of the UIC program. These primacy programs are then responsible for permitting or, in the case of rule-authorized wells, otherwise regulating underground injection wells so they do not endanger USDWs as required by the Safe Drinking Water Act (SDWA).

The EPA conducts UIC program oversight to help ensure that states who have been granted primacy continue to implement their programs in a manner consistent with the SDWA and their memorandums of agreement (MOAs) with EPA. EPA oversees UIC program performance within a robust framework that governs states and EPA UIC program implementation. A key resource for UIC program oversight is EPA's Guidance 30: *Interim Guidance for Overview of the Underground Injection Control Program* (Guidance 30). Guidance 30 supports the EPA UIC program in applying certain oversight framework elements in a consistent manner.

Guidance 30 identified four elements of the UIC oversight system: Annual (federal) reporting, grant reporting, noncompliance reporting, and program evaluations. The UIC program has evolved since Guidance 30 was developed, and EPA, in more recent years, has conducted two types of program evaluations: (1) annual performance reviews based on negotiated work plans related to UIC grant funds; and (2) comprehensive program evaluations.

The purpose of this document is to:

- Clarify the scope of comprehensive UIC program evaluations conducted by EPA.
- Present the general steps associated with comprehensive primacy program evaluation plans.
- Identify the core program elements that EPA will examine during a comprehensive primacy program evaluation process.

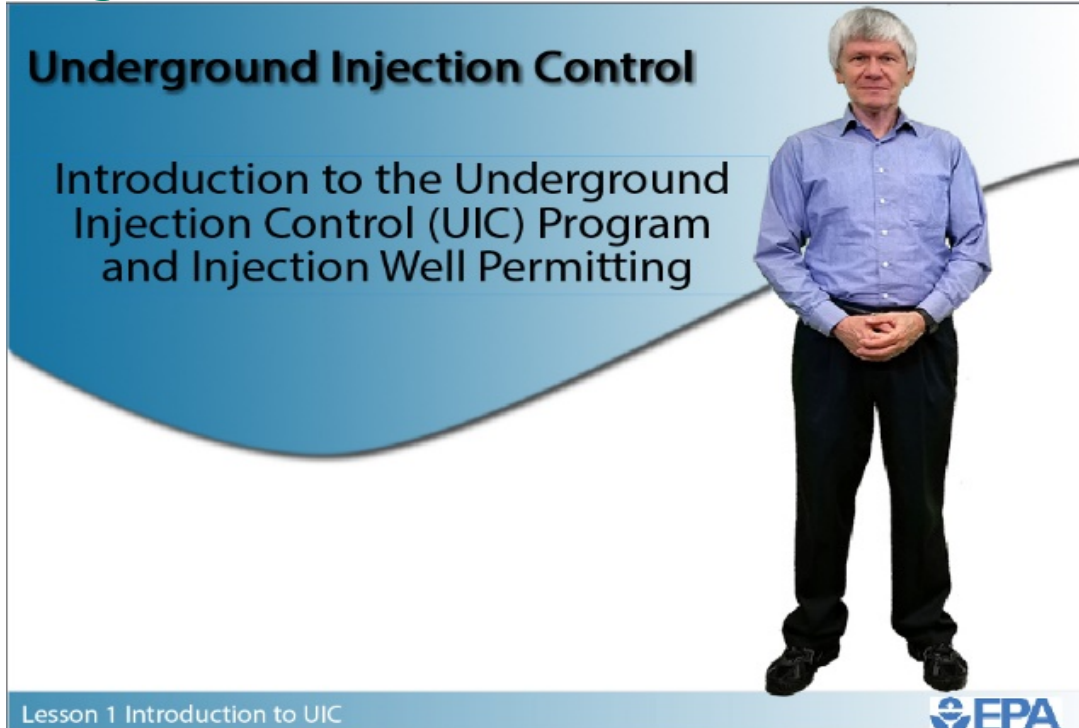
The EPA undertook this effort to bring consistency to comprehensive program evaluations of authorized UIC programs across regions; to establish clear expectations for primacy programs regarding what such evaluations will entail with respect to scope and information that EPA may request that a primacy program provide; and to help EPA identify issues where clarity is needed to achieve national consistency wherever possible.

This document is based on Guidance 30 and is intended to be used by regional UIC programs to guide the comprehensive program evaluation process. In addition to any general and/or agency-specific questions, EPA regions are encouraged to share this document with primacy programs in advance, so states may be prepared for the evaluation. Comprehensive program evaluations

1

- EPA's framework for conducting UIC comprehensive program evaluations (CPE) brings **transparency** to the oversight process and establishes **consistency** in EPA state primacy program reviews.
- Consistent with the final CPE established for well classes I, II, III, and VI, the Class V addendum establishes a transparent program-level approach to EPA oversight.


UIC Training Initiative



Underground Injection Control

Introduction to the Underground Injection Control (UIC) Program and Injection Well Permitting

Lesson 1 Introduction to UIC



More information can be found at: <https://www.epa.gov/uic>

NATIONAL WATER REUSE ACTION PLAN

DRAFT



Draft National Water Reuse Action Plan

Other Sustainability Issues





THANK YOU