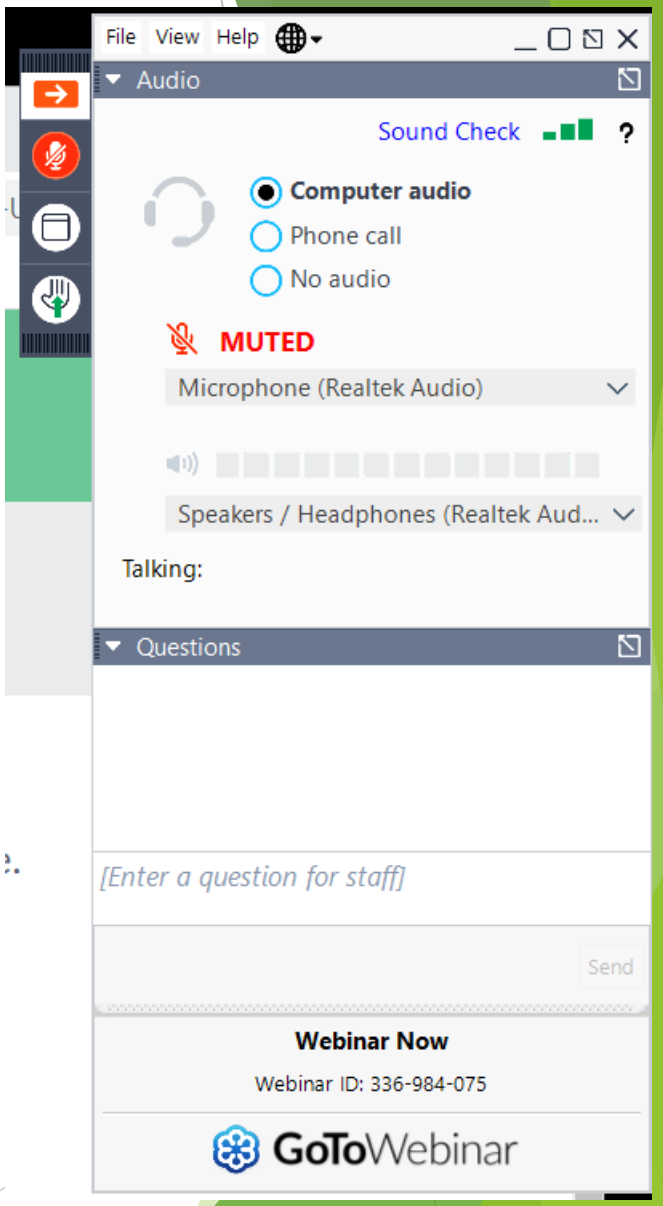
2020 ASTSWMO RCRA Corrective Action Virtual Conference: Day 1

September 1, 2020

Before we start

- All attendees are muted throughout the webinar.
- **Questions:** Use the Questions Pane in the control panel to send questions to the speakers throughout the webinar.
- **Note who the question is directed to in your submittal.**
- The webinar is being recorded and will be made available on the ASTSWMO website.



About Videos

- There are a couple of videos during this presentation.
- Audio for the videos will come through the computer speakers, even if you are using a phone for your audio. So please remember to make sure your computer isn't muted and your volume is at controlled level.
- There have been issues in the past where the audio won't play for some attendees, we apologize in advanced if this happens. To mitigate this we have uploaded the videos to youtube and a link will be posted in your question area before the video begins. Feel free to watch the video at your leisure.
- We also included subtitles on the videos so you can read along if you choose to as well.

September 1, 2020 Agenda

1:00 – 1:30 PM	Logistical Announcements Welcome and Introductory Remarks Keynote Address
1:30 – 2:30 PM	Corrective Action – Beyond 2020
2:30 – 2:45 PM	Break
2:45 – 4:15 PM	PFAS and Redevelopment in Corrective Action
4:15 PM	End of Day 1

Conchita Taitano, Guam
ASTSWMO President

Welcome

Peter Wright

Assistant Administrator

U.S. EPA Office of Land and Emergency Management

Keynote Address

CELEBRATING OUR ACCOMPLISHMENTS MOVING BEYOND 2020

PETER WRIGHT
ASSISTANT ADMINISTRATOR
OFFICE OF LAND AND EMERGENCY MANAGEMENT
US ENVIRONMENTAL PROTECTION AGENCY

ASTSWMO 2020 CORRECTIVE ACTION CONFERENCE

Beyond RCRA
Waste and Materials Management in the Year 2020
2020
sustainable use of resources
life cycle approach to managing chemical risk
safe, environmentally sound waste management
2002
EPA
United States
Environmental Protection
Agency

2020 GOALS

By 2020, 95% of Baseline Facilities to meet:

1. Human Exposures Under Control
2. Migration of Contaminated Groundwater Under Control
3. Remedy Construction

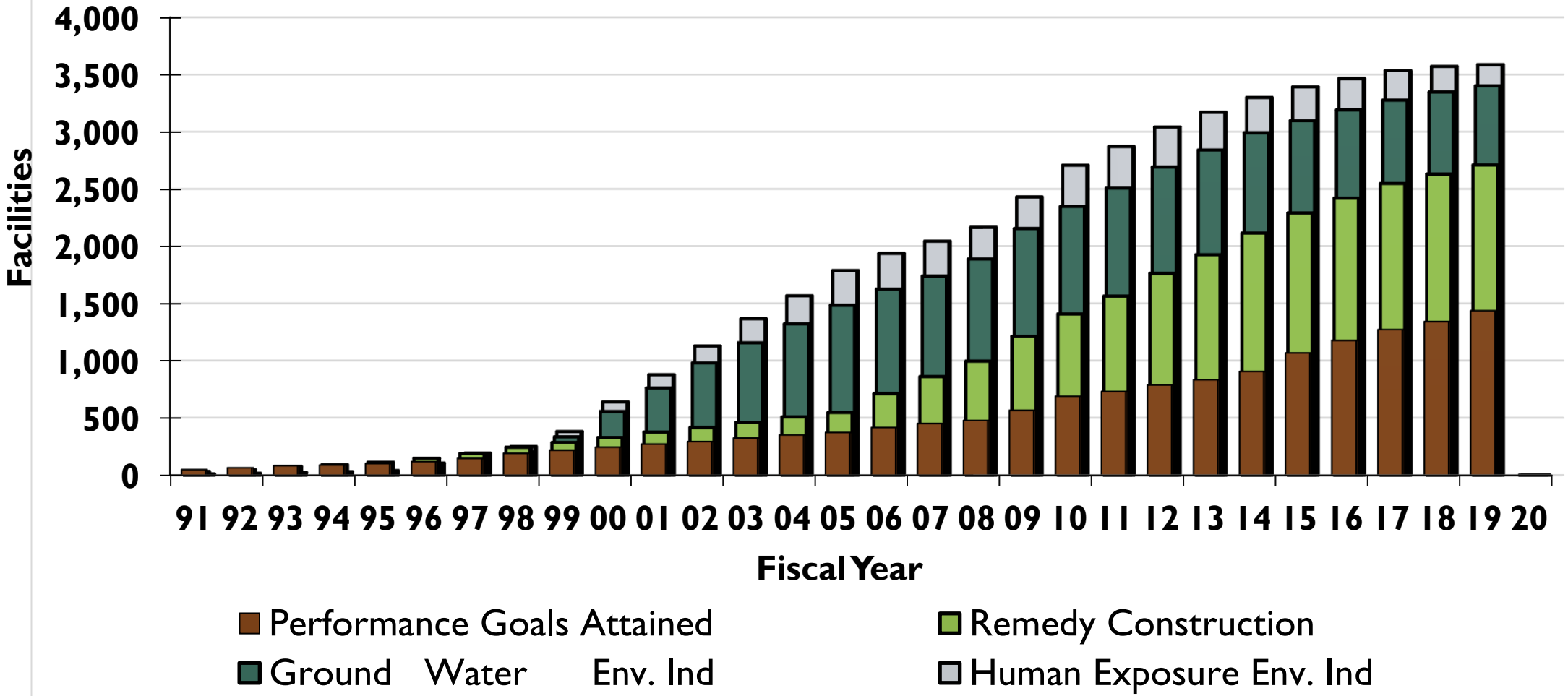
2020 GOALS

Corrective Action - 2030

2020 Projections:

- 96% - Human Exposures Under Control
- 91% - Migration of Contaminated Groundwater Under Control
- 79% - Remedy Construction

Corrective Action Progress - Program Measures 1991- 2019



BEFORE
AFTER

Corrective Action Cleanups

RCRA CORRECTIVE ACTION PROGRAM

2030 VISION, MISSION, AND GOALS

EPA RCRA Corrective Action Program

Office of Resource Conservation and Recovery | www.epa.gov/hw/ca | September 2020

RCRA Corrective Action Program Vision/Mission/Goals for 2030

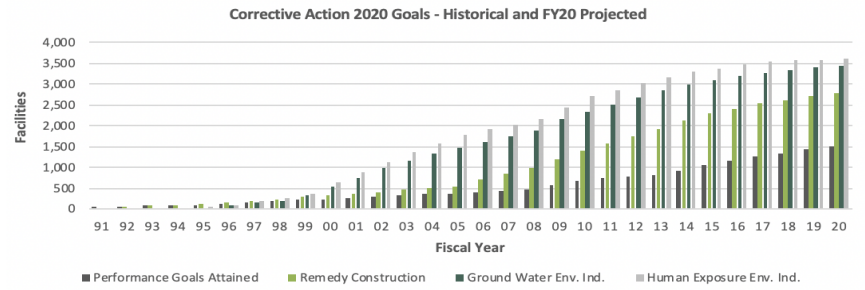
The U.S. Environmental Protection Agency (EPA) has established a new 2030 Vision, Mission, and Goals for the RCRA Corrective Action hazardous waste facility cleanup program. RCRA Corrective Action cleanups support healthy, vibrant, and sustainable communities where people and the environment are protected from hazardous contamination today and into the future.

Background

Signed into law in 1976, the Resource Conservation and Recovery Act (RCRA) set standards for responsible solid waste management and established safeguards for hazardous wastes, from generation to transportation, treatment, storage and disposal. Corrective action is a requirement under RCRA that facilities that treat, store or dispose of hazardous wastes investigate and clean up any contamination on or from the facility. EPA works in close partnership with 44 states and one territory authorized to implement the Corrective Action Program to ensure that cleanups are protective of human health and the environment at almost 4,000 facilities across the country. Approximately 111 million Americans live within three miles of a RCRA corrective action cleanup (roughly 35 percent of the U.S. population).

2020 RCRA Corrective Action Goals

The current corrective action program has been driven by aspirational goals that were focused on meeting certain cleanup measures by the year 2020. Our ambitious goal was to meet three important milestones at 95% of facilities and we are very close! Of the 3,779 Baseline facilities currently of priority for the program we expect to meet:



U.S. Environmental Protection Agency EPA XXX-X-XX-XXX

VISION ("WHY")

RCRA Corrective Action cleanups support healthy and sustainable communities where people and the environment are protected from hazardous contamination today and into the future.

Corrective Action - 2030'

MISSION ("HOW and WHAT")

EPA, states, and tribal partners work together to ensure that owners and operators of hazardous waste treatment, storage, and disposal facilities conduct effective and efficient cleanups to protect human health and the environment, support continued use, and make land ready for reuse including, if necessary, placement of controls to protect communities into the future.

2030 GOALS

1. Through 2030, the RCRA Corrective Action Program will ensure that RCRA cleanups are initiated and completed efficiently and expeditiously. Commitments regarding what work is planned and what progress is made will be visible to the public. An ambitious universe of cleanups will be identified for completion by 2030.

    - For commitments and tracking, the program will use the relevant Corrective Action Program measures and will use flexible approaches appropriate for each region and state.

2030 GOALS

2. By 2030, the RCRA Corrective Action Program will eliminate or control adverse impacts beyond facility boundaries at RCRA Corrective Action facilities wherever practicable and the program will focus attention on cleanups that will not meet this target.

    - The program will develop procedures to:
        - identify and address emerging risk issues (e.g., vapor intrusion, evolving science), and
        - address timelines for facilities brought into the program post-2020.

3. By 2030, the RCRA Corrective Action Program will ensure or confirm that land within facility boundaries at RCRA Corrective Action facilities will be safe for continued use or reasonably foreseeable new uses wherever practicable and the program will focus attention on cleanups that will not meet this target.

    - The program will develop procedures to address timelines for facilities brought into the program post-2020.

2030 GOALS

4. By 2025, the RCRA Corrective Action Program will identify the key elements of effective Long-Term Stewardship for Corrective Action cleanups, and regions and states will have approaches in place to ensure implementation of the key elements.

    - The program will develop procedures to leverage interest and investment in new or existing commercial and community entities to sustain Long Term Stewardship controls.

5. By 2022, program procedures will be in place to regularly adjust the universe of facilities in the cleanup pipeline to reflect current program priorities.

Corrective Action - 2030'

Thank you

Luis Pizarro

Chief, RCRA Corrective Action Branch #1

Land, Chemicals and Redevelopment Division, U.S. EPA Region 3

Corrective Action – Beyond 2020

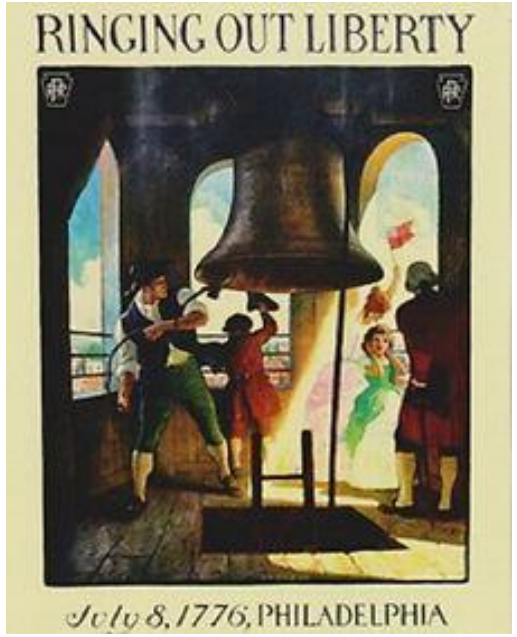
A Brief RCRA CA History Lesson

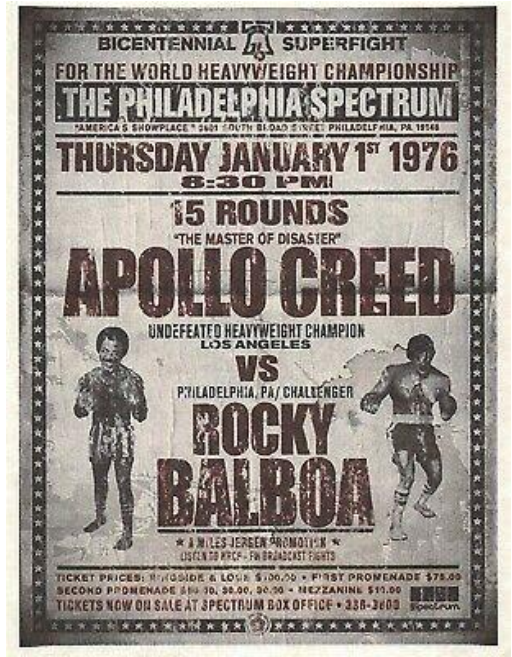
How we got here

Luis A. Pizarro, Branch Chief
Land, Chemicals and Redevelopment Division, US EPA Region 3

Credit: Hans Peter

The Big Bang

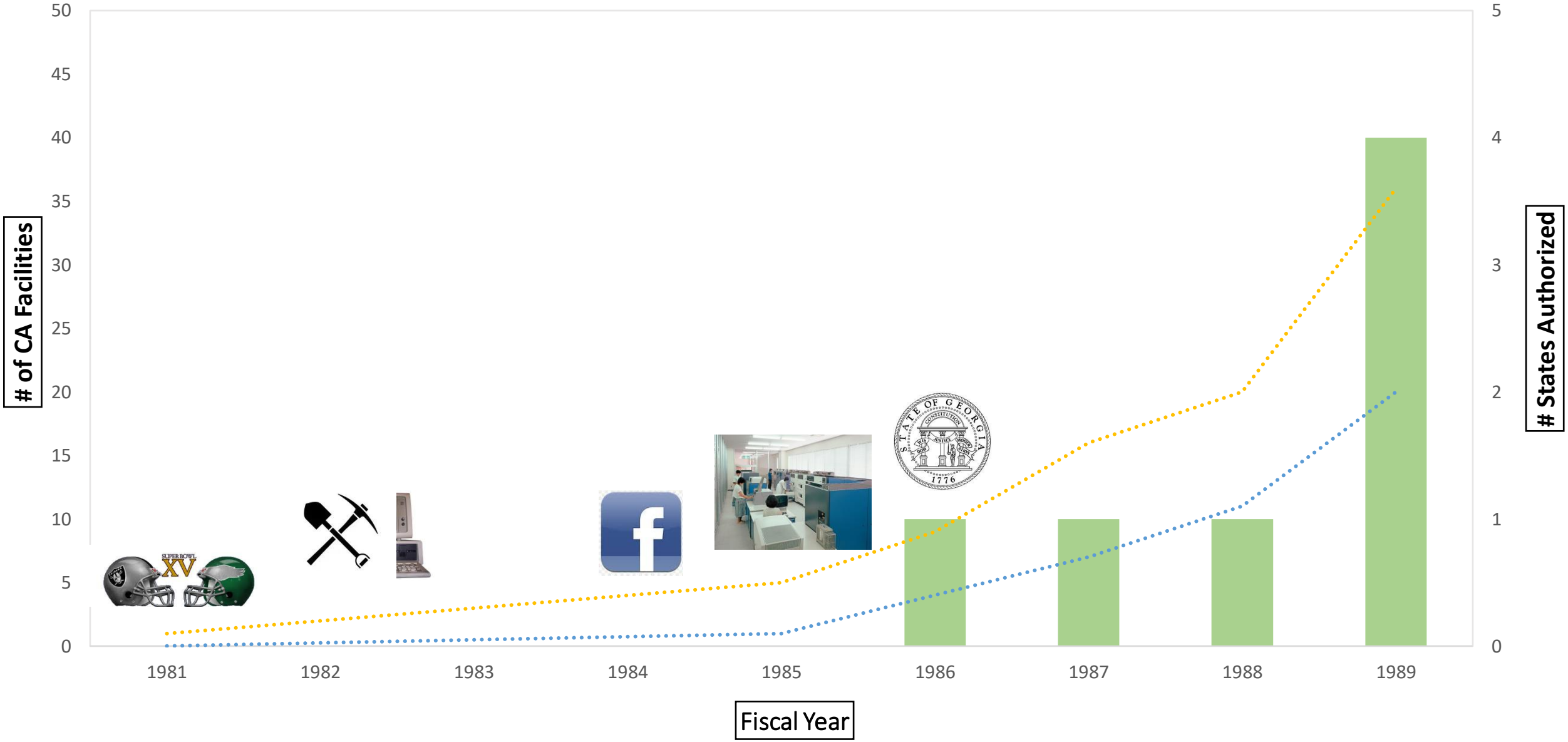

RINGING OUT LIBERTY
July 8, 1776, PHILADELPHIA


BICENTENNIAL SUPERFIGHT
FOR THE WORLD HEAVYWEIGHT CHAMPIONSHIP
THE PHILADELPHIA SPECTRUM
THURSDAY JANUARY 1ST 1976
8:30 PM!
15 ROUNDS
"THE MASTER OF DISASTER"
APOLLO CREED
UNDEFEATED HEAVYWEIGHT CHAMPION
LOS ANGELES
VS
PHILADELPHIA, PA/ CHALLENGER
ROCKY
BALBOA
TICKETS NOW ON SALE AT SPECTRUM BOX OFFICE • 336-3600

Hazardous Waste Management
Cradle-to-Grave System
Hazardous Waste Generation
Hazardous Waste Transportation
Hazardous Waste Disposal

Humble Beginnings

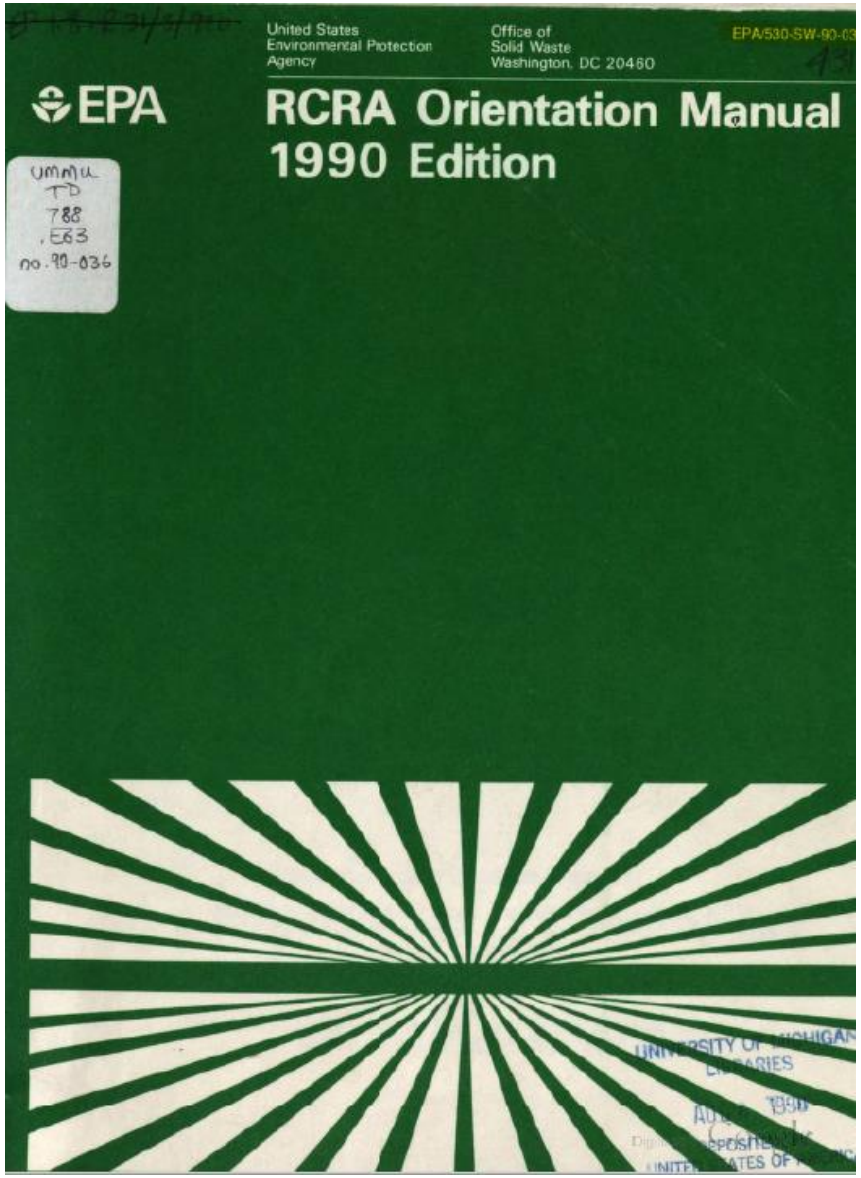
cradle to grave



The Roaring 90's

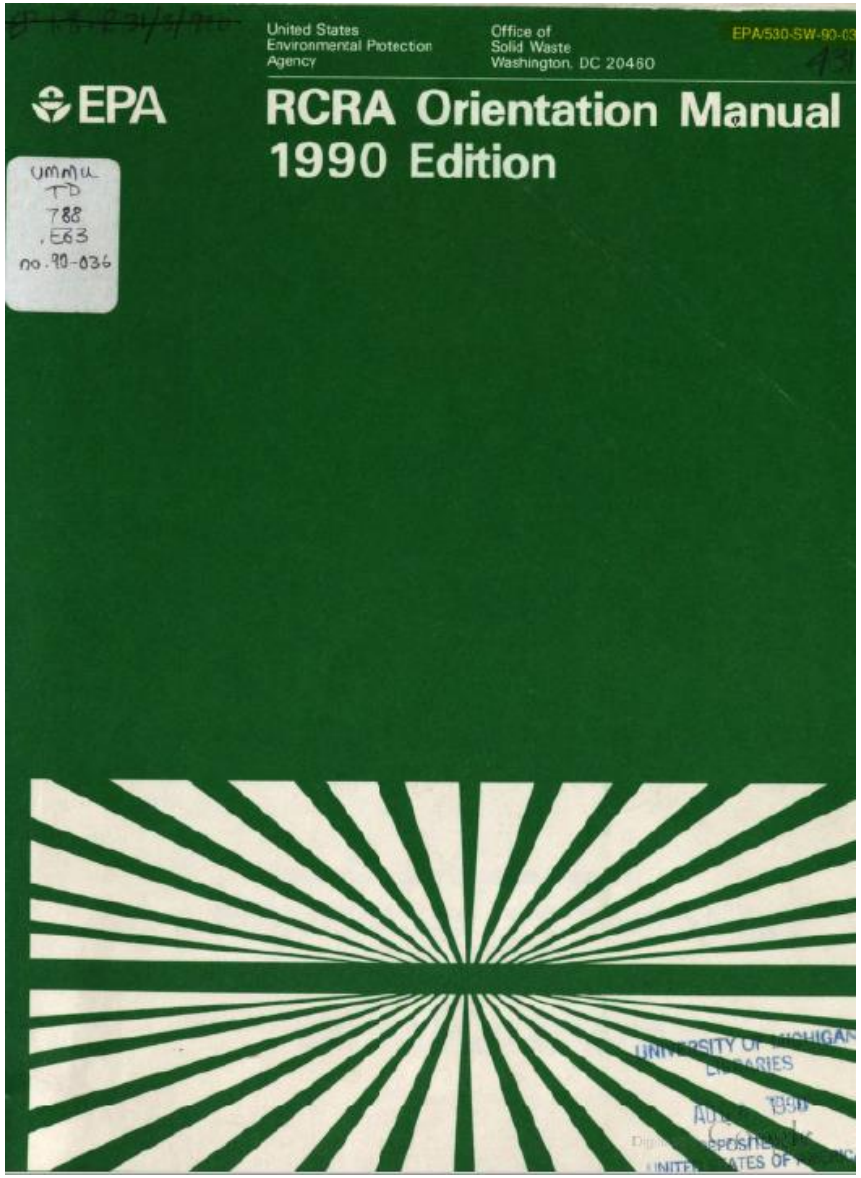
The Roaring 90's
Serendipity is real!

- 1990 – RCRA Implementation Study, Subpart S
- 1991 - Stabilization Initiative, NCAPS, CA Authorization In$entive$
- 1993 – GPRA, CAMU/TU
- 1994 - EIs, CAP and Subpart S Initiative



The Roaring 90's Serendipity is real!

- 1996 – ANPR
  - 6,190 CA Facilities
- 1998 - HWIR, Post Closure Rule
- 1999 – RCRA Cleanup Reforms – ~~Subpart S~~
  - 2005 Corrective Action (GPRA) Baseline- 1,714
    - Interim cleanup milestones
    - human exposures and groundwater Environmental Indicators (EIs)



The Roaring 90's

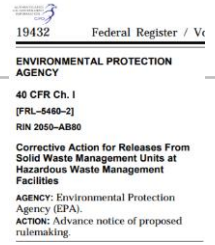
Vol. 55, No. 145

Part II

55 FR 30798

Friday, July 27, 1990

The National Corrective Action Prioritization System



19432 Federal Register / V

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Ch. I

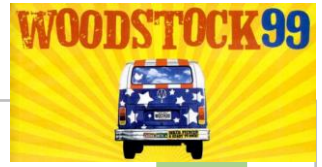
[FRL–5460–2]

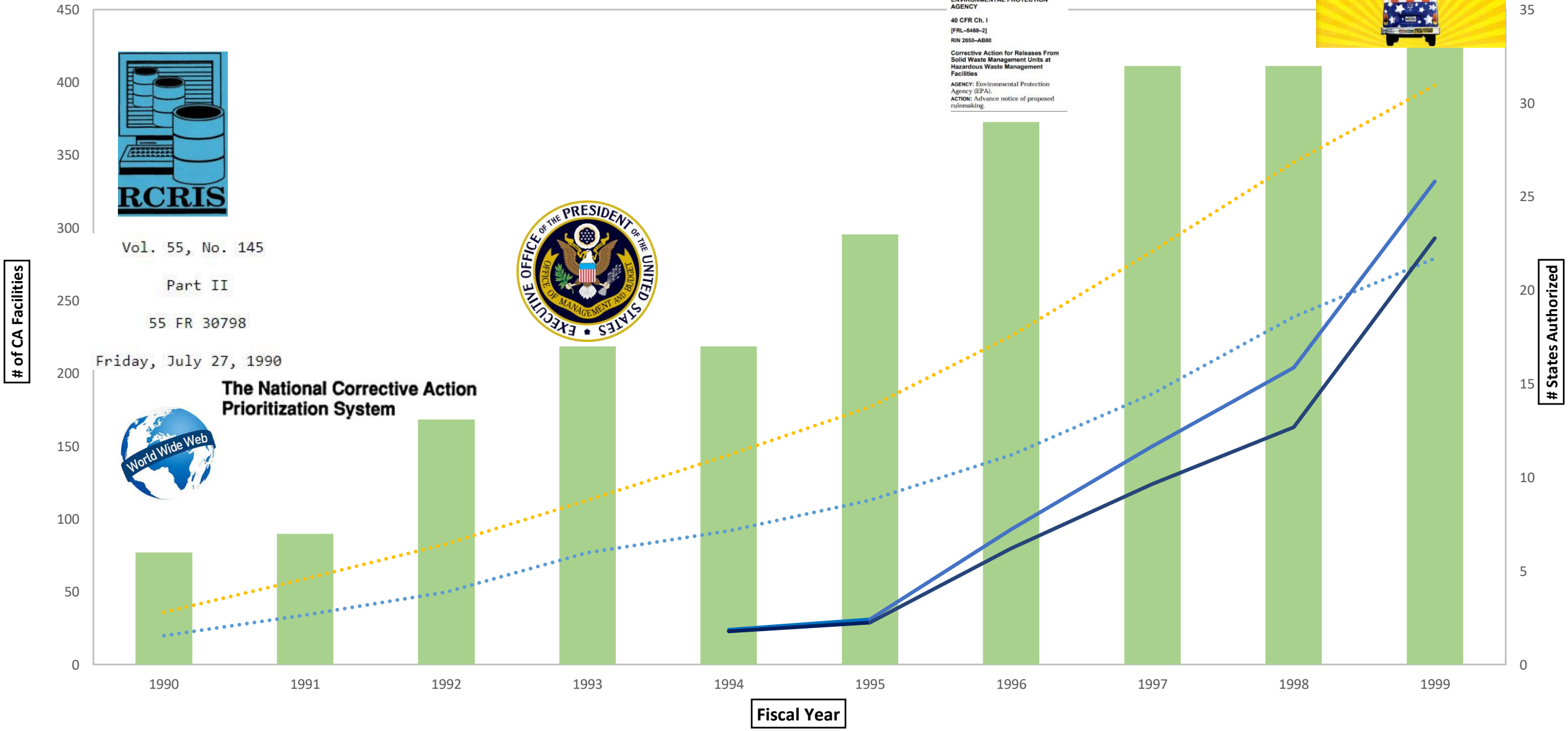
RIN 2050–AB80

Corrective Action for Releases From Solid Waste Management Units at Hazardous Waste Management Facilities

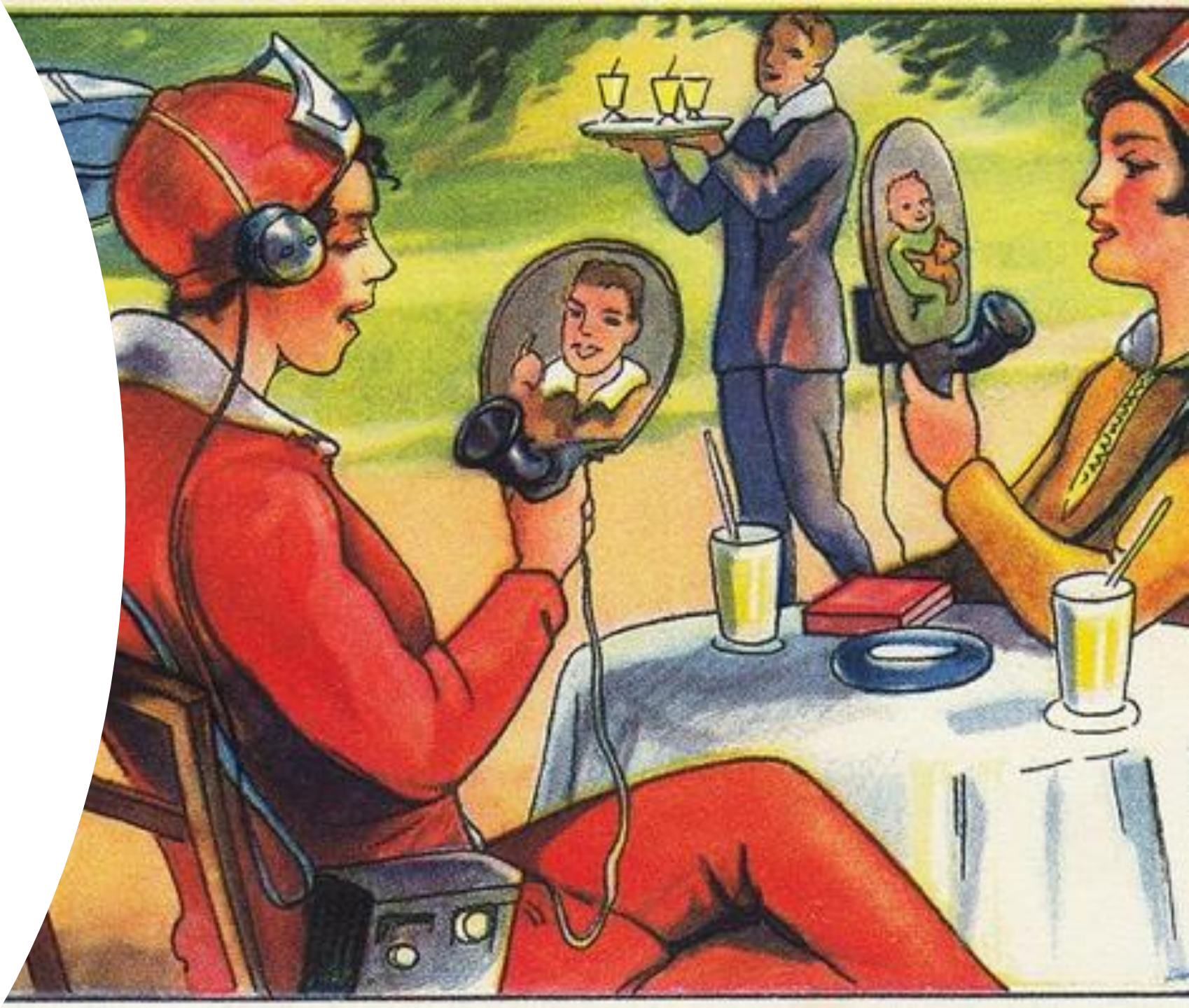
AGENCY: Environmental Protection Agency (EPA).

ACTION: Advance notice of proposed rulemaking.

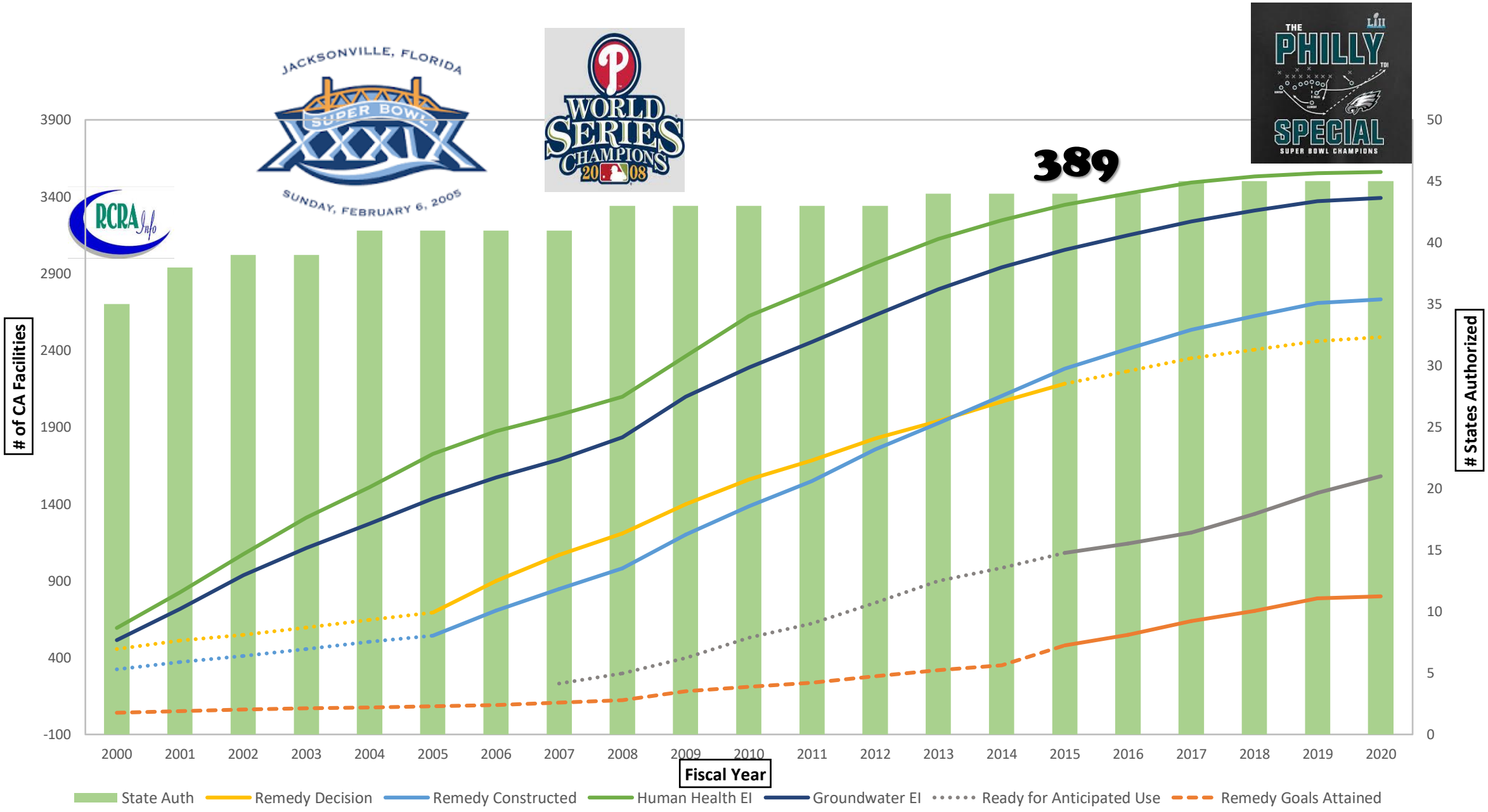




XXI Century



XXI Century


JACKSONVILLE, FLORIDA
SUPER BOWL XXXI
SUNDAY, FEBRUARY 6, 2005
WORLD SERIES CHAMPIONS 2008
THE PHILLY SPECIAL
SUPER BOWL CHAMPIONS
RCRA Info
389
# of CA Facilities
States Authorized
Fiscal Year
3900
3400
2900
2400
1900
1400
900
400
-100
50
45
40
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2017
2018
2019
2020
State Auth
Remedy Decision
Remedy Constructed
Human Health EI
Groundwater EI
Ready for Anticipated Use
Remedy Goals Attained

The future ain't what it used to be.

(Yogi Berra)

Thank You

Luis A. Pizarro
RCRA Corrective Action Branch #1
Land, Chemicals and Redevelopment Division
US EPA Region 3
215 814 3444

Charlotte Mooney
Cleanups Branch Chief, Program Implementation and Information Division, U.S. EPA Office of Resource Conservation and Recovery

Corrective Action – Beyond 2020

CORRECTIVE ACTION – THE NEXT 10 YEARS
HOW WE GO THERE!

CHARLOTTE MOONEY
CLEANUP PROGRAMS BRANCH
US ENVIRONMENTAL PROTECTION AGENCY

ASTSWMO 2020 CORRECTIVE ACTION CONFERENCE

AGENDA

- 2020 Goals – Thank You
- New 2030 Vision, Mission, and Goals
- The Next 10 Years
  - 2030 Program Plan

2020 GOALS

Corrective Action - 2030

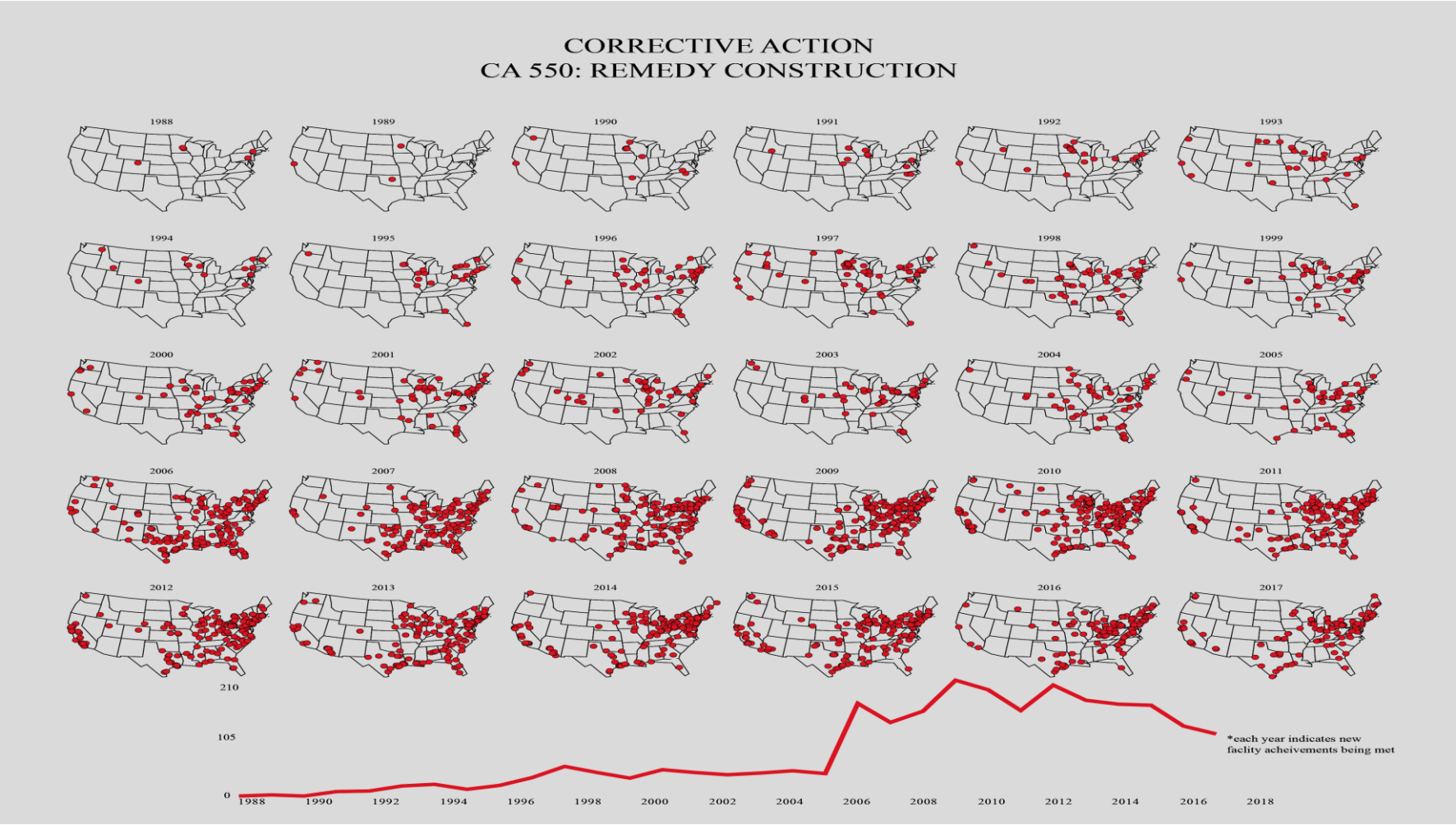
By 2020, 95% of 2020 Baseline Facilities to meet:

- Human Exposures Under Control (CA725)
- Migration of Contaminated Groundwater Under Control (CA750)
- Remedy Construction (CA550)

2020 Projections:

- 96% - Human Exposures Under Control
- 91% - Migration of Contaminated Groundwater Under Control
- 79% - Remedy Construction

Remedy Construction 1988 - 2018



https://www.epa.gov/hw/learn-about-corrective-action

2030 VISION, MISSION, AND GOALS

RCRA CORRECTIVE ACTION PROGRAM

RCRA Corrective Action Program Vision/Mission/Goals for 2030

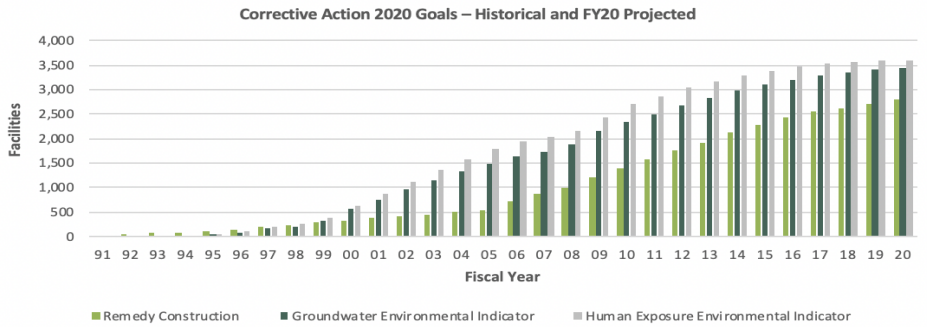
The U.S. Environmental Protection Agency (EPA) has developed a new 2030 Vision, Mission, and Goals for the Resource Conservation and Recovery Act (RCRA) Corrective Action hazardous waste facility cleanup program. RCRA Corrective Action cleanups support healthy and sustainable communities where people and the environment are protected from hazardous contamination today and into the future.

Background

RCRA set standards for responsible solid waste management and established safeguards for hazardous wastes, from generation to transportation, treatment, storage and disposal. Corrective action is a requirement under RCRA that applies to facilities that treat, store, or dispose of hazardous wastes, directing them to investigate and clean up contamination on or from the facility. EPA, states, tribal partners, facility owner/operators, communities, and stakeholders work closely together to implement the Corrective Action Program to ensure that cleanups are protective of human health and the environment at almost 4,000 facilities across the country.

2020 RCRA Corrective Action Goals

The current corrective action program has been driven by aspirational goals, announced in May 2004, that were focused on meeting certain cleanup measures by the year 2020. These ambitious and farsighted goals in the early years of implementation of RCRA Corrective Action targeted achieving 95% completion of three important milestones, and the results are impressive. Of the 3,779



Corrective Action - 2030

VISION ("WHY")

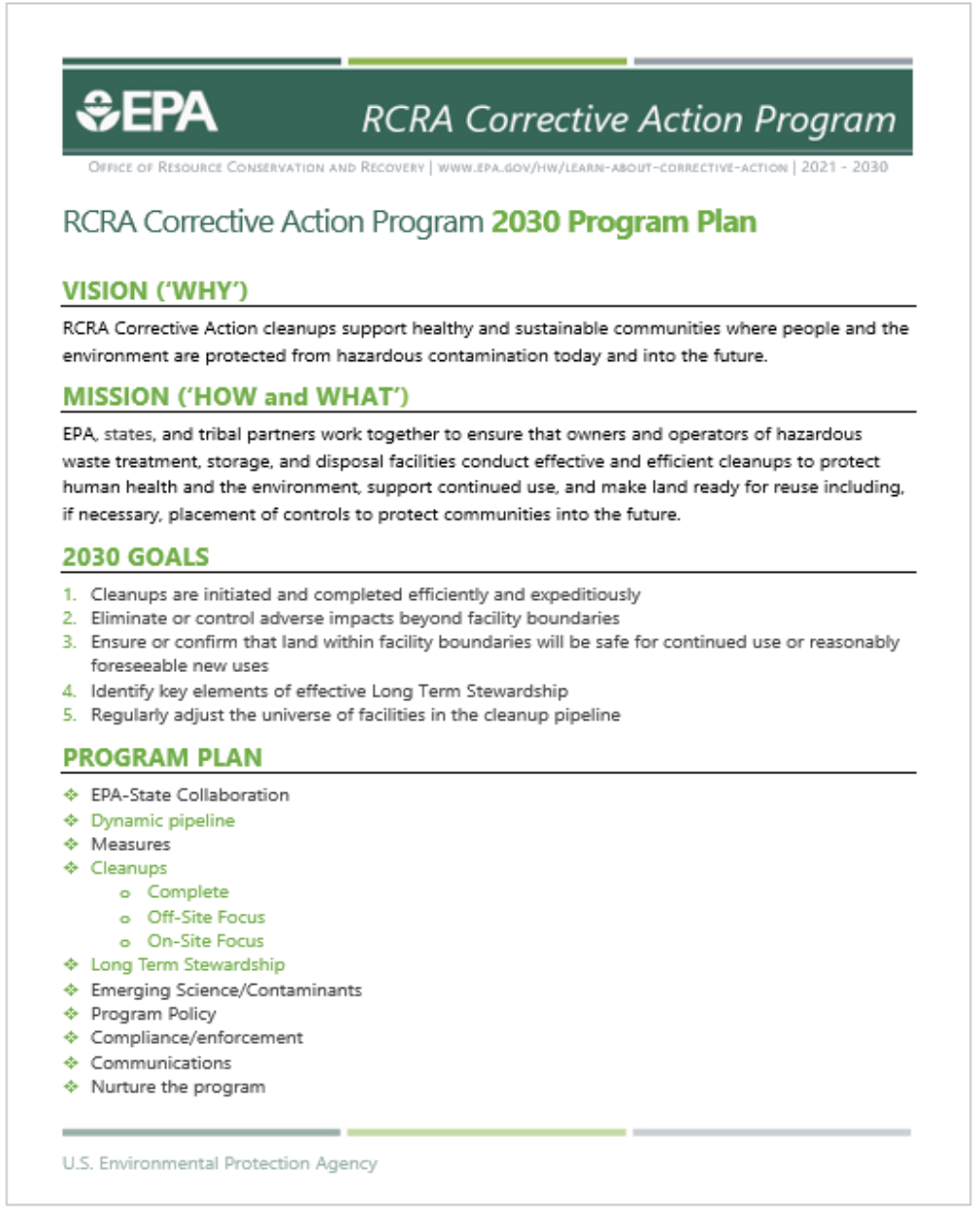
RCRA Corrective Action cleanups support healthy and sustainable communities where people and the environment are protected from hazardous contamination today and into the future.

MISSION ("HOW and WHAT")

EPA, states, and tribal partners work together to ensure that owners and operators of hazardous waste treatment, storage, and disposal facilities conduct effective and efficient cleanups to protect human health and the environment, support continued use, and make land ready for reuse including, if necessary, placement of controls to protect communities into the future.

2030 PROGAM PLAN

RCRA CORRECTIVE ACTION PROGRAM



EPA RCRA Corrective Action Program

Office of Resource Conservation and Recovery | www.epa.gov/hw/learn-about-corrective-action | 2021 - 2030

RCRA Corrective Action Program **2030 Program Plan**

VISION ('WHY')

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EPA, states, and tribal partners work together to ensure that owners and operators of hazardous waste treatment, storage, and disposal facilities conduct effective and efficient cleanups to protect human health and the environment, support continued use, and make land ready for reuse including, if necessary, placement of controls to protect communities into the future.

2030 GOALS

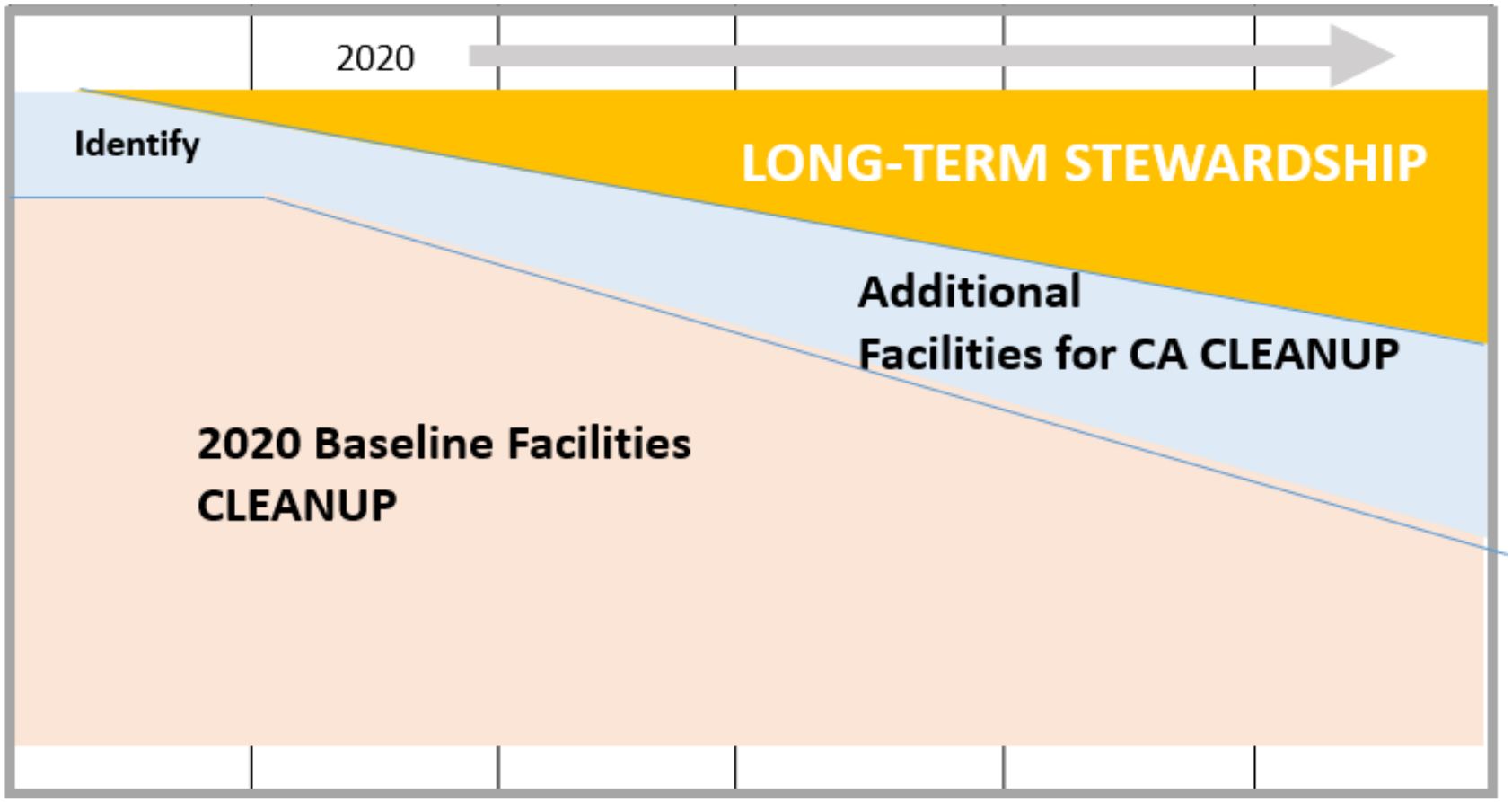
1. Cleanups are initiated and completed efficiently and expeditiously
2. Eliminate or control adverse impacts beyond facility boundaries
3. Ensure or confirm that land within facility boundaries will be safe for continued use or reasonably foreseeable new uses
4. Identify key elements of effective Long Term Stewardship
5. Regularly adjust the universe of facilities in the cleanup pipeline

PROGRAM PLAN

- EPA-State Collaboration
- Dynamic pipeline
- Measures
- Cleanups
  - Complete
  - Off-Site Focus
  - On-Site Focus
- Long Term Stewardship
- Emerging Science/Contaminants
- Program Policy
- Compliance/enforcement
- Communications
- Nurture the program

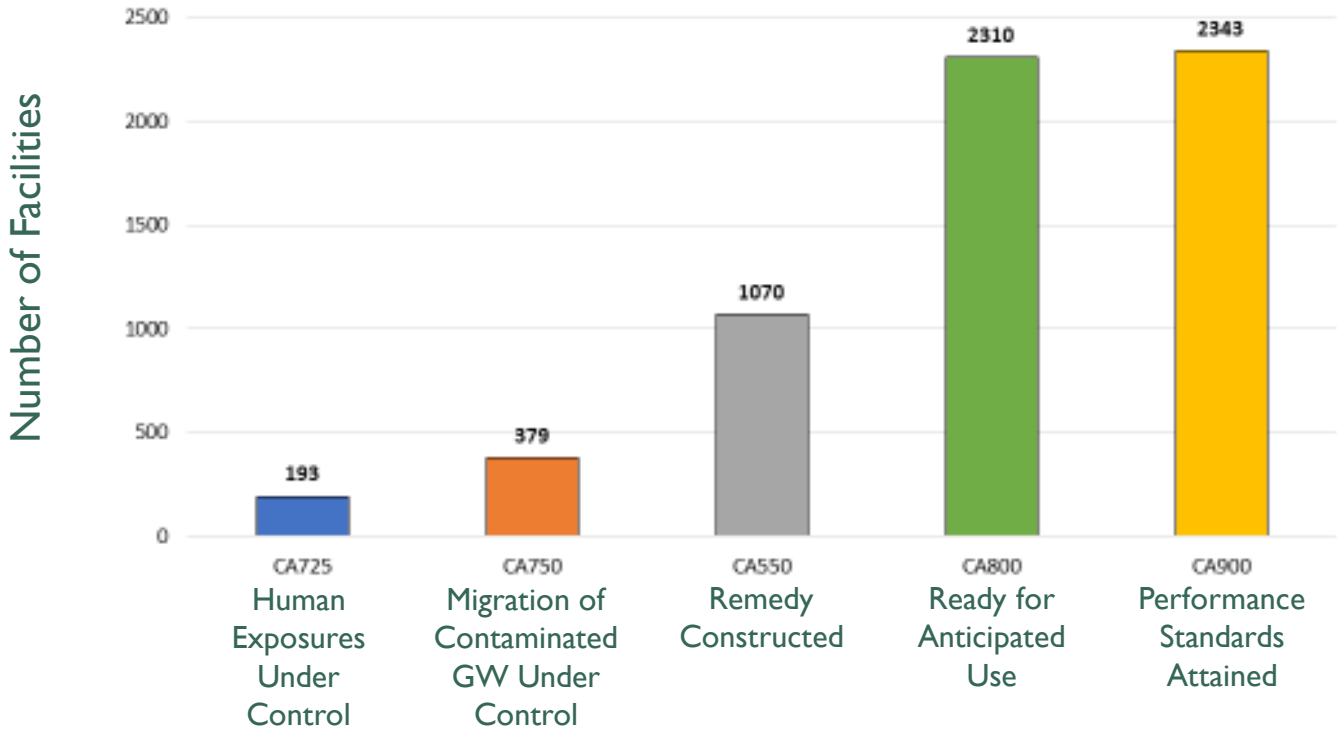
U.S. Environmental Protection Agency

There Is A Lot Of Important Work To Do



There Is A Lot Of Important Work To Do

- Measures not yet met, 2020 Baseline facilities (EOY FY19)
- Does not include facilities brought into pipeline tracking post-2020



2030 GOALS

1. Through 2030, the RCRA Corrective Action Program will ensure that RCRA cleanups are initiated and completed efficiently and expeditiously. Commitments regarding what work is planned and what progress is made will be visible to the public. An ambitious universe of cleanups will be identified for completion by 2030.

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5. By 2022, program procedures will be in place to regularly adjust the universe of facilities in the cleanup pipeline to reflect current program priorities.

TIMELINE - GOALS

Corrective Action - 2030

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030

Goal 1: Complete Cleanups

Goal 2: Focus: Beyond Facility Boundaries

Goal 3: Focus: Within Facility Boundaries

Goal 4: Long-Term Stewardship Key Elements

Goal 5: Adjust Pipeline

Corrective Action - 2030

2030 PROGRAM PLAN

- EPA-State Collaboration
- Dynamic pipeline
- Measures
- Cleanups
  - Complete
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  - On-Site Focus
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Corrective Action - 2030

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Corrective Action - 2030

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Corrective Action - 2030

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Corrective Action - 2030

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Corrective Action - 2030

2030 GOALS

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Corrective Action - 2030

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Corrective Action - 2030

2030 PROGRAM PLAN

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- Measures
- Cleanups
  - Complete
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  - On-Site Focus
- Long Term Stewardship
- Emerging Science/Contaminants
- Program Policy
- Compliance/enforcement
- Communications
- Nurture the program

Thank You!

Charlotte Mooney
mooney.charlotte@epa.gov
703.308.7025

QUESTIONS??