

Colorado's Self-Certification Program For Small Quantity Generators (SQGs) of Hazardous Waste

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OUR PROBLEM:

Low-population, but high-priority, sectors (LQGs, TSDs)

- measurably improved compliance rates through a traditional inspection program
- high inspection frequency (\sim 1.5 FTE = 100%/3 years/LQGs; 75%/yr/TSDs)

High-population SQG universe, also high priority

- NO improvement in compliance rates
 - Despite more (~2 FTE) resource investment of staff
 - But low inspection frequency (\sim 2 FTE = 100%/8 years)
 - Additional resources? Forget it.

Needed another method

- Increase the inspection rate
- · Increase the regulatory sophistication
- · Compensate for high staff turnover at these small facilities
- · Without increasing our staff

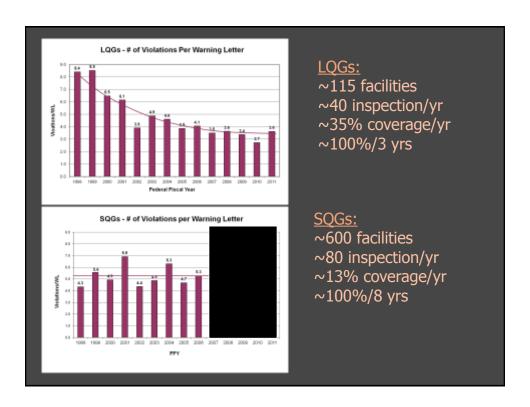
WHY ARE SQGs HIGH PRIORITY?

LQGs

- 115 Total
- Subtracting off the top 5, bottom 110 = 10,000 tons/year of hw
- Generally larger companies; value compliance
- Generally stable, well-trained environmental staff

SQGs

- ~600 Total
- 8,000 tons/year hw
- Smaller companies; compliance is lower priority
- High staff turnover
- 6x more locations; significant amount of waste; more variety of wastes; limited training for staff; unsophisticated facilities = HIGH RISK!!!



OUR OPTIONS:

Mass-mailings



We tried this and measured this; it failed miserably

Trainings



We have been doing this; popular w/ business, but no measured compliance rate improvement

Self-Certification



Worked wonderfully!!

SELF-CERTIFICATION

Compliance checklist sent to every sector member each year

• w/instruction booklet/guidance document

Each facility <u>required</u> to complete checklist and submit it back to our department

- 2007 regulatory requirement added
- Electronically or hard-copy

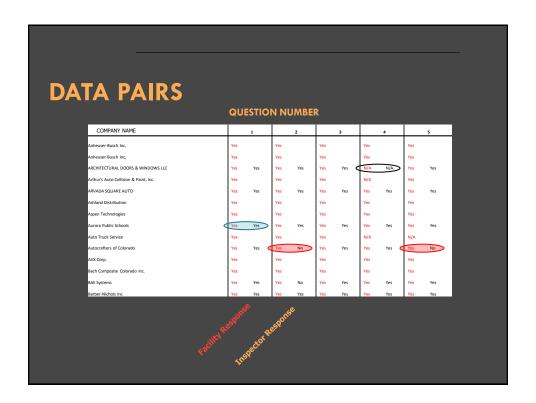
HW inspectors choose statistically significant # of random facilities to inspect using the <u>same</u> checklist

- 90% confidence sample set represents total population
- With no more than a 10% margin of error

Results compared and evaluated

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EVALUATING COMPLIANCE RATES

Even though we make all SQGs self-certify – we do not use their data to calculate compliance rates

We use only the inspector data!

- Can facilities be trusted to honestly assess and report their compliance?
- Inspectors are better at finding non-compliance
- Self-certification becomes **only** a training vehicle

Compliance rate across SQG Sector

Compliance rates by checklist question (reg. reqmt.)

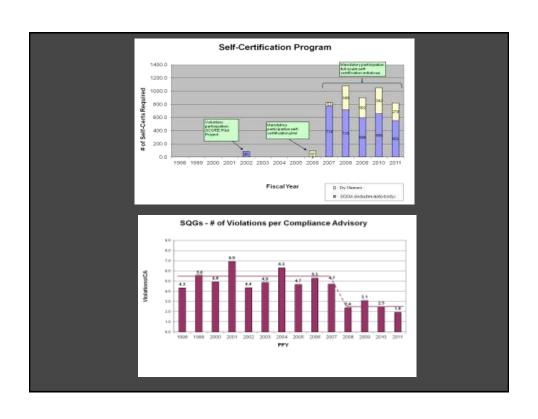
EVALUATING COMPLIANCE RATES

Compliance rate across SQG Sector

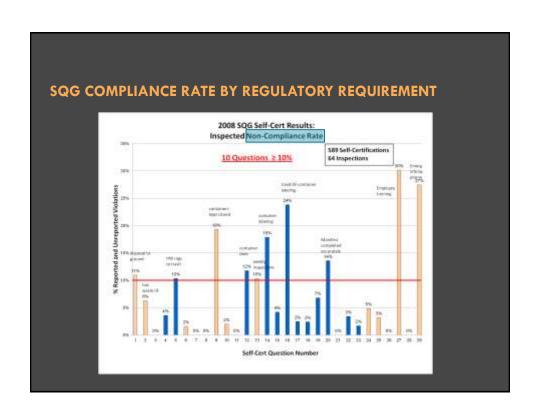
Compliance rate = $\frac{\# \text{ of facilities with } 100\% \text{ "Yes" and "NA"}}{\# \text{ of inspected facilities}}$ answers

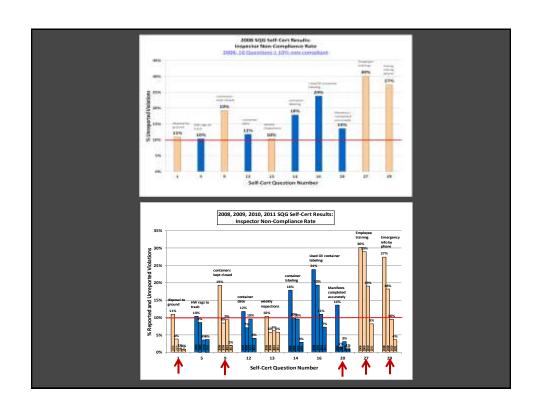
Compliance rates by Checklist question (reg reqmt)

Non-compliance rate = # of "No" answers to a given question divided by total # of "Yes" and "No" answers ("NA" answers not included)





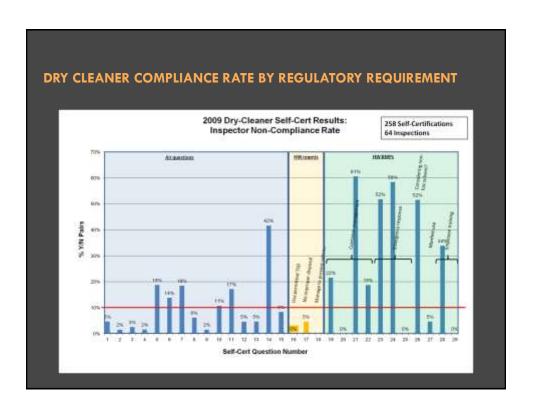


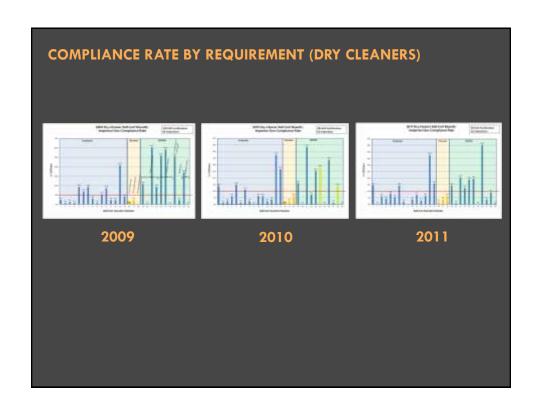


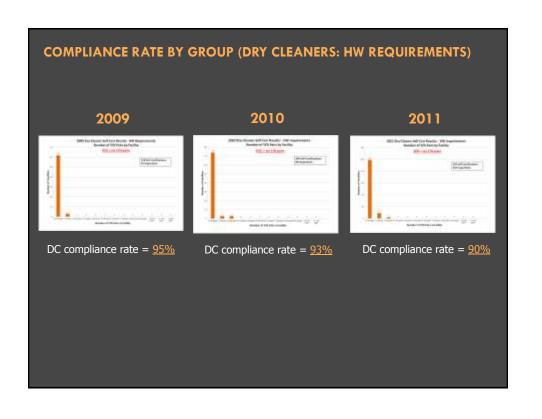


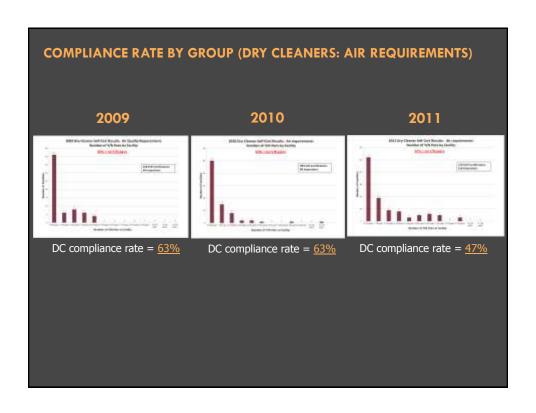
DRY CLEANERS

- Includes <u>ALL</u> dry cleaners SQGs and CESQGs
- All SQG dry cleaners have been subtracted from the SQG self-certification pool









KEYS TO SUCCESS

A regulation making this a requirement

Careful project set-up

- Prior sector outreach
- Question wording/instruction wording
- Inspector Training

Constant project monitoring

- Getting high % checklist return rate (Using enforcement if needed)
- Adequate number of follow-up inspections
- Evaluating results

WHERE ELSE COULD THIS WORK?

Large universes with low inspection rates

Where you care about improving compliance

Where compliance "looks the same" everywhere i.e., few site-specific requirements (like permits)

Single or Multi-media regulatory obligations

- School chemicals/school safety/school radon
- Hospitals/Nursing homes
- Etc.

SQG SELF-CERTIFICATION REPORT

http://www.colorado.gov/cs/Satellite/CDPHE-HM/CBON/1251618176715

QUESTIONS?

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