

**Sponsored by ADEQ's  
Pollution Prevention (P2) Program  
and the Western Sustainability  
Pollution Prevention Network**



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## **Brought to you by:**

- The Western Sustainability Pollution Prevention Network
- The Arizona Department of Environmental Quality

# **Western Sustainability Pollution Prevention Network**

- Cooperative alliance of P2 programs in Region 9
- P2 information research, consolidation, dissemination
- Pollution Prevention Resource Exchange (P2Rx)
- Preventing or reducing pollution before it is released has a greater positive impact on the environment, economy and health



# **(ADEQ's) Pollution Prevention (P2) Program**

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Environmental Engineer

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# **Pollution Prevention Week**

September 21-27, 2015



**Arizona Department of Environmental Quality**

**Pollution Prevention Program**

September 23, 2015



# What is P2?



In 1991, Arizona initiated one of the broadest P2 programs in the nation and adopted a P2 policy to include:

**Arizona Revised Statutes (A.R.S.) §§ 49-961 to 49-969**

- Toxic substance use reduction
- Hazardous waste generation reduction



# What is P2 in Arizona?

## P2 in Arizona

Operational procedures and processes and improvements in housekeeping or management techniques that reduce potential or actual releases of pollutants to the overall environment including all air, water and land resources affected by those pollutants.

A.R.S. §49-961(7)

Business  
Operational  
changes

Toxic substance  
use reduction

Reclamation

Conservation

Spill and Leak  
Prevention

Source  
Reduction

Reuse

Substitution

Inventory  
Control

Recycling

Waste Minimization



# Arizona P2 Program Plan Filing Thresholds

## 1. Filed a Toxic Release Inventory Form (form R or A)

### A.R.S. §49-962(A)(1)

If the owner or operator of a facility was required to file an annual Toxic Release Inventory (TRI) form (Form A or Form R) to EPA during the preceding calendar year, the facility must prepare and implement a P2 Plan.

## 2. Hazardous Waste Generators

### A.R.S. §§49-962 (A)(2) and 49-963(C)

A facility that generated or shipped off-site an average of 2,200 pounds (1,000 kg) per month of hazardous waste or an average 2.2 pounds (1 kg) per month of acute hazardous waste during the preceding calendar year, must prepare and implement a P2 Plan.

## 3. Toxic Substance Users

### A.R.S. §49-963(D)

If the facility used in excess of 10,000 pounds of a TRI listed chemical during the previous calendar year, the facility must prepare and implement a P2 Plan.

# Voluntary Environmental Stewardship Program

## **A.R.S. §49-192**

- Identify and reward organizations with a good history of compliance
- Various categories
  - Copper, bronze, silver gold and platinum

## **Reasons to join**

- ADEQ recognition of your organization
- Reduced inspection frequency
- Coordination of multiple onsite inspections
- Advanced notification of inspections and enforcement rulings

## **Contact:**

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# Why Celebrate P2 Week?

Pollution Prevention Week in Arizona highlights the efforts of facilities in our own State P2 program in reducing the use of toxic substances and hazardous waste generation and the conservation of natural resources!

The following companies will be presenting on successful goals implemented at their facilities:

- Frito Lay
- Arizona State University Facilities Management
- Corning Phoenix



CORNING

# What are P2 goals?

## ADEQ P2 Program Goal Forms:

- Identified opportunity for waste reduction
- Facility provides a statement to reduce pollution
- Facility provides actions needed to implement the goal
- Defines a completion date and identifies a baseline quantity and year
- Reductions are reported annually to ADEQ P2 through the goal form

Section 7. P2 Performance Goal (A.R.S. §49-963.J.4.)

Facility Name: \_\_\_\_\_ P2 ID #: \_\_\_\_\_

Complete one sheet for each goal

1. <b>Goal Statement:</b> Enter a specific performance goal or individual production process goal that includes a statement of the expected result. The goal statement should address what can be accomplished by implementing one of the opportunities from Section 6. Goal statements should be in the form (Action Verb) + (Target chemical, emission, or waste stream) used for/in (Process X). Use action verbs such as Reduce or Eliminate. For example: Reduce methylene chloride used for parts degreasing by 80%. If a goal cannot be measured or will take a long period of time to complete, then include an action plan that outlines measurable milestones. See page 48 of the guidance manual for an example of an action plan. Submit these goal sheets with your new plan or amendment and the annual progress report.	2. <b>Scheduled Completion Date</b> (Month/Day/Year)	3. <b>Completion Status:</b> OS=On Schedule DR=Dropped D=Delayed C=Completed	4. <b>Name of Toxic Substance and Waste stream</b> Include CAS #, and RCRA Waste Code #	5. <b>State Volatile Organic Chemical "VOC", Ozone Depleting Chemical "ODC", "Both" or "NA"</b>
Goal (# _____): Process Area(s) (# _____) Goal Statement: _____		<input type="checkbox"/> C <input type="checkbox"/> OS <input type="checkbox"/> D <input type="checkbox"/> DR		<input type="checkbox"/> VOC <input type="checkbox"/> ODC <input type="checkbox"/> ODC & VOC <input type="checkbox"/> NA

6. If this goal has been delayed or dropped (box 3), provide an explanation and include a new estimated completion date: \_\_\_\_\_

7. <b>Actions Needed to Implement the Goal:</b>	8. <b>Baseline Quantity</b> (Starting amount)	9. <b>Baseline Year</b>	10. <b>How much was reduced or eliminated?</b>	11. <b>Month &amp; Year Box #10 Was Measured</b>	12. <b>How much money (US \$) was saved by this goal?</b>	13. <b>Reduction Quantity is Adjusted for Production?</b>	14. <b>Production Ratio (Optional Unless Box #13 is Marked Yes)</b>
Actions we will take to implement this goal are: _____	Quantity: _____ (Check units) <input type="checkbox"/> Pounds <input type="checkbox"/> Gallons <input type="checkbox"/> kWh <input type="checkbox"/> Therms <input type="checkbox"/> No measure		Quantity: _____ (Check units) <input type="checkbox"/> Pounds <input type="checkbox"/> Gallons <input type="checkbox"/> kWh <input type="checkbox"/> Therms <input type="checkbox"/> No measure			<input type="checkbox"/> Yes <input type="checkbox"/> No	

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**Disclaimer: The slides and information presented by the following facilities are for informational purposes only and do not necessarily reflect the opinion or endorsement of ADEQ. For more information on the technologies, topics and calculations discussed on the slides, please contact the respective facility and direct questions to them.**



# FRITO LAY

Casa Grande



Speaker : Andre Fuentes

# A little bit about our site...

The Casa Grande site started up our first production line which was Doritos in July of 1984. The PC or potato chip line was started not too long after.

The site now has 5 product lines,

- Potato chips (Lays, Ruffles & Wavy Lays)
- Tortilla chip (Doritos , Restaurant style & Santitas)
- Fritos corn chips
- Cheetos crunchy mellow and flaming hot
- Sun chips

Number Employees in 1984:

- 200 Employees
- 35 Management

Number Employees in 2015:

- 325+ Employees
- 20 Management

Within the last 5 years the site has added...

CNG (Compressed Natural Gas) semi trucks

Electric route vans

MBR- Water treatment plant

Bio Mass- Boiler which supplies steam for product lines

Solar panels- Placed over the parking lot, in front of the plant & the field to the west of the plant.

# Clean Transportation...



Currently we have 19 CNG  
(compressed natural gas)  
semi trucks

Currently we have 2 Electric Route  
trucks





# Recycle / Reuse of water...

Casa Grande's MBR (Microbial Bio Reactor)



# The Bio Mass Boiler...



The Bio Mass Boiler produces steam for the product lines allowing the use of natural gas to be used only as a back up.

The fuel used to create the steam is a mixture of shredded white wood pallets and pecan shells which are loaded onto a conveyor and fed into the boiler.





# Power from the sun...



Solar panels positioned in front of, over the parking lot & to the west of the plant help us run almost completely off the power they produce during the daytime. What we don't use we sell to APS as credit. At night when we go to APS power, our credit is then applied.

# Some of our P2 goals...

- Reduce annual water consumption by 25%.
- Decrease natural gas use by 3%.
- Reduce laboratory chemical waste generation.
- Reduce annual water use by 3%.
- Reduce electrical use by 5%.

# Our P2 goals...

Why were these goals  
selected?

# How are we meeting our P2 goals...

- **Reduce annual water consumption by 25%.** - Install a membrane Bio Reactor to recycle manufacturing process water. Reactor was installed and around 25% is discharged yearly of all process water sent to reactor. 75% is drinking quality grade and sent back to facility for use.
- **Decrease natural gas use by 3%** - Ensure Bio Mass boiler is utilized effectively to reduce natural gas boiler runtime. Optimize starch dryer settings to reduce usage.
- **Reduce laboratory chemical waste generation** - Emphasize waste generation reduction with all laboratory technicians and raise awareness of yearly status if we have increased our shipment quantity or decreased our shipment quantity:
  - 2013 Baseline includes:
    - Auto Titration - 16,104 lbs/year
    - Peroxide Valve - 125 lbs/year
    - Free Fatty Acid - 387 lbs/year
  - 2014 improvement's:
    - Auto Titration - 13,814 lbs/yr
    - Peroxide Valve - 125 lbs/yr
    - Free Fatty Acids - 43 lbs/yr.

# How are we meeting our P2 goals...

- **Reduce annual water use by 3%** - Continue to maintain our MBR by executing preventative maintenance. Increase employee awareness of water usage by continued training on resource conservation practices.

Baseline in 2009

123,641,146 gal

Baseline in 2011 reduced

48,571,459 gal

- **Reduce electrical use by 5%** - Installed solar voltaic system to reduce electricity pulled from the grid. With the addition of 40 acres of solar panels we have decreased consumption while at the same time increasing our plants demand for energy by 200%., with the addition of the reactor, Sun Chips and the Bio Mass boiler.

Baseline in 2009

13,255,372 kwh

Baseline in 2010 reduced

1,376,736.00 kwh

# Benefits of having a P2

- Reduced costs of waste treatment and disposal, raw materials purchases, and process operations.
- More efficient use of raw materials, staff resources, equipment, energy and water.
- Meeting or exceeding environmental requirements
- Reduced potential environmental liabilities.
- Protection of employee health and safety and the environment.
- Improved company's relationship with the public, neighbors and customers





**Do you have any ideas  
or questions?**

# Sustainability Projects

Arizona State University Facilities  
Management Grounds  
Services/Recycling

# Campus Harvest



# Deserts made from campus Seville Oranges





# Solar Compactors



# Chipper run on B99



# Organic Fertilizer Project

All organic since 2007

## Fertilizer use prior to switch to compost/organics

Types of Fertilizers used	Used on	Bag size	Quantity	Total Pounds
Best 6-20-20	Turf	50 lb.	160	8000
Best 21-0-0	Turf	50 lb.	240	12,000
Urea 46-0-0	Turf/Flowers/Roses	50 lb.	81	4050
20-20-20	Trees	25 lb.	5	125
Nutri-King 21-4-4	Turf	50 lb.	177	8850
Nutri-Culture	Palms	25 lb.	3	75
Water Soluable 21-21-21	Trees/Flowers	50 lb.	2	100
<b>Totals</b>			<b>668</b>	<b>33,200</b>



# Organic Fertilizers Now Using

- Compost
- Organic Gem Liquid Fish Fertilizer
  - Compost Tea
  - Chicken Manure Pellets
- Nature Safe Organic Fertilizer

Green waste collected ready for transport



## Compost Facility





## Spreading compost on the turf



## Spreading Compost on intermural field





Grounds also uses some organic fertilizers in addition to the compost



Collecting used coffee grounds



Two of the groundskeepers who came up with the idea





# Program Background

**Began:** in 2013

**Goal:** to collect used espresso and coffee grounds from commercial coffee vendors on campus and put them to use as a natural fertilizer and soil amendment on ASU's main campus

**Partners:**

ASU Grounds

Campus food vendor-ARAMARK

ASU Recycling



ASU  
GROUNDS FOR GROUNDS  
FERTILIZER INITIATIVE

Using a fertilizer spreader to apply the grounds to turf





Student volunteers like to spread the used grounds





## Spreading grounds into a flower bed





## Grounds used in the flowerbeds



# Questions?







Corning Phoenix  
The Journey to Zero Landfill

Jamil Brown  
Engineering Supervisor

September 2015



## Information Security

This presentation contains Corning Restricted information and is intended solely for those with a need to know. It may not be distributed, in whole or part, in any form by any means, or by any person or organization without authorization from Corning Incorporated.



# Corning Incorporated

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**Founded:**

1851

**Headquarters:**

Corning, New York

**2014 Sales:**

10 billion







**Fortune 500 Rank (2014):**

343

- Corning is one of the world's leading innovators in materials science. For more than 160 years, Corning has applied its unparalleled expertise in specialty glass, ceramics, and optical physics to develop products that have created new industries and transformed people's lives.
- Corning succeeds through sustained investment in R&D, a unique combination of material and process innovation, and close collaboration with customers to solve tough technology challenges.



# Corning Market Segments and Additional Operations

 <b>Display Technology</b>	 <b>Optical Communications</b>	 <b>Environmental Technologies</b>	 <b>Life Sciences</b>	 <b>Specialty Materials</b>	 <b>Other Products and Services</b>
<ul style="list-style-type: none"> <li>• LCD Glass Substrates</li> <li>• Glass Substrates for OLED and high-performance LCD platforms</li> </ul>	<ul style="list-style-type: none"> <li>• Optical Fiber and Cable</li> <li>• Optical Connectivity Solutions</li> <li>• Wireless Distributed Antenna Systems</li> <li>• Optical Cables for Consumer Networks</li> <li>• Copper Connectivity Components</li> </ul>	<ul style="list-style-type: none"> <li>• Emissions Control Products                             <ul style="list-style-type: none"> <li>– Light-duty gasoline vehicles</li> <li>– Light-duty and heavy-duty on-road diesel vehicles</li> <li>– Heavy-duty non-road diesel vehicles</li> <li>– Stationary</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Cell Culture and Bioprocess</li> <li>• Drug Discovery</li> <li>• ADME/Tox</li> <li>• Genomics</li> <li>• Chemistry</li> <li>• Microbiology</li> <li>• General Laboratory Products</li> </ul>	<ul style="list-style-type: none"> <li>• Corning® Gorilla® Glass</li> <li>• Display Optics and Components</li> <li>• Optical Materials</li> <li>• Optical Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Emerging Innovations</li> <li>• Equity Companies                             <ul style="list-style-type: none"> <li>– Cormetech, Inc.</li> <li>– Dow Corning Corp.</li> <li>– Eurokera, S.N.C.</li> <li>– Samsung Corning Advanced Glass, LLC (SCG)</li> </ul> </li> </ul>

# Corning Phoenix

## Size and Scope

### Location / Plant



#### Broadband

- Hardline, F-Connector
- Components, Assemblies
- CATV, Broadband networks, Commercial

#### Microwave Connectivity

- GPO, GPPO, G3PO, G4PO
- Blocks, interconnects,
- Aerospace/Defense, test equipment, commercial

### Key Statistics

**People:** 254 Corning (Mfg)

27 Contractor

**Space:** 160,000 ft<sup>2</sup>

**Customers:** 470 customers in over 100 countries

**Connectors /Month:** 1M

**Assemblies / Month:** 750k

#### Processes:

- MW and BB Machining
  - Precision metal turning
  - Grinding
- Wash/Plating
  - Gold, Nickel
  - Tin, Chromate
- Assembly
  - Micro scale Assembly (MW)
  - Cable Assemblies (PHX/RAM)
- Tooling
  - High precision tool grinding
  - Wire EDM

### Role

The Phoenix plant is a machining center of excellence with a focus on high precision metal turning

#### Primary Mission

To provide high quality RF connectors for broadband, military & aerospace applications

#### Secondary Mission

To share knowledge and be available as an insourcing option for machined parts

# We are ISO 14001 Certified

## • **Prevent Pollution** **Corning's Environmental Policy**

- Reduce
- Use fewer
- Generate less
- Conserve
- Recycle

## • **Comply with**

- RCRA
- Clean Water Act
- Clean Air Act

## • **Continual Improvement**

- Create less
- Recycle
- Use fewer





## Environmental Awareness- May

### Corning Phoenix – Environmental Communication

#### Labeling of Hazardous Waste

During our 2015 ISO 14001 surveillance audit we received a minor non conformance for not having standardized labels, there were 2 types of hazardous waste labels in the plant.

Moving forward **all labels** in the facility for hazardous waste will be like figure 1.

We will **no longer be using labels** that are pictured in figure 2.

Please help support this plant wide change with labeling of our hazardous waste, documents have been changed to support this.

If you see any of the labels in figure 2 please let the EHS team know so we can communicate and change the labels over the new plant standard

CORNING | Optical Communications RF LLC



Figure 1- Plant Standard

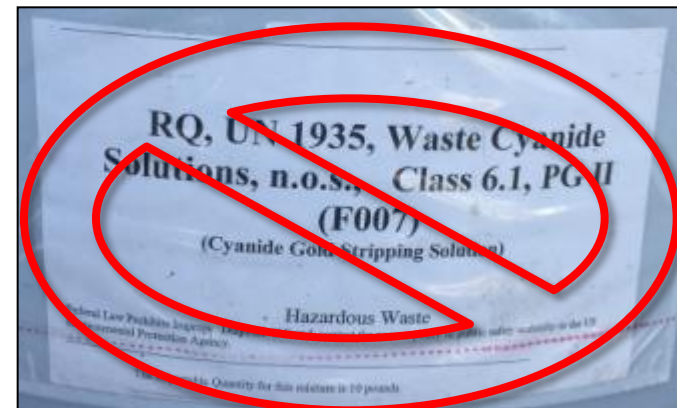


Figure 2 -

# Corning Phoenix – Environmental Communication

## **Proper Disposal of Light Bulbs From Home**


Compact fluorescent light bulbs (CFL's) contain small amounts of mercury- an environmental and health hazard – sealed within the glass tubing.

Recycling keeps mercury out of the environment and allows for reuse of other light bulb materials such as glass and metal


Although some states allow CFL's to be disposed of as normal household trash, its not recommended.

### **What do I do if I break a CFL?**

1. Open a window and leave the room for at least 15 minutes
2. Hardwood / Tile: Using a disposable rubber glove carefully scoop up the fragments with a dust pan, wipe the area clean and place everything in double sealed plastic bags.  
Rug / Carpet: Remove fragments without using a vacuum clean duct tape can be used to pick up small pieces. Vacuum area, remove vacuum bag (or empty wipe canister), and place in a doubled and sealed plastic bag. Be cautious of the sharp edges.
3. Take to a local recycling center



Many retailers  
(i.e.Home Depot or  
Lowe's Home  
Improvement offer  
in store recycling for  
CFL's



Take advantage of  
local recycling  
options for CFL's,  
such as hazardous  
waste collection  
events

# Environmental Awareness- September

## Corning Phoenix – Environmental Communication

### Proper Segregation of Recycling Materials

Think “can this waste be recycled” prior to throwing it out.

Starting to see some cardboard in trash hoppers that can be recycled. Here are a few items that can be recycled....



**SINGLE STREAM RECYCLING**

**Recycle Often:**

**Metal Cans**  
Steel, Tin & Aluminum Soda, Vegetable, Fruit & Tuna Cans  
Latas de hojalata y acero, Latas de aluminio

**Plastic Bottles & Containers #1-#2**  
Botellas de plástico y recipientes #1-#2

**Paper**  
Brown Paper Bags, Non-Confidential Office Papers, Newspapers, Magazines  
Bolsas de papel, Papel de oficina, Periódicos, Revistas

**Paper Cardboard, Dairy, & Juice Containers**  
Envases de cartón de lácteos y de jugos

**Flattened Cardboard & Paperboard**  
Cajas de cartón, Cartón

**Recycle Right:**

To ensure quality material is recycled:  
**DO NOT INCLUDE: Food waste, plastic bags, or polystyrene foams cups & containers**

- Paper and cardboard must be dry and free of food debris.
- Paper food containers must be rinsed out, no caps.
- Tissues, paper towels or other paper that has been in contact with food is not acceptable.
- Make sure food contamination and caps are removed from cans and plastics and containers are empty.
- Separate plastics lids from plastic bottles (often made from different materials).
- Keep medical waste (syringes, needles) out of recycling containers or place in safe disposal containers.

Que no tengan nada de comidas, en todo lo que se va reciclar.

**Corning Phoenix**



## 2015 Initiative

### Become a zero free landfill plant.

- We are committed to reducing long term liability as well as environmental impact by applying a zero landfill strategy.

98%-100% Virtually Zero Landfill	100% Zero Landfill
<80%	80%-98% Landfill Diversion Rate

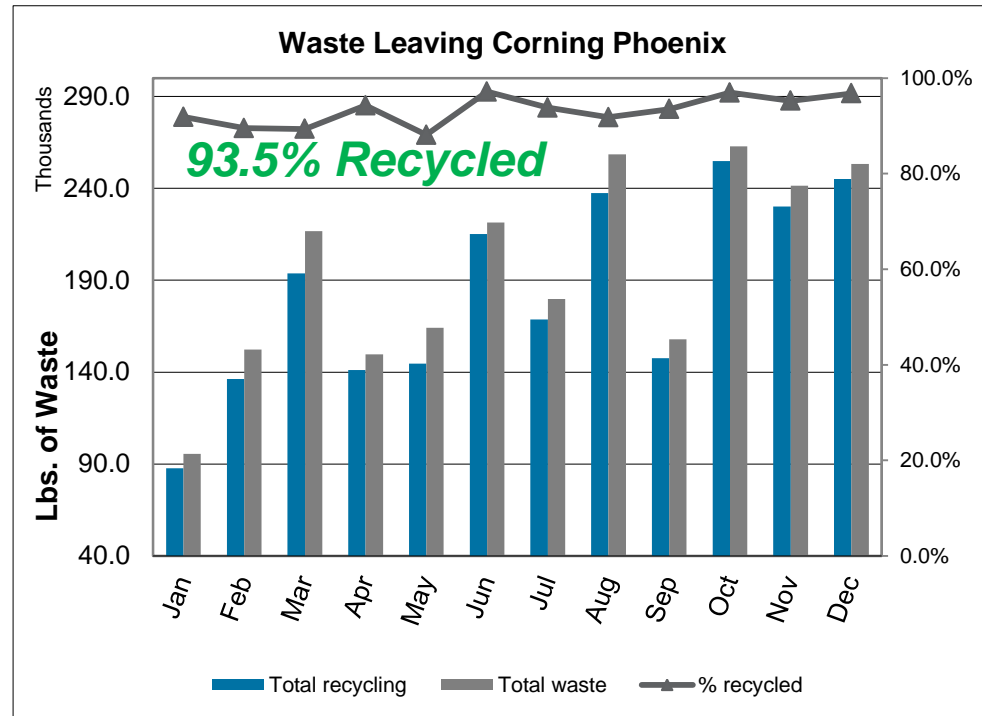
- What % of our waste leaving the plant is recycled?
- How much waste left the plant in 2014?
- What is our biggest opportunity to improve our %?

- **93.5%**
- **2.35 million lbs.**
- **Trash**
- **Goal is to improve our % recycling by 3% and get to 98% by 2017**

## 2014 Data

- In 2014 we removed 2,353,632 lbs. of waste from the Corning Phoenix Plant
- 2,202,443 lbs. was recycled!!
- Where are the opportunities....
  - 126K lbs. of industrial waste left the plant last year
  - We didn't do a very good job of segregating that waste (see slides 5 and 6)

- 2014 recycling data





# Opportunities



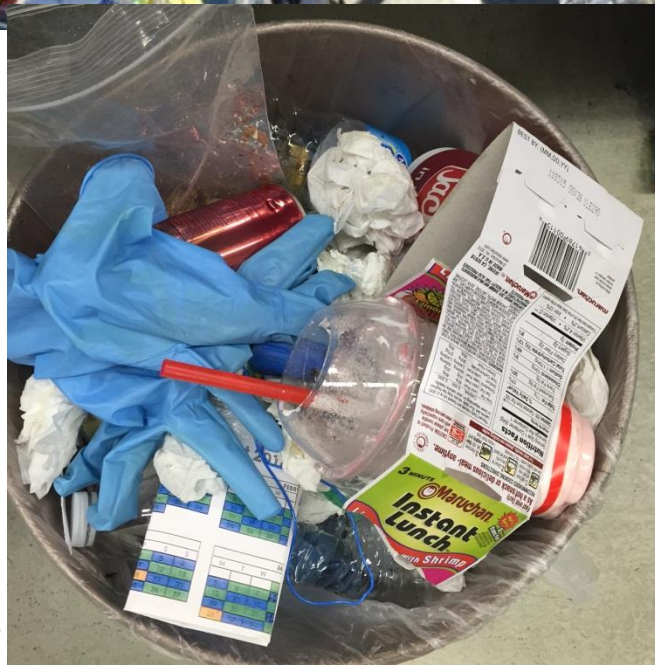


# Opportunities

We didn't do a very good job segregating our waste

Cardboard  
Wood

Plastic  
Cans  
Paper  
All recyclable all thrown in the trash-



# 2015 Plan

2015 Zero Landfill Plan	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Communicate opportunities in January 2015 Communication meeting												
Hold kick-off meeting for Recycling Team												
Brain storm ideas on recycling opportunities												
Create better ways to segregate waste in the plant												
Add containers throughout the facility to support collection												
Have employees "Make the commitment to Zero Landfill												
Investigate other vendors that can recycle our existing waste												
Review data monthly and review at communication meetings												
Celebrate and recognize success with the team												
Evaluate and develop opportunities for 2016												



# Earth Day Event

- Provided employees an opportunity to discard e-waste
- Kicked off our single stream recycling



# Single Stream Recycling

SINGLE STREAM RECYCLING

  
CORNING  
GOES  
GREEN



**Recycle Often:**

**Metal Cans**  
Steel, Tin & Aluminum Soda, Vegetable, Fruit & Tuna Cans  
Latas de hojalata y acero, Latas de aluminio



**Plastic Bottles & Containers #1-#2**  
Botellas de plástico y recipientes #1-#2



**Paper**  
Brown Paper Bags, Non-Confidential Office Papers, Newspapers, Magazines  
Bolsas de papel, Papel de oficina, Periódicos, Revistas



**Paper Cardboard, Dairy, & Juice Containers**  
Envases de cartón de lácteos y de jugos



**Flattened Cardboard & Paperboard**  
Cajas de cartón, Cartón



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To ensure quality material is recycled:  
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- Make sure food contamination and caps are removed from cans and plastics and containers are empty.
- Separate plastics lids from plastic bottles (often made from different materials).
- Keep medical waste (syringes, needles) out of recycling containers or place in safe disposal containers.

Que no tengan nada de comidas, en todo lo que se va recycler. **Corning Phoenix**

- Things we can recycle:
  - Metal cans
  - Aluminum soda cans
  - Vegetable, fruit and tuna cans
  - Plastic bottles 1 & 2
  - Brown paper bags, non confidential paper, newspapers, magazines, junk mail
  - Flattened cardboard & paperboard
- Things we cant recycle
  - Food waste, plastic bags with labels on them or food remains, foam cups and containers



## Single stream recycling in the office area....

- We distributed these green recycling cans for office recycling with stickers on them to remind employees what we can and cant recycle
- Cans will be picked up by the cleaners and disposed of in a central area for all recycling products



# Address segregation opportunities and switch to single stream recycling



**Environmental**



**I am committed to  
do my part to make  
Corning Phoenix a  
zero landfill facility!**

**TAKE THE TIME TO PROPERLY DISPOSE OF YOUR WASTE**

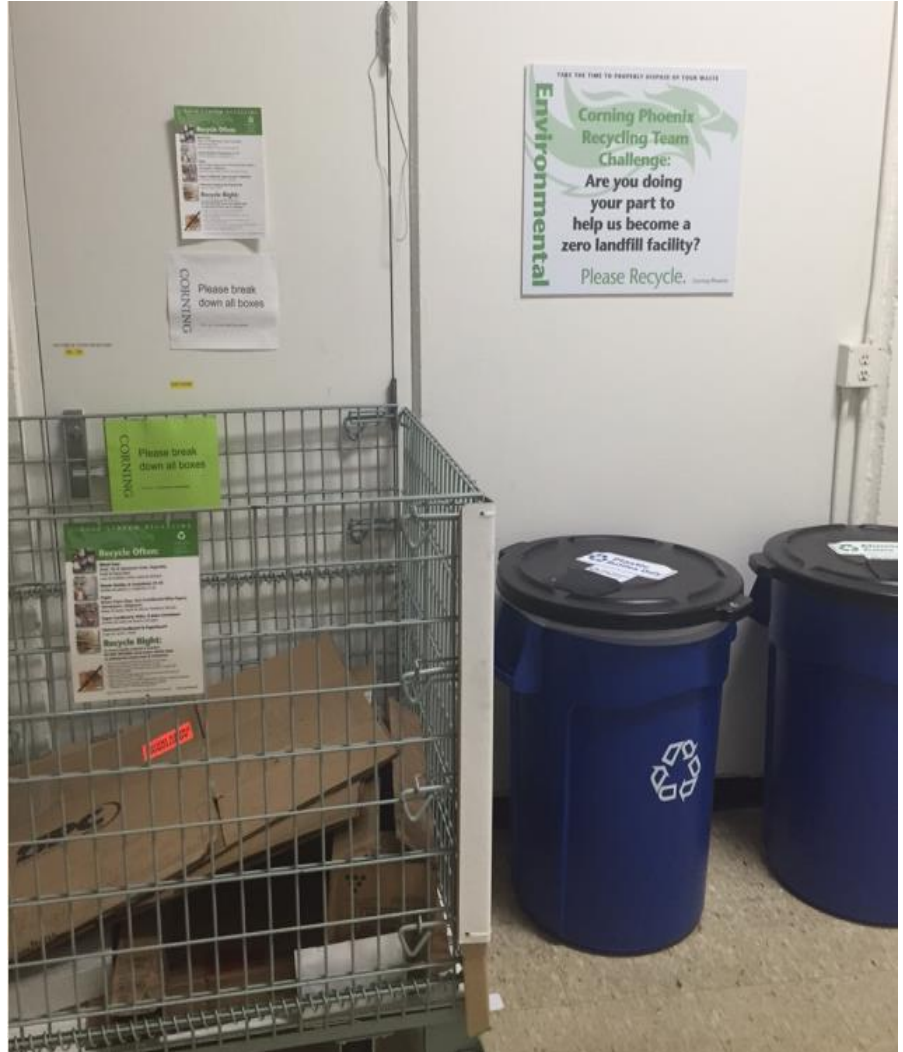
**Corning Phoenix  
Recycling Team  
Challenge:**

**Are you doing  
your part to  
help us become a  
zero landfill facility?**

**Please Recycle.** Corning Phoenix

**Environmental**

# Address segregation opportunities



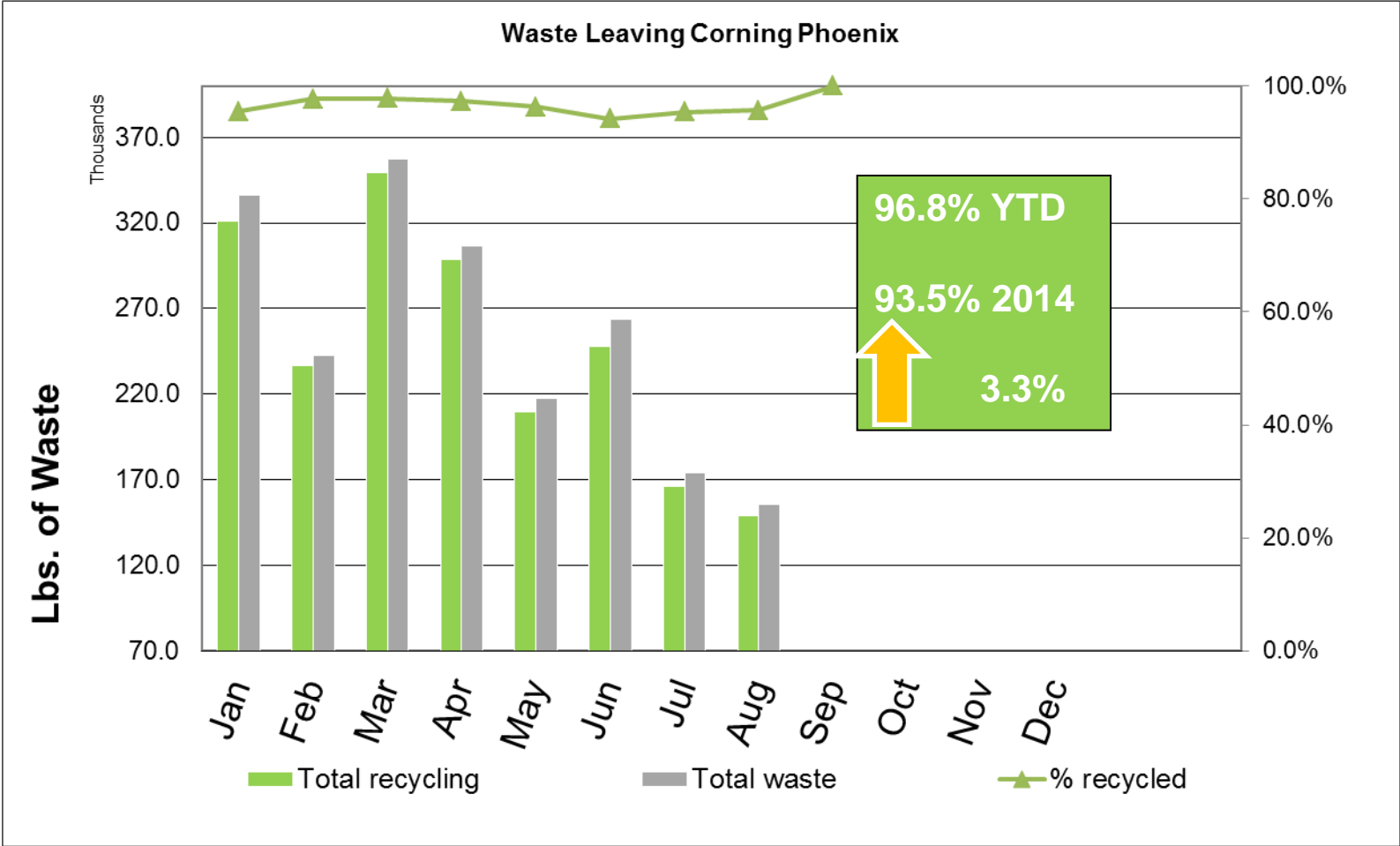


# Address segregation opportunities and switch to single stream recycling



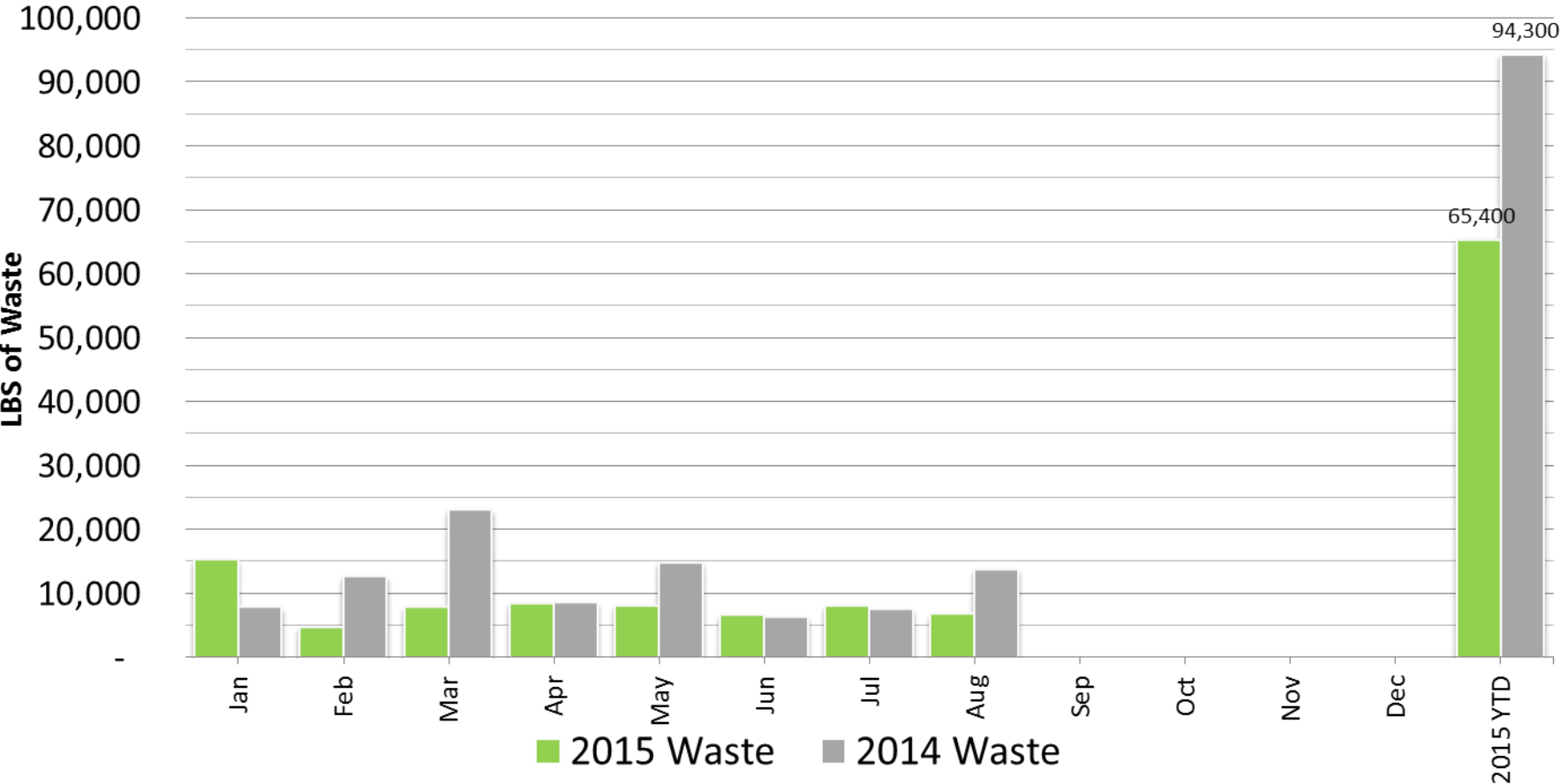


# Where are we today-



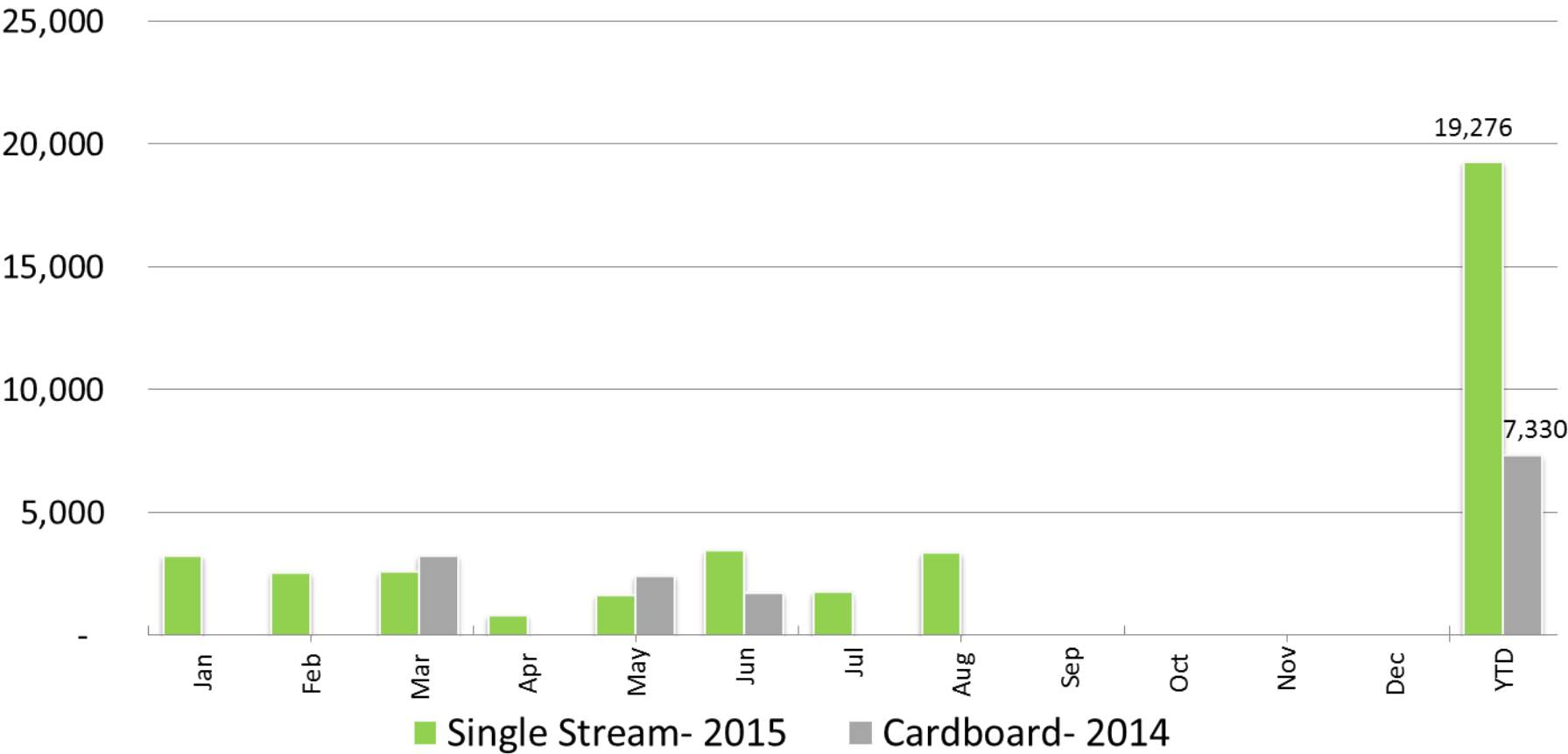
# How did we get here

Industrial Waste 2014 vs. 2015  
through August



# How did we increase 3%

2014 vs. 2015 "Cardboard Recycled"  
through August



# Questions??

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# Questions?

Contact us! We are here to help!

Jeanine Inman, P.E. - (602) 771-2351

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Linneth A. Lopez - (602) 771-4739

[lal@azdeq.gov](mailto:lal@azdeq.gov)



