City of Las Vegas

Public Works

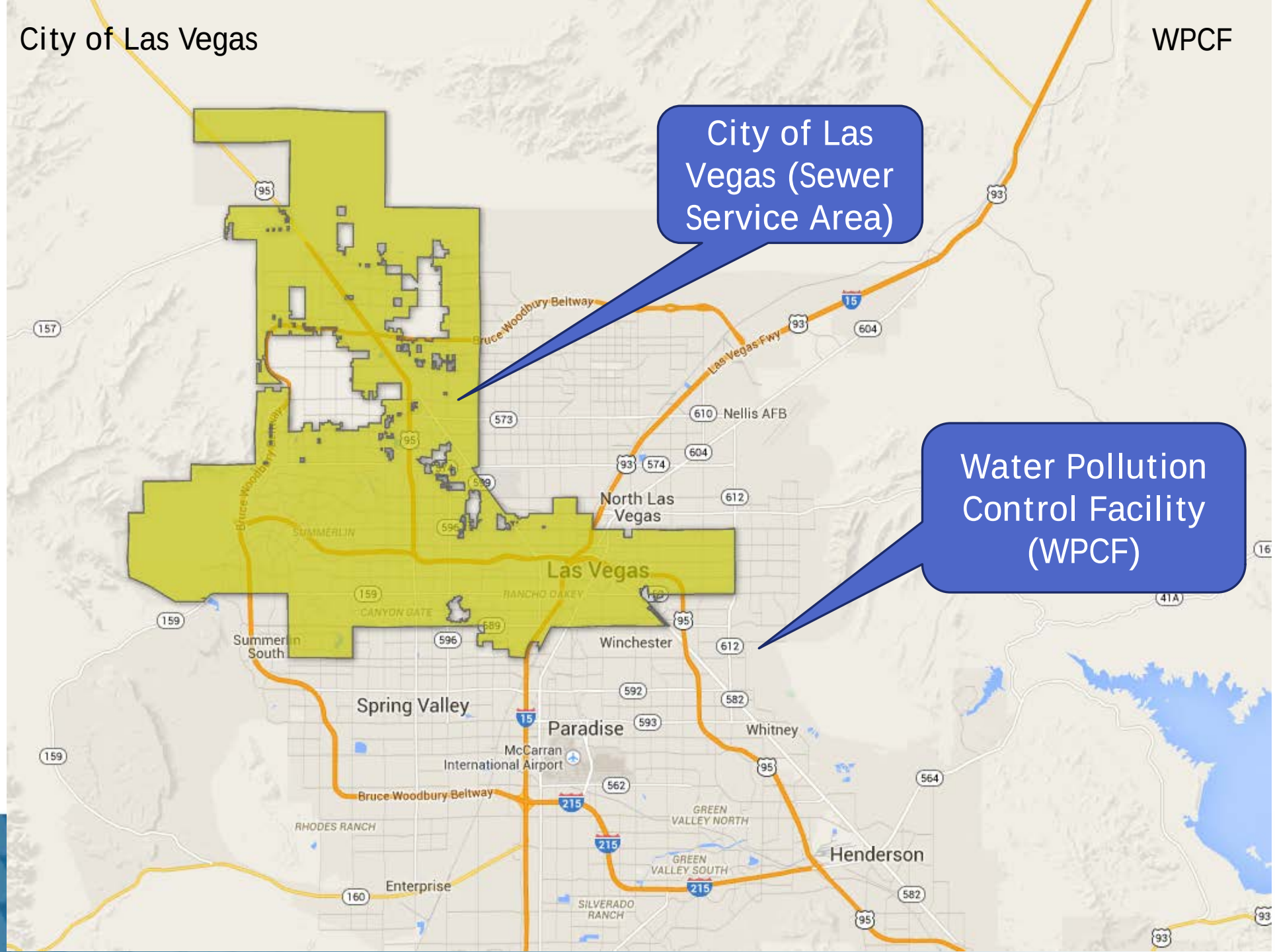
Environmental Division

WELCOME TO
LAS VEGAS

Process Update
2012 - 2017
WELCOME TO
LAS VEGAS
CITY OF
Las Vegas

City of Las Vegas

WPCF



WPCF Odor Control Improvements

1. $28 million
2. Bark Chip Media Bio Filters
3. Additional Odor Sources Covered and Scrubbed

6’

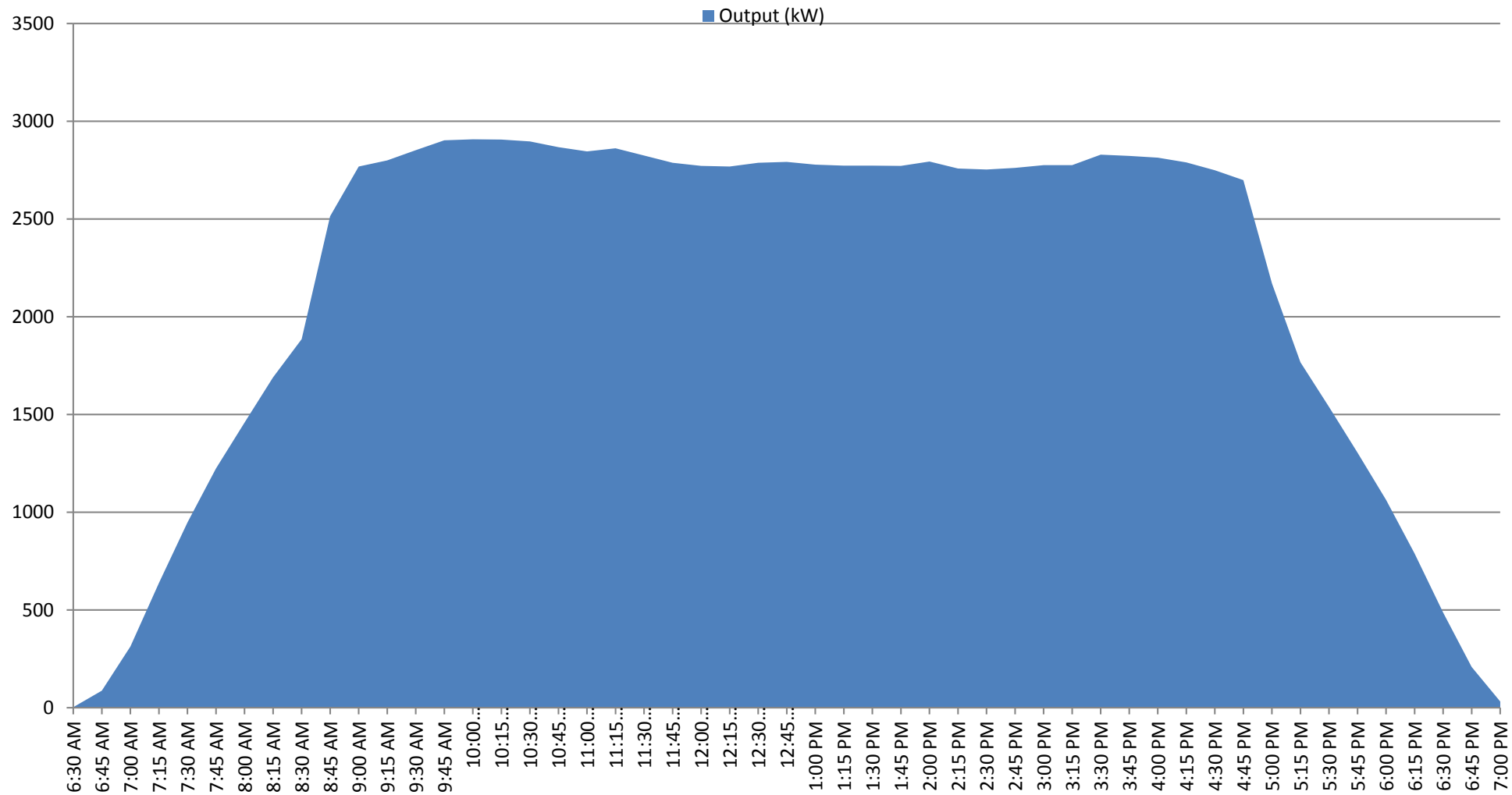
WPCF Odor Control Improvements

- Reduce dependence on chemicals
- Reduced maintenance requirements
- Replace failing odor control systems
- Renewable odor control media source
- Improve odor control quality
- Additional odor scrubbing capacity
- Additional odor sources captured

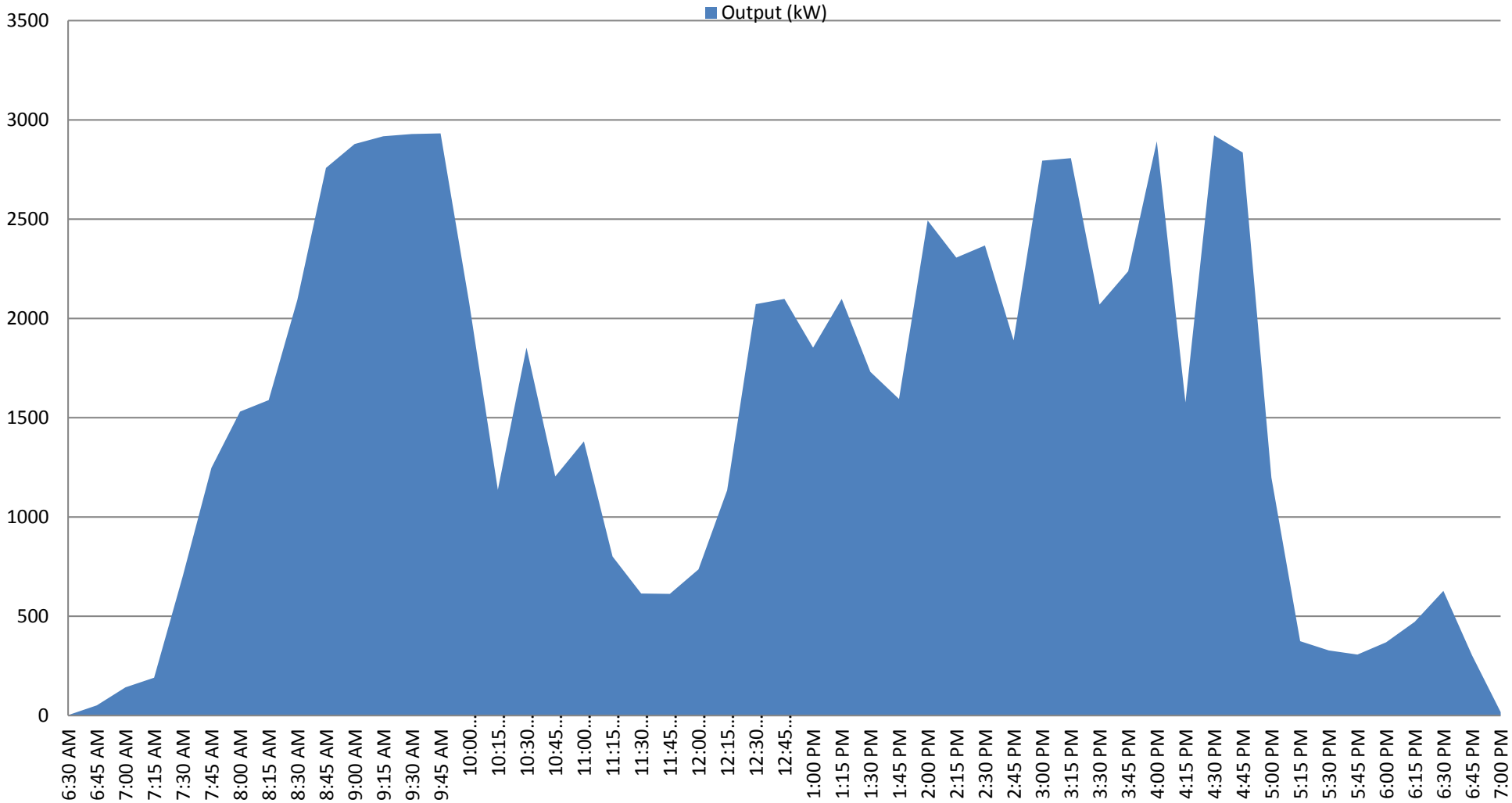
WPCF 3 MW Solar Project
1. $24 Million
2. Solar Photo-Voltaic Power
3. 25 Acres
4. 15,162 individual solar panels
E Vegas Valley Dr
E Vegas Valley Dr
SA Recycling
Tree Line Dr
Burns Allen Ave
CVS
Clara Bow Ave
Za Zu Pitts Ave
Gary Cooper St
S Hollywood Blvd
Las Vegas Water Pollution
Las Vegas Wash
Manheim Automotive Financial
E Desert Inn Rd
E Desert Inn Rd
E Desert Inn Rd
E Desert Inn Rd
Duck Hill Springs Dr
Forest Pony Ave

CITY OF LAS VEGAS
NEVADA

4/10/2013 Power Generated (Sunny Day)



4/16/2013 Power Generated (Cloudy Day)



WPCF 3MW Solar Project

- Meet City’s Renewable Energy Goals
- Stabilize the Future Cost of Power
- Residential Development Space Buffer

WPCF NDN Project

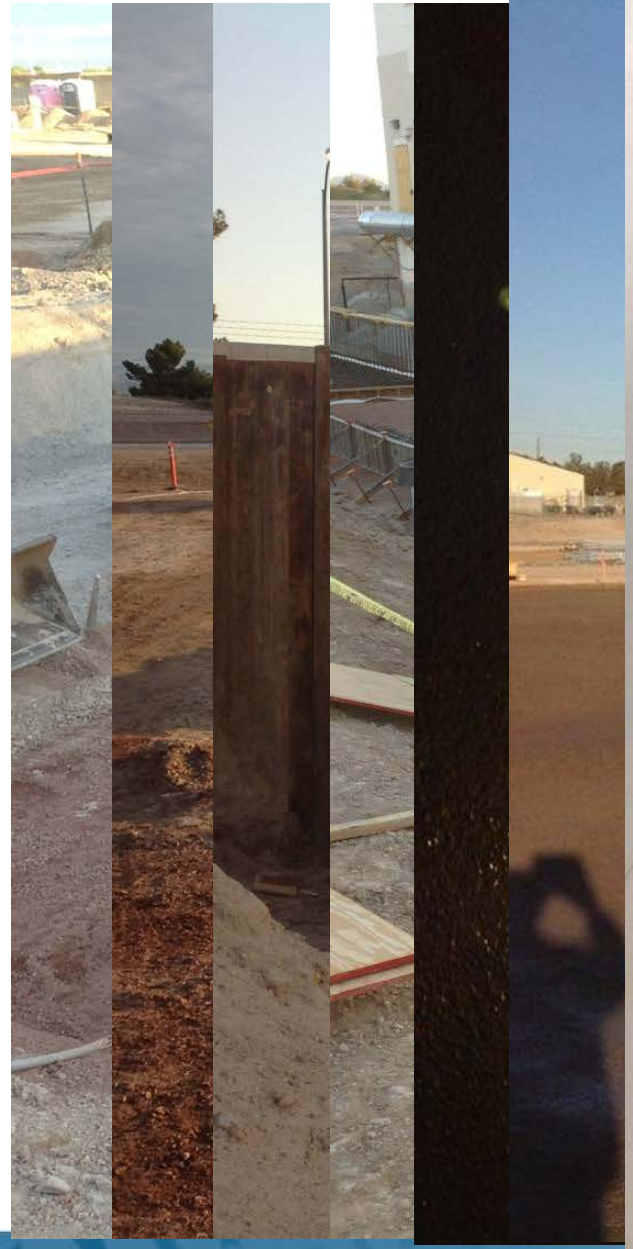
1. $20 Million
2. Convert Existing Nitrification Facility to De-Nitrificaton
3. Mothball Plants 1 and 2

WPCF NDN Project

- Improve Treatment Water Quality
- Reduce Chemical Dependency
- Standardize WPCF on Activated Sludge Treatment Process
- Mothball 60 year old treatment trains Plant 1 and Plant 2 making that space available for demolition and future expansion

WPCF Electrical and Headworks

1. $20 Million
2. 3 lines of power from NVE for WPCF
3. Headworks Bypass Pipe

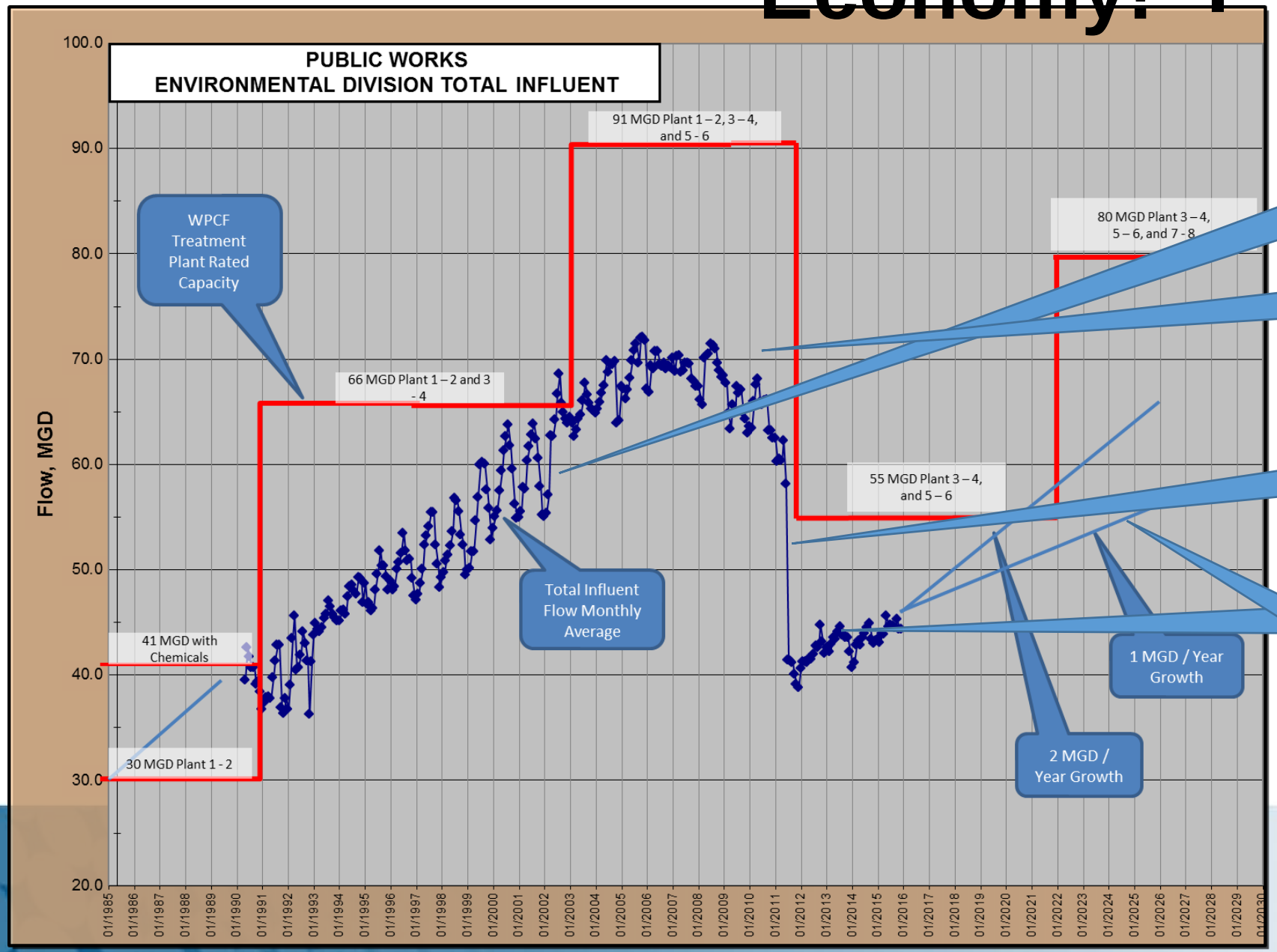


WPCF Electrical and Headworks

- Redundant Power from NVE to help prevent power outages
- 3 lines from 2 different NVE Switch Yards

- Headworks emergency bypass pipeline

WPCF Flows and Capacity Treatment Plant Explains USA Economy!



Super Growth Pre 2006

Economy Bust 2006 - 2011

North Las Vegas

Economy Recovery 2011 - Present

Future Projections

Las Vegas

E Vegas Valley Dr
E Vegas Valley Dr
E Vegas Valley Dr
Stephanie St
Club
Las Vegas Water Pollution
Las Vegas Wash
SA Recycling
Tree Line Dr
Burns Allen Ave
CVS
Clara Bow Ave
Za Zu Pitts Ave
Gary Cooper St
S Hollywood Blvd
Manheim Automotive Financial
E Desert Inn Rd
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E Desert Inn Rd
Duck Hill Springs Dr