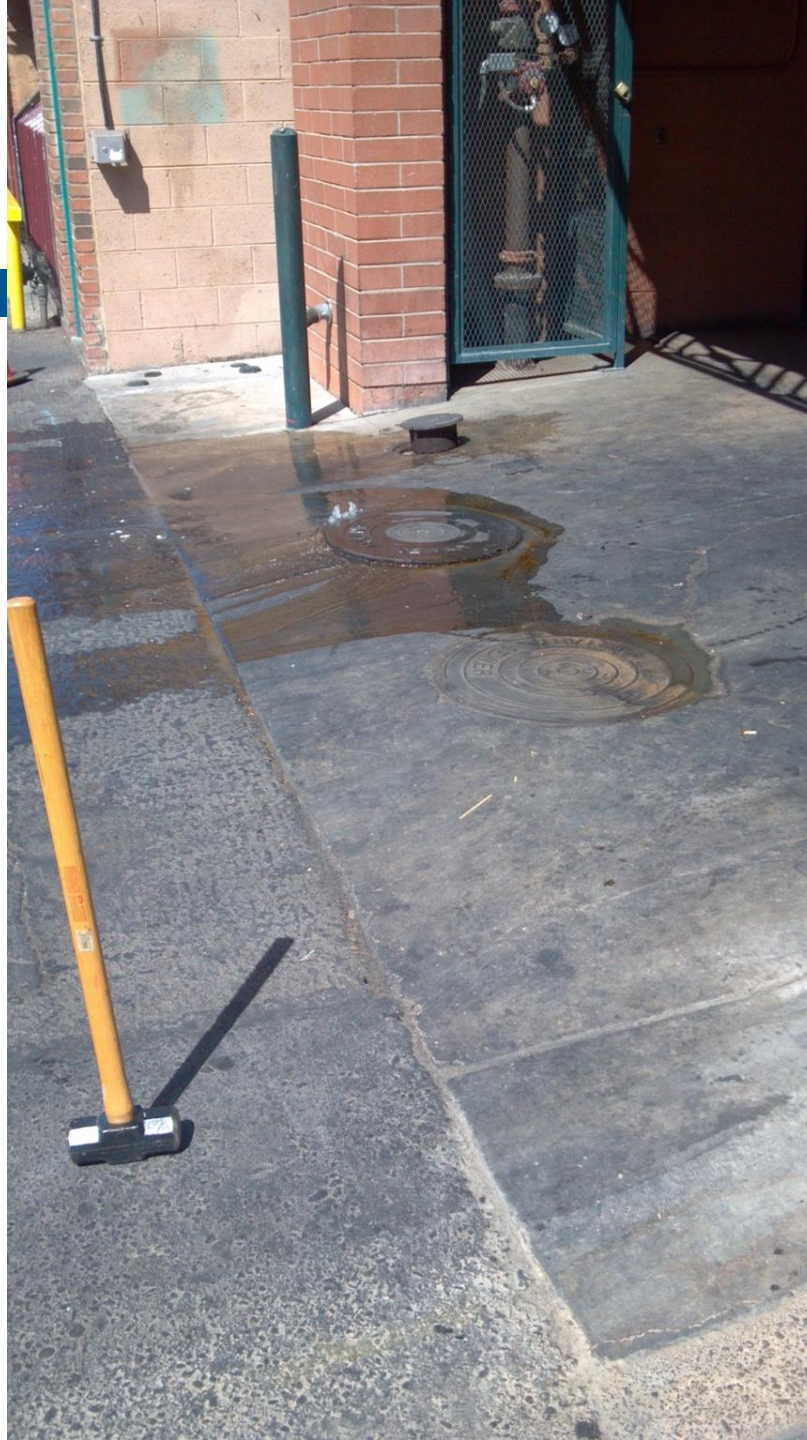
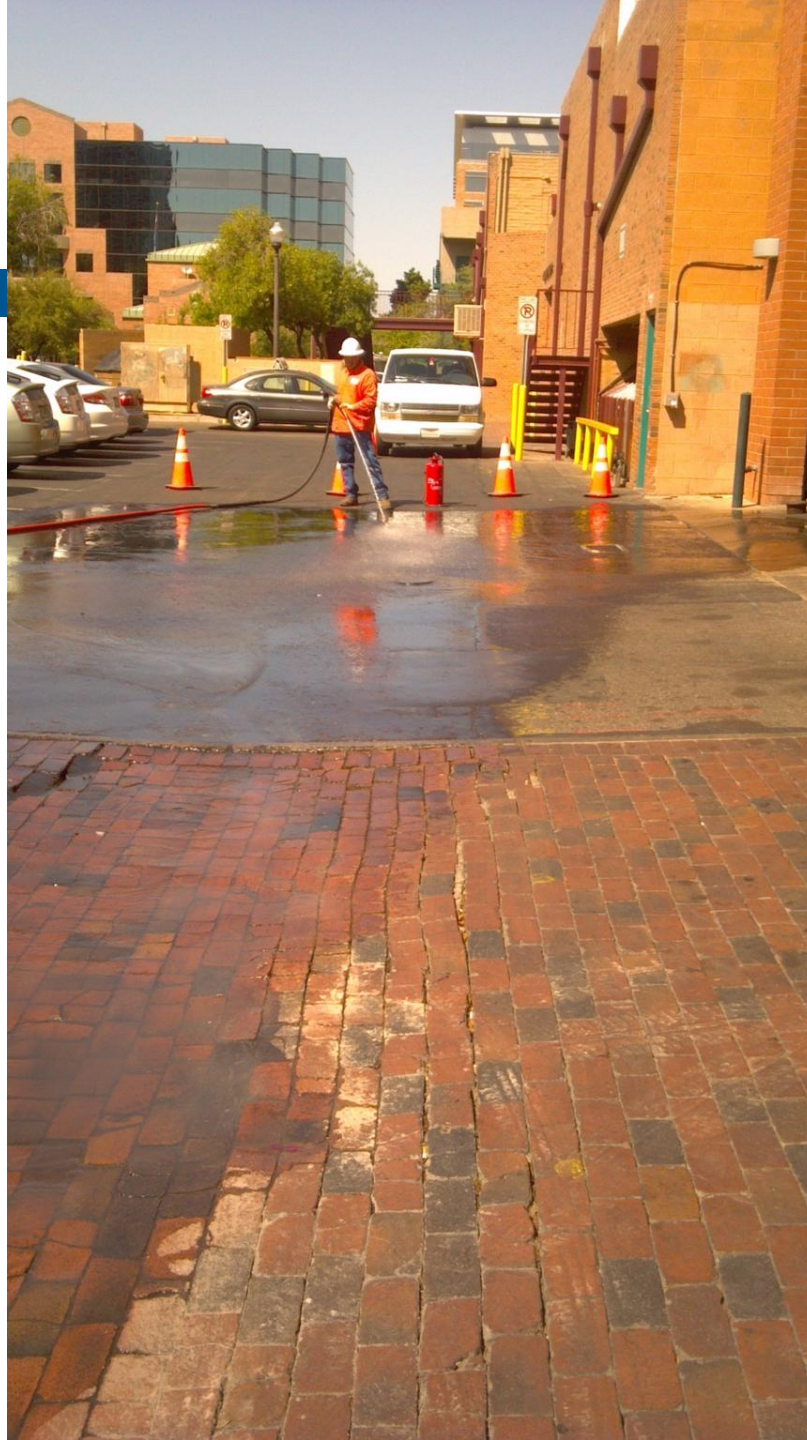


TEMPE GREASE COOPERATIVE (TGC): A NEW PARADIGM FOR THE F.O.G. FRONTIER



**SUSTAINABLE CITIES NETWORK
WATER RESOURCES WORKGROUP
MARCH 29, 2012**









FOG CHALLENGES



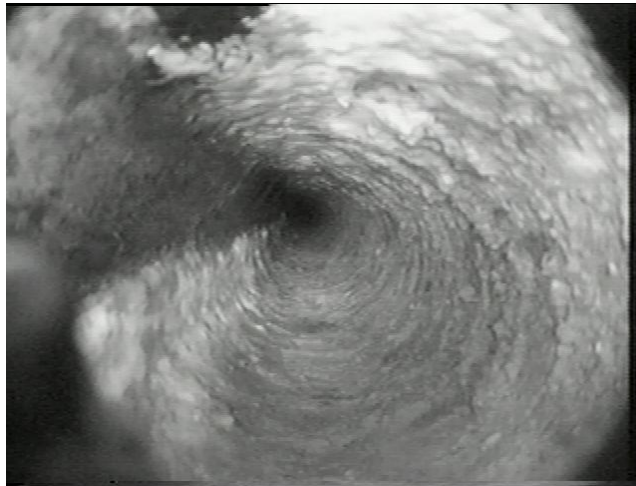
- ❑ Infrastructure
- ❑ Nuisance/Aesthetic
- ❑ Loading



TEMPE FOG MANAGEMENT

- INCREASING REGULATORY PRESSURE

- ADEQ/EPA



- FOG TO ENERGY FEASIBILITY STUDY RECOMMENDATIONS

- DOE Funded (EECBG)

- Phase I: Collection

TEMPE FATS, OILS, AND GREASE MANAGEMENT

CURRENT MODEL



PROBLEMS

- ❑ REGULATORY VOLUME (600+ RESTAURANTS, 4,000+ REGULATED “EVENTS”)
- ❑ **RESTAURANTS** REGULATED FOR QUALITY OF **VENDOR** SERVICE
- ❑ DISPOSITION (ILLEGAL DISPOSAL)

TEMPE FATS, OILS, AND GREASE MANAGEMENT

CREATES OPPORTUNITIES

- ❑ “FUEL” FOR ENERGY

SOLVES PROBLEMS

- ❑ CONTRACT MGMNT v. REGULATORY ENFORCEMENT
- ❑ ACCOUNTABILITY/SERVICE QUALITY

FOR RESTAURANTS

- ❑ WHOLESALE RATES
- ❑ “IT JUST HAPPENS”
- ❑ “86” REGULATORY LIABILITY

VENDOR CONTRACT MODEL



DOWNTOWN TEMPE PILOT PROJECT PROPOSAL

AGE-OLD QUESTION



Or?



- LEVEL PLAYING FIELD
- DISCOUNT INCENTIVE CERTAINTY

- POLITICAL SUPPORT
- INHERENTLY “WIN-WIN”
(I.E., PROGRAM SELLS ITSELF)
- INCENTIVE OPPORTUNITIES
- PARTNERSHIP VALUE

TEMPE GREASE COOPERATIVE

STRUCTURE, TERMS, AND MEMBER VALUE

(Administrative)

- ☐ RETAIL COOPERATIVE
- ☐ CITY ADMINISTRATION: “IT JUST HAPPENS”
- ☐ “UTILITY-TYPE” BILLING
- ☐ USER-FRIENDLY AND DISCRETIONARY ENROLLMENT
- ☐ ELECTED ADVISORY COMMITTEE



TEMPE GREASE COOPERATIVE

STRUCTURE, TERMS, AND MEMBER VALUE

(Service Quality / Aesthetics)

- ❑ QUALITY ASSURANCE
- ❑ ADVOCACY
- ❑ ODORS / PLUMBING BACKUPS
- ❑ NO-COST INFRASTRUCTURE ASSESSMENTS: “GREASE SQUAD”
- ❑ SERVICE AND SITE CLEANLINESS



TEMPE GREASE COOPERATIVE

STRUCTURE, TERMS, AND MEMBER VALUE

(Financial)

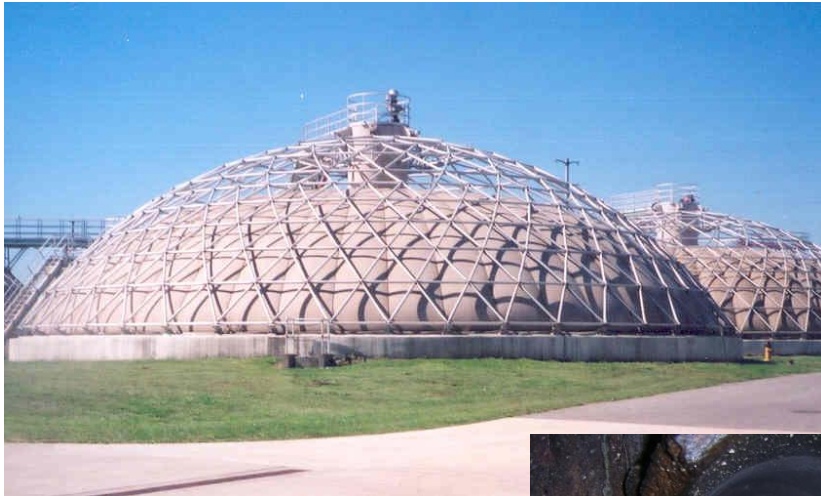


- ☐ SCALE SAVINGS
- ☐ COST-OF-COMPLIANCE REBATES
- ☐ “GREASE DIVIDENDS”
- ☐ FINDER’S FEES
- ☐ INFRASTRUCTURE ASSISTANCE
- ☐ COMPLIANCE ASSURANCE

TEMPE GREASE COOPERATIVE

STRUCTURE, TERMS, AND MEMBER VALUE

(Community / Environmental Sustainability)



- ☐ SUSTAINABLE INFRASTRUCTURE
- ☐ DISPOSITION
- ☐ RENEWABLE ENERGY
- ☐ COMMUNITY PARTNERSHIPS
- ☐ “THE RIGHT THING”



TEMPE GREASE COOPERATIVE

DEVELOPMENT AND IMPLEMENTATION

- ☐ RFP / CONTRACTS
- ☐ ORDINANCE / RULE / POLICY MODIFICATIONS
- ☐ SAMPLING
- ☐ VISUAL (TV) INFRASTRUCTURE ASSESSMENTS
- ☐ MARKETING / ENROLLMENT
- ☐ BILLING
- ☐ INFRASTRUCTURE GRANTS



Start	Finish	Days	MARCH					APRIL		
			2/28	3/7	3/14	3/21	3/28	4/4	4/11	4/18
9-Mar-05	14-Mar-05	5								
9-Mar-05	14-Mar-05	5								
9-Mar-05	14-Mar-05	5								
10-Mar-05	8-Apr-05	22								
10-Mar-05	18-Mar-05	7								
	1-Apr-05	9								
	8-Apr-05	4								
	19-Apr-05	34								
	18-Mar-05	4								
	11-Apr-05	18								
	25-Mar-05	8								
	22-Apr-05	10								

TEMPE GREASE COOPERATIVE

ACTION TEAM #1: RFP / CONTRACTS



- ☐ MULTIPLE AWARDS
- ☐ CITY IS CUSTOMER
- ☐ QUALITY CRITERIA (SERVICE AND DISPOSITION)
- ☐ MANIFESTS AND GPS TRACKING
- ☐ SCALE PRICING AND YELLOW GREASE OFFSETS
- ☐ ESTABLISHED SCHEDULES
- ☐ STATUS

TEMPE GREASE COOPERATIVE

ACTION TEAM #2: ORDINANCE / RULES AND PROCEDURES

☐ NEEDS INVENTORY

- ☐ CONTRACT AUTHORITY
- ☐ TGC ENROLLMENT OPPORTUNITY
- ☐ TGC TERMS OF ENROLLMENT
- ☐ GRANTS PROGRAM
- ☐ REQUIREMENTS ACCESSIBILITY / ENFORCEABILITY (SB1598)



TEMPE GREASE COOPERATIVE

ACTION TEAM #2: ORDINANCE / RULES AND PROCEDURES

❑ ORDINANCE

- ❑ RULES-AND-PROCEDURES-BY RESOLUTION AUTHORITY
- ❑ AUTHORITY TO ESTABLISH CONTRACTS TO PROVIDE CLEANING/MAINTENANCE SERVICES ON BEHALF OF FSEs
- ❑ AUTHORITY FOR PROGRAMS “TO PROMOTE COMPLIANCE”



❑ RULES AND PROCEDURES

- ❑ MAINTENANCE AND CLEANING CRITERIA
- ❑ TGC TERMS OF ENROLLMENT
- ❑ INFRASTRUCTURE GRANTS PROGRAM

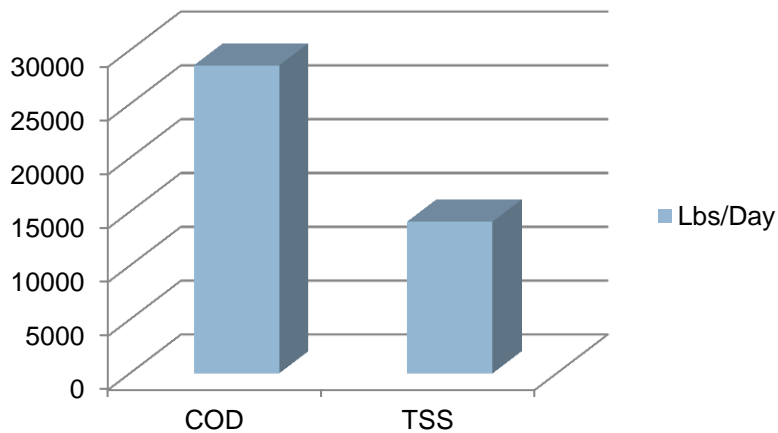
❑ STATUS

TEMPE GREASE COOPERATIVE

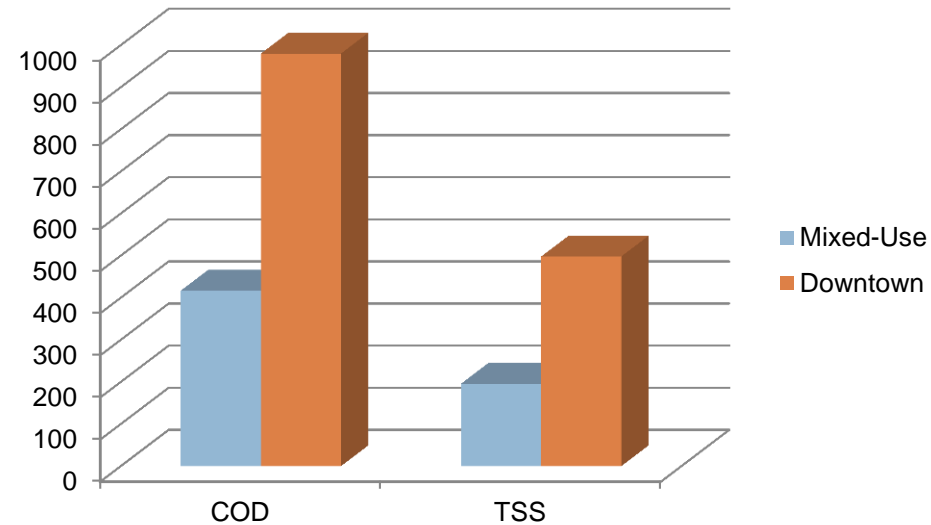
ACTION TEAM #3: SAMPLING

BASELINE LOADING

FOR DIVIDEND CALCULATION



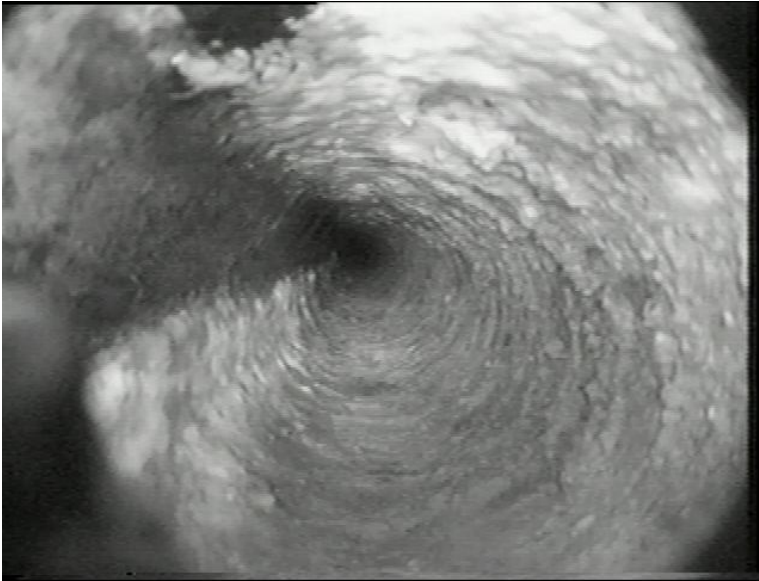
Avg. Daily Loading, Downtown, 12/11 – 1/12



Avg. Concentration Dec. 2011 – Jan. 2012 (mg/L)

TEMPE GREASE COOPERATIVE

ACTION TEAM #4: VISUAL ASSESSMENTS



- ☐ BASELINE TV/CLEAN
- ☐ PRE-PROGRAM TV/CLEAN
- ☐ POST-PROGRAM ASSESSMENT

TEMPE GREASE COOPERATIVE

ACTION TEAM #5: Marketing & Enrollment



- ☐ STAKEHOLDER INVOLVEMENT
- ☐ TERMS OF ENROLLMENT
- ☐ MARKET RESEARCH
- ☐ PRESS RELEASE (2/7)
- ☐ WEBSITE (2/7)
- ☐ MAILER / SURVEY (3/16)
- ☐ 1-ON-1 FOLLOW-UP

Mill Avenue District
DOWNTOWN TEMPE COMMUNITY



Municipal Services Statement

City of Tempe
PO Box 29617
Phoenix, AZ 85026-9617

VALUED CUSTOMER

Account Number 7568200000

Billing Date 11/1/2011

Due Date for Current Charges 11/28/2011

Customer Inquiries: 480-350-8361

TDD:

Website: www.tempe.gov/waterutil/

Page 1 of 2

The City of Tempe water and sewer rate increase became effective November 1st. These rates can be viewed by visiting www.tempe.gov/water/rates.htm

When using the automated systems (phone or web) to make a payment, please use your old account number 03647500115825 until further notice. Thank you.

If you have any questions regarding your bill, please e-mail Customerservices@tempe.gov or call (480)350-8361. Thank you.

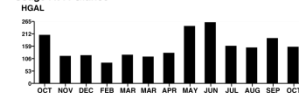
Account Summary as of November 1, 2011	
Previous Balance	\$94.74
Payments Received	-\$94.74
Balance Forward	\$0.00
Current Charges	\$91.25
Total Amount Due	\$91.25
Help to Others Voluntary Donation	\$1.00
Total with Voluntary Donation	\$92.25

Service Address: 7 W LIVEWORKPLAY DR, TEMPE, AZ 85283

Meter Number	Current Meter Read		Previous Meter Read		Usage / Consumption
	Date	Reading	Date	Reading	
36300757	10/19/2011	3568	9/21/2011	3413	155 HGA

Water Single-Fam Residential

Usage At-A-Glance



Service from 9/22/11 - 10/19/11

Monthly Service Charge	10.24
Consumption charges	29.84
State Water Quality Assurance Fee	0.10
City Tax 2%	0.80
State Tax 7.3%	2.93
Subtotal	\$43.91



RETURN THIS PORTION WITH PAYMENT
Please make checks payable to City of Tempe

Account Number	Total Amount Due	Voluntary Donation	Total with Voluntary	Due Date	Amount Paid
7568200000	\$91.25	\$1.00	\$92.25	11/28/2011	

VALUED CUSTOMER
7 W LIVEWORKPLAY DR
TEMPE AZ 85283-3322



SEND PAYMENTS TO:
City of Tempe
PO Box 29617
Phoenix, AZ 85038-9617

756820000070000000000092254

TEMPE GREASE COOPERATIVE

ACTION TEAM #7: FINANCIAL ASSISTANCE

- ☐ INITIAL INFRASTRUCTURE ASSESSMENTS
- ☐ FUNDED FROM PRETREATMENT REVENUE
- ☐ DEMONSTRATED VALUE AND PAYBACK FROM DIVIDENDS AND ENERGY REVENUE
- ☐ POSSIBLE LEASE-TO-OWN PROGRAM



TEMPE GREASE COOPERATIVE (Downtown and Beyond)



- ☐ BETTER FOG MANAGEMENT
(SUSTAINABLE INFRASTRUCTURE)
- ☐ LOWER OPERATING/COMPLIANCE
COSTS (FISCAL SUSTAINABILITY)
- ☐ RENEWABLE ENERGY (SUSTAINABLE
ENVIRONMENT)

-----**(TRIPLE) BOTTOM LINE**-----

TEMPE GREASE COOPERATIVE

DAVID McNEIL
ENVIRONMENTAL SERVICES MANAGER
CITY OF TEMPE

480-350-2844

david_mcneil@tempe.gov

grease@tempe.gov

www.tempe.gov/water/grease