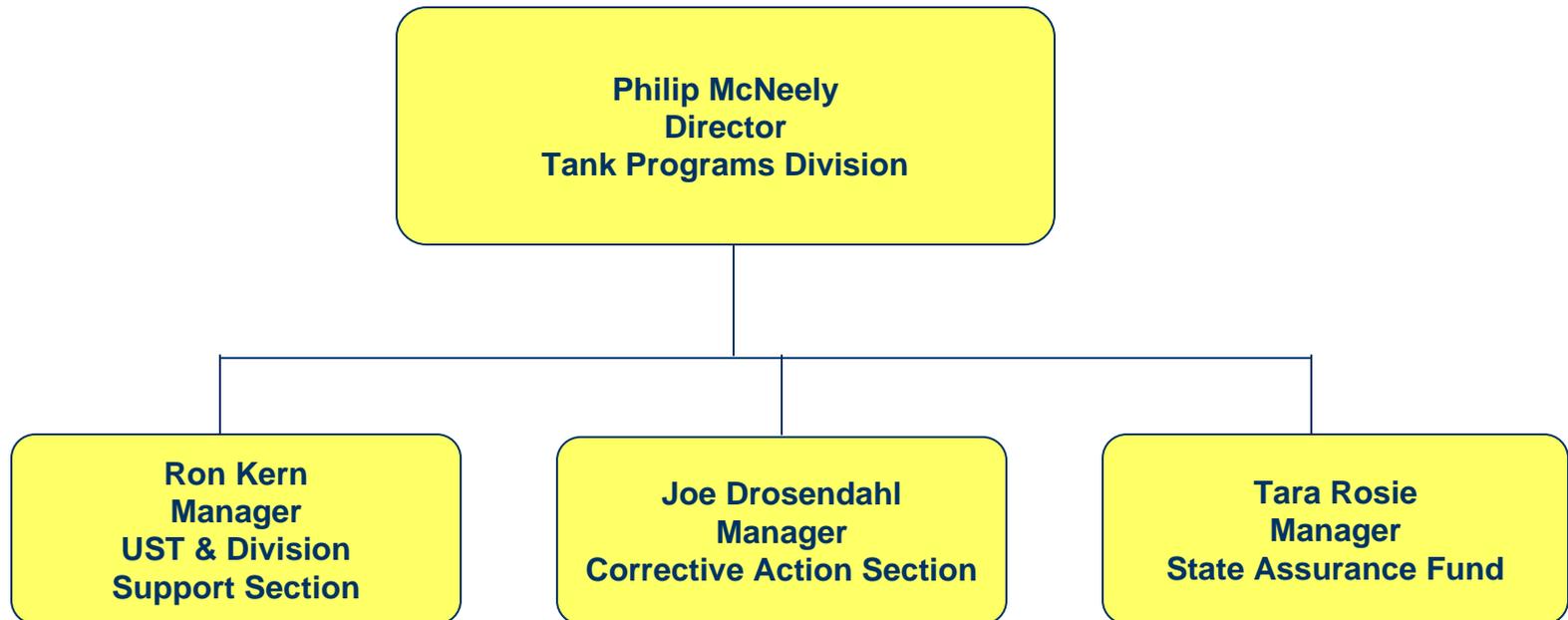


Tank Programs Division UST Conference

TANK PROGRAMS DIVISION UPDATE

**Philip McNeely, Director
Tank Programs Division
October 15, 2008**

Tank Programs Division UST Conference



Tank Programs Division UST Conference

SAF SUNSET

- SB-1306 effective August 2004 established a schedule to sunset the SAF
- Eligibility for new releases ended June 30, 2006
- No claims accepted after June 30, 2010
- Monitored Natural Attenuation Fund created for ground water sites where active remediation complete & source removed

Tank Programs Division UST Conference

UST Energy Act

- President signed Energy Policy Act on August 8, 2005
- Main provisions focused on release prevention
- AZ Legislature passed HB 2425 to implement the requirements of the Act in 2008

Tank Programs Division UST Conference

CENTRALIZED PROGRAM

- UST Program is located within one state agency
- A single division was created in 2004 that is dedicated solely to the UST Program
- Improved coordination between UST Compliance, LUST Corrective Actions and State Assurance Fund (SAF)

Tank Programs Division UST Conference

COORDINATED APPROACH

- Limit new releases with increased focus on UST operational compliance
- Enforce Financial Responsibility requirements for operating facilities
- Actively manage current releases toward closure
- Actively manage new releases that are not SAF eligible
 - 68 new releases reported since July 1, 2006
 - 28 releases closed, 40 releases open
- Aggressive outreach to regulated parties and environmental consultants

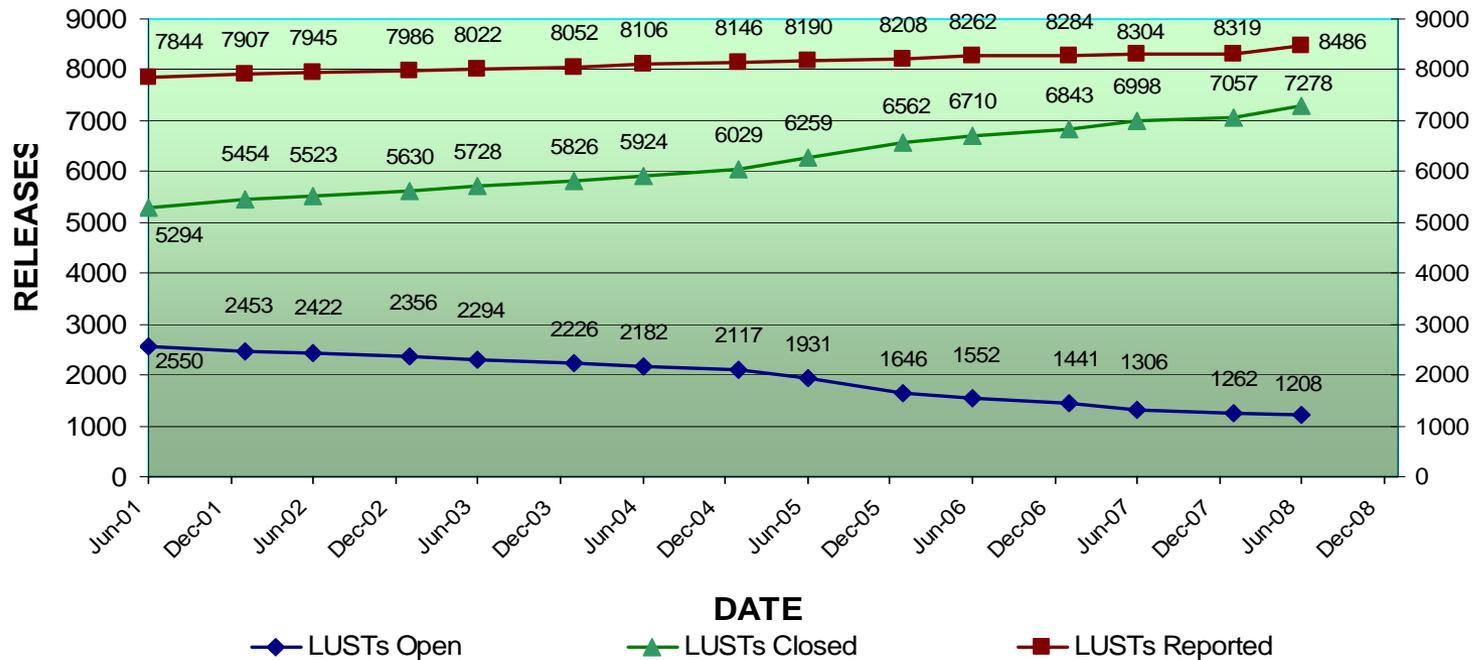
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UST COMPLIANCE

- Approximately 2,534 operating facilities with 7,053 USTs
- Conduct approximately 1,000 inspections per year which includes:
 - A complete operational compliance inspection
 - A Financial Responsibility compliance check
 - Compliance assistance
- FR Compliance of 2,231 facilities inspected from July 2006 to October 2008:
 - 74% demonstrated compliance at time of inspection
 - 96% demonstrated compliance subsequent to the inspection

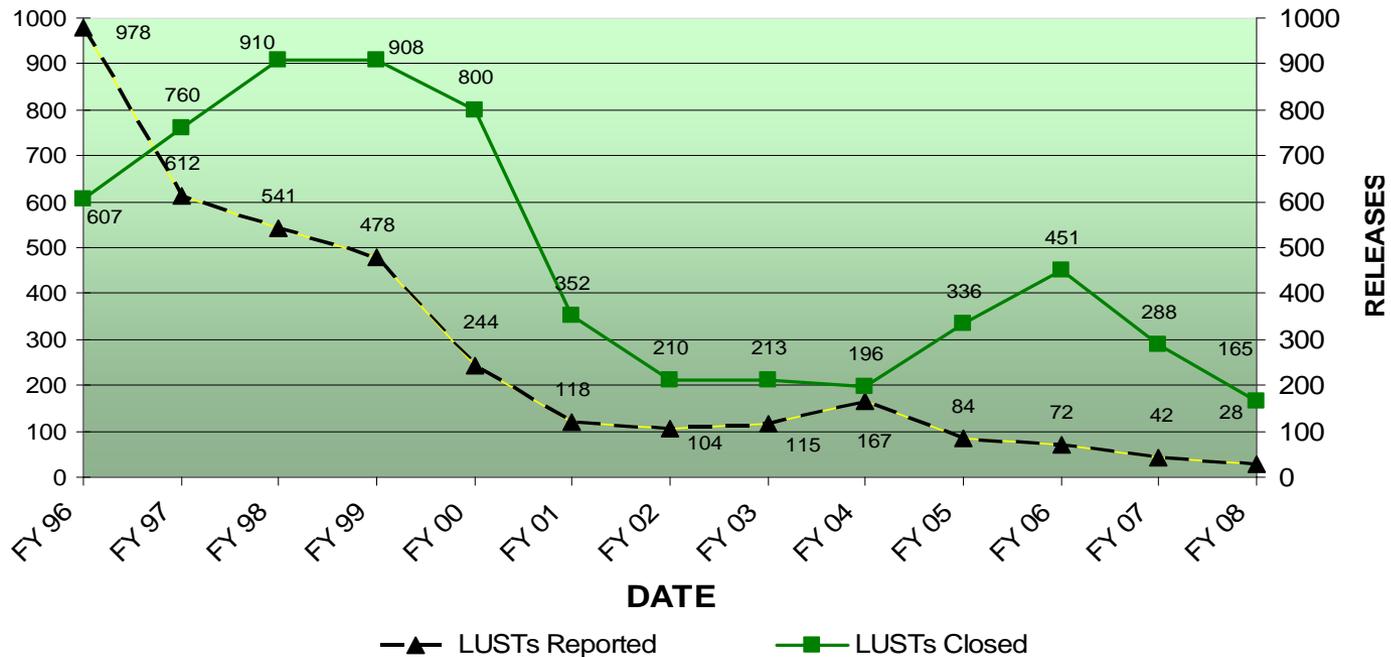
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CUMULATIVE LUST STATISTICS June 2001 - June 2008



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LUST RELEASES REPORTED AND CLOSED
 June 1996 - June 2008



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ARIZONA CORRECTIVE ACTION PROCESS

REMEDIATION STANDARDS

Arizona Water Quality Standards (AWQS)

- Risk assessment to develop standards for COC's without a AWQS if receptor threatened

Soil Remediation Standards

- Predetermined
- Site specific (risk assessment or background)
- Residential and non-residential

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ARIZONA CORRECTIVE ACTION PROCESS (cont.)

- Emphasis on source removal (free product, soil contaminated above standards, areas of high dissolved phase) with active remediation
- Clean up can be initiated prior to complete site characterization
- Corrective action plans only required for high risk LUST sites

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REGULATORY TOOLS TO REACH SITE CLOSURE

- Monitored Natural Attenuation Program
- Ground water closures with an exceedance of AWQS under certain conditions
- RBCA Tier II Software
- Deed Restrictions for non-residential cleanup

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OUTREACH INITIATIVES:

- Municipal Tank Closure Program
- Route 66 Initiative
- School Assistance Program
- Meeting with large O/O's to strategize cleanups
- State Lead Program
 - Owner/ operator financially, technical incapable
 - Owner/ operator in violation of Administrative Order
 - Orphan and volunteer sites

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STATE LEAD UST FACILITIES:

	2006	October 2008
Total in State Lead	61	73
Total Under Investigation	11	24
Total In Remediation	50	35
Closed (Cumulative)	44	61

CUMULATIVE DATA

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COUNTY AND MUNICIPAL TANK CLOSURE PROGRAM:

	2005	2006	October 2008
Cities Involved	20	28	38
Applications Received	58	71	93
Applications Approved	50	60	85
USTs Removed	81	104	173

CUMULATIVE DATA

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ROUTE 66 INITIATIVE:

- Expedites closure of abandoned USTs and corrective actions along Route 66
- Provides increased communication and cooperation between ADEQ, the regulated community and local residents
- 347 LUST sites along AZ Route 66
 - 69 open (100 open in 2004)
 - 37 orphan sites with USTs removed

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SCHOOL ASSISTANCE PROGRAM:

- Initiated in Summer 2007 to assist Arizona schools with preventing releases and cleaning up their existing UST releases
- Forty-seven schools had operating USTs and 19 had an open LUST
- Provided compliance assistance at each school and offered the state lead option for the 18 schools with open LUST
 - Eleven LUSTs are either closed or in the closure process
 - Seven have entered the state lead program.

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SCHOOL ASSISTANCE PROGRAM:

In 2008, Tank Programs Division won an EPA External Environmental Award for the UST Assistance Program to Arizona Schools.

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STATE ASSURANCE FUND (SAF):

- Funded by a one cent per gallon tax on UST regulated substances since July 1, 1990 (approximately \$30 million per year).
- Total pay out, approximately \$290 million
- Process approximately 1,000 claims per year
- Reimburse approximately \$20 million per year

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Main Priorities For the Coming Year:

- Continue to focus on case management and LUST closures
- Implement HB 2425 (delivery prohibition, secondary containment, operator training)
- Continue to focus on leak prevention and financial responsibility requirements
- Continue to process SAF applications within 90 days

Tank Programs Division UST Conference

ARIZONA CONTACTS

- Philip A. McNeely: Director, Tank Programs Division
 - 602-771-7645
 - mcneely.philip@azdeq.gov
- Ronald A. Kern: Manager, UST & Division Support Section
 - 602-771-4242
 - kern.ronald@azdeq.gov
- Tara Rosie: Manager, State Assurance Fund Section
 - 602-771- 4725
 - rosie.tara@azdeq.gov
- Joseph Karl Drosendahl: Manager, Corrective Action Section
 - 602-771-4845
 - drosendahl.joseph@azdeq.gov

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**Gail Clement, Chairperson
UST Policy Commission**

Tank Programs Division UST Conference

UST Policy Commission Members:

- William (Bill) Bunch, Circle K Stores, Inc.
- Tricia Johnsen, Safeway, Inc.
- Manoj Vyas, City of Globe
- Gail Clement, G.M. Clement and Associates, Inc.
- Catherine Chaberski, City of Glendale
- Jon Findley, Sierra Club, Palo Verde Group
- Michael O'Hara, O'Hara and Associates
- Karen Gaylord, Salmon, Lewis & Weldon, PLC
- Theresa Kalaghan, SECOR International, Inc.
- Philip McNeely, ADEQ
- Tamara Huddleston, Attorney General's Office

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Energy Policy Act of 2005 UST Compliance Act

**Ronald Kern
October 15, 2008**

Tank Programs Division Energy Policy Act (UST)

- President signed Energy Policy Act (EPAct) - 8/8/05
- Main provisions are focused on release prevention
- U.S. EPA is lead agency on implementation and has published guidelines for all requirements:
(http://www.epa.gov/oust/fedlaws/epact_05.htm#Drafts)
- States required to implement EPAct provisions

Tank Programs Division Energy Policy Act (UST)

Requirements

- 1) Groundwater protection (by 2/8/07) [**HB2425**]
 - Secondary Containment – new or replaced components, or
 - Manufacturer & Installer Financial Responsibility & Certification
- 2) Government Tank Compliance Report (by 8/8/07)
- 3) Delivery Prohibition (by 8/8/07) [**HB2425**]
- 4) Inspections
 - All existing USTs not inspected since 12/22/98 (by 8/8/07)
 - All USTs at least once every 3 years (by 8/8/10)
- 5) Public Record (annual; publish first record in 12/08)
- 6) Operator Training (requirements by 8/8/09) [**HB2425**]

Tank Programs Division Energy Policy Act (UST)

HB2425 History

- Beginning July 2007, ADEQ held numerous stakeholder meetings to develop consensus language for EPA Act UST requirements
- HB2425 passed through House and Senate during 2008 Legislative Session
- Governor signed HB2425 on 5/20/08; effective 09/26/08
- ADEQ sent Fact Sheet to stakeholders (July 2008) and posted on Website: www.azdeq.gov/envIRON/ust/download/CH_218.pdf

Tank Programs Division Energy Policy Act (UST)

Secondary Containment

- A.R.S. §49-1009
- Beginning 1/1/09, all newly-installed UST systems must be equipped with secondary containment & interstitial monitoring
- Beginning 1/1/09, a person who replaces 25% or more of piping (pressurized) between the tank and dispenser must equip all of that piping with secondary containment & interstitial monitoring
- Beginning 1/1/09, any new or replaced fuel dispenser connected to a UST must have under-dispenser containment
- ADEQ must be notified within 30 days

Tank Programs Division Energy Policy Act (UST)

Delivery Prohibition

- A.R.S. §49-1023
- Effective 1/1/09
- “Stop Use” Order if significant violation of UST release detection or tank performance requirements and continued operation may result in a new or continued release
- “Stop Use” tag attached at fill pipe
- Owner/Operator must empty tank
- Owner/Operator responsible for maintaining “Stop Use” tag
- Product Deliverer must not deliver to UST
- Website: www.azdeq.gov/environ/ust/prohibition/index.html

Tank Programs Division Energy Policy Act (UST)

PETROLEUM DELIVERY PROHIBITED!

Delivering petroleum or removing, defacing, altering, or otherwise tampering with this tag may result in civil penalties up to \$10,000 per day.

If you have questions, please contact:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

TELEPHONE: (602) 771-4315

UST Facility ID No. _____
Stop-Use Order No. _____
Tank No./Contents/Size _____

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Energy Policy Act (UST)

Operator Training

- A.R.S. §49-1083
- Beginning August 9, 2012, UST owner must designate Class A, B and C operators that have specific training requirements
- Class A: all UST administrative and technical requirements
- Class B: specific UST operational and reporting requirements
- Class C: response to UST alarm or emergency
- Documentation of training will be reviewed during inspection
- ADEQ rulemaking: types of training allowed; trainer qualifications; training documentation format

Tank Programs Division Energy Policy Act (UST)

- QUESTIONS?
- Contact:
 - Ronald Kern: (602)771-4242; kern.ronald@azdeq.gov
 - Nick Velasquez: (602)771-4315; velasquez.nick@azdeq.gov

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VIOLATIONS MOST COMMONLY DETECTED DURING AN INSPECTION

**Nick Velasquez
Tank Programs Division
UST Inspection and Compliance Supervisor
(602) 771 - 4315
October 15, 2008**

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Maintaining Release Detection For Tanks And Piping

- **Monthly – Leak Test for Tank/Piping**
- **Annually – Line Leak Detector Test, Maintenance and Calibration of Automatic Tank Gauges and Piping Sensors**

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Performance Standards

- **Overfill Protection**
- **Spill Containment**
- **Corrosion Protection**
- **Compatibility**

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Overfill Prevention

Activation Levels

- Drop Tube Shut-off Device – 95%
- Audible Alarm – 90%
- Ball Float – 90%

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Spill Containment

- Properly installed and sealed
- Cracked and Broken Buckets
 - It is recommended to periodically inspect your spill buckets.
 - The average life of a spill bucket is 5 years.

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Corrosion Protection (CP)

- Mandatory testing within 6 months of install or repair
- Mandatory testing every 3 years thereafter
- Inspection of Impressed Current system every 60 days
 - Requires completion of Impressed Current Log

Interior Lining w/o CP

- 10 year inspection after install
- Inspection is required every 5 years thereafter
 - 10 year inspection deadline has past for most or is approaching for the remaining USTs with Interior Lining**

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Financial Responsibility

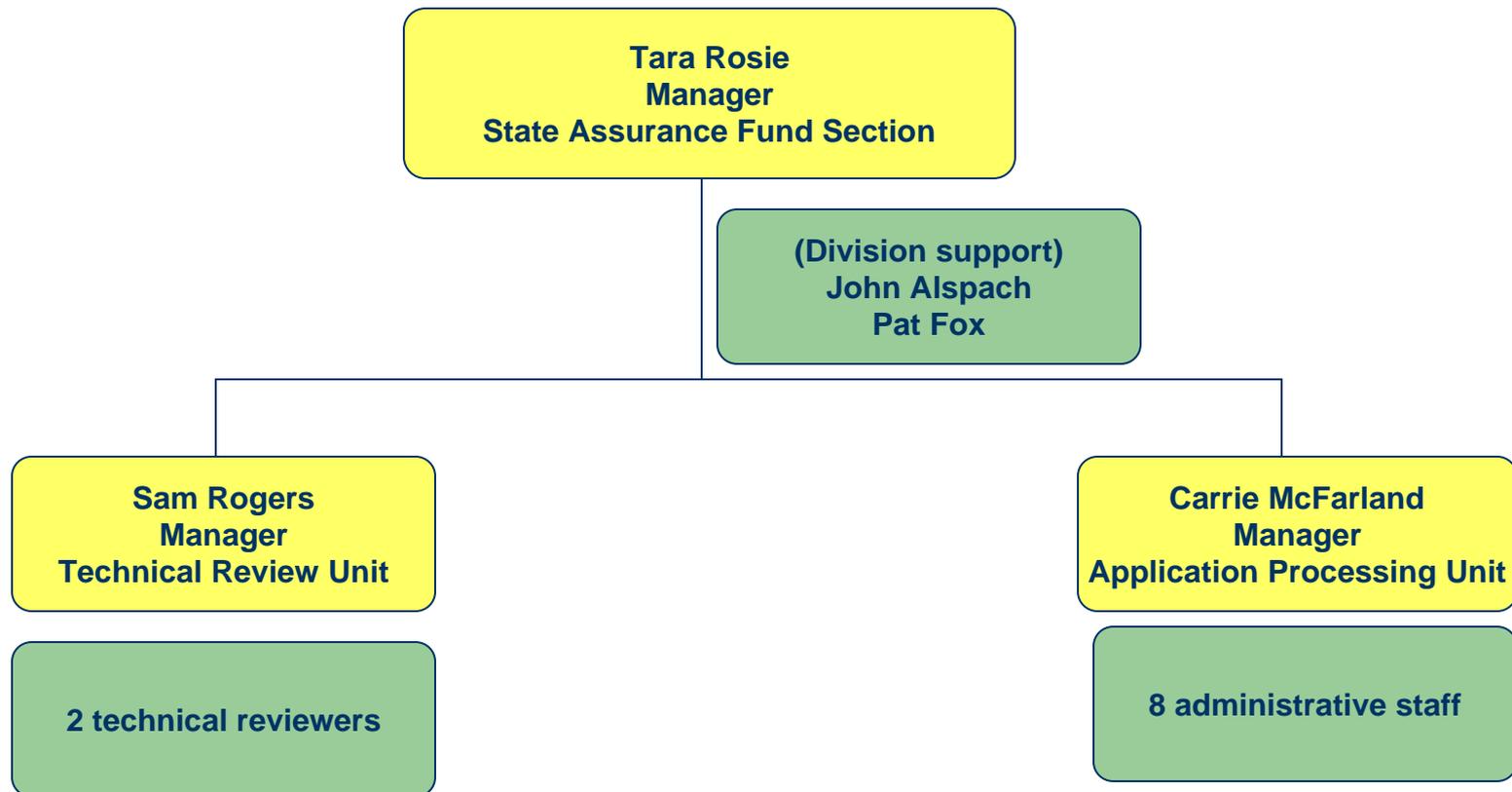
- Required for all open Underground Storage Tanks
- Financial Responsibility is not required once the tanks are closed unless there is an open LUST.
- Financial Responsibility must be maintained until LUST case closure is achieved.

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STATE ASSURANCE FUND UPDATE

**Tara Rosie
State Assurance Fund Manager
October 15, 2008**

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SAF Accomplishments

Current Status of Claims

General Submittal Issues

Facilitating the Review Process

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Historical Data

Total Claims Processed: approx. 16,000

Total Payouts: approx. \$290 million

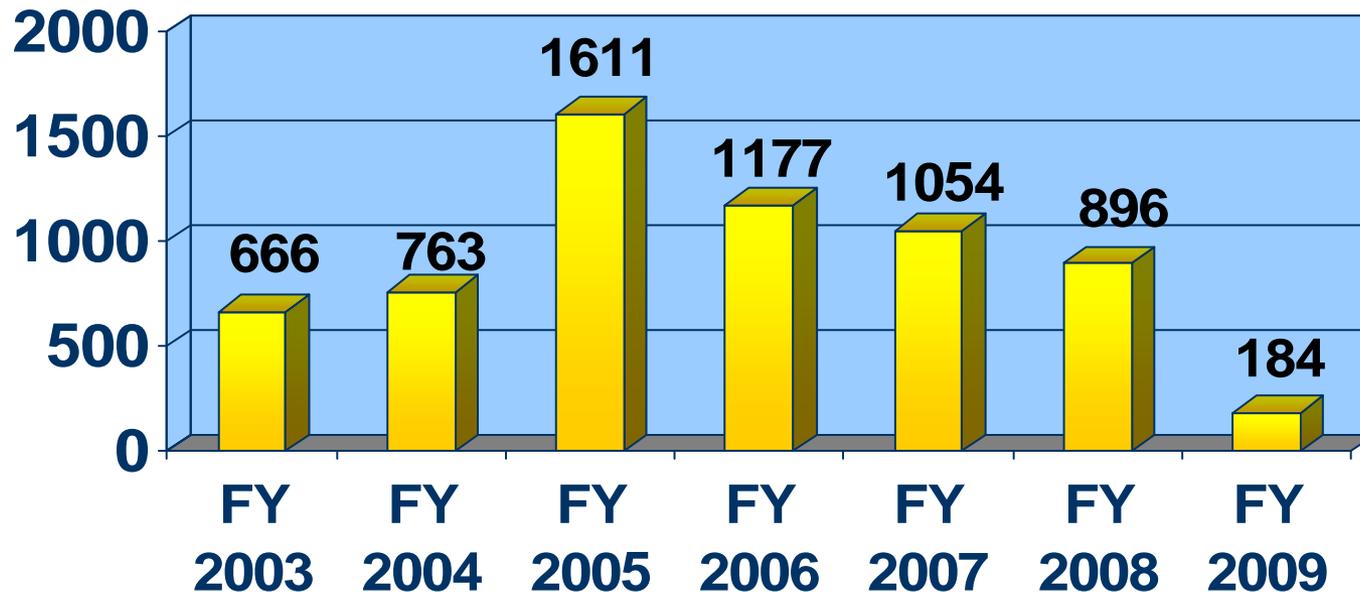
FY 2008

Claims Processed FY2008: 1,032

Payouts FY2008: \$15,761,354

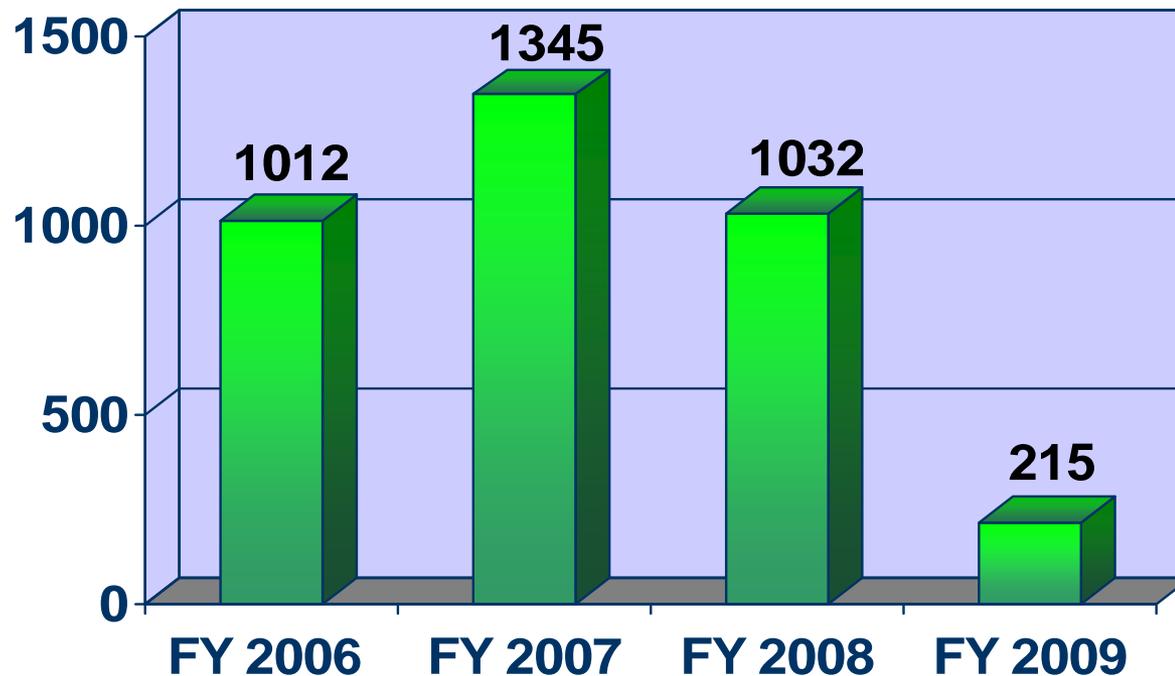
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Claim Submittals



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SAF Determinations Made



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Ratio of Submittals - Historical

Reimbursement: 67%

Preapproval: 11%

Direct payment requests: 22%

Ratio of Submittals - FY 2008

Reimbursement: 68%

Preapproval: 5%

Direct payment requests: 27%

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CURRENT STATUS OF CLAIMS

Claims under review – 10/6/2008

Reimbursement: 63

Preapproval: 4

Direct payment requests: 29

Total: 96

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GENERAL SUBMITTAL ISSUES

Claim form is not complete

Claim form is altered

Applicant certification statement amount is not consistent with cost work sheet amount

Multiple preapproval line numbers or invoice numbers on one line of the cost work sheet

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GENERAL SUBMITTAL ISSUES (continued)

Proof of Payment is not provided with the submittal

Summary of Work Forms do not reference previously submitted costs for the same task or increment

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FACILITATING THE REVIEW PROCESS

Make sure the submitted claim is complete and correct

Make sure that any name changes, address changes, etc. associated with the applicant is provided to ADEQ prior to claim submittal

Include all costs associated with a task or increment in the same submittal

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FACILITATING THE REVIEW PROCESS (continued)

Use the footnote column of the cost work sheet to provide clarification

Provide additional information on the invoices to link subcontractor costs to primary service provider costs

Do not exceed two decimal places for units and unit rates

Provide copies of ADEQ correspondence requesting specific activities if applicable

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FACILITATING THE REVIEW PROCESS (continued)

Provide supplemental tables to -

Group costs under the applicable cost code

Address A.A.C. R18-12-608(C)(1)(h)

Provide a chronology of site activities with an indication of where the activities and cost in the current claim occur

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For Direct Payment Requests:

Use the preapproval tracking sheets to identify costs and associated preapproval lines and include tracking sheets with claim submittal

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The Fund Phase Out

- No coverage for releases reported after June 30, 2006

No preapprovals accepted after June 30, 2009

No reimbursement or direct payment requests accepted after June 30, 2010

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Contact information:

Tara Rosie: 602.771.4725

Carrie McFarland: 602.771.7611

Sam Rogers: 602.771.4283

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MONITORED NATURAL ATTENUATION PROGRAM

By

Joseph Karl Drosendahl

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PURPOSE OF PROGRAM

- Created by Senate Bill 1306 (46th Legislature, 2nd regular session).
- Assist eligible UST owners, operators and volunteers with monitoring residual groundwater contamination after the State Assurance Fund (SAF) ends.
- If accepted into the Program, ADEQ will perform and pay for the continued groundwater monitoring and other applicable corrective actions.

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SAF MILESTONES

- July 1, 2006 New UST releases not eligible for SAF.
- July 1, 2009 SAF pre-approval work plans no longer accepted.
- July 1, 2010 SAF applications no longer accepted.
- July 1, 2011 SAF money transferred into regulated substance fund.

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MNA PROGRAM CITATIONS

<u>CITATION</u>	<u>TITLE</u>
Arizona Revised Statutes (A.R.S.)	
§ 49-1015.01	Regulated substance fund
Arizona Administrative Code (A.A.C.)	
R18-12-101	Definitions
R18-12-901	Regulated Substance Fund
R18-12-902	MNA Account
R18-12-903	MNA Program

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MNA PROGRAM SUMMARY

- Is strictly a voluntary program, for only SAF eligible LUST sites,
- Requires an approved corrective action plan (CAP) in which MNA is all or a portion of the selected remedy,
- Requires that the source of contamination has been removed or controlled,
- Requires that soil contamination is below the applicable corrective action standard,
- Requires that natural attenuation is occurring,

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MNA PROGRAM SUMMARY

(cont'd)

- Requires the submittal of a MNA Program application,
- If the LUST site meets MNA Program requirements, ADEQ will issue a no further action (NFA) letter, and perform future corrective actions,
- NFA letters are not LUST case closure letters,
- When the groundwater is below the applicable corrective action standards, then ADEQ will issue a LUST case closure letter.

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MNA PROGRAM TIMELINE

Significant deadlines:

- 06/01/2009 Suggested deadline for submitting MNA CAP
- 07/01/2009 SAF PAWP no longer accepted
- 11/01/2009 Suggested deadline for submitting MNA Program application
- 07/01/2010 SAF applications no longer accepted
- 07/01/2011 Money is transferred into the MNA Account

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MNA PROGRAM GUIDANCE

The following guidance has been created by ADEQ:

- Eligibility flowchart
- Source removal or control guidance
- MNA corrective action plan (CAP) outline
- Natural attenuation documentation
- MNA Program application
- No further action (NFA) boilerplate letter
- Timeline

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MNA PROGRAM INFORMATION

See the following ADEQ/TPD web-site link:

<http://azdeq.gov/environ/ust/mna/index.html>

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CONTACT

Joseph Karl Drosendahl:

- TPD Corrective Action Section manager
- 602-771-4845
- drosendahl.joseph@azdeq.gov

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QUESTIONS ?

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E-Blends and Biodiesel

Ronald Kern
October 15, 2008

Tank Programs Division

E-Blends & Biodiesel

What Are They?

- E-Blend (Gasoline + Ethanol)
 - Mixture of ethanol and RBOB (Rreformulated gasoline Blendstock for Oxygenate Blending)
 - E10, E20, E85
- Biodiesel (Conventional Diesel + “Renewable” Diesel)
 - Diesel replacement fuel manufactured from vegetable oils, recycled cooking greases or oils, or animal fats
 - Long-chained mono-alkyl esters
 - B5, B20, B100

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E-Blends & Biodiesel

Value of E-Blends & Biodiesel

- Reduction of tailpipe emissions (e.g. particulates, CO, CO₂)
- Reduction of conventional fuel usage
- E-Blends act as potential octane boosters
- E-Blends meet oxygenated fuel requirements of Clean Air Act
- Ethanol replaces MtBE as an oxygenate

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E-Blends & Biodiesel

Best Management Practices - Compatibility

- UST materials must be compatible with substance stored
- E-Blend and Biodiesel fuels tend to be more compatible with harder metals (e.g. steel, nickel plate metals) than with softer metals (e.g. brass, copper, zinc)
- Non-metal UST system components in piping, gaskets and filters (e.g. rubber, cork, plastics, PVC) should be checked for compatibility
- Compatibility issues may increase with blend concentration
- Utilize materials that are UL-listed or certified by the manufacturer for use with substance stored

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E-Blends & Biodiesel

Best Management Practices - Water

- ADWM rules require no more than 1” water in tank, or no water for E-Blend fuels
- Water in a Biodiesel UST enhances potential for tank corrosion and microorganism growth (same as for conventional diesel)
- Water in an E-Blend UST may result in a phase separation of an Ethanol-water mixture and RBOB
- Water should be prevented from entering a UST
- Detectable water in a UST should be removed
- Water content in an E-Blend UST should be measured periodically (e.g. daily)

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E-Blends & Biodiesel

Best Management Practices – Sediments

- E-Blends and Biodiesel are good solvents
- Any petroleum-based sediments, sludge or other residues should be removed from tank and piping prior to placing E-Blend or Biodiesel fuels in a UST

Tank Programs Division UST Conference

TECHNICAL ISSUES

By

Joseph Karl Drosendahl

Tank Programs Division UST Conference

BEFORE JULY 1, 2010

- Characterize extent of contamination,
- Determine appropriate corrective action standards,
- Remediate contamination,
- Perform confirmation sampling when applicable, to determine if LUST site conditions warrant LUST case closure using any of the available LUST case closure options, or
- At a minimum, remove or control source of contamination in order to qualify for the MNA Program, if eligible.

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LUST CASE CLOSURE OPTIONS

- Concentrations are below the applicable corrective actions standards (i.e. residential soil remediation level (SRL) and aquifer water quality standard (AWQS)).
- Soil concentrations meet corrective action standard developed using a Tier 2 or 3 risk evaluation.
- Soil concentrations meet the non-residential SRLs and a Declaration of Environmental Use Restriction (DEUR) is filed.
- Site specific conditions allow case closure under R18-12-263.04 (groundwater LUST case closure).

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MISCELLANEOUS ISSUES

- Only submit documents that are required by rule or requested by ADEQ,
- Use document names that are specified in rule,
- Communicate with assigned case manager for programmatic questions or to request a facility meeting. Meetings to discuss multiple sites can be scheduled,
- If a change to the frequency of periodic site status reports is needed, please contact case manager,
- Make sure that ADEQ knows the current status of corrective actions being performed.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

UST PROGRAM CONFERENCE

OCTOBER 15, 2008

	Name	Organization	Email Address	Phone Number
1	MINE STOVER	JASON ASSOCIATES CORP Yuma Proving Grounds	michael.j.stover@yuma.army.mil	928 328 4804
2	MARILYN ANDERSON	ASRRT	manderson manderson@the-trust.org	602-200-2439
3	Tom Hillmer	APS	THOMAS.HILLMER@APS.COM	623-393-5606
4	LISA FARINAS	COP	lisa.farinas@phoenix.gov	602-273-2787
5	Lupe Buys	City of Phoenix	lupe.buys@phoenix.gov	602-273-2185
6	Blake Kirach	Columbia Analytical	bkirach@CASLAB.COM	602-828-3620
7	Rich Bird	SAM	rich@starrfuel.com	623-693-1001
8	Marcela Hodge	Columbia Analytical	mhodge@caslab.com	602-443-7003
9	Skip Harden	Columbia Analytical	sharden@caslab.com	602-443-7002
10	EMMECHIL KOEHL	ER SYSTEMS	EK@REMEDI8.COM	480 221 7127
11	KEITH ROSS	Hydro Geo Chem	keithr@hgcinc.com	480 421 1501
12	TODD DAVIS	Ashton Tiffany	todd.davis@ashtontiffany.com	602 222 2126
13	Tracy Dutton	Test America	tracy.dutton@testamerica.com	480 338 0216
14	Diane Waldner	EPS	ENVPROSVCS@aol.com	480 924 8078
15	Jerry Waldner	EPS	envprosvcs@aol.com	480 924 8078
16	Patrick Collins	Ashton Tiffany	patrick.collins@ashtontiffany.com	602-663-4283
17	Gail Chemel	G.M. Chemel & Assoc.	gchemel@chemel.com gchemel@chemel.com	480-314-9499
18	RUTH BURNER	CIRCLE K	RBW@MGR@CIRCLEK.COM	602-725-3217
19	DAVID ANNIS	ADEMA	DAVID.ANNIS@AZDEMA.GOV	602-267-2974

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

UST PROGRAM CONFERENCE

OCTOBER 15, 2008

20	Jim Trotter	ConocoPhillips	1230 W. Washington, Tempe	602-452-2507
21	Pam Witzel	Ashton Tiffany	pwitzel@the-trust.org	602-200-2447
22	Bill Cly	Kayenta Township	bill-clay@hotmail.com	928-697-8404
23	GW Stewart	Fenemore Craig	3003 W. Central	602 916 5714
24	Brian Bueck	Circle K	1130 W. Warner	602-728-3504
25	ANDREA MARTINIC	APMA	apma@cox.net	480-460-1561
26	Patricia Nowack	ATC Associates	nowack34@atcassociates.com	602-300-9745
27	Ric Morgan	ATC Assoc	ric.morgan@atcassoc.com	480.894.2056
28	ROBERT V. TRAPANI 'TRAP'	ADOT	2225 S. 22 nd Ave rtrapani@adot.gov	(602) 712-6177
29	Marty Higgins	EEL	mhhiggins@eoplus.com	602 248 7702
30	Beth Titus	GES	btitus@gesonline.com	480 894-2440
31	Conrad Funke	Tucson Fire	Conrad.Funke@TucsonAZ.gov	520 791 4502
32	BRIAN CORRALES	TUCSON FIRE	Brian.Corrales@TucsonAZ.gov	(520) 791 4562
33	MARK SHANKLIN	UNION DISTRIBUTING	MARK@UNIONDISTRIBUTING.COM	520 954 2566
34	Anthony Zorap	PFD		534 8316
35	David Barragan	City of Tucson	david.barragan@tucsonaz.gov	520-837-3711
36	Tariq Abdellatif	Ningo & Moore	tabdellatif@ningoandmoore.com	602 243-1600
39	MARK HOWARD	AZSERC	MARK.HOWARD@AZDEMA.GOV	602-231-6345
40	Paul Calhoun	AZSERC	paul.calhoun@AZDEMA.GOV	602-392-7577
41				

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

UST PROGRAM CONFERENCE

OCTOBER 15, 2008

42	NORMAN Car Hen	Tucson Fire	John. Car Hen @ tucsonaz.gov	520 235-7097
43	Robert Pucci	Union Distributors	rob @ uniondistributors	520 954 1122
44	Troy Azeltine	Phx Fire	troy.azeltine@phoenix.gov	602- 52159 262-6771
45	Say Zandou	URS	Say-zandou@uascorp.com	
46	Katherine Rexlo	ARCADIS	Katherine.raxlo@arcadis-us.com	
47	Jennie Conger	TTX	jcongrer@tierradyne.com	0028043887
48	Jon Fudley	Scena Club	NIRG Arizona @ gmail.com	480-756-2916
49				
50				