

BAPPG General Committee Meeting

Date: February 6, 2013, 10 am

Location: Elihu Harris State Building, Oakland

Chair:	Catherine Allin	Secretary: Marie Kulka/Susan Hiestand
Vice Chair:	Karri Ving	
Present: see attach	ed sign in sheet	

Topic: Info Sharing and Announcements

Vallejo Sanitation & Flood Control District provided copies of a new outreach pamphlet commemorating 60 years of service, for more information contact Jennifer Kaiser

2013 P3S Training Conference, Feb 25-27 in Napa. Early bird registration ends February 8th.

Agencies with open environmental science position(s): SF International Airport (for more information contact Jennifer Acton) and the City of San Jose/Santa Clara Pollution Control Plant (for more information contact Paul Prange)

PCI Audits of Pretreatment and Pollution Prevention Programs are occurring; allow a few days to prepare.

Topic: Regional Board Update

Annual Pretreatment and Pollution Prevention reports are due February 28th.

Topic: BACWA Board & BAPPG Steering Update

BACWA Board

Continuing to work closely with the Regional Board to understand the impacts of nutrients to the Bay and to develop a road map towards obtaining science based information which can be used to determine best approaches for ensuring water quality.

Dave Williams was selected as BACWA's new Executive Director, effective February 1st. Dave is a long standing member of the clean water community and has already provided more than a decade of service to BACWA as an Executive Board member and alternate. As the Director of Wastewater at East Bay Municipal Utility District he has been responsible for operation and maintenance of the entire wastewater system. Dave has over 35 years of industry experience which includes working as a consulting engineer and serving the last 25 years in the public sector.

BAPPG Steering Update

Reviewed status of the 2012 projects: Projects are on track for completion and within budget. The FOG "Asian Outreach" will be moved to FY13/14. The Demolition Contractors brochure and outreach in on schedule and near completion. A tri-fold brochure has been developed and updates to the Baywise websites are planned.

Topic: Sources for Ammonia Discharges

A potential source is ice rinks as many have ammonia based cooling system. Discharge may occur during maintenance and if there is a leak. Another source is facilities that manufacture solar panels.

Topic: Presentations

Presentations for the General Membership Meeting:

Brominated Fire Retardants, Dr. Myrto Petreas, Department of Toxics Substance Control For more information about the program contact Dr. Petras at myrto.petreas@dtsc.ca.gov or (510) 540-3624.

Green Chemistry-Safer Consumer Products Regulations, Evelia Rodriguez, Department of Toxics Substance Control. For more information contact Evelia Rodriguez at erodrigu@dtsc.ca.gov or (916)327-6104

Project Proposals 2013-14

The 2014-14 Project list was reviewed and updated. Continued review to identify projects and budgets.

Project champions are needed. Plan to review the project list. For projects that are in line with your agency's planned priorities, consider contacting Catherine Allen to determine where you can assist.

P2 message on pharmacy bags project – A vendor has been identified. Additional discussion is needed to determine best approach for distribution. Options appear to be 1) purchase bags to add No Drugs Down the Drain message and distribute to pharmacies or 2) purchase advertising space on existing bags being distributed.

Next Meeting

April 3, 2013 at Elihu Harris State Building, 1515 Clay Street, 2nd Floor, Room 12, Oakland

BAPP FY 2012-2013

PG Sign-in Sheet	Meeting Date: February 6, 2013
EV 0040 0040	

Agency	Rep Name	Email	Phone	Aug	Sep	Oct	Dec	Feb	Apr	Jun
American Canyon	Veronica Gummo	vgummo@ci.american-canyon	.ca.us							
Benicia	Brad Harms				Х					
Burlingame	Eva Justimbaste	eva.justimbaste@veoliawaterr	na.com							
Calistoga	Warren Schenstrom									
Central Contra Costa	Melody LaBella	mlabella@centralsan.dst.ca.us		Х	Х			Х		
Central Marin	Rob Cole	rcole@cmsa.us		Х				Х		
Contra Costa (Port)	Kent Peterson									
Delta Diablo	Amanda Roa	AmandaR@ddsd.org	Gen: (925) 756-1900 Dir: (925)756-1940	Х		Х				
Delta Diablo	Robert Brothers	rbrothers@ddsd.org	925-756-1913					Х		
Dublin/San Ramon	Stefanie Olson	olsons@dsrsd.com	925-875-2245		Х			Х		
East Bay MUD	Marie Kulka	mkulka@ebmud.com	Gen: (510) 287-0152 Dir: (510) 287-1727	Х	Х	Х		Х		
East Bay MUD	Nadia Borisova	nborisov@ebmud.com		Х						
Fairfield-Suisun	Meg Herston	mherston@fssd.com	707-428-9109					Х		
Hayward	Debra Kinisawa									
Hayward	Jamie Rosenberg	jamie.rosenberg@hayward-ca.gov		Х		Х				
Las Gallinas Valley	Katerina Capetanos									
Livermore AVWMA										
Livermore Water Res. Div.	Lynna Allen	lallen@cityoflivermore.net		Х						
Marin Cnty - Paradise										
Marin Cnty - Tiburon										
Millbrae	Catherine Allin	callin@ci.millbrae.ca.us			Χ			Χ		
Mountain View (E. Bay)	Kelly Davidson									
N San Mateo Cnty	Cynthia Royer	croyer@dalycity.org						Х		
Napa	Darcy Aston	DASTON@napasan.com		Х	Χ	Χ				
Novato	Linda Candelaria									
Oro Loma/Castro Vly	Rodney Smith	rsmith@oroloma.org	510-276-4700			Χ		Χ		
Pacifica	Elizabeth Claycomb									
Palo Alto	Karin North	karin.north@cityofpaloalto.org	Gen:(650) 329-2598	Χ	Χ	Χ		Х		
Palo Alto (RWQCP)	Maree Docten				Х					
Petaluma - Ellis Creek	Robert C. Wilson	rwilson@ci.petaluma.ca.us	707-776-3777	Χ		Χ		Х		
Pinole-Hercules	Ken Coppo									

BAPPG Sign-in Sheet FY 2012-2013

Meeting Date: February 6, 2013

Agency	Rep Name	Email	Phone	Aug	Sep	Oct	Dec	Feb	Apr	Jun
Richmond	Stephen Friday	Stephen Friday@ci.richmond.ca.us	510-621-1269	Х		Х				
Richmond	Dan Duffield			Х						
Rodeo	Andrew Alva	alvaa@rodeosan.org	510-230-3475		Х	Х				
Saint Helena	John Ferons									
San Francisco PUC	Meg Gale	MGale@sfwater.org	Gen: (415)695-7310	Х	Х	Х		Х		
			Dir: (415)695-7378							
San Francisco PUC	Karri Ving	kving@sfwater.org	415-695-7366	Х	Х			Х		
San Francisco PUC	Lindsay Goodwin	lgoodwin@sfwater.org	415-695-7383	Х	Х			Х		
San Jose/Santa Clara	Sharon Newton	Sharon.Newton@sanjoseca.gov	408-793-5351	Х		Χ				
San Jose/Santa Clara	Paul Prauge	paul.prange.@sanjoseca.gov	408-793-5325			Χ		Χ		
San Leandro	Tiffany Treece	ttreece@sanleandro.org	Gen: (510) 577-3401	Х	Х	Χ				
			Dir: (510) 577-6031							
San Mateo	Shelli StClaire	SStClair@cityofsanmateo.org								
Santa Rosa	Heather Johnson	Hjohnson@srcity.org	707-543-3369			Χ		Χ		
Santa Rosa	Renae Gundy	rgundy@srcity.org						Χ		
Sausalito-Marin City										
Seafirth Estates										
Sewer Auth Mid-Coastside	Anthony Pullin									
Sewer Agency South Marin	Jeff Carson									
SF Airport	Jennifer Acton	jennifer.acton@flysfo.com	650-871-8380		Χ			Χ		
SF Regional Water Board	Dylan Garner	dgarner@waterboards.ca.gov	510-622-2116	Χ	Χ	Χ		Χ		
Sonoma Valley County Sanitatry	Marty Swift									
South Bayside System Authority	Susan Hiestand	shiestand@sbsa.org		Χ	Χ					
South Bayside System Authority	Peter Fong	dfong@sbsa.ca.gov.org	650-832-6269					Χ		
SSF & San Bruno	Cassie Prudhel		Gen: 650-829-3848	Χ	Х	Χ				
SSF & Son Burno	Andrew Wemmer	andrew.wemmer@ssf.net	650-829-3848			Χ		Χ		
Sunnyvale	Sarah Scheidt	sscheidt@ci.summyvale.ca.us	408-730-7267							
Sunnyvale	Jackie Davison	jdavison@sunnyvale.ca.gov	408-730-7738		Х			Χ		
Sunnyvale	Mary Jeyaprakash	mjeyaprakash@sunnyvale.ca.gov	408-730-7737	Χ				Χ		
Union Sanitary Dist	Michael Auer	mike_auer@unionsanitary.com		Х	Х			Х		
Union Sanitary Dist	Mike Dunning	michael dunning@unionsanitary.com	510-477-7500			Х				
US Naval Treasure Island										
Vacaville	Bob Panerio	BPanerio@cityofvacaville.com		Χ	Χ			Х		
Vallejo Sanitation	Jennifer Kaiser	jkaiser@vsfed.com	707-644-8949 x292	Χ	Χ	Χ		Χ		

BAPP FY 2012-2013

PG Sign-in Sheet	Meeting Date: February 6, 2013
FY 2012-2013	

Agency	Rep Name	Email	Phone	Aug	Sep	Oct	Dec	Feb	Apr	Jun
West County Agency (WCWD)	Joe Neugebauer	jneugebauer@wcwd.org	510-237-6603 x3228	Χ	Х	Χ		Χ		
Yountville	Don Moore									
Other Groups/Plants/Contractors										
BACWA	David Williams	dwilliams@bacwa.org	925-765-9616					Χ		
EOA (Oakland)										
Larry Walker & Associates	Alina Constantineslu	alinac@lwa.com	510-625-1580			Χ				
Larry Walker & Associates	Kate Lundberg	kate@lwa.com	510-625-1580					Χ		
CMSA	Mary Jo Ramey			Χ						
Sunnyvale	Randy Moeller			Χ						
Sunnyvale	Jin Huang			Х						
SFEP	Athena Honore	ahonore@waterboards.ca.gov	510-622-2325			Χ				
City of Livermore	Steve Aguier	smaguiar@cityoflivermore.net	925-960-8100			Χ				
City of Hayward	Bashir Sarwary	bashir.Sarwary@hayward.ca.gov	510-881-7908			Χ				
City of Richmond	Irma Montano	irma montano@ci.richmond.ca.us	510-621-1285			Х				
City of American Canyon	Pam Konoval	pkonoval@cityofamericancanyon.org	707-647-4514			Χ				
Source Control Consultant	Stephanie Hughes	steifehughes@yahoo.com	408-499-9271					Χ		
San Leandro	John Camp	jcamp@sanleandro.org	510-577-6029					Χ		

Funding/Revenues		
Funding Source	Funds	
FY 13/14 Projected Revenues	\$80,000	\$50,000 BACWA & \$30000 member contributions
FY 13-14 - Projects		

Pollutant/ Issue	Pollutant Overall Budget	Projects	Description	Project Managers	12/13 Budget	13/14 Budget	Notes
r ollutariti 133uc	\$0	Outreach to Demolition Contractors	See Multi-pollutant line item	r roject warragers	Duuget	Duuget	NOTES
Mercury	\$0	Dental amalgam	Dental amalgam list – 2011	Meg Gale, SFPUC	\$2,500	\$2,500	
		Regional Holiday Outreach w/ Spanish	Utilize social media to promote FOG pollution prevention messages in both English and Spanish	Sharon Newton, San Jose Paul Prange, San Jose	8,000	\$8,000	Coordinate with Regional Campaign and SCVURPPP, possibly reducing costs
	\$14,000	Holiday Asian Outreach	Prepare radio spots and other Asian language outreach for distribution during the Chinese New Year holiday season.	Sharon Newton, San Jose Cynthia Royer, San Mateo Cnty Paul Prange, San Jose	6,000	\$6,000	
FOG		Eat Real Foods Festival	Explore sponsorship opportunities and outreach for the Eat Real Foods Festival scheduled in September at Jack London Sq.	Dylan Garner, SFRWB Kerri Ving, SFPUC			
		SFPUC Chinese NY outreach	Explore partnering with SFPUC Chinese New Year coordinators to use event as a forum to point people to Baywise for information.	Melody LaBella, CCCSD Cynthia Royer, O'Rourke			
		Commercials on Comcast/local cable - Grease message videos	Explore and develop concept for commercials regarding proper handing of food grease on local cable stations. Identify various available videos that can be reformatted and placed on the Baywise site; include the SFGreasecycle.org video.			\$2,000	
	\$7,499	No Drugs Down the Drain	Regional campaign - Facebook/P2 week	Karin North, Palo Alto Mike Dunning, Union San Heather Johnson, Santa Rosa	\$4,999		
Pharmaceuticals		Pharms bag with message	Develop pharmaceutical bags with a P2 message that pharmacies can provide to their patrons.	Melody LaBella, CCC		\$2,500	
		Pharms Producer Responsibility Ordinance workshop	Develop an ordinance template for other counties to use to incorporate the Pharms Producer Responsibility clauses and host a workshop: Alameda Cty EPR tool kit training*	Karin North, Palo Alto			
Copper		Copper pipes	See Multi-Pollutant section – outreach to professional organizations.				
Dioxins	\$2,000	Partnership with Air District	Seek opportunity to partner with the Bay Area Air Quality Management District on "Don't Burn Day".	Karin North, Palo Alto Melody LaBella, CCCSD	\$2,000		
Pesticides	\$10,000	*Our Water Our World* Program	Specific products are determined by the IPM Partnership Committee but may include shelf talkers, updated less-toxic product list, regional events and trade shows, advertising and website including Ask the Expert feature. The funding for this program has traditionally been 50% BAPPG and 50% BASMAA	Jennifer Kaiser, VSFCD	\$10,000	\$10,000	Consider including updates regarding copper algaecides, permethrin. (Update Flea Factsheet with recommended shampoos)
resticities		Permethrin Outreach	Educate Pet Stores - Partner with Pet Care industry (dog washes, vets, pet smart, groomers, FLEABUSTERS.) School Partnerships, nontoxic head lice and nit removal, scabies, bed bugs	Nina Capetanos, Las Galinas	\$0		
		Grow It! Guide	Update the Grow It! guide and reformat for web-friendly use & smart phone compatible.	Marie Kulka, EBMUD	\$0	\$0	
SSO / Trash	\$3,000	Outreach to LTC and/or Hospice Care Providers, Day Care Facilities and Parent Associations – Update brochure.	Promote the toilet is not a trashcan message (no flushables, fruit stickers, etc down the drain). Print handout(s) (developed in 11/12) and distribute to target audiences and for daycare counters. Submit info articles to parent magazines. Coordinated run involving developing materials and educating parents groups about multiple pollutant issues.	Karin North, Palo Alto	\$3,000		
			Develop a 'dirty dozen' poster, targeted for young kids.	Paul Prauge, San Jose	1	1	
	ļ	Youth Outreach	Regional campaign development similar to "Be the Street" and "Keep Oakland Beautiful"	Karin North, Palo Alto			
Unplanned Issues	\$8,000	Unplanned Issues Budget	The purpose of this budget item is to respond to emerging issues/needs throughout the fiscal year. Possible expenditures include media outreach, literature searches, website enhancement, training costs, etc.	Kerri Ving, SFPUC	\$8,000		
		Parents Groups / Neighborhood Associations	See SSO/Trash				Multiple pollutant targets, mercury, pharm, FOG, copper, IPM, triclosan
Multi-Pollutant Campaigns	\$19,000	Hospital/long-term medical facilities	See SSO/Trash				Multiple pollutant targets, mercury, pharm, FOG, copper, IPM, triclosan

Pollutant/ Issue	Pollutant Overall Budget	Projects	Description	Project Managers	12/13 Budget	13/14 Budget	Notes	
oampuigns		Training and Outreach to Professional Organizations	Dental Hygienists, Plumbers, and "Nurse students or Hospice workers'.	Melody LaBella, CCSD Meg Gale, SFPUC Karin North, Palo Alto	16,000	\$16,000	Combination of copper, mercury, PCB, pharmaceutical and IPM training.	
		Agency Coordination of P2 Week	Agency coordination of regional outreach during P2 week. This project will include coordination with media consultant to develop and distribute press releases, and development of a P2 Week Poster.	Melody LaBella, CCCSD Mike Auer, USD Jakie Davidson, Sunnyvale Catherine Allin, Millbrae	\$1,500			
		Nutrients	BACWA - cross committee issues revolving around Plant Limits and industrial ammonia / phosphorus	Mike Dunning	\$0		P2 for the solar industry	
Misc	\$7,500		Hire consultant to provide maintenance and development of www.BayWise.org for use in public outreach. Develop a LOGO	Catherine Allin, Millbrae Melody LaBella, CCCSD Karin North, Palo Alto	\$6,000			
			Maintenance of BAPPG website	Posting updates as needed to website.	Susan Hiestand, South Bay Dylan Garner, SFRWB Paul Prange, San Jose Marie Kulka, EBMUD			
		Available P2 speakers & Presentations	Develop a list of speakers for a variety of P2 topics and presentations and post list to Baywise.	Catherine Allin, Millbrae				
		PSI and CPSC contact	PSI and CPSC contact needed to provide updates at BAPPG meetings?	Catherine Allin, SFPUC				
P2 Commercial		P2 Commercial/Industries buildings	Update P2 messages and develop door hangers for commercial/industrial accounts: painters, hospital/medical buildings, auto repair/body shops, stormwater, commercial office buildings,-managing toxics.	Meg Gale, SFPUC		\$1,500		
Metals/oils		Mobile surface cleaners	Partner with BASMAA to develop cleaning certificates for mobile surface cleaning permits. Using the current certification program to expand to a regional program.	Tim Potter, CCCSD Kerri Ving, SFPUC		\$0		
Projects Budget	\$70,999				\$67,999	\$48,500		
BACWA Administration	Costs				\$3,815		5% admin cost	
Total 2013/14 Budget					\$71,814	\$52,300		
Francisco de Harabilia	10	1 - F FV 10 12						
Expected Unobligated	i Cash at End	J OT FY 12-13						

Flame Retardants: Old and New

Myrto Petreas, Ph.D., MPH

Environmental Chemistry Laboratory

California Department of Toxic Substances Control



Flame Retardants (FRs)

- What are FRs?
 - Polybrominated diphenyl ethers (PBDEs)
 - Replacement FRs
- Why are we concerned?
- ♦ FRs and POTWs

Flame Retardants (FRs)

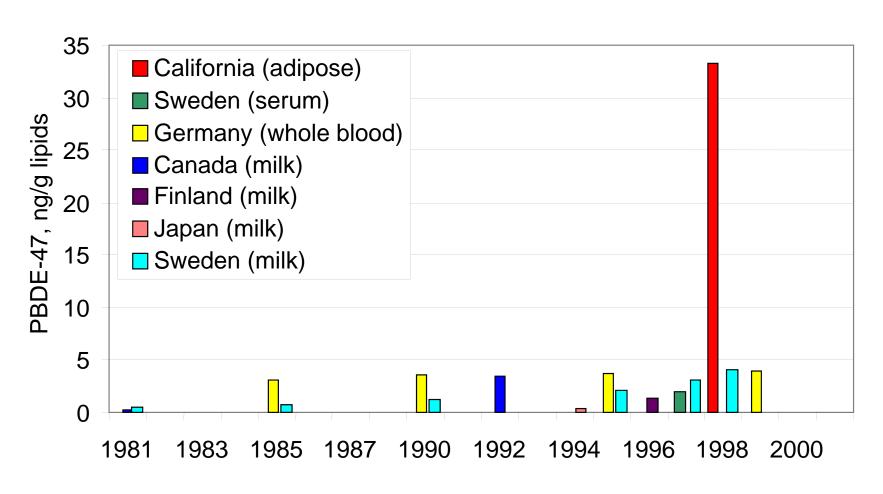
- Shift to petroleum-based microenvironments (consumer products, building materials, etc.); more prone to fires
- CA Flammability Standard (TB 117)
- FRs introduced in ~1970s, purportedly to slow down propagation of flames
- More toxic fumes in a fire

Polybrominated diphenyl ethers

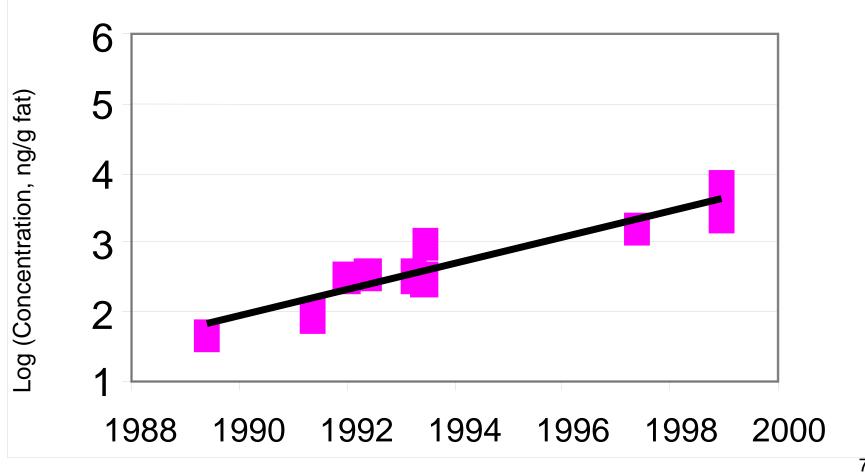
- Penta-, Octa-, Deca- formulations
- Additive, easily escape from products
- Persistent, lipophilic, long range transport; endocrine disruption
- Structurally similar to dioxins/furans, may form brominated furans when burned

PBDEs in California

PBDE 47 in Human Tissues



ΣPBDEs IN SF BAY HARBOR SEALS

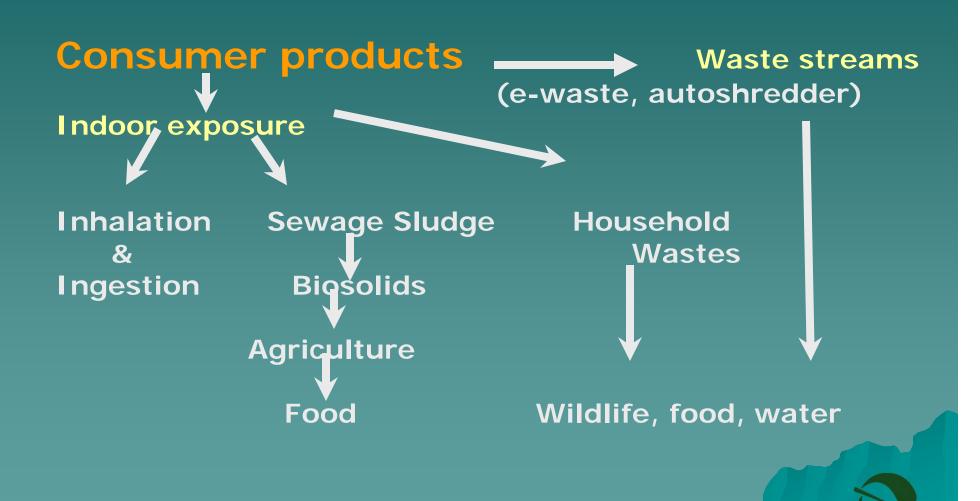


M **Տիթ թէ թ**ե/2 **G**hemosphere, 46:697-707, 2002

PBDEs are everywhere we look:

- -House, car and office dust
- -Biota (humans, terrestrial and marine mammals, fish, birds)
- -Wastes, including sewage sludge
- -Food chain

Major PBDE Exposure Pathways



M Petreas, 2/6/2013

Cal/EPA

PBDEs in CA

- Use of Penta-BDEs (furniture) and Octa-BDEs (electronics) restricted after 2006;
- Deca-BDE unrestricted
- No enforcement
- What are the levels of PBDEs after the ban?
- What are the replacement FR to meet CA TB117?

PBDEs in CA

- Still highest levels of PBDEs in humans, cats, wildlife, dust
- Downward trend in blood?
- PBDE metabolites cross the placenta (cord blood, fetal liver)





PBDEs in Dust

Whitehead et al. 2011

Household Dust (UCB Childhood Leukemia Study)

- Vacuum cleaner dust from 204 houses sampled twice (2001-07 and 2010)
- No statistically significant decrease in Penta- or Deca-BDEs;
 some decrease in Octa-BDEs
- Reflecting different use patterns?
- > PBDEs may persist in residential dust for many years after their production has ceased

Study of PBDEs in Waste streams

Major waste streams potentially containing PBDEs

e-waste

Autoshredder waste

Sewage sludge

Other???

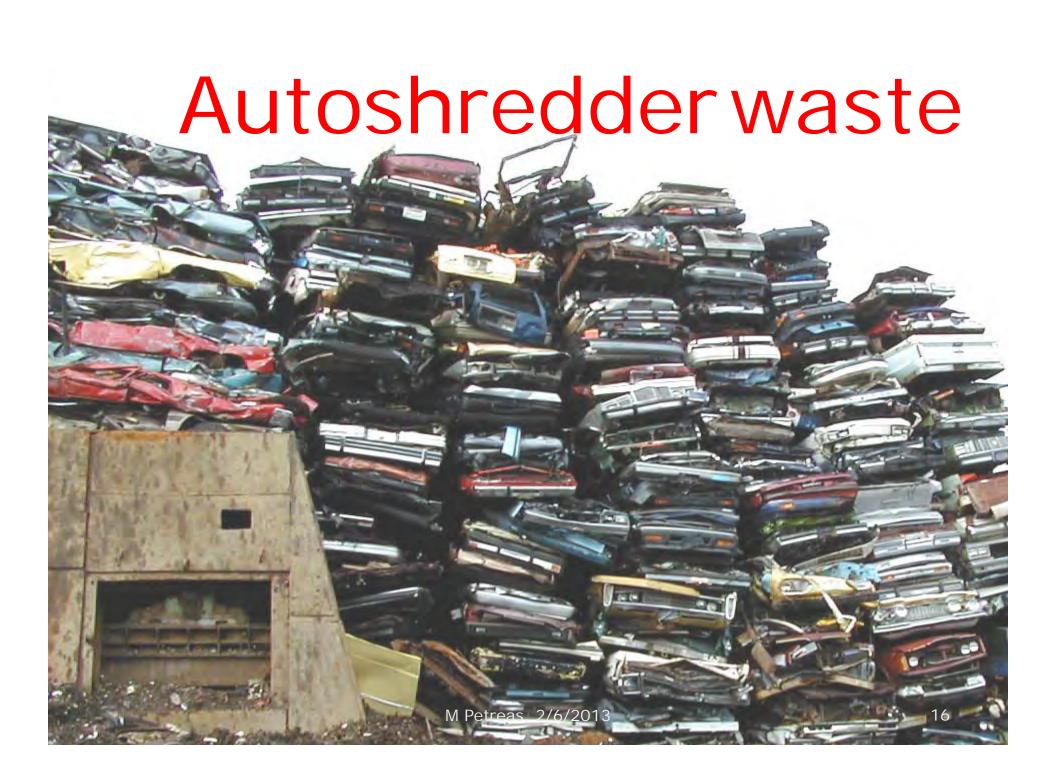


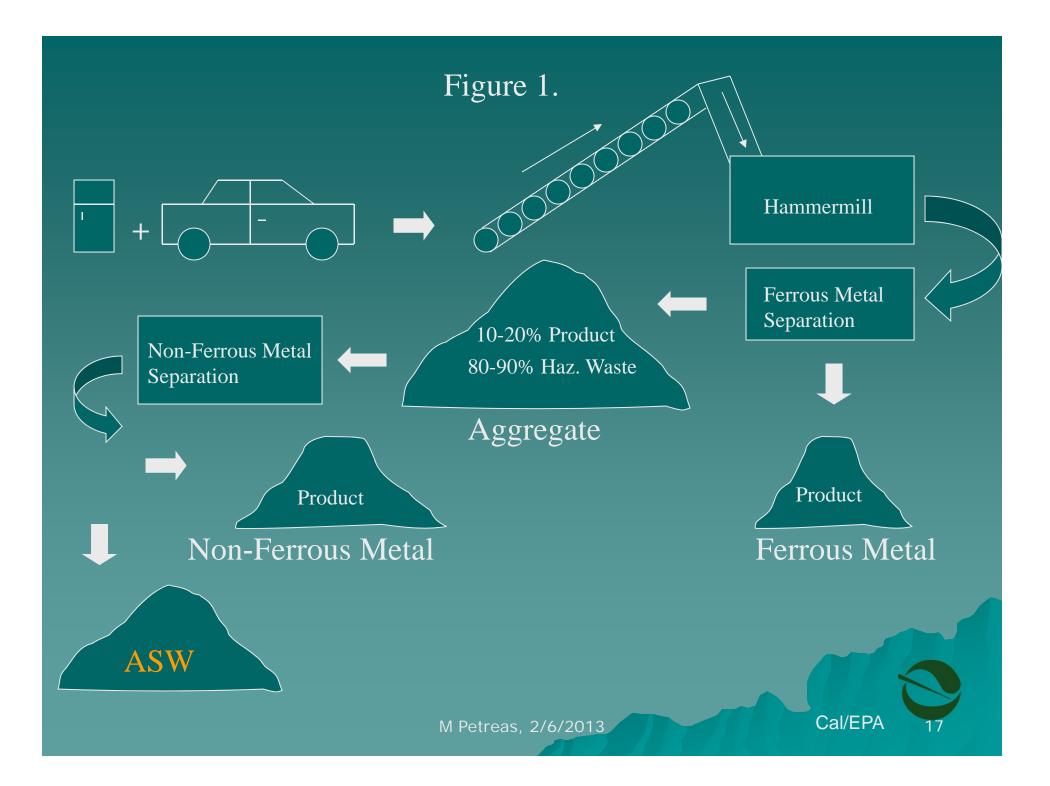
The problem

 2.4 million tons of e-waste discarded in the USA

http://www.epa.gov/epawaste/conserve/materials/ecycling/manage.htm

480,000 MT e-waste in CA (2004)
 (Cal/EPA study)





Information needed

What volumes of PBDEs are in each waste stream?

- Estimates of waste stream volumes
- -PBDE concentrations





PBDEs in CA waste streams

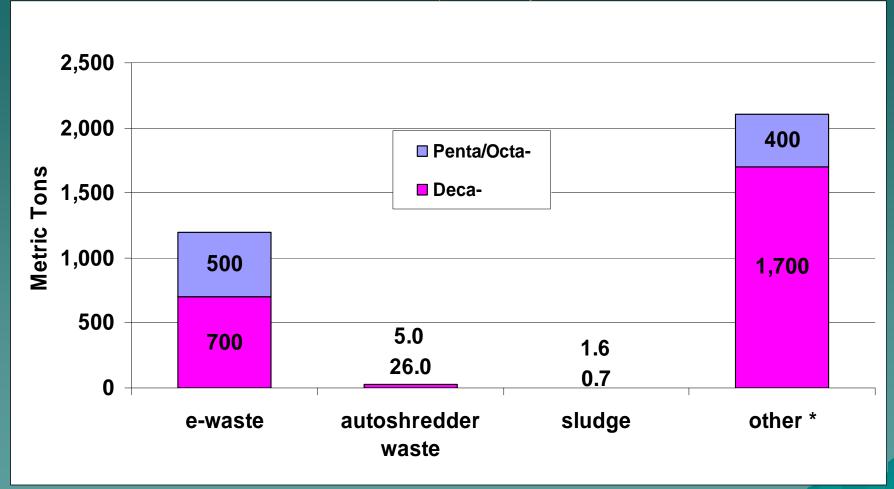
(Petreas & Oros, 2009)

♦ 1,200 MT/yr in e-waste

- 30 MT/yr in autoshredder waste
- 2.3 MT/yr in sewage sludge

Estimates of PBDEs in CA Wastestreams

Petreas and Oros, Chemosphere 2009



*Other: Other may include standing stock of products, and additional wastestreams such as household wastes, furniture, carpet padding, etc.



PBDEs in POTWs

- ◆ PBDEs in sludge mirror PBDEs in house dust:
 - -Deca-BDE > BDE-99 > rest
 - Deca-BDE debrominates

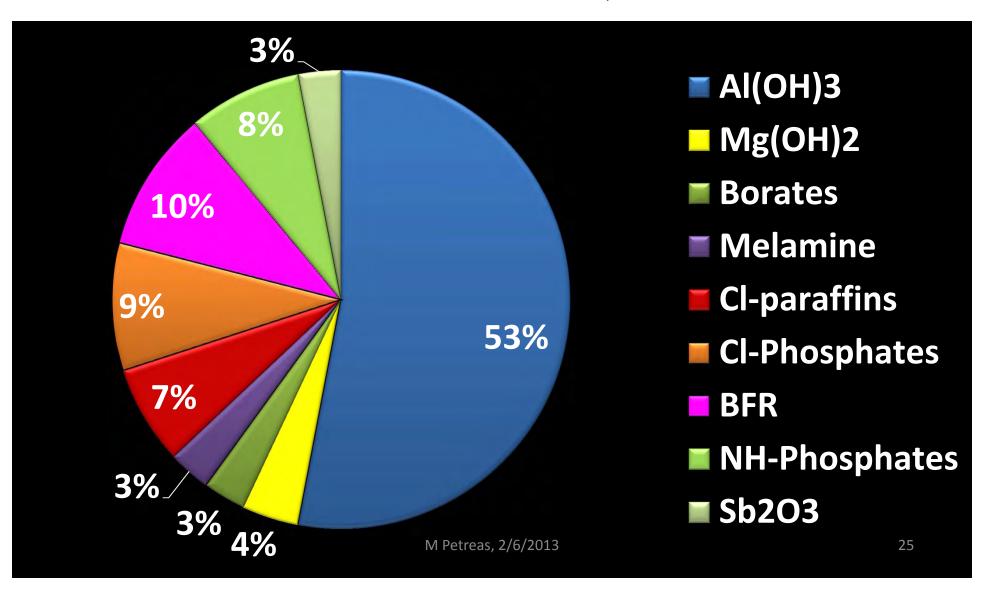
- ◆ PBDE levels in US Sludge are 10-100x greater than Europe, Japan
- Biosolids (management and use)

Replacement FRs

- As PBDEs are phased out, other FRs are used to meet TB117
- Halogenated FRs
- Aromatic phosphates
- Toxicity, fate & transport?
 - Wastewater treatment Plants?

FR Consumption in Europe (2007)

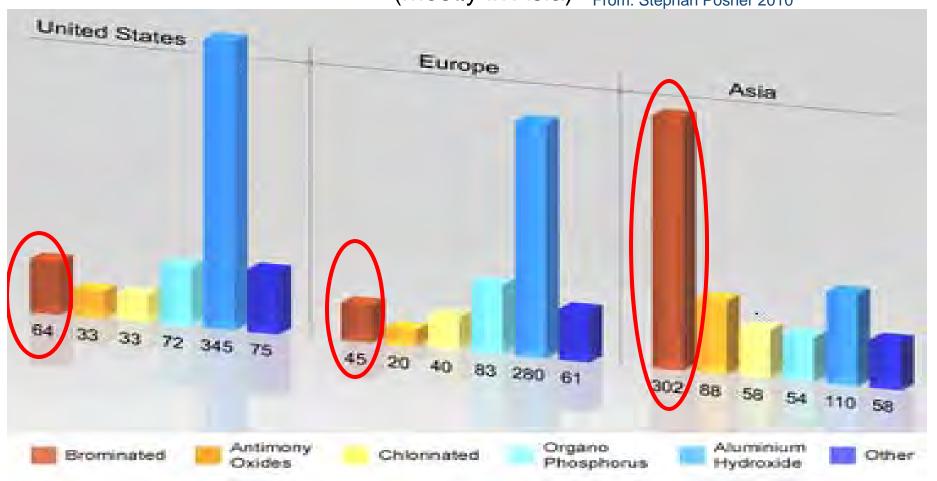
Karlsruhe Research Center, 2007





Asian Market = BFR Global Concern

Between 2005-2008 use of BFRs increased from 139,000 to 246,000 TN (mostly in Asia). From: Stephan Posner 2010



PBDE Replacements

- Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)
 - Furnishings, dust
- Triphenyl phosphate (TPP)
 - Furnishings, dust
- Dust levels of TDCPP, TCPP, TPP higher than PBDEs (Boston area)

PBDE replacements in Baby Products

Baby products contained: (Stapleton et al. 2011)

- PBDEs
- Firemaster 550 (TBPH, TBB, TPP)
- tris(1,3-dichloroisopropyl) phosphate (TDCPP)
- FR with Cl, P
- Many products contain more than one FR

PBDE Replacements

- FRs in consumer products in Japan (electronics, curtains, wallpaper)
- BFRs (PBDEs, TBBPA, TBP) present in all products
 - ➤ Levels too low for flame retardancy => recycling streams

Status of TB117

- Governor Brown asked for its revision
- Comment period underway
- New standard should consider health and environmental impacts

How will replacement FRs affect POTWs?





Disclaimer

Authors' views do not necessarily express the views of the California Department of Toxic Substances

Control

California's Safer Consumer Product Regs:

Identifying safer alternatives, avoiding regrettable substitutes









Disclaimer

Opinions presented today are those of the presenters.

The policy approach of the California's Green Chemistry Initiative, and the Safer Consumer Products Regulations is still evolving through stakeholder input and constant policy review.

DTSC strives to be a learning organization

Therefore, what you hear today may not represent a final position, policy or approach of the Administration.





AB 1879 – Safer Consumer Product Regulations will require product manufacturers to ask:





Is It Necessary?











AB 1879: Mandates the question, does not dictate the answer.





Safer Consumer Products Regulations











Green Chemistry Report

- Scientific Symposiums
- Science Advisory Panel
- Green Ribbon Science Panel

Green Chemistry Options

- Stakeholder Forums
- Web
- Outreach

Policy Thinking

•Stakeholder Input

2010 Draft Regulations

- •Stakeholder Input
- •2009 Straw Docs
- •Statutory Date
- Administration Policy

2012 Draft Regulations

- Stakeholder Input
- Administration Support
- Expanded Use of Experts
- Scientific Peer Review

2013

Safer Consumer Product

Regulations



AB 1879/ SB 509

Statutory Authority





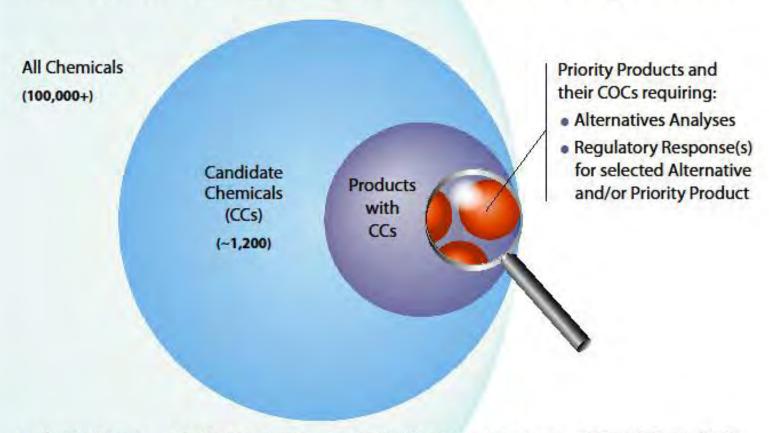


Safer Consumer Products Draft Regulation January 29, 2013

- > 74 page full draft regulation
- > 20-page summary w/ highlights
- Summary of changes
- > Initial Statement of Reasons



Overview: The Safer Consumer Products Regulations



- A Candidate Chemical (CC) is a chemical that is a candidate for designation as a Chemical of Concern.
- Each Candidate Chemical exhibits one or more hazard traits and/or environmental or toxicological endpoints.
- The Candidate Chemicals that will be evaluated for development of the first Priority Products List will be ~230 chemicals that have both listed hazard traits and listed exposure concerns.
- A Chemical of Concern (COC) is a Candidate Chemical that is the basis for a product-chemical combination being listed as a Priority Product.



Candidate Chemicals (was Chemicals of Concern)

Candidate Chemicals List
-About 1,200 chemicals

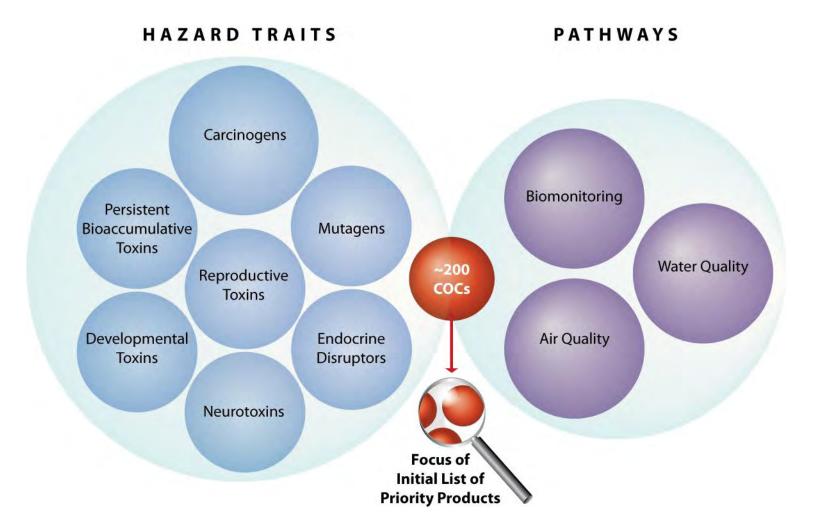
Initial Candidate Chemicals

Public process to +/- chemicals





List Candidate Chemicals ~1,200







Candidate Chemicals WHY

- Consistent with AB 1879 direction
- Focuses DTSC resources on product prioritization & AAs
- > Accelerates Implementation



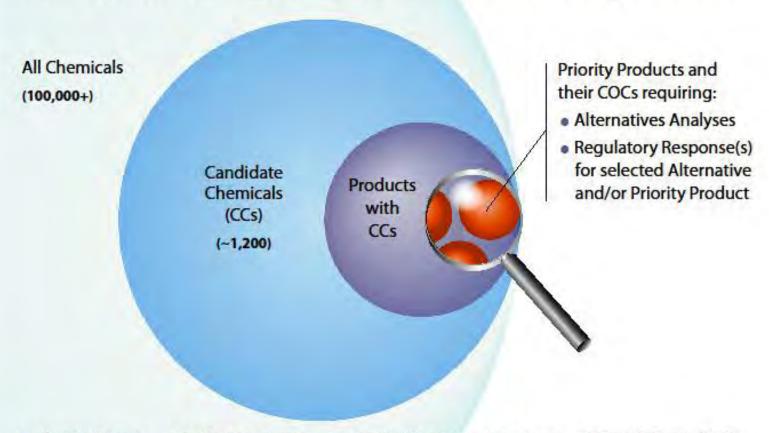


Candidate Chemicals WHY

- > Sends immediate signals to the marketplace
- Flexible palette for future action
- > Deters regrettable substitutions
- Similar in size to existing industry lists



Overview: The Safer Consumer Products Regulations



- A Candidate Chemical (CC) is a chemical that is a candidate for designation as a Chemical of Concern.
- Each Candidate Chemical exhibits one or more hazard traits and/or environmental or toxicological endpoints.
- The Candidate Chemicals that will be evaluated for development of the first Priority Products List will be ~230 chemicals that have both listed hazard traits and listed exposure concerns.
- A Chemical of Concern (COC) is a Candidate Chemical that is the basis for a product-chemical combination being listed as a Priority Product.



Priority Products Narrative Standard

- Adverse impacts of Candidate Chemicals in the product
- Potential exposures
- Market & household presence
- Users, uses, and applications
 (e.g, sensitive populations & receptors)





Priority Products Narrative Standard

- > End-of-life exposures
- Substantiating reliable information & monitoring
- > Other regulatory programs
- > Availability of alternatives





Priority Products (product-chemical combinations)

Public Process for selection

First proposed set:
6 months from adoption

Requires formal rulemaking for adoption of final list

Allows flexibility to address future needs





How It Works: Safer Consumer Products Regulations

Chemicals

- OEHHA hazard traits
- Initial list existing authoritative lists
- Additions to the list –
- Adverse public health & environmental impacts
- Sensitive subpopulations & environmental receptors
- Exposures biological/environmental monitoring
- · Reliable information

Candidate Chemicals

Products

(Product/COCs Combinations)

- COCs' adverse impacts (see above)
- Potential exposures to COCs in product
- Market and household presence
- Users, uses, and applications of product
- End-of-life management
- Reliable information

Priority Products List

Alternatives Analysis

- Technical guidance
- Exemptions
- Alternatives Analysis process & timeframes
- Alternatives Analysis reports

Alternative Selection



Regulatory Responses



Alternatives Analysis

Phased – Notification, Preliminary AA, and Final AA

Flexibility - process, format, timing

Reg sets the standards, Guidance will offer details





Alternatives Analysis: Quality Assurance

DTSC Audit

Publically available redacted AA Reports





Regulatory Response

Provide Supplemental Information to DTSC

Provide Additional Information to Consumer

Additional Safety Measures

End-of-Life

Final AA Report

Product Stewardship Product Sales
Restrictions or Prohibitions

Funding Green Chemistry Challenge Grants









Next Steps

Second Public Notice - 1/29-2/28/13

Finalize the Regulations 4/2013

Effective Date 7/1/2013





Questions or Comments?

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