

Date: Sept. 4, 2020

To: Environmental Quality Commission

From: Richard Whitman, Director

Subject: Item I: DEQ Integrated Toxics Reduction Strategy updates (Informational)
Sept. 17-18, 2020, EQC meeting

Purpose of item DEQ will present information on the implementation status of its updated Integrated Toxics Reduction Strategy, last presented to the EQC in January 2019.

Background DEQ completed an update to its Integrated Toxics Reduction Strategy at the end of 2018 and presented it to the commission in January 2019. The overall goal of this strategy is to improve integration of toxics work in the agency, and to complement and support toxics reduction activities within Air, Water and Land Quality programs. The strategy identifies 14 toxics reduction and assessment actions, with eight determined to be ready for implementation and the remaining six requiring further planning and evaluation prior to full implementation. EQC requested that DEQ provide an implementation status summary in early 2020, including the updated toxic chemical priority Focus List.

2020 Focus List updates The Toxics Focus List is a compilation of priority chemical pollutants that are the basis for the Toxics Reduction Strategy. The Focus List includes chemicals or chemical classes that are a priority for multiple DEQ programs across environmental media: air, water and land. This list is based on individual program or sub-program toxic pollutant priority lists. Since 2012, DEQ has both added and deleted items from the list, based on new information and program priorities. Many chemicals included on the 2012 Focus List are still on the updated list, which reflects the persistence or high level of use of those substances.

Key issues The recent and current actions implemented under the updated DEQ Integrated Reduction Strategy are non-regulatory, and involve significant collaboration with external partners and across DEQ programs.

The longer-term program evaluation and research actions identified in the strategy may identify gaps or needs that could result in future regulatory or non-regulatory proposals to enhance programs. However, any proposals will be vetted and initiated after the evaluation phase, any new regulatory initiative would have a separate process that includes multiple public comment and involvement activities.

**EQC
involvement**

DEQ has provided periodic updates to the commission on the development and implementation of the Integrated Toxics Reduction Strategy since 2012. There is no EQC action associated with this agency initiative; however, DEQ welcomes input and questions from the commission on the Strategy and Focus List.

Attachment

A. DEQ Toxics Focus List (2020)

Report prepared by Kevin Masterson
Agency Toxics Coordinator

CHEMICAL CATEGORY	UPDATED DEQ TOXICS FOCUS LIST CHEMICALS (2020)				
Combustion and Petroleum By-Products	Polycyclic Aromatic Hydrocarbons (PAHs)	Dioxins and Furans	Naphthalenes		
Consumer Product Constituents	Phthalates	Triclosan	4-Nonyphenol (and Nonyphenol Ethoxylates)	Bisphenol A	DEET
	<u>Per- and Polyfluoroalkyl Substances (PFAS)</u>	<u>Phenol</u>	<u>Octylphenol, 4-tert-</u>	<u>Ethinylestradiol, 17a-</u>	<u>Vinyl Chloride</u>
Current Use Pesticides	Diazinon	Chlorpyrifos	Atrazine	Trifluralin	Chlorothalonil
	Malathion	Permethrin	Carbaryl	Pentachlorophenol	Diuron
	Glyphosate	2,4-D	<u>Propoxur (Baygon)</u>	<u>Pendamethalin</u>	
Flame Retardants and Industrial Intermediates	Polybrominated Diphenyl Ethers (PBDEs)	Polychlorinated Biphenyls (PCBs)	<u>Tris (2-chloroethyl) Phosphate (TCEP)</u>	<u>Tris (dichloroisopropyl) phosphate (TDCP)</u>	Ammonia
Legacy Pesticides	Dieldrin	DDT (and metabolites)	Chlordane (and metabolites)	Aldrin	Methoxychlor
	Heptachlor (& Heptachlor epoxide)	Hexachlorocyclohexane, alpha- (alpha-BHC) Beta- (alpha BHC gamma – (Lindane)	Hexachlorobenzene		
Metals	Mercury (and methylmercury)	Copper	Cadmium	Chromium	Arsenic
	Lead	Nickel	Manganese	Silver	<u>Beryllium</u>
	<u>Cobalt</u>	<u>Bis (tributyltin) Oxide</u>	<u>Zinc</u>		

Volatile Organic Compounds (VOCs)	Tetrachloroethylene (Perc)	Benzene	Ethylbenzene	Trichloroethylene	Dichlorobenzene, 1,4- (Dichlorobenzene-p)
	Toluene	Formaldehyde	<u>Acetaldehyde</u>	<u>Styrene</u>	<u>Xylenes</u>

- ~~Strikethroughs~~: Removed, were from original 2012 Focus List
- **Bold red and underlined**: Newly added to Focus List

TOXICS PRIORITY LISTS USED TO DEVELOP DEQ's UPDATED TOXICS FOCUS LIST (2020)

DEQ added chemicals or chemical classes to the Focus List if it was on three or more priority lists, noted below, across two or more environmental media categories – water, land, air or consumer/commercial products.

WATER QUALITY PROGRAM PRIORITY LISTS	UPDATE STATUS
P3 = Chemical on the Final List of Persistent Pollutants developed by DEQ in response to Senate Bill 737 (2007 Legislative Session).	No change from 2012
WQS = Toxic pollutant on DEQ's list of impaired waters for surface water body(s) in Oregon [i.e., 303(d) List], or identified in the most recent Water Quality Assessment Report as "pollutants of concern."	No change from 2012
CR = Columbia River Basin Toxics Working Group toxics monitoring and reduction priority list (multi-state).	Draft updated list developed by regional team in early 2020
POC & POI = Designated as a statewide Pesticides of Concern (high priority) or Pesticides of Interest (moderately high priority) by the Oregon Inter-Agency Water Quality Pesticide Management Team.	Lists updated by inter-agency team in 2018
SWTM = Surface Water Toxics Monitoring Program target analyte List	Updated by DEQ Laboratory in early 2020
DWP = Drinking water source contaminant monitoring and reduction priorities, which includes chemicals with Safe Drinking Water Act Maximum Contaminant Levels (MCLs) or Health Advisory Levels (HALs) detected in Oregon.	List updated by DEQ and OHA Drinking Water programs in early 2020, and is informed by finished and raw drinking water monitoring data.
GW = Groundwater Program Toxics Monitoring Priority Chemicals	Groundwater toxics monitoring priority list was deemed unnecessary because of redundancy with the drinking water and surface water monitoring priority lists.

LAND QUALITY PROGRAM PRIORITY LISTS	UPDATE STATUS
<p>CU= Toxic chemical, or groups of chemicals, identified by the DEQ Cleanup Program as a driver for site cleanup and assessment actions. These include legacy and emerging chemicals of concern.</p>	<p>Cleanup Program updated this list in early 2020</p>
<p>WMP = One of 37 toxic pollutants included by EPA's National Waste Minimization Priorities Program, or considered a priority pollutant by the DEQ Hazardous Waste Program</p>	<p>The Hazardous Waste Program no longer uses this EPA waste minimization priority list for its reduction priorities. EPA hasn't updated the list since 2004.</p>
<p>HHW = Toxic substances evaluated and ranked by the Household Hazardous Waste Program's Prioritization Tool.</p>	<p>No change. DEQ's Materials Management Program will be evaluating this and other possible lists of priority chemicals in consumer and commercial products over the next two years.</p>
AIR QUALITY PROGRAM PRIORITY LIST	UPDATE STATUS
<p>AT = A preliminary list of chemicals identified by the DEQ Air Quality program as priority air toxic pollutants based on monitoring and modeling data, including the DEQ Cleaner Air Oregon program emissions inventory data on pollutants with numeric Risk-Based Concentrations.</p>	<p>This list was updated in early 2020, using new data from the Cleaner Air Oregon emissions inventory and other sources.</p>
CONSUMER AND COMMERCIAL CHEMICALS-IN-PRODUCTS LIST	UPDATE STATUS
<p>TFKA = 68 Chemicals of High Concern for Children's Health designated for reporting and potential regulation as part of the Oregon Toxics-Free Kids Act (TFKA) Program and contained in products.</p>	<p>This is a new category and a new chemical priority list. The list was originally developed in 2015 as part of the TFKA statute, and updated in 2018.</p>