

CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDOC	RFDOCREF	RFCIC	RFCICREF	SFO	SFOREF	IURDISP	IURREF
000000-23-8	Uranium (Soluble Salts)	Spring 2016	INORGANIC	0	0	0.003	IRIS	0.00004	ATSDR				
	Uranium (Soluble Salts)	Spring 2017	INORGANIC	0	0	0.0002	ATSDR	0.00004	ATSDR				
		Change Effect		E	E	-0.0028	XXXXX.		E		E		E
000050-32-8	Benzo[a]pyrene	Spring 2016	PAH	0	1					7.3	IRIS	0.0011	CALEPA
	Benzo[a]pyrene	Spring 2017	PAH	0	1	0.0003	IRIS	0.000002	IRIS	1	IRIS	0.0006	IRIS
		Change Effect		E	E		XXXX		XXXX	-6.3		-0.0005	XXXXXX
000053-70-3	Dibenz[a,h]anthracene	Spring 2016	PAH	0	1					7.3	WHO/TEF	0.0012	CALEPA
	Dibenz[a,h]anthracene	Spring 2017	PAH	0	1					1	WHO/TEF	0.0006	WHO/TEF
		Change Effect		E	E		E		E	-6.3		-0.0006	XXXXXXX.
000056-55-3	Benz[a]anthracene	Spring 2016	PAH	1	1					0.73	WHO/TEF	0.00011	CALEPA
	Benz[a]anthracene	Spring 2017	PAH	1	1					0.1	WHO/TEF	0.00006	WHO/TEF
		Change Effect		E	E		E		E	-0.63		E	XXXXXXX.
000060-51-5	Dimethoate	Spring 2016	PEST	0	0	0.0002	IRIS						
	Dimethoate	Spring 2017	PEST	0	0	0.0022	OPP						
		Change Effect		E	E	0.002	XXXX		E		E		E
000075-21-8	Ethylene Oxide	Spring 2016	VOC	1	0			0.03	CALEPA	0.31	CALEPA	0.000088	CALEPA
	Ethylene Oxide	Spring 2017	VOC	1	1			0.03	CALEPA	0.31	CALEPA	0.003	IRIS
		Change Effect		E	1		E		E		E	0.002912	XXXXXX
000076-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Spring 2016	VOC	1	0	30	IRIS	30	HEAST				
	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Spring 2017	VOC	1	0	30	IRIS	5	PPRTV				
		Change Effect		E	E		E		-25	XXXXX.		E	E
000078-48-8	Merphos Oxide	Spring 2016	SVOC	0	0	0.00003	IRIS						
	Merphos Oxide	Spring 2017	SVOC	0	0	0.0001	OPP						
		Change Effect		E	E		E XXXX		E		E		E
000078-87-5	Dichloropropane, 1,2-	Spring 2016	VOC	1	0	0.09	ATSDR	0.004	IRIS	0.036	CALEPA	0.00001	CALEPA
	Dichloropropane, 1,2-	Spring 2017	VOC	1	0	0.04	PPRTV	0.004	IRIS	0.037	PPRTV	0.000037	PPRTV
		Change Effect		E	E	-0.05	XXXXX.		E	0.001	XXXXXX	E	XXXXXX
000087-84-3	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	Spring 2016	SVOC	0	0					0.023	HEAST		
	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	Spring 2017	SVOC	0	0	0.02	SCREEN			0.02	SCREEN		
		Change Effect		E	E		XXXXXX		E	-0.003	XXXXXX		E
000091-08-7	Toluene-2,6-diisocyanate	Spring 2017	VOC	1	0			0.000008	CALEPA			0.000011	CALEPA
000094-81-5	MCPB	Spring 2016	SVOC	0	0	0.01	IRIS						
	MCPB	Spring 2017	SVOC	0	0	0.0044	OPP						
		Change Effect		E	E	-0.0056	XXXX		E		E		E
000094-82-6	Dichlorophenoxy)butyric Acid, 4-(2,4-	Spring 2016	HERB	0	0	0.008	IRIS						
	Butanoic acid, 4-(2,4-dichlorophenoxy)-X	Spring 2017	HERB	0	0	0.03	OPP						
		Change Effect		E	E	0.022	XXXX		E		E		E
000095-54-5	Phenylenediamine, o-	Spring 2016	SVOC	0	0					0.047	HEAST		
	Phenylenediamine, o-	Spring 2017	SVOC	0	0	0.004	PPRTV			0.12	PPRTV		
		Change Effect		E	E		XXXXX.		E	0.073	XXXXX.		E
000095-55-6	Aminophenol, o-	Spring 2017	SVOC	0	0	0.004	SCREEN						
000095-63-6	Trimethylbenzene, 1,2,4-	Spring 2016	VOC	1	0			0.007	PPRTV				
	Trimethylbenzene, 1,2,4-	Spring 2017	VOC	1	0	0.01	IRIS	0.06	IRIS				
		Change Effect		E	E		XXXX	0.053	XXXXX.		E		E
000098-66-8	Chlorobenzene sulfonic acid, p-	Spring 2017	SVOC	0	0	0.1	SCREEN						
000100-00-5	Chloronitrobenzene, p-	Spring 2016	SVOC	0	0	0.001	PPRTV	0.0006	PPRTV	0.0063	PPRTV		
	Chloronitrobenzene, p-	Spring 2017	SVOC	0	0	0.0007	PPRTV	0.002	PPRTV	0.06	PPRTV		
		Change Effect		E	E	-0.0003		0.0014		0.0537			E
000100-52-7	Benzaldehyde	Spring 2016	VOC	1	0	0.1	IRIS						
	Benzaldehyde	Spring 2017	VOC	1	0	0.1	IRIS			0.004	PPRTV		
		Change Effect		E	E		E		E		XXXXX.		E
000101-21-3	Chlorpropham	Spring 2016	SVOC	0	0	0.2	IRIS						

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	Chlorpropham	Spring 2017	SVOC	0	0	0.05	OPP						
		Change Effect		E	E	-0.15	XXXX	E		E		E	
000103-72-0	Phenyl Isothiocyanate	Spring 2017	VOC	1	0	0.0002	SCREEN						
000106-50-3	Phenylenediamine, p-	Spring 2016	SVOC	0	0	0.19	HEAST						
	Phenylenediamine, p-	Spring 2017	SVOC	0	0	0.001	SCREEN						
		Change Effect		E	E	-0.189	XXXXXX	E		E		E	
000108-67-8	Trimethylbenzene, 1,3,5-	Spring 2016	VOC	1	0	0.01	SCREEN						
	Trimethylbenzene, 1,3,5-	Spring 2017	VOC	1	0	0.01	IRIS	0.06	IRIS				
		Change Effect		E	E	E	XXXXXX		XXXX	E		E	
000118-79-6	Tribromophenol, 2,4,6-	Spring 2017	SVOC	0	0	0.009	SCREEN						
000121-69-7	Dimethylaniline, N,N-	Spring 2016	VOC	1	0	0.002	IRIS						
	Dimethylaniline, N,N-	Spring 2017	VOC	1	0	0.002	IRIS			0.027	PPRTV		
		Change Effect		E	E	E		E		XXXX.		E	
000122-39-4	Diphenylamine	Spring 2016	SVOC	0	0	0.025	IRIS						
	Diphenylamine	Spring 2017	SVOC	0	0	0.1	OPP						
		Change Effect		E	E	0.075	XXXX	E		E		E	
000133-07-3	Folpet	Spring 2016	SVOC	0	0	0.1	IRIS			0.0035	IRIS		
	Folpet	Spring 2017	SVOC	0	0	0.09	OPP						
		Change Effect		E	E	-0.01	XXXX	E			XXXX	E	
000137-26-8	Thiram	Spring 2016	SVOC	0	0	0.005	IRIS						
	Thiram	Spring 2017	SVOC	0	0	0.015	OPP						
		Change Effect		E	E	0.01	XXXX	E		E		E	
000141-66-2	Dicrotophos	Spring 2016	PEST	0	0	0.0001	IRIS						
	Dicrotophos	Spring 2017	PEST	0	0	0.00007	OPP						
		Change Effect		E	E	E	XXXX	E		E		E	
000142-82-5	Heptane, N-	Spring 2017	VOC	1	0	0.0003	SCREEN	0.4	PPRTV				
000149-30-4	Mercaptobenzothiazole, 2-	Spring 2017	SVOC	0	0	0.004	PPRTV			0.011	PPRTV		
000193-39-5	Indeno[1,2,3-cd]pyrene	Spring 2016	PAH	0	1					0.73	WHO/TEF	0.00011	CALEPA
	Indeno[1,2,3-cd]pyrene	Spring 2017	PAH	0	1					0.1	WHO/TEF	0.00006	WHO/TEF
		Change Effect		E	E	E		E		-0.63		E	XXXXXXX.
000205-99-2	Benzo[b]fluoranthene	Spring 2016	PAH	0	1					0.73	WHO/TEF	0.00011	CALEPA
	Benzo[b]fluoranthene	Spring 2017	PAH	0	1					0.1	WHO/TEF	0.00006	WHO/TEF
		Change Effect		E	E	E		E		-0.63		E	XXXXXXX.
000207-08-9	Benzo[k]fluoranthene	Spring 2016	PAH	0	1					0.073	WHO/TEF	0.00011	CALEPA
	Benzo[k]fluoranthene	Spring 2017	PAH	0	1					0.01	WHO/TEF	0.000006	WHO/TEF
		Change Effect		E	E	E		E		-0.063		-0.000104	XXXXXXX.
000218-01-9	Chrysene	Spring 2016	PAH	0	1					0.0073	WHO/TEF	0.000011	CALEPA
	Chrysene	Spring 2017	PAH	0	1					0.001	WHO/TEF	0.0000006	WHO/TEF
		Change Effect		E	E	E		E		-0.0063		E	XXXXXXX.
000301-04-2	Lead acetate	Spring 2016	SVOC	0	0					0.28	CALEPA	0.00008	CALEPA
	Lead acetate	Spring 2017	SVOC	0	0					0.0085	CALEPA	0.000012	CALEPA
		Change Effect		E	E	E		E		-0.2715		E	
000330-55-2	Linuron	Spring 2016	SVOC	0	0	0.002	IRIS						
	Linuron	Spring 2017	SVOC	0	0	0.0077	OPP						
		Change Effect		E	E	0.0057	XXXX	E		E		E	
000375-73-5	Perfluorobutane Sulfonate	Spring 2016	VOC	1	0	0.02	PPRTV						
	Perfluorobutane sulfonic acid (PFBS)	Spring 2017	SVOC	0	0	0.02	PPRTV						
	X	Change Effect	XXXX	-1	E	E		E		E		E	
000506-93-4	Guanidine Nitrate	Spring 2017	SVOC	0	0	0.03	SCREEN						
000526-73-8	Trimethylbenzene, 1,2,3-	Spring 2016	VOC	1	0			0.005	PPRTV				
	Trimethylbenzene, 1,2,3-	Spring 2017	VOC	1	0	0.01	IRIS	0.06	IRIS				
		Change Effect		E	E		XXXX	0.055	XXXXX.	E		E	

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000584-84-9	Toluene-2,4-diisocyanate	Spring 2017	VOC	1	0			0.000008	CALEPA			0.000011	CALEPA
000759-94-4	EPTC	Spring 2016	VOC	1	0	0.025	IRIS						
	EPTC	Spring 2017	VOC	1	0	0.05	OPP						
		Change Effect		E	E	0.025	XXXX	E		E		E	
000950-37-8	Methidathion	Spring 2016	SVOC	0	0	0.001	IRIS						
	Methidathion	Spring 2017	SVOC	0	0	0.0015	OPP						
		Change Effect		E	E	0.0005	XXXX	E		E		E	
001314-32-5	Thallic Oxide	Spring 2017	INORGANIC	0	0	0.00002	SURROGATE						
001689-84-5	Bromoxynil	Spring 2016	SVOC	0	0	0.02	IRIS						
	Bromoxynil	Spring 2017	SVOC	0	0	0.015	OPP			0.103	OPP		
		Change Effect		E	E	-0.005	XXXX	E			XXX.	E	
001689-99-2	Bromoxynil Octanoate	Spring 2016	VOC	1	0	0.02	IRIS						
	Bromoxynil Octanoate	Spring 2017	VOC	1	0	0.015	OPP						
		Change Effect		E	E	-0.005	XXXX	E		E		E	
001861-40-1	Benfluralin	Spring 2016	VOC	1	0	0.3	IRIS						
	Benfluralin	Spring 2017	VOC	1	0	0.005	OPP						
		Change Effect		E	E	-0.295	XXXX	E		E		E	
002303-17-5	Triallate	Spring 2016	VOC	1	0	0.013	IRIS						
	Triallate	Spring 2017	VOC	1	0	0.025	OPP			0.0717	OPP		
		Change Effect		E	E	0.012	XXXX	E			XXX.	E	
002312-35-8	Propargite	Spring 2016	SVOC	0	0	0.02	IRIS						
	Propargite	Spring 2017	SVOC	0	0	0.04	OPP			0.0327	OPP		
		Change Effect		E	E	0.02	XXXX	E			XXX.	E	
002439-10-3	Dodine	Spring 2016	SVOC	0	0	0.004	IRIS						
	Dodine	Spring 2017	SVOC	0	0	0.02	OPP						
		Change Effect		E	E	0.016	XXXX	E		E		E	
003337-71-1	Asulam	Spring 2016	SVOC	0	0	0.05	IRIS						
	Asulam	Spring 2017	SVOC	0	0	0.036	OPP						
		Change Effect		E	E	-0.014	XXXX	E		E		E	
007287-19-6	Prometryn	Spring 2016	SVOC	0	0	0.004	IRIS						
	Prometryn	Spring 2017	SVOC	0	0	0.04	OPP						
		Change Effect		E	E	0.036	XXXX	E		E		E	
007664-41-7	Ammonia	Spring 2016	INORGANIC	1	0			0.1	IRIS				
	Ammonia	Spring 2017	INORGANIC	1	0			0.5	IRIS				
		Change Effect		E	E			0.4		E		E	
012039-52-0	Thallium Selenite	Spring 2017	INORGANIC	0	0	0.00001	SURROGATE						
013684-63-4	Phenmedipham	Spring 2016	SVOC	0	0	0.25	IRIS						
	Phenmedipham	Spring 2017	SVOC	0	0	0.24	OPP						
		Change Effect		E	E	-0.01	XXXX	E		E		E	
015299-99-7	Napropamide	Spring 2016	SVOC	0	0	0.1	IRIS						
	Napropamide	Spring 2017	SVOC	0	0	0.12	OPP						
		Change Effect		E	E	0.02	XXXX	E		E		E	
018540-29-9	Chromium(VI)	Spring 2016	INORGANIC	0	1	0.003	IRIS	0.0001	IRIS	0.5	NJEPA	0.084	SURROGATE
	Chromium(VI)	Spring 2017	INORGANIC	0	1	0.003	IRIS	0.0001	IRIS	0.5	CALEPA	0.084	SURROGATE
		Change Effect		E	E			E		E	XXXXXX	E	
019044-88-3	Oryzalin	Spring 2016	SVOC	0	0	0.05	IRIS						
	Oryzalin	Spring 2017	SVOC	0	0	0.14	OPP			0.0078	OPP		
		Change Effect		E	E	0.09	XXXX	E			XXX.	E	
023564-05-8	Thiophanate, Methyl	Spring 2016	SVOC	0	0	0.08	IRIS						
	Thiophanate, Methyl	Spring 2017	SVOC	0	0	0.0267	OPP			0.0116	OPP		
		Change Effect		E	E	-0.0533	XXXX	E			XXX.	E	
027314-13-2	Norflurazon	Spring 2016	SVOC	0	0	0.04	IRIS						

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	Norflurazon	Spring 2017	SVOC	0	0	0.015	OPP						
		Change Effect		E	E	-0.025	XXXX	E		E		E	
029232-93-7	Pirimiphos, Methyl	Spring 2016	SVOC	0	0	0.01	IRIS						
	Pirimiphos, Methyl	Spring 2017	SVOC	0	0	0.0000667	OPP						
		Change Effect		E	E	-0.009933	XXXX	E		E		E	
030560-19-1	Acephate	Spring 2016	SVOC	0	0	0.004	IRIS			0.0087	IRIS		
	Acephate	Spring 2017	SVOC	0	0	0.0012	OPP						
		Change Effect		E	E	-0.0028	XXXX	E			XXXX	E	
035554-44-0	Imazalil	Spring 2016	SVOC	0	0	0.013	IRIS						
	Imazalil	Spring 2017	SVOC	0	0	0.0025	OPP			0.0611	OPP		
		Change Effect		E	E	-0.0105	XXXX	E			XXX.	E	
039148-24-8	Fosetyl-AL	Spring 2016	SVOC	0	0	3	IRIS						
	Fosetyl-AL	Spring 2017	SVOC	0	0	2.5	OPP						
		Change Effect		E	E	-0.5	XXXX	E		E		E	
040487-42-1	Pendimethalin	Spring 2016	SVOC	0	0	0.04	IRIS						
	Pendimethalin	Spring 2017	SVOC	0	0	0.03	OPP						
		Change Effect		E	E	-0.01	XXXX	E		E		E	
042874-03-3	Oxyfluorfen	Spring 2016	SVOC	0	0	0.003	IRIS						
	Oxyfluorfen	Spring 2017	SVOC	0	0	0.03	OPP			0.0732	OPP		
		Change Effect		E	E	0.027	XXXX	E			XXX.	E	
043121-43-3	Triadimefon	Spring 2016	SVOC	0	0	0.03	IRIS						
	Triadimefon	Spring 2017	SVOC	0	0	0.034	OPP						
		Change Effect		E	E	0.004	XXXX	E		E		E	
043222-48-6	Difenzoquat	Spring 2016	SVOC	0	0	0.08	IRIS						
	Difenzoquat	Spring 2017	SVOC	0	0	0.083	OPP						
		Change Effect		E	E	0.003	XXXX	E		E		E	
045187-15-3	Perfluorobutanesulfonate	Spring 2017	SVOC	0	0	0.02	PPRTV						
050471-44-8	Vinclozolin	Spring 2016	SVOC	0	0	0.025	IRIS						
	Vinclozolin	Spring 2017	SVOC	0	0	0.0012	OPP						
		Change Effect		E	E	-0.0238	XXXX	E		E		E	
052315-07-8	Cypermethrin	Spring 2016	SVOC	0	0	0.01	IRIS						
	Cypermethrin	Spring 2017	SVOC	0	0	0.06	OPP						
		Change Effect		E	E	0.05	XXXX	E		E		E	
055290-64-7	Dimethipin	Spring 2016	SVOC	0	0	0.02	IRIS						
	Dimethipin	Spring 2017	SVOC	0	0	0.0218	OPP						
		Change Effect		E	E	0.0018	XXXX	E		E		E	
056425-91-3	Flurprimidol	Spring 2016	SVOC	0	0	0.02	IRIS						
	Flurprimidol	Spring 2017	SVOC	0	0	0.015	OPP						
		Change Effect		E	E	-0.005	XXXX	E		E		E	
060207-90-1	Propiconazole	Spring 2016	SVOC	0	0	0.013	IRIS						
	Propiconazole	Spring 2017	SVOC	0	0	0.1	OPP						
		Change Effect		E	E	0.087	XXXX	E		E		E	
064902-72-3	Chlorsulfuron	Spring 2016	SVOC	0	0	0.05	IRIS						
	Chlorsulfuron	Spring 2017	SVOC	0	0	0.02	OPP						
		Change Effect		E	E	-0.03	XXXX	E		E		E	
066215-27-8	Cyromazine	Spring 2016	SVOC	0	0	0.0075	IRIS						
	Cyromazine	Spring 2017	SVOC	0	0	0.015	OPP						
		Change Effect		E	E	0.0075	XXXX	E		E		E	
066332-96-5	Flutolanil	Spring 2016	SVOC	0	0	0.06	IRIS						
	Flutolanil	Spring 2017	SVOC	0	0	0.5	OPP						
		Change Effect		E	E	0.44	XXXX	E		E		E	
067485-29-4	Hydramethylon	Spring 2016	SVOC	0	0	0.0003	IRIS						

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	Hydramethylnon	Spring 2017	SVOC	0	0	0.017	OPP						
		Change Effect		E	E	0.0167	XXXX	E		E		E	
068085-85-8	Cyhalothrin	Spring 2016	SVOC	0	0	0.005	IRIS						
	Cyhalothrin	Spring 2017	SVOC	0	0	0.001	OPP						
		Change Effect		E	E	-0.004	XXXX	E		E		E	
072178-02-0	Fomesafen	Spring 2016	SVOC	0	0					0.19	IRIS		
	Fomesafen	Spring 2017	SVOC	0	0	0.0025	OPP						
		Change Effect		E	E		XXX.	E			XXXX	E	
074051-80-2	Sethoxydim	Spring 2016	SVOC	0	0	0.09	IRIS						
	Sethoxydim	Spring 2017	SVOC	0	0	0.14	OPP						
		Change Effect		E	E	0.05	XXXX	E		E		E	
077182-82-2	Glufosinate, Ammonium	Spring 2016	SVOC	0	0	0.0004	IRIS						
	Glufosinate, Ammonium	Spring 2017	SVOC	0	0	0.006	OPP						
		Change Effect		E	E	0.0056	XXXX	E		E		E	
077501-63-4	Lactofen	Spring 2016	SVOC	0	0	0.002	IRIS						
	Lactofen	Spring 2017	SVOC	0	0	0.008	OPP						
		Change Effect		E	E	0.006	XXXX	E		E		E	
079277-27-3	Thifensulfuron-methyl	Spring 2016	SVOC	0	0	0.013	IRIS						
	Thifensulfuron-methyl	Spring 2017	SVOC	0	0	0.043	OPP						
		Change Effect		E	E	0.03	XXXX	E		E		E	
081335-77-5	Imazethapyr	Spring 2016	SVOC	0	0	0.25	IRIS						
	Imazethapyr	Spring 2017	SVOC	0	0	2.5	OPP						
		Change Effect		E	E	2.25	XXXX	E		E		E	
085509-19-9	Flusilazole	Spring 2016	SVOC	0	0	0.0007	IRIS						
	Flusilazole	Spring 2017	SVOC	0	0	0.002	OPP						
		Change Effect		E	E	0.0013	XXXX	E		E		E	
090982-32-4	Chlorimuron, Ethyl-	Spring 2016	SVOC	0	0	0.02	IRIS						
	Chlorimuron, Ethyl-	Spring 2017	SVOC	0	0	0.09	OPP						
		Change Effect		E	E	0.07	XXXX	E		E		E	