

CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDOC	RFDOCREF	RFCIC	RFICREF	SFO	SFOREF	IUR	IURREF
000000-00-9	Total Petroleum Hydrocarbons (Aliphatic High)	Spring 2015	VOC	1	0	3	PPRTV						
000000-00-9	Total Petroleum Hydrocarbons (Aliphatic High)	Winter 2015	SVOC	1	0	3	PPRTV						
		Change Effect	XXXX	E	E	E		E		E		E	
000050-00-0	Formaldehyde	Spring 2015	VOC	1	0	0.2	IRIS	0.0098258	ATSDR			0.013	IRIS
000050-00-0	Formaldehyde	Winter 2015	SVOC	0	0	0.2	IRIS	0.0098258	ATSDR			0.013	IRIS
		Change Effect	XXXX	1	E	E		E		E		E	
000056-55-3	Benz[a]anthracene	Spring 2015	PAH	1	1					0.73	WHO/TEF	0.11	CALEPA
000056-55-3	Benz[a]anthracene	Winter 2015	PAH	0	1					0.73	WHO/TEF	0.11	CALEPA
		Change Effect		1	E	E		E		E		E	
000057-14-7	Dimethylhydrazine, 1,1-	Spring 2015	VOC	1	0	0.0001	SCREEN	0.000002	SCREEN				
000057-14-7	Dimethylhydrazine, 1,1-	Winter 2015	SVOC	0	0	0.0001	SCREEN	0.000002	SCREEN				
		Change Effect	XXXX	1	E	E		E		E		E	
000060-34-4	Methyl Hydrazine	Spring 2015	VOC	1	0	0.001	PPRTV	0.00002	SCREEN			1	SCREEN
000060-34-4	Methyl Hydrazine	Winter 2015	SVOC	0	0	0.001	PPRTV	0.00002	SCREEN			1	SCREEN
		Change Effect	XXXX	1	E	E		E		E		E	
000062-75-9	Nitrosodimethylamine, N-	Spring 2015	VOC	1	1	0.000008	PPRTV	0.00004	SCREEN	51	IRIS	14	IRIS
000062-75-9	Nitrosodimethylamine, N-	Winter 2015	SVOC	0	1	0.000008	PPRTV	0.00004	SCREEN	51	IRIS	14	IRIS
		Change Effect	XXXX	1	E	E		E		E		E	
000064-18-6	Formic Acid	Spring 2015	VOC	1	0	0.9	PPRTV	0.0003	SCREEN				
000064-18-6	Formic Acid	Winter 2015	SVOC	0	0	0.9	PPRTV	0.0003	SCREEN				
		Change Effect	XXXX	1	E	E		E		E		E	
000067-56-1	Methanol	Spring 2015	VOC	1	0	2	IRIS	20	IRIS				
000067-56-1	Methanol	Winter 2015	SVOC	0	0	2	IRIS	20	IRIS				
		Change Effect	XXXX	1	E	E		E		E		E	
000067-63-0	Isopropanol	Spring 2015	VOC	1	0	2	PPRTV	0.2	PPRTV				
000067-63-0	Isopropanol	Winter 2015	SVOC	0	0	2	PPRTV	0.2	PPRTV				
		Change Effect	XXXX	1	E	E		E		E		E	
000067-72-1	Hexachloroethane	Spring 2015	VOC	1	0	0.0007	IRIS	0.03	IRIS	0.04	IRIS	0.011	CALEPA
000067-72-1	Hexachloroethane	Winter 2015	SVOC	0	0	0.0007	IRIS	0.03	IRIS	0.04	IRIS	0.011	CALEPA
		Change Effect	XXXX	1	E	E		E		E		E	
000068-12-2	Dimethylformamide	Spring 2015	VOC	1	0	0.1	PPRTV	0.03	IRIS				
000068-12-2	Dimethylformamide	Winter 2015	SVOC	0	0	0.1	PPRTV	0.03	IRIS				
		Change Effect	XXXX	1	E	E		E		E		E	
000071-36-3	Butanol, N-	Spring 2015	VOC	1	0	0.1	IRIS						
000071-36-3	Butanol, N-	Winter 2015	SVOC	0	0	0.1	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000072-55-9	DDE, p,p'-	Spring 2015	PEST	1	0					0.34	IRIS	0.097	CALEPA
000072-55-9	DDE, p,p'-	Winter 2015	PEST	0	0					0.34	IRIS	0.097	CALEPA
		Change Effect		1	E	E		E		E		E	
000075-25-2	Bromoform	Spring 2015	VOC	1	0	0.02	IRIS			0.0079	IRIS	0.0011	IRIS
000075-25-2	Bromoform	Winter 2015	SVOC	0	0	0.02	IRIS			0.0079	IRIS	0.0011	IRIS
		Change Effect	XXXX	1	E	E		E		E		E	
000076-01-7	Pentachloroethane	Spring 2015	VOC	1	0					0.09	PPRTV		
000076-01-7	Pentachloroethane	Winter 2015	SVOC	0	0					0.09	PPRTV		
		Change Effect	XXXX	1	E	E		E		E		E	
000076-44-8	Heptachlor	Spring 2015	PEST	1	0	0.0005	IRIS			4.5	IRIS	1.3	IRIS

CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDOC	RFDOCREF	RFCIC	RFICREF	SFO	SFOREF	IUR	IURREF
000076-44-8	Heptachlor	Winter 2015	PEST	0	0	0.0005	IRIS			4.5	IRIS	1.3	IRIS
		Change Effect		1	E	E		E		E		E	
000077-47-4	Hexachlorocyclopentadiene	Spring 2015	PEST	1	0	0.006	IRIS	0.0002	IRIS				
000077-47-4	Hexachlorocyclopentadiene	Winter 2015	PEST	0	0	0.006	IRIS	0.0002	IRIS				
		Change Effect		1	E	E		E		E		E	
000078-00-2	Tetraethyl Lead	Spring 2015	VOC	1	0	0.0000001	IRIS						
000078-00-2	Tetraethyl Lead	Winter 2015	SVOC	0	0	0.0000001	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000078-83-1	Isobutyl Alcohol	Spring 2015	VOC	1	0	0.3	IRIS						
000078-83-1	Isobutyl Alcohol	Winter 2015	SVOC	0	0	0.3	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000078-92-2	Butyl alcohol, sec-	Spring 2015	VOC	1	0	2	PPRTV	30	PPRTV				
000078-92-2	Butyl alcohol, sec-	Winter 2015	SVOC	0	0	2	PPRTV	30	PPRTV				
		Change Effect	XXXX	1	E	E		E		E		E	
000079-10-7	Acrylic Acid	Spring 2015	VOC	1	0	0.5	IRIS	0.001	IRIS				
000079-10-7	Acrylic Acid	Winter 2015	SVOC	0	0	0.5	IRIS	0.001	IRIS				
		Change Effect	XXXX	1	E	E		E		E		E	
000082-68-8	Pentachloronitrobenzene	Spring 2015	VOC	1	0	0.003	IRIS			0.26	HEAST		
000082-68-8	Pentachloronitrobenzene	Winter 2015	SVOC	0	0	0.003	IRIS			0.26	HEAST		
		Change Effect	XXXX	1	E	E		E		E		E	
000087-68-3	Hexachlorobutadiene	Spring 2015	VOC	1	0	0.001	PPRTV			0.078	IRIS	0.022	IRIS
000087-68-3	Hexachlorobutadiene	Winter 2015	SVOC	0	0	0.001	PPRTV			0.078	IRIS	0.022	IRIS
		Change Effect	XXXX	1	E	E		E		E		E	
000087-82-1	Hexabromobenzene	Spring 2015	VOC	1	0	0.002	IRIS						
000087-82-1	Hexabromobenzene	Winter 2015	SVOC	0	0	0.002	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000095-94-3	Tetrachlorobenzene, 1,2,4,5-	Spring 2015	VOC	1	0	0.0003	IRIS						
000095-94-3	Tetrachlorobenzene, 1,2,4,5-	Winter 2015	SVOC	0	0	0.0003	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000098-01-1	Furfural	Spring 2015	VOC	1	0	0.003	IRIS	0.05	HEAST				
000098-01-1	Furfural	Winter 2015	SVOC	0	0	0.003	IRIS	0.05	HEAST				
		Change Effect	XXXX	1	E	E		E		E		E	
000106-37-6	Dibromobenzene, 1,4-	Spring 2015	VOC	1	0	0.01	IRIS						
000106-37-6	Dibromobenzene, 1,4-	Winter 2015	SVOC	0	0	0.01	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000107-07-3	Chloroethanol, 2-	Spring 2015	VOC	1	0	0.02	PPRTV						
000107-07-3	Chloroethanol, 2-	Winter 2015	SVOC	0	0	0.02	PPRTV						
		Change Effect	XXXX	1	E	E		E		E		E	
000107-15-3	Ethylene Diamine	Spring 2015	VOC	1	0	0.09	PPRTV						
000107-15-3	Ethylene Diamine	Winter 2015	SVOC	0	0	0.09	PPRTV						
		Change Effect	XXXX	1	E	E		E		E		E	
000107-18-6	Allyl Alcohol	Spring 2015	VOC	1	0	0.005	IRIS	0.0001	SCREEN				
000107-18-6	Allyl Alcohol	Winter 2015	SVOC	0	0	0.005	IRIS	0.0001	SCREEN				
		Change Effect	XXXX	1	E	E		E		E		E	
000107-19-7	Propargyl Alcohol	Spring 2015	VOC	1	0	0.002	IRIS						
000107-19-7	Propargyl Alcohol	Winter 2015	SVOC	0	0	0.002	IRIS						

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000107-98-2	Propylene Glycol Monomethyl Ether	Change Effect	XXXX	1	E	E		E		E		E	
		Spring 2015	VOC	1	0	0.7 HEAST		2 IRIS					
000107-98-2	Propylene Glycol Monomethyl Ether	Winter 2015	SVOC	0	0	0.7 HEAST		2 IRIS					
		Change Effect	XXXX	1	E	E		E		E		E	
000108-36-1	Dibromobenzene, 1,3-	Spring 2015	VOC	1	0	0.0004 SCREEN							
000108-36-1	Dibromobenzene, 1,3-	Winter 2015	SVOC	0	0	0.0004 SCREEN							
		Change Effect	XXXX	1	E	E		E		E		E	
000108-91-8	Cyclohexylamine	Spring 2015	VOC	1	0	0.2 IRIS							
000108-91-8	Cyclohexylamine	Winter 2015	SVOC	0	0	0.2 IRIS							
		Change Effect	XXXX	1	E	E		E		E		E	
000108-94-1	Cyclohexanone	Spring 2015	VOC	1	0	5 IRIS		0.7 PPRTV					
000108-94-1	Cyclohexanone	Winter 2015	SVOC	0	0	5 IRIS		0.7 PPRTV					
		Change Effect	XXXX	1	E	E		E		E		E	
000109-86-4	Methoxyethanol, 2-	Spring 2015	VOC	1	0	0.005 PPRTV		0.02 IRIS					
000109-86-4	Methoxyethanol, 2-	Winter 2015	SVOC	0	0	0.005 PPRTV		0.02 IRIS					
		Change Effect	XXXX	1	E	E		E		E		E	
000110-49-6	Methoxyethanol Acetate, 2-	Spring 2015	VOC	1	0	0.008 PPRTV		0.001 PPRTV					
000110-49-6	Methoxyethanol Acetate, 2-	Winter 2015	SVOC	0	0	0.008 PPRTV		0.001 PPRTV					
		Change Effect	XXXX	1	E	E		E		E		E	
000110-80-5	Ethoxyethanol, 2-	Spring 2015	VOC	1	0	0.09 PPRTV		0.2 IRIS					
000110-80-5	Ethoxyethanol, 2-	Winter 2015	SVOC	0	0	0.09 PPRTV		0.2 IRIS					
		Change Effect	XXXX	1	E	E		E		E		E	
000111-15-9	Ethoxyethanol Acetate, 2-	Spring 2015	VOC	1	0	0.1 PPRTV		0.06 PPRTV					
000111-15-9	Ethoxyethanol Acetate, 2-	Winter 2015	SVOC	0	0	0.1 PPRTV		0.06 PPRTV					
		Change Effect	XXXX	1	E	E		E		E		E	
000113-00-8	Guanidine	Spring 2015	VOC	1	0	0.01 SCREEN							
000113-00-8	Guanidine	Winter 2015	SVOC	0	0	0.01 SCREEN							
		Change Effect	XXXX	1	E	E		E		E		E	
000115-29-7	Endosulfan	Spring 2015	VOC	1	0	0.006 IRIS							
000115-29-7	Endosulfan	Winter 2015	SVOC	0	0	0.006 IRIS							
		Change Effect	XXXX	1	E	E		E		E		E	
000118-74-1	Hexachlorobenzene	Spring 2015	PEST	1	0	0.0008 IRIS				1.6 IRIS		0.46 IRIS	
000118-74-1	Hexachlorobenzene	Winter 2015	PEST	0	0	0.0008 IRIS				1.6 IRIS		0.46 IRIS	
		Change Effect		1	E	E		E		E		E	
000123-91-1	Dioxane, 1,4-	Spring 2015	VOC	1	0	0.03 IRIS		0.03 IRIS		0.1 IRIS		0.005 IRIS	
000123-91-1	Dioxane, 1,4-	Winter 2015	SVOC	0	0	0.03 IRIS		0.03 IRIS		0.1 IRIS		0.005 IRIS	
		Change Effect	XXXX	1	E	E		E		E		E	
000126-72-7	Tris(2,3-dibromopropyl)phosphate	Spring 2015	VOC	1	0					2.3 CALEPA		0.66 CALEPA	
000150-50-5	Merphos	Spring 2015	PEST	1	0	0.00003 IRIS							
000150-50-5	Merphos	Winter 2015	PEST	0	0	0.00003 IRIS							
		Change Effect		1	E	E		E		E		E	
000299-84-3	Ronnel	Spring 2015	PEST	1	0	0.05 HEAST							
000299-84-3	Ronnel	Winter 2015	PEST	0	0	0.05 HEAST							
		Change Effect		1	E	E		E		E		E	
000300-76-5	Naled	Spring 2015	PEST	1	0	0.002 IRIS							
000300-76-5	Naled	Winter 2015	PEST	0	0	0.002 IRIS							

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		Change Effect		1	E	E		E		E		E	
000302-01-2	Hydrazine	Spring 2015	INORGANIC	1	0			0.00003	PPRTV	3	IRIS	4.9	IRIS
000302-01-2	Hydrazine	Winter 2015	INORGANIC	0	0			0.00003	PPRTV	3	IRIS	4.9	IRIS
		Change Effect		1	E	E		E		E		E	
000302-17-0	Chloral Hydrate	Spring 2015	VOC	1	0	0.1	IRIS						
000302-17-0	Chloral Hydrate	Winter 2015	SVOC	0	0	0.1	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000309-00-2	Aldrin	Spring 2015	PEST	1	0	0.00003	IRIS			17	IRIS	4.9	IRIS
000309-00-2	Aldrin	Winter 2015	PEST	0	0	0.00003	IRIS			17	IRIS	4.9	IRIS
		Change Effect		1	E	E		E		E		E	
000373-02-4	Nickel Acetate	Spring 2015	SVOC	0	0	0.011	CALEPA	0.000014	CALEPA			0.26	CALEPA
000373-02-4	Nickel Acetate	Winter 2015	INORGANIC	0	0	0.011	CALEPA	0.000014	CALEPA			0.26	CALEPA
		Change Effect	XX.XXXXXX.	E	E	E		E		E		E	
000375-73-5	Perfluorobutane Sulfonate	Spring 2015	VOC	1	0	0.02	PPRTV						
000375-73-5	Perfluorobutane Sulfonate	Winter 2015	SVOC	0	0	0.02	PPRTV						
		Change Effect	XXXX	1	E	E		E		E		E	
000463-56-9	Thiocyanic Acid	Spring 2015	INORGANIC	1	0	0.0002	SCREEN						
000463-56-9	Thiocyanic Acid	Winter 2015	INORGANIC	0	0	0.0002	SCREEN						
		Change Effect		1	E	E		E		E		E	
000540-73-8	Dimethylhydrazine, 1,2-	Spring 2015	VOC	1	0					550	CALEPA	160	CALEPA
000540-73-8	Dimethylhydrazine, 1,2-	Winter 2015	SVOC	0	0					550	CALEPA	160	CALEPA
		Change Effect	XXXX	1	E	E		E		E		E	
000563-68-8	Thallium Acetate	Spring 2015	VOC	1	0	0.000006	SCREEN						
000563-68-8	Thallium Acetate	Winter 2015	INORGANIC	0	0	0.000006	SCREEN						
		Change Effect	XXXXXXXXXX.	1	E	E		E		E		E	
000608-93-5	Pentachlorobenzene	Spring 2015	VOC	1	0	0.0008	IRIS						
000608-93-5	Pentachlorobenzene	Winter 2015	SVOC	0	0	0.0008	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000615-54-3	Tribromobenzene, 1,2,4-	Spring 2015	VOC	1	0	0.005	IRIS						
000615-54-3	Tribromobenzene, 1,2,4-	Winter 2015	SVOC	0	0	0.005	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
000617-84-5	Diethylformamide	Spring 2015	VOC	1	0	0.001	PPRTV						
000617-84-5	Diethylformamide	Winter 2015	SVOC	0	0	0.001	PPRTV						
		Change Effect	XXXX	1	E	E		E		E		E	
000688-73-3	Tri-n-butyltin	Spring 2015	VOC	1	0	0.0003	ATSDR						
000688-73-3	Tri-n-butyltin	Winter 2015	SVOC	0	0	0.0003	ATSDR						
		Change Effect	XXXX	1	E	E		E		E		E	
000765-34-4	Glycidyl	Spring 2015	VOC	1	0	0.0004	IRIS	0.001	HEAST				
000765-34-4	Glycidyl	Winter 2015	SVOC	0	0	0.0004	IRIS	0.001	HEAST				
		Change Effect	XXXX	1	E	E		E		E		E	
001024-57-3	Heptachlor Epoxide	Spring 2015	PEST	1	0	0.000013	IRIS			9.1	IRIS	2.6	IRIS
001024-57-3	Heptachlor Epoxide	Winter 2015	PEST	0	0	0.000013	IRIS			9.1	IRIS	2.6	IRIS
		Change Effect		1	E	E		E		E		E	
001114-71-2	Pebulate	Spring 2015	VOC	1	0	0.05	HEAST						
001114-71-2	Pebulate	Winter 2015	SVOC	0	0	0.05	HEAST						
		Change Effect	XXXX	1	E	E		E		E		E	

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001271-28-9	Nickelocene	Spring 2015	SVOC	0	0	0.011	CALEPA	0.000014	CALEPA			0.26	CALEPA
001271-28-9	Nickelocene	Winter 2015	INORGANIC	0	0	0.011	CALEPA	0.000014	CALEPA			0.26	CALEPA
		Change Effect	XX.XXXXXX.	E	E	E		E		E		E	
001336-36-3	Polychlorinated Biphenyls (high risk)	Spring 2015	PCB	1	0					2	IRIS	0.571429	IRIS
001336-36-3	Polychlorinated Biphenyls (high risk)	Winter 2015	PCB	0	0					2	IRIS	0.571429	IRIS
		Change Effect		1	E	E		E		E		E	
001336-36-3	Polychlorinated Biphenyls (low risk)	Spring 2015	PCB	1	0					0.4	IRIS	0.1	IRIS
001336-36-3	Polychlorinated Biphenyls (low risk)	Winter 2015	PCB	0	0					0.4	IRIS	0.1	IRIS
		Change Effect		1	E	E		E		E		E	
001336-36-3	Polychlorinated Biphenyls (lowest risk)	Spring 2015	PCB	1	0					0.07	IRIS	0.02	IRIS
001336-36-3	Polychlorinated Biphenyls (lowest risk)	Winter 2015	PCB	0	0					0.07	IRIS	0.02	IRIS
		Change Effect		1	E	E		E		E		E	
001569-02-4	Propylene Glycol Monoethyl Ether	Spring 2015	VOC	1	0	0.7	HEAST						
001569-02-4	Propylene Glycol Monoethyl Ether	Winter 2015	SVOC	0	0	0.7	HEAST						
		Change Effect	XXXX	1	E	E		E		E		E	
001582-09-8	Trifluralin	Spring 2015	VOC	1	0	0.0075	IRIS			0.0077	IRIS		
001582-09-8	Trifluralin	Winter 2015	SVOC	0	0	0.0075	IRIS			0.0077	IRIS		
		Change Effect	XXXX	1	E	E		E		E		E	
001689-99-2	Bromoxynil Octanoate	Spring 2015	VOC	1	0	0.02	IRIS						
001689-99-2	Bromoxynil Octanoate	Winter 2015	SVOC	0	0	0.02	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
001746-01-6	TCDD, 2,3,7,8-	Spring 2015	DIOXIN	1	0	7E-10	IRIS	4E-08	CALEPA	130000	CALEPA	38000	CALEPA
001746-01-6	TCDD, 2,3,7,8-	Winter 2015	DIOXIN	0	0	7E-10	IRIS	4E-08	CALEPA	130000	CALEPA	38000	CALEPA
		Change Effect		1	E	E		E		E		E	
001861-40-1	Benefin	Spring 2015	VOC	1	0	0.3	IRIS						
001861-40-1	Benefin	Winter 2015	SVOC	0	0	0.3	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
001929-77-7	Vernolate	Spring 2015	VOC	1	0	0.001	IRIS						
001929-77-7	Vernolate	Winter 2015	SVOC	0	0	0.001	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
002008-41-5	Butylate	Spring 2015	VOC	1	0	0.05	IRIS						
002008-41-5	Butylate	Winter 2015	SVOC	0	0	0.05	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
002104-96-3	Bromophos	Spring 2015	VOC	1	0	0.005	HEAST						
002104-96-3	Bromophos	Winter 2015	SVOC	0	0	0.005	HEAST						
		Change Effect	XXXX	1	E	E		E		E		E	
002303-17-5	Triallate	Spring 2015	VOC	1	0	0.013	IRIS						
002303-17-5	Triallate	Winter 2015	SVOC	0	0	0.013	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	
002385-85-5	Mirex	Spring 2015	VOC	1	0	0.0002	IRIS			18	CALEPA	5.1	CALEPA
002385-85-5	Mirex	Winter 2015	SVOC	0	0	0.0002	IRIS			18	CALEPA	5.1	CALEPA
		Change Effect	XXXX	1	E	E		E		E		E	
003333-67-3	Nickel Carbonate	Spring 2015	SVOC	0	0	0.011	CALEPA	0.000014	CALEPA			0.26	CALEPA
003333-67-3	Nickel Carbonate	Winter 2015	INORGANIC	0	0	0.011	CALEPA	0.000014	CALEPA			0.26	CALEPA
		Change Effect	XX.XXXXXX.	E	E	E		E		E		E	
005216-25-1	Tetrachlorotoluene, p- alpha, alpha, alpha-	Spring 2015	VOC	1	0					20	HEAST		

CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDOC	RFDOCREF	RFCIC	RFICREF	SFO	SFOREF	IUR	IURREF
005216-25-1	Tetrachlorotoluene, p- alpha, alpha, alpha-	Winter 2015	SVOC	0	0					20	HEAST		
		Change Effect	XXXX	1	E	E		E		E		E	
006533-73-9	Thallium Carbonate	Spring 2015	ORGANIC	0	0	0.00002	SCREEN						
006533-73-9	Thallium Carbonate	Winter 2015	INORGANIC	0	0	0.00002	SCREEN						
		Change Effect	XXXXXXXXX.	E	E	E		E		E		E	
007446-11-9	Sulfur Trioxide	Spring 2015	INORGANIC	1	0			0.001	CALEPA				
007446-11-9	Sulfur Trioxide	Winter 2015	INORGANIC	0	0			0.001	CALEPA				
		Change Effect		1	E	E		E		E		E	
007550-45-0	Titanium Tetrachloride	Spring 2015	INORGANIC	1	0			0.0001	ATSDR				
007550-45-0	Titanium Tetrachloride	Winter 2015	INORGANIC	0	0			0.0001	ATSDR				
		Change Effect		1	E	E		E		E		E	
007637-07-2	Boron Trifluoride	Spring 2015	INORGANIC	1	0	0.04	CALEPA	0.013	CALEPA				
007637-07-2	Boron Trifluoride	Winter 2015	INORGANIC	0	0	0.04	CALEPA	0.013	CALEPA				
		Change Effect		1	E	E		E		E		E	
007647-01-0	Hydrogen Chloride	Spring 2015	INORGANIC	1	0			0.02	IRIS				
007647-01-0	Hydrogen Chloride	Winter 2015	INORGANIC	0	0			0.02	IRIS				
		Change Effect		1	E	E		E		E		E	
007664-39-3	Hydrogen Fluoride	Spring 2015	INORGANIC	1	0	0.04	CALEPA	0.014	CALEPA				
007664-39-3	Hydrogen Fluoride	Winter 2015	INORGANIC	0	0	0.04	CALEPA	0.014	CALEPA				
		Change Effect		1	E	E		E		E		E	
007664-41-7	Ammonia	Spring 2015	INORGANIC	1	0			0.1	IRIS				
007664-41-7	Ammonia	Winter 2015	INORGANIC	0	0			0.1	IRIS				
		Change Effect		1	E	E		E		E		E	
007723-14-0	Phosphorus, White	Spring 2015	INORGANIC	1	0	0.00002	IRIS						
007723-14-0	Phosphorus, White	Winter 2015	INORGANIC	0	0	0.00002	IRIS						
		Change Effect		1	E	E		E		E		E	
007782-50-5	Chlorine	Spring 2015	INORGANIC	1	0	0.1	IRIS	0.000145	ATSDR				
007782-50-5	Chlorine	Winter 2015	INORGANIC	0	0	0.1	IRIS	0.000145	ATSDR				
		Change Effect		1	E	E		E		E		E	
007783-06-4	Hydrogen Sulfide	Spring 2015	INORGANIC	1	0			0.002	IRIS				
007783-06-4	Hydrogen Sulfide	Winter 2015	INORGANIC	0	0			0.002	IRIS				
		Change Effect		1	E	E		E		E		E	
007803-51-2	Phosphine	Spring 2015	INORGANIC	1	0	0.0003	IRIS	0.0003	IRIS				
007803-51-2	Phosphine	Winter 2015	INORGANIC	0	0	0.0003	IRIS	0.0003	IRIS				
		Change Effect		1	E	E		E		E		E	
008007-45-2	Coke Oven Emissions	Spring 2015	VOC	1	1							0.62	IRIS
008007-45-2	Coke Oven Emissions	Winter 2015	SVOC	0	1							0.62	IRIS
		Change Effect	XXXX	1	E	E		E		E		E	
010049-04-4	Chlorine Dioxide	Spring 2015	INORGANIC	1	0	0.03	IRIS	0.0002	IRIS				
010049-04-4	Chlorine Dioxide	Winter 2015	INORGANIC	0	0	0.03	IRIS	0.0002	IRIS				
		Change Effect		1	E	E		E		E		E	
010294-34-5	Boron Trichloride	Spring 2015	INORGANIC	1	0	2	PPRTV	0.02	PPRTV				
010294-34-5	Boron Trichloride	Winter 2015	INORGANIC	0	0	2	PPRTV	0.02	PPRTV				
		Change Effect		1	E	E		E		E		E	
010595-95-6	Nitrosomethylethylamine, N-	Spring 2015	VOC	1	0					22	IRIS	6.3	CALEPA
010595-95-6	Nitrosomethylethylamine, N-	Winter 2015	SVOC	0	0					22	IRIS	6.3	CALEPA

CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDOC	RFDOCREF	RFCIC	RFCICREF	SFO	SFOREF	IUR	IURREF
011071-15-1	Antimony Potassium Tartrate	Change Effect	XXXX	1	E	E		E		E		E	
		Spring 2015	ORGANIC	0	0	0.0009	HEAST						
011071-15-1	Antimony Potassium Tartrate	Winter 2015	INORGANIC	0	0	0.0009	HEAST						
		Change Effect	XXXXXXXXXX.	E	E	E		E		E		E	
011096-82-5	Aroclor 1260	Spring 2015	PCB	1	0					2	SURROGATE	0.571429	SURROGATE
011096-82-5	Aroclor 1260	Winter 2015	PCB	0	0					2	SURROGATE	0.571429	SURROGATE
		Change Effect		1	E	E		E		E		E	
011097-69-1	Aroclor 1254	Spring 2015	PCB	1	0	0.00002	IRIS			2	SURROGATE	0.571429	SURROGATE
011097-69-1	Aroclor 1254	Winter 2015	PCB	0	0	0.00002	IRIS			2	SURROGATE	0.571429	SURROGATE
		Change Effect		1	E	E		E		E		E	
011126-42-4	Aroclor 5460	Spring 2015	PCB	1	0	0.0006	SCREEN						
011126-42-4	Aroclor 5460	Winter 2015	PCB	0	0	0.0006	SCREEN						
		Change Effect		1	E	E		E		E		E	
012672-29-6	Aroclor 1248	Spring 2015	PCB	1	0					2	SURROGATE	0.571429	SURROGATE
012672-29-6	Aroclor 1248	Winter 2015	PCB	0	0					2	SURROGATE	0.571429	SURROGATE
		Change Effect		1	E	E		E		E		E	
012674-11-2	Aroclor 1016	Spring 2015	PCB	1	0	0.00007	IRIS			0.07	SURROGATE	0.02	SURROGATE
012674-11-2	Aroclor 1016	Winter 2015	PCB	0	0	0.00007	IRIS			0.07	SURROGATE	0.02	SURROGATE
		Change Effect		1	E	E		E		E		E	
012789-03-6	Chlordane	Spring 2015	PEST	1	0	0.0005	IRIS	0.0007	IRIS	0.35	IRIS	0.1	IRIS
012789-03-6	Chlordane	Winter 2015	PEST	0	0	0.0005	IRIS	0.0007	IRIS	0.35	IRIS	0.1	IRIS
		Change Effect		1	E	E		E		E		E	
013071-79-9	Terbufos	Spring 2015	PEST	1	0	0.000025	HEAST						
013071-79-9	Terbufos	Winter 2015	PEST	0	0	0.000025	HEAST						
		Change Effect		1	E	E		E		E		E	
013463-39-3	Nickel Carbonyl	Spring 2015	VOC	1	0	0.011	CALEPA	0.000014	CALEPA			0.26	CALEPA
013463-39-3	Nickel Carbonyl	Winter 2015	INORGANIC	0	0	0.011	CALEPA	0.000014	CALEPA			0.26	CALEPA
		Change Effect	XXXXXXXXXX.	1	E	E		E		E		E	
019408-74-3	HxCDD, 1,2,3,7,8,9-	Spring 2015	DIOXIN	1	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
019408-74-3	HxCDD, 1,2,3,7,8,9-	Winter 2015	DIOXIN	0	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
		Change Effect		1	E	E		E		E		E	
026399-36-0	Profluralin	Spring 2015	VOC	1	0	0.006	HEAST						
026399-36-0	Profluralin	Winter 2015	SVOC	0	0	0.006	HEAST						
		Change Effect	XXXX	1	E	E		E		E		E	
031508-00-6	Pentachlorobiphenyl, 2,3',4,4',5'- (PCB 118)	Spring 2015	PCB	1	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
031508-00-6	Pentachlorobiphenyl, 2,3',4,4',5'- (PCB 118)	Winter 2015	PCB	0	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
		Change Effect		1	E	E		E		E		E	
032598-14-4	Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	Spring 2015	PCB	1	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
032598-14-4	Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	Winter 2015	PCB	0	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
		Change Effect		1	E	E		E		E		E	
032774-16-6	Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	Spring 2015	PCB	1	0	2.3333E-08	WHO/TEF	1.333E-06	WHO/TEF	3900	WHO/TEF	1140	WHO/TEF
032774-16-6	Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	Winter 2015	PCB	0	0	2.3333E-08	WHO/TEF	1.333E-06	WHO/TEF	3900	WHO/TEF	1140	WHO/TEF
		Change Effect		1	E	E		E		E		E	
033820-53-0	Isopropalin	Spring 2015	VOC	1	0	0.015	IRIS						
033820-53-0	Isopropalin	Winter 2015	SVOC	0	0	0.015	IRIS						
		Change Effect	XXXX	1	E	E		E		E		E	



CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDOC	RFDOCREF	RFCIC	RFICREF	SFO	SFOREF	IUR	IURREF
035822-46-9	HCDD, 1,2,3,4,6,7,8,-	Spring 2015	DIOXIN	1	0	0.000001	CALEPA	0.000004	CALEPA	1300	CALEPA	380	CALEPA
035822-46-9	HCDD, 1,2,3,4,6,7,8,-	Winter 2015	DIOXIN	0	0	0.000001	CALEPA	0.000004	CALEPA	1300	CALEPA	380	CALEPA
		Change Effect		1	E	E	E	E	E	E	E	E	E
037871-00-4	HpCDD, 2,3,7,8-	Spring 2015	DIOXIN	1	0	0.00000007	WHO/TEF	0.000004	WHO/TEF	1300	WHO/TEF	380	WHO/TEF
037871-00-4	HpCDD, 2,3,7,8-	Winter 2015	DIOXIN	0	0	0.00000007	WHO/TEF	0.000004	WHO/TEF	1300	WHO/TEF	380	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
038380-08-4	Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 156)	Spring 2015	PCB	1	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
038380-08-4	Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 156)	Winter 2015	PCB	0	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
038998-75-3	HpCDF, 2,3,7,8-	Spring 2015	FURAN	1	0	0.00000007	WHO/TEF	0.000004	WHO/TEF	1300	WHO/TEF	380	WHO/TEF
038998-75-3	HpCDF, 2,3,7,8-	Winter 2015	FURAN	0	0	0.00000007	WHO/TEF	0.000004	WHO/TEF	1300	WHO/TEF	380	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
039227-28-6	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	Spring 2015	DIOXIN	1	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
039227-28-6	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	Winter 2015	DIOXIN	0	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
039635-31-9	Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	Spring 2015	PCB	1	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
039635-31-9	Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	Winter 2015	PCB	0	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
040321-76-4	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	Spring 2015	DIOXIN	1	0	7E-10	WHO/TEF	4E-08	WHO/TEF	130000	WHO/TEF	38000	WHO/TEF
040321-76-4	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	Winter 2015	DIOXIN	0	0	7E-10	WHO/TEF	4E-08	WHO/TEF	130000	WHO/TEF	38000	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
051207-31-9	TCDF, 2,3,7,8-	Spring 2015	FURAN	1	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
051207-31-9	TCDF, 2,3,7,8-	Winter 2015	FURAN	0	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
052663-72-6	Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	Spring 2015	PCB	1	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
052663-72-6	Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	Winter 2015	PCB	0	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
053469-21-9	Aroclor 1242	Spring 2015	PCB	1	0					2	SURROGATE	0.571429	SURROGATE
053469-21-9	Aroclor 1242	Winter 2015	PCB	0	0					2	SURROGATE	0.571429	SURROGATE
		Change Effect		1	E	E	E	E	E	E	E	E	E
055673-89-7	HpCDF, 1,2,3,4,7,8,9-	Spring 2015	FURAN	1	0	0.00000007	WHO/TEF	0.000004	WHO/TEF	1300	WHO/TEF	380	WHO/TEF
055673-89-7	HpCDF, 1,2,3,4,7,8,9-	Winter 2015	FURAN	0	0	0.00000007	WHO/TEF	0.000004	WHO/TEF	1300	WHO/TEF	380	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
057117-44-9	HxCDF, 1,2,3,6,7,8-	Spring 2015	FURAN	1	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
057117-44-9	HxCDF, 1,2,3,6,7,8-	Winter 2015	FURAN	0	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
057465-28-8	Pentachlorobiphenyl, 3,3',4,4',5'- (PCB 126)	Spring 2015	PCB	1	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
057465-28-8	Pentachlorobiphenyl, 3,3',4,4',5'- (PCB 126)	Winter 2015	PCB	0	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
057653-85-7	HxCDD, 1,2,3,6,7,8-	Spring 2015	DIOXIN	1	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
057653-85-7	HxCDD, 1,2,3,6,7,8-	Winter 2015	DIOXIN	0	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
060851-34-5	HxCDF, 2,3,4,6,7,8-	Spring 2015	FURAN	1	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
060851-34-5	HxCDF, 2,3,4,6,7,8-	Winter 2015	FURAN	0	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
		Change Effect		1	E	E	E	E	E	E	E	E	E
065510-44-3	Pentachlorobiphenyl, 2',3,4,4',5'- (PCB 123)	Spring 2015	PCB	1	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF



CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDOC	RFDOCREF	RFCIC	RFCICREF	SFO	SFOREF	IUR	IURREF
065510-44-3	Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	Winter 2015	PCB	0	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
		Change Effect		1	E	E		E		E		E	
067562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	Spring 2015	FURAN	1	0	0.00000007	WHO/TEF	0.000004	WHO/TEF	1300	WHO/TEF	380	WHO/TEF
067562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	Winter 2015	FURAN	0	0	0.00000007	WHO/TEF	0.000004	WHO/TEF	1300	WHO/TEF	380	WHO/TEF
		Change Effect		1	E	E		E		E		E	
069782-90-7	Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	Spring 2015	PCB	1	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
069782-90-7	Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	Winter 2015	PCB	0	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
		Change Effect		1	E	E		E		E		E	
070362-50-4	Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	Spring 2015	PCB	1	0	2.3333E-06	WHO/TEF	0.0001333	WHO/TEF	39	WHO/TEF	11.4	WHO/TEF
070362-50-4	Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	Winter 2015	PCB	0	0	2.3333E-06	WHO/TEF	0.0001333	WHO/TEF	39	WHO/TEF	11.4	WHO/TEF
		Change Effect		1	E	E		E		E		E	
070648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8-	Spring 2015	FURAN	1	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
070648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8-	Winter 2015	FURAN	0	0	7E-09	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
		Change Effect		1	E	E		E		E		E	
074472-37-0	Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	Spring 2015	PCB	1	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
074472-37-0	Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	Winter 2015	PCB	0	0	0.0000233	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
		Change Effect		1	E	E		E		E		E	