CAS	Chemical	Type of Observation	vol	mutagen	GIABS	ABS	Csat (mg/kg)	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	SFO $(mg/kg\text{-}day)^{-1}$	key	IUR $(ug/m3)^{-1}$	key	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
30560-19-1	Acephate	Spring 2016			1	0.1		0.004	I			0.0087	I			25	n	260	c**					8	n		0.0018	
30560-19-1	Acephate	Spring 2017			1	0.1		0.0012	O							7.6	n	98	n					2.4	n		0.00053	
	Acephate	Change Effect		.				-0.0028	X				X			-17.4	.	-162	XXX		.		.	-5.6	.		-0.00127	
95-55-6	Aminophenol, o-	Spring 2017			1	0.1		0.004	X							25	n	330	n					7.9	n		0.003	
7664-41-7	Ammonia	Spring 2016	V		1					0.1	I									10	n	44	n					
7664-41-7	Ammonia	Spring 2017	V		1					0.5	I									52	n	220	n					
	Ammonia	Change Effect		.						0.4							.		.	42	.	176	.		.			
3337-71-1	Asulam	Spring 2016			1	0.1		0.05	I							320	n	4100	n					100	n		0.026	
3337-71-1	Asulam	Spring 2017			1	0.1		0.036	O							230	n	3000	n					72	n		0.018	
	Asulam	Change Effect		.				-0.014	X							-90	.	-1100	.		.		.	-28	.		-0.008	
1861-40-1	Benfluralin	Spring 2016	V		1			0.3	I							2300	n	35000	n					170	n		5.6	
1861-40-1	Benfluralin	Spring 2017	V		1			0.005	O							39	n	580	n					2.8	n		0.094	
	Benfluralin	Change Effect		.				-0.295	X							-2261	.	-34420	.		.		.	-167.2	.		-5.506	
1689-84-5	Bromoxynil	Spring 2016			1	0.1		0.02	I							130	n	1600	n					33	n		0.028	
1689-84-5	Bromoxynil	Spring 2017			1	0.1		0.015	O			0.1	O			5.3	c*	22	c*					0.61	c*		0.00052	
	Bromoxynil	Change Effect		.				-0.005	X				X			-124.7	XX	-1578	XX		.		.	-32.39	XX		-0.02748	
1689-99-2	Bromoxynil Octanoate	Spring 2016	V		1			0.02	I							160	n	2300	n					14	n		0.12	
1689-99-2	Bromoxynil Octanoate	Spring 2017	V		1			0.015	O							120	n	1800	n					10	n		0.09	
	Bromoxynil Octanoate	Change Effect		.				-0.005	X							-40	.	-500	.		.		.	-4	.		-0.03	
94-82-6	Butanoic acid, 4-(2,4-dichlorophenoxy)-	Spring 2017			1	0.1		0.03	O							190	n	2500	n					45	n		0.042	
90982-32-4	Chlorimuron, Ethyl-	Spring 2016			1	0.1		0.02	I							130	n	1600	n					39	n		0.013	
90982-32-4	Chlorimuron, Ethyl-	Spring 2017			1	0.1		0.09	O							570	n	7400	n					180	n		0.06	
	Chlorimuron, Ethyl-	Change Effect		.				0.07	X							440	.	5800	.		.		.	141	.		0.047	
98-66-8	Chlorobenzene sulfonic acid, p-	Spring 2017			1	0.1		0.1	X							630	n	8200	n					200	n		0.047	
101-21-3	Chlorpropham	Spring 2016			1	0.1		0.2	I							1300	n	16000	n					280	n		0.26	
101-21-3	Chlorpropham	Spring 2017			1	0.1		0.05	O							320	n	4100	n					71	n		0.064	
	Chlorpropham	Change Effect		.				-0.15	X							-980	.	-11900	.		.		.	-209	.		-0.196	
64902-72-3	Chlorsulfuron	Spring 2016			1	0.1		0.05	I							320	n	4100	n					99	n		0.083	
64902-72-3	Chlorsulfuron	Spring 2017			1	0.1		0.02	O							130	n	1600	n					39	n		0.033	
	Chlorsulfuron	Change Effect		.				-0.03	X							-190	.	-2500	.		.		.	-60	.		-0.05	
18540-29-9	Chromium(VI)	Spring 2016		M	0.025			0.003	I	0.0001	I	0.5	J	0.084	S	0.3	c*	6.3	c*	0.000012	c	0.00015	c	0.035	c		0.00067	
18540-29-9	Chromium(VI)	Spring 2017		M	0.025			0.003	I	0.0001	I	0.5	C	0.084	S	0.3	c*	6.3	c*	0.000012	c	0.00015	c	0.035	c		0.00067	
	Chromium(VI)	Change Effect		.									X				.		.		.		.		.			
87-84-3	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	Spring 2016			1	0.1						0.023	H			24	c	100	c					2.4	c		0.014	
87-84-3	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	Spring 2017			1	0.1		0.02	X			0.02	X			27	c**	110	c*					2.8	c*		0.016	
	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	Change Effect		.					X			-0.003	X			3	.XX	10	.X		.		.	0.4	.X		0.002	
68085-85-8	Cyhalothrin	Spring 2016			1	0.1		0.005	I							32	n	410	n					10	n		6.8	
68085-85-8	Cyhalothrin	Spring 2017			1	0.1		0.001	O							6.3	n	82	n					2	n		1.4	
	Cyhalothrin	Change Effect		.				-0.004	X							-25.7	.	-328	.		.		.	-8	.		-5.4	
52315-07-8	Cypermethrin	Spring 2016			1	0.1		0.01	I							63	n	820	n					20	n		3.2	
52315-07-8	Cypermethrin	Spring 2017			1	0.1		0.06	O							380	n	4900	n					120	n		19	
	Cypermethrin	Change Effect		.				0.05	X							317	.	4080	.		.		.	100	.		15.8	
66215-27-8	Cyromazine	Spring 2016			1	0.1		0.0075	I							47	n	620	n					15	n		0.0038	
66215-27-8	Cyromazine	Spring 2017			1	0.1		0.015	O							95	n	1200	n					30	n		0.0076	
	Cyromazine	Change Effect		.				0.0075	X							48	.	580	.		.		.	15	.		0.0038	
NA	Dibutyltin Compounds	Spring 2016			1	0.1		0.0003	P							1.9	n	25	n					0.6	n			
E1790660	Dibutyltin Compounds	Spring 2017			1	0.1		0.0003	P							1.9	n	25	n					0.6	n			
XXXXXXXX	Dibutyltin Compounds	Change Effect		.													.		.		.		.		.			
94-82-6	Dichlorophenoxy)butyric Acid, 4-(2,4-	Spring 2016			1	0.1		0.008	I							51	n	660	n					12	n		0.011	
78-87-5	Dichloropropane, 1,2-	Spring 2016	V		1		1360	0.09	A	0.004	I	0.036	C	0.00001	C	1	c**	4.4	c**	0.28	c**	1.2	c**	0.44	c**	5	0.00015	0.0017
78-87-5	Dichloropropane, 1,2-	Spring 2017	V		1		1360	0.04	P	0.004	I	0.037	P	0.000037	P	0.28	c**	1.2	c**	0.076	c**	0.33	c**	0.14	c**	5	0.000047	0.0017
	Dichloropropane, 1,2-	Change Effect		.				-0.05	X			0.001	X		X	-0.72	.	-3.2	.	-0.204	.	-0.87	.	-0.3	.		-0.000103	
141-66-2	Dicrotophos	Spring 2016			1	0.1		0.0001	I							0.63	n	8.2	n					0.2	n		0.000047	
141-66-2	Dicrotophos	Spring 2017			1	0.1		0.00007	O							0.44	n	5.7	n					0.14	n		0.000033	
	Dicrotophos	Change Effect		.					X							-0.19	.	-2.5	.		.		.	-0.06	.			
NA	Diesel Engine Exhaust	Spring 2016			1	0.1				0.005	I			0.0003	C					0.0094	c*	0.041	c*					
E17136615	Diesel Engine Exhaust	Spring 2017			1	0.1				0.005	I			0.0003	C					0.0094	c*	0.041	c*					
XXXXXXXXX	Diesel Engine Exhaust	Change Effect		.													.		.		.		.		.			
43222-48-6	Difenzoquat	Spring 2016			1	0.1		0.08	I							510	n	6600	n					160	n		25	
43222-48-6	Difenzoquat	Spring 2017			1	0.1		0.083	O							520	n	6800	n					170	n		26	
	Difenzoquat	Change Effect		.				0.003	X							10	.	200	.		.		.	10	.		1	
55290-64-7	Dimethipin	Spring 2016			1	0.1		0.02	I							130	n	1600	n					40	n		0.0088	
55290-64-7	Dimethipin	Spring 2017			1	0.1		0.022	O							140	n	1800	n					44	n		0.0096	
	Dimethipin	Change Effect		.				0.002	X							10	.	200	.		.		.	4	.		0.0008	
60-51-5	Dimethoate	Spring 2016			1	0.1		0.0002	I							1.3	n	16	n					0.4	n		0.00009	
60-51-5	Dimethoate	Spring 2017			1	0.1		0.0022	O							14	n	180	n					4.4	n		0.00099	
	Dimethoate	Change Effect		.				0.002	X							12.7	.	164	.		.		.	4	.		0.0009	
121-69-7	Dimethylaniline, N,N-	Spring 2016	V		1		830	0.002	I							16	n	230	n					3.5	n		0.0013	
121-69-7	Dimethylaniline, N,N-	Spring 2017	V		1		830	0.002	I			0.027	P			16	n	120	c**					2.5	c**		0.0009	
	Dimethylaniline, N,N-	Change Effect		.									X				.	-110	XXX		.		.	-1	XXX		-0.0004	
NA	Dinitrotoluene Mixture, 2,4/2,6-	Spring 2016			1	0.1						0.68	I			0.8	c	3.4	c					0.11	c		0.00015	
E1615210	Dinitrotoluene Mixture, 2,4/2,6-	Spring 2017			1	0.1						0.68	I			0.8	c	3.4	c					0.11	c		0.00015	

CAS	Chemical	Type of Observation	vol	mutagen	GIABS	ABS	Csat (mg/kg)	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	SFO $(mg/kg\text{-}day)^{-1}$	key	IUR $(ug/m3)^{-1}$	key	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
XXXXXXXX	Dinitrotoluene Mixture, 2,4/2,6-	Change Effect		.												.		.										
122-39-4	Diphenylamine	Spring 2016			1	0.1		0.025	I							160	n	2100	n					31	n		0.058	
122-39-4	Diphenylamine	Spring 2017			1	0.1		0.1	O							630	n	8200	n					130	n		0.23	
	Diphenylamine	Change Effect		.				0.075	X							470	.	6100	.		.		.	99	.		0.172	
2439-10-3	Dodine	Spring 2016			1	0.1		0.004	I							25	n	330	n					8	n		0.041	
2439-10-3	Dodine	Spring 2017			1	0.1		0.02	O							130	n	1600	n					40	n		0.21	
	Dodine	Change Effect		.				0.016	X							105	.	1270	.		.		.	32	.		0.169	
759-94-4	EPTC	Spring 2016	V		1			0.025	I							200	n	2900	n					38	n		0.02	
759-94-4	EPTC	Spring 2017	V		1			0.05	O							390	n	5800	n					75	n		0.04	
	EPTC	Change Effect		.				0.025	X							190	.	2900	.		.		.	37	.		0.02	
75-21-8	Ethylene Oxide	Spring 2016	V		1		121000			0.03	C	0.31	C	0.000088	C	0.18	c	0.79	c	0.032	c*	0.14	c*	0.051	c		0.000011	
75-21-8	Ethylene Oxide	Spring 2017	V	M	1		121000			0.03	C	0.31	C	0.003	I	0.002	c	0.025	c	0.00034	c	0.0041	c	0.00067	c		0.00000014	
	Ethylene Oxide	Change Effect		X.										0.002912	X	-0.178	.	-0.765	.	-0.03166	.X	-0.1359	.X	-0.05033	.			
56425-91-3	Flurprimidol	Spring 2016			1	0.1		0.02	I							130	n	1600	n					34	n		0.16	
56425-91-3	Flurprimidol	Spring 2017			1	0.1		0.015	O							95	n	1200	n					26	n		0.12	
	Flurprimidol	Change Effect		.				-0.005	X							-35	.	-400	.		.		.	-8	.		-0.04	
85509-19-9	Flusilazole	Spring 2016			1	0.1		0.0007	I							4.4	n	57	n					1.1	n		0.18	
85509-19-9	Flusilazole	Spring 2017			1	0.1		0.002	O							13	n	160	n					3.1	n		0.51	
	Flusilazole	Change Effect		.				0.0013	X							8.6	.	103	.		.		.	2	.		0.33	
66332-96-5	Flutolanil	Spring 2016			1	0.1		0.06	I							380	n	4900	n					95	n		0.5	
66332-96-5	Flutolanil	Spring 2017			1	0.1		0.5	O							3200	n	41000	n					790	n		4.2	
	Flutolanil	Change Effect		.				0.44	X							2820	.	36100	.		.		.	695	.		3.7	
133-07-3	Folpet	Spring 2016			1	0.1		0.1	I			0.0035	I			160	c**	660	c*					20	c**		0.0047	
133-07-3	Folpet	Spring 2017			1	0.1		0.09	O							570	n	7400	n					160	n		0.039	
	Folpet	Change Effect		.				-0.01	X				X			410	XXX	6740	XX		.		.	140	XXX		0.0343	
72178-02-0	Fomesafen	Spring 2016			1	0.1						0.19	I			2.9	c	12	c					0.39	c		0.0013	
72178-02-0	Fomesafen	Spring 2017			1	0.1		0.0025	O							16	n	210	n					4.8	n		0.016	
	Fomesafen	Change Effect		.					X				X			13.1	X	198	X		.		.	4.41	X		0.0147	
39148-24-8	Fosetyl-AL	Spring 2016			1	0.1		3	I							19000	n	250000	nm					6000	n		79	
39148-24-8	Fosetyl-AL	Spring 2017			1	0.1		2.5	O							16000	n	210000	nm					5000	n		66	
	Fosetyl-AL	Change Effect		.				-0.5	X							-3000	.	-40000	.		.		.	-1000	.		-13	
77182-82-2	Glufosinate, Ammonium	Spring 2016			1	0.1		0.0004	I							2.5	n	33	n					0.8	n		0.00018	
77182-82-2	Glufosinate, Ammonium	Spring 2017			1	0.1		0.006	O							38	n	490	n					12	n		0.0026	
	Glufosinate, Ammonium	Change Effect		.				0.0056	X							35.5	.	457	.		.		.	11.2	.		0.00242	
506-93-4	Guanidine Nitrate	Spring 2017			1	0.1		0.03	X							190	n	2500	n					60	n		0.015	
142-82-5	Heptane, N-	Spring 2017	V		1		57.9	0.0003	X	0.4	P					2.2	n	29	n	42	n	180	n	0.6	n		0.0048	
67485-29-4	Hydramethylnon	Spring 2016			1	0.1		0.0003	I							1.9	n	25	n					0.59	n		210	
67485-29-4	Hydramethylnon	Spring 2017			1	0.1		0.017	O							110	n	1400	n					34	n		12000	
	Hydramethylnon	Change Effect		.				0.0167	X							108.1	.	1375	.		.		.	33.41	.		11790	
35554-44-0	Imazalil	Spring 2016			1	0.1		0.013	I							82	n	1100	n					19	n		0.32	
35554-44-0	Imazalil	Spring 2017			1	0.1		0.0025	O			0.061	O			8.9	c**	38	c**					0.9	c**		0.015	
	Imazalil	Change Effect		.				-0.0105	X				X			-73.1	XXX	-1062	XXX		.		.	-18.1	XXX		-0.305	
81335-77-5	Imazethapyr	Spring 2016			1	0.1		0.25	I							1600	n	21000	n					470	n		0.41	
81335-77-5	Imazethapyr	Spring 2017			1	0.1		2.5	O							16000	n	210000	nm					4700	n		4.1	
	Imazethapyr	Change Effect		.				2.25	X							14400	.	189000	.X		.		.	4230	.		3.69	
NA	JP-7	Spring 2016	V		1					0.3	A					43000000	nm	180000000	nm	31	n	130	n	63	n			
E1737665	JP-7	Spring 2017	V		1					0.3	A					43000000	nm	180000000	nm	31	n	130	n	63	n			
XXXXXXXX	JP-7	Change Effect		.													.		.		.		.		.			
77501-63-4	Lactofen	Spring 2016			1	0.1		0.002	I							13	n	160	n					2.5	n		0.12	
77501-63-4	Lactofen	Spring 2017			1	0.1		0.008	O							51	n	660	n					10	n		0.46	
	Lactofen	Change Effect		.				0.006	X							38	.	500	.		.		.	7.5	.		0.34	
330-55-2	Linuron	Spring 2016			1	0.1		0.002	I							13	n	160	n					3.3	n		0.0029	
330-55-2	Linuron	Spring 2017			1	0.1		0.0077	O							49	n	630	n					13	n		0.011	
	Linuron	Change Effect		.				0.0057	X							36	.	470	.		.		.	9.7	.		0.0081	
94-81-5	MCPB	Spring 2016			1	0.1		0.01	I							63	n	820	n					15	n		0.0058	
94-81-5	MCPB	Spring 2017			1	0.1		0.0044	O							28	n	360	n					6.5	n		0.0026	
	MCPB	Change Effect		.				-0.0056	X							-35	.	-460	.		.		.	-8.5	.		-0.0032	
149-30-4	Mercaptobenzothiazole, 2-	Spring 2017			1	0.1		0.004	P			0.011	P			25	n	210	c**					6.3	c**		0.018	
78-48-8	Merphos Oxide	Spring 2016			1	0.1		0.00003	I							0.19	n	2.5	n					0.0085	n		0.000042	
78-48-8	Merphos Oxide	Spring 2017			1	0.1		0.0001	O							0.63	n	8.2	n					0.028	n		0.00014	
	Merphos Oxide	Change Effect		.					X							0.44	.	5.7	.		.		.	0.0195	.			
950-37-8	Methidathion	Spring 2016			1	0.1		0.001	I							6.3	n	82	n					1.9	n		0.00047	
950-37-8	Methidathion	Spring 2017			1	0.1		0.0015	O							9.5	n	120	n					2.9	n		0.00071	
	Methidathion	Change Effect		.				0.0005	X							3.2	.	38	.		.		.	1	.		0.00024	
15299-99-7	Napropamide	Spring 2016			1	0.1		0.1	I							630	n	8200	n					160	n		1.1	
15299-99-7	Napropamide	Spring 2017			1	0.1		0.12	O							760	n	9800	n					200	n		1.3	
	Napropamide	Change Effect		.				0.02	X							130	.	1600	.		.		.	40	.		0.2	
NA	Nickel Refinery Dust	Spring 2016			0.04			0.011	C	1.4E-05	C			0.00024	I	82	n	1100	n	0.0015	n	0.0061	n	22	n		3.2	
E715532	Nickel Refinery Dust	Spring 2017			0.04			0.011	C	1.4E-05	C			0.00024	I	82	n	1100	n	0.0015	n	0.0061	n	22	n		3.2	
XXXXXXX	Nickel Refinery Dust	Change Effect		.													.		.		.		.		.			
NA	Nitrate + Nitrite (as N)	Spring 2016			1																					10000		
E701177	Nitrate + Nitrite (as N)	Spring 2017			1																					10000		

CAS	Chemical	Type of Observation	vol	mutagen	GIABS	ABS	Csat (mg/kg)	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	SFO $(mg/kg\text{-}day)^{-1}$	key	IUR $(ug/m3)^{-1}$	key	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
XXXXXXX	Nitrate + Nitrite (as N)	Change Effect		.													.		.		.		.		.			
27314-13-2	Norflurazon	Spring 2016			1	0.1		0.04	I							250	n	3300	n					77	n		0.5	
27314-13-2	Norflurazon	Spring 2017			1	0.1		0.015	O							95	n	1200	n					29	n		0.19	
	Norflurazon	Change Effect		.				-0.025	X							-155	.	-2100	.		.		.	-48	.		-0.31	
19044-88-3	Oryzalin	Spring 2016			1	0.1		0.05	I							320	n	4100	n					81	n		0.15	
19044-88-3	Oryzalin	Spring 2017			1	0.1		0.14	O			0.0078	O			70	c*	290	c*					7.9	c*		0.015	
	Oryzalin	Change Effect		.				0.09	X				X			-250	XX	-3810	XX		.		.	-73.1	XX		-0.135	
42874-03-3	Oxyfluorfen	Spring 2016			1	0.1		0.003	I							19	n	250	n					3.2	n		0.25	
42874-03-3	Oxyfluorfen	Spring 2017			1	0.1		0.03	O			0.073	O			7.4	c*	31	c*					0.54	c*		0.043	
	Oxyfluorfen	Change Effect		.				0.027	X				X			-11.6	XX	-219	XX		.		.	-2.66	XX		-0.207	
40487-42-1	Pendimethalin	Spring 2016			1	0.1		0.04	I							250	n	3300	n					18	n		0.21	
40487-42-1	Pendimethalin	Spring 2017			1	0.1		0.03	O							190	n	2500	n					14	n		0.16	
	Pendimethalin	Change Effect		.				-0.01	X							-60	.	-800	.		.		.	-4	.		-0.05	
375-73-5	Perfluorobutane Sulfonate	Spring 2016	V		1			0.02	P							160	n	2300	n					38	n		0.021	
375-73-5	Perfluorobutane sulfonic acid (PFBS)	Spring 2017			1	0.1		0.02	P							130	n	1600	n					40	n		0.013	
45187-15-3	Perfluorobutanesulfonate	Spring 2017			1	0.1		0.02	P							130	n	1600	n					40	n		0.013	
13684-63-4	Phenmedipham	Spring 2016			1	0.1		0.25	I							1600	n	21000	n					400	n		2.1	
13684-63-4	Phenmedipham	Spring 2017			1	0.1		0.24	O							1500	n	20000	n					380	n		2.1	
	Phenmedipham	Change Effect		.				-0.01	X							-100	.	-1000	.		.		.	-20	.			
103-72-0	Phenyl Isothiocyanate	Spring 2017	V		1		129	0.0002	X							1.6	n	23	n					0.26	n		0.00017	
95-54-5	Phenylenediamine, o-	Spring 2016			1	0.1						0.047	H			12	c	49	c					1.6	c		0.00044	
95-54-5	Phenylenediamine, o-	Spring 2017			1	0.1		0.004	P			0.12	P			4.5	c**	19	c*					0.65	c*		0.00017	
	Phenylenediamine, o-	Change Effect		.					X			0.073	X			-7.5	.XX	-30	.X		.		.	-0.95	.X		-0.00027	
106-50-3	Phenylenediamine, p-	Spring 2016			1	0.1		0.19	H							1200	n	16000	n					380	n		0.1	
106-50-3	Phenylenediamine, p-	Spring 2017			1	0.1		0.001	X							6.3	n	82	n					2	n		0.00054	
	Phenylenediamine, p-	Change Effect		.				-0.189	X							-1193.7	.	-15918	.		.		.	-378	.		-0.09946	
29232-93-7	Pirimiphos, Methyl	Spring 2016			1	0.1		0.01	I							63	n	820	n					12	n		0.012	
29232-93-7	Pirimiphos, Methyl	Spring 2017			1	0.1		0.000067	O							0.42	n	5.5	n					0.081	n		0.000077	
	Pirimiphos, Methyl	Change Effect		.				-0.009933	X							-62.58	.	-814.5	.		.		.	-11.919	.		-0.011923	
29420-49-3	Potassium Perfluorobutane Sulfonate	Spring 2016			1	0.1		0.02	P							130	n	1600	n					40	n		0.022	
29420-49-3	Potassium Perfluorobutane Sulfonate	Spring 2017			1	0.1		0.02	P							130	n	1600	n					40	n			
	Potassium Perfluorobutane Sulfonate	Change Effect		.													.		.		.		.		.			
7287-19-6	Prometryn	Spring 2016			1	0.1		0.004	I							25	n	330	n					6	n		0.009	
7287-19-6	Prometryn	Spring 2017			1	0.1		0.04	O							250	n	3300	n					60	n		0.09	
	Prometryn	Change Effect		.				0.036	X							225	.	2970	.		.		.	54	.		0.081	
2312-35-8	Propargite	Spring 2016			1	0.1		0.02	I							130	n	1600	n					16	n		1.2	
2312-35-8	Propargite	Spring 2017			1	0.1		0.04	O			0.033	O			17	c*	70	c*					0.92	c*		0.068	
	Propargite	Change Effect		.				0.02	X				X			-113	XX	-1530	XX		.		.	-15.08	XX		-1.132	
60207-90-1	Propiconazole	Spring 2016			1	0.1		0.013	I							82	n	1100	n					21	n		0.069	
60207-90-1	Propiconazole	Spring 2017			1	0.1		0.1	O							630	n	8200	n					160	n		0.53	
	Propiconazole	Change Effect		.				0.087	X							548	.	7100	.		.		.	139	.		0.461	
NA	Refractory Ceramic Fibers	Spring 2016			1					0.03	A					4300000	nm	18000000	nm	3.1	n	13	n					
E715557	Refractory Ceramic Fibers	Spring 2017			1					0.03	A					4300000	nm	18000000	nm	3.1	n	13	n					
XXXXXXX	Refractory Ceramic Fibers	Change Effect		.													.		.		.		.		.			
74051-80-2	Sethoxydim	Spring 2016			1	0.1		0.09	I							570	n	7400	n					100	n		0.93	
74051-80-2	Sethoxydim	Spring 2017			1	0.1		0.14	O							880	n	11000	n					160	n		1.4	
	Sethoxydim	Change Effect		.				0.05	X							310	.	3600	.		.		.	60	.		0.47	
NA	Styrene-Acrylonitrile (SAN) Trimer	Spring 2016			1	0.1		0.003	P							19	n	250	n					4.8	n			
	Styrene-Acrylonitrile (SAN) Trimer	Spring 2017			1	0.1		0.003	P							19	n	250	n					4.8	n			
XX	Styrene-Acrylonitrile (SAN) Trimer	Change Effect		.													.		.		.		.		.			
79277-27-3	Thifensulfuron-methyl	Spring 2016			1	0.1		0.013	I							82	n	1100	n					26	n		0.0078	
79277-27-3	Thifensulfuron-methyl	Spring 2017			1	0.1		0.043	O							270	n	3500	n					86	n		0.026	
	Thifensulfuron-methyl	Change Effect		.				0.03	X							188	.	2400	.		.		.	60	.		0.0182	
23564-05-8	Thiophanate, Methyl	Spring 2016			1	0.1		0.08	I							510	n	6600	n					160	n		0.14	
23564-05-8	Thiophanate, Methyl	Spring 2017			1	0.1		0.027	O			0.012	O			47	c**	200	c*					6.7	c**		0.0057	
	Thiophanate, Methyl	Change Effect		.				-0.053	X				X			-463	XXX	-6400	XX		.		.	-153.3	XXX		-0.1343	
137-26-8	Thiram	Spring 2016			1	0.1		0.005	I							32	n	410	n					9.8	n		0.014	
137-26-8	Thiram	Spring 2017			1	0.1		0.015	O							95	n	1200	n					29	n		0.042	
	Thiram	Change Effect		.				0.01	X							63	.	790	.		.		.	19.2	.		0.028	
584-84-9	Toluene-2,4-diisocyanate	Spring 2017	V		1					8E-06	C			0.000011	C	0.64	n	2.7	n	0.00083	n	0.0035	n	0.0017	n		0.000025	
584-84-9	Toluene-2,4-diisocyanate	Spring 2016	V		1					8E-06	C			0.000011	C	0.64	n	2.7	n	0.00083	n	0.0035	n	0.0017	n		0.000025	
91-08-7	Toluene-2,6-diisocyanate	Spring 2017	V		1		1710			8E-06	C			0.000011	C	0.53	n	2.2	n	0.00083	n	0.0035	n	0.0017	n		0.000026	
91-08-7	Toluene-2,6-diisocyanate	Spring 2016	V		1		1710			8E-06	C			0.000011	C	0.53	n	2.2	n	0.00083	n	0.0035	n	0.0017	n		0.000026	
NA	Total Petroleum Hydrocarbons (Aliphatic High)	Spring 2016	V		1		0.342	3	P							23000	ns	350000	nms					6000	n		240	
E1790670	Total Petroleum Hydrocarbons (Aliphatic High)	Spring 2017	V		1		0.342	3	P							23000	ns	350000	nms					6000	n		240	
XXXXXXXX	Total Petroleum Hydrocarbons (Aliphatic High)	Change Effect		.													.		.		.		.		.			
NA	Total Petroleum Hydrocarbons (Aliphatic Low)	Spring 2016	V		1		141			0.6	P					52	n	220	ns	63	n	260	n	130	n		0.88	
E1790666	Total Petroleum Hydrocarbons (Aliphatic Low)	Spring 2017	V		1		141			0.6	P					52	n	220	ns	63	n	260	n	130	n		0.88	
XXXXXXXX	Total Petroleum Hydrocarbons (Aliphatic Low)	Change Effect		.													.		.		.		.		.			
NA	Total Petroleum Hydrocarbons (Aliphatic Medium)	Spring 2016	V		1		6.86	0.01	X	0.1	P					9.6	ns	44	ns	10	n	44	n	10	n		0.15	
E1790668	Total Petroleum Hydrocarbons (Aliphatic Medium)	Spring 2017	V		1		6.86	0.01	X	0.1	P					9.6	ns	44	ns	10	n	44	n	10	n		0.15	
XXXXXXXX	Total Petroleum Hydrocarbons (Aliphatic Medium)	Change Effect		.													.		.		.		.		.			

CAS	Chemical	Type of Observation	vol	mutagen	GIABS	ABS	Csat (mg/kg)	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	SFO $(mg/kg\text{-}day)^{-1}$	key	IUR $(ug/m3)^{-1}$	key	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
NA	Total Petroleum Hydrocarbons (Aromatic High)	Spring 2016			1	0.1		0.04	P							250	n	3300	n					80	n		8.9	
E1790676	Total Petroleum Hydrocarbons (Aromatic High)	Spring 2017			1	0.1		0.04	P							250	n	3300	n					80	n		8.9	
XXXXXXXX	Total Petroleum Hydrocarbons (Aromatic High)	Change Effect		.													.		.		.		.					
NA	Total Petroleum Hydrocarbons (Aromatic Low)	Spring 2016	V		1		1820	0.004	P	0.03	P					8.2	n	42	n	3.1	n	13	n	3.3	n		0.0017	
E1790672	Total Petroleum Hydrocarbons (Aromatic Low)	Spring 2017	V		1		1820	0.004	P	0.03	P					8.2	n	42	n	3.1	n	13	n	3.3	n		0.0017	
XXXXXXXX	Total Petroleum Hydrocarbons (Aromatic Low)	Change Effect		.													.		.		.		.					
NA	Total Petroleum Hydrocarbons (Aromatic Medium)	Spring 2016	V		1			0.004	P	0.003	P					11	n	60	n	0.31	n	1.3	n	0.55	n		0.0023	
E1790674	Total Petroleum Hydrocarbons (Aromatic Medium)	Spring 2017	V		1			0.004	P	0.003	P					11	n	60	n	0.31	n	1.3	n	0.55	n		0.0023	
XXXXXXXX	Total Petroleum Hydrocarbons (Aromatic Medium)	Change Effect		.													.		.		.		.					
43121-43-3	Triadimefon	Spring 2016			1	0.1		0.03	I							190	n	2500	n					55	n		0.044	
43121-43-3	Triadimefon	Spring 2017			1	0.1		0.034	O							210	n	2800	n					63	n		0.05	
	Triadimefon	Change Effect		.				0.004	X							20	.	300	.		.		.	8	.		0.006	
2303-17-5	Triallate	Spring 2016	V		1			0.013	I							100	n	1500	n					12	n		0.026	
2303-17-5	Triallate	Spring 2017	V		1			0.025	O			0.072	O			9.7	c*	46	c*					0.47	c*		0.001	
	Triallate	Change Effect		.				0.012	X				X			-90.3	XX	-1454	XX		.		.	-11.53	XX		-0.025	
118-79-6	Tribromophenol, 2,4,6-	Spring 2017			1	0.1		0.009	X							57	n	740	n					12	n		0.022	
NA	Tributyltin Compounds	Spring 2016			1	0.1		0.0003	P							1.9	n	25	n					0.6	n			
E1790678	Tributyltin Compounds	Spring 2017			1	0.1		0.0003	P							1.9	n	25	n					0.6	n			
XXXXXXXX	Tributyltin Compounds	Change Effect		.													.		.		.		.					
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Spring 2016	V		1		910	30	I	30	H					4000	ns	17000	ns	3100	n	13000	n	5500	n		14	
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Spring 2017	V		1		910	30	I	5	P					670	n	2800	ns	520	n	2200	n	1000	n		2.6	
	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Change Effect		.						-25	X					-3330	.X	-14200	.	-2580	.	-10800	.	-4500	.		-11.4	
526-73-8	Trimethylbenzene, 1,2,3-	Spring 2016	V		1		293			0.005	P					4.9	n	21	n	0.52	n	2.2	n	1	n		0.0015	
526-73-8	Trimethylbenzene, 1,2,3-	Spring 2017	V		1		293	0.01	I	0.06	I					34	n	200	n	6.3	n	26	n	5.5	n		0.0081	
	Trimethylbenzene, 1,2,3-	Change Effect		.					X	0.055	X					29.1	.	179	.	5.78	.	23.8	.	4.5	.		0.0066	
95-63-6	Trimethylbenzene, 1,2,4-	Spring 2016	V		1		219			0.007	P					5.8	n	24	n	0.73	n	3.1	n	1.5	n		0.0021	
95-63-6	Trimethylbenzene, 1,2,4-	Spring 2017	V		1		219	0.01	I	0.06	I					30	n	180	n	6.3	n	26	n	5.6	n		0.0081	
	Trimethylbenzene, 1,2,4-	Change Effect		.					X	0.053	X					24.2	.	156	.	5.57	.	22.9	.	4.1	.		0.006	
108-67-8	Trimethylbenzene, 1,3,5-	Spring 2016	V		1		182	0.01	X							78	n	1200	ns					12	n		0.017	
108-67-8	Trimethylbenzene, 1,3,5-	Spring 2017	V		1		182	0.01	I	0.06	I					27	n	150	n	6.3	n	26	n	6	n		0.0087	
	Trimethylbenzene, 1,3,5-	Change Effect		.					X		X					-51	.	-1050	.X		X		X	-6	.		-0.0083	
NA	Uranium (Soluble Salts)	Spring 2016			1			0.003	I	0.00004	A					23	n	350	n	0.0042	n	0.018	n	6	n	30	2.7	14
E715565	Uranium (Soluble Salts)	Spring 2017			1			0.0002	A	0.00004	A					1.6	n	23	n	0.0042	n	0.018	n	0.4	n	30	0.18	14
XXXXXXX	Uranium (Soluble Salts)	Change Effect		.				-0.0028	X							-21.4	.	-327	.		.		.	-5.6	.		-2.52	
50471-44-8	Vinclozolin	Spring 2016			1	0.1		0.025	I							160	n	2100	n					44	n		0.034	
50471-44-8	Vinclozolin	Spring 2017			1	0.1		0.0012	O							7.6	n	98	n					2.1	n		0.0016	
	Vinclozolin	Change Effect		.				-0.0238	X							-152.4	.	-2002	.		.		.	-41.9	.		-0.0324	
56-55-3	~Benz[a]anthracene	Spring 2016	V	M	1	0.1						0.73	E	0.00011	C	0.16	c	2.9	c	0.0092	c	0.11	c	0.012	c		0.0042	
56-55-3	~Benz[a]anthracene	Spring 2017	V	M	1	0.1						0.1	E	0.00006	E	1.1	c	21	c	0.017	c	0.2	c	0.03	c		0.011	
	~Benz[a]anthracene	Change Effect		.								-0.63			X	0.94	.	18.1	.	0.0078	.	0.09	.	0.018	.		0.0068	
50-32-8	~Benzo[a]pyrene	Spring 2016		M	1	0.1						7.3	I	0.0011	C	0.016	c	0.29	c	0.00092	c	0.011	c	0.0034	c	0.2	0.004	0.24
50-32-8	~Benzo[a]pyrene	Spring 2017		M	1	0.1		0.0003	I	2E-06	I	1	I	0.0006	I	0.11	c*	2.1	c*	0.00021	n	0.00088	n	0.025	c*	0.2	0.029	0.24
	~Benzo[a]pyrene	Change Effect		.					X		X	-6.3		-0.0005	X	0.094	.X	1.81	.X	-0.00071	X	-0.01012	X	0.0216	.X		0.025	
205-99-2	~Benzo[b]fluoranthene	Spring 2016		M	1	0.1						0.73	E	0.00011	C	0.16	c	2.9	c	0.0092	c	0.11	c	0.034	c		0.041	
205-99-2	~Benzo[b]fluoranthene	Spring 2017		M	1	0.1						0.1	E	0.00006	E	1.1	c	21	c	0.017	c	0.2	c	0.25	c		0.3	
	~Benzo[b]fluoranthene	Change Effect		.								-0.63			X	0.94	.	18.1	.	0.0078	.	0.09	.	0.216	.		0.259	
207-08-9	~Benzo[k]fluoranthene	Spring 2016		M	1	0.1						0.073	E	0.00011	C	1.6	c	29	c	0.0092	c	0.11	c	0.34	c		0.4	
207-08-9	~Benzo[k]fluoranthene	Spring 2017		M	1	0.1						0.01	E	0.000006	E	11	c	210	c	0.17	c	2	c	2.5	c		2.9	
	~Benzo[k]fluoranthene	Change Effect		.								-0.063		-0.000104	X	9.4	.	181	.	0.1608	.	1.89	.	2.16	.		2.5	
218-01-9	~Chrysene	Spring 2016		M	1	0.1						0.0073	E	0.000011	C	16	c	290	c	0.092	c	1.1	c	3.4	c		1.2	
218-01-9	~Chrysene	Spring 2017		M	1	0.1						0.001	E	0.0000006	E	110	c	2100	c	1.7	c	20	c	25	c		9	
	~Chrysene	Change Effect		.								-0.0063			X	94	.	1810	.	1.608	.	18.9	.	21.6	.		7.8	
53-70-3	~Dibenz[a,h]anthracene	Spring 2016		M	1	0.1						7.3	E	0.0012	C	0.016	c	0.29	c	0.00084	c	0.01	c	0.0034	c		0.013	
53-70-3	~Dibenz[a,h]anthracene	Spring 2017		M	1	0.1						1	E	0.0006	E	0.11	c	2.1	c	0.0017	c	0.02	c	0.025	c		0.096	
	~Dibenz[a,h]anthracene	Change Effect		.								-6.3		-0.0006	X	0.094	.	1.81	.	0.00086	.	0.01	.	0.0216	.		0.083	
NA	~Hexachlorodibenzo-p-dioxin, Mixture	Spring 2016			1	0						6200	I	1.3	I	0.0001	c	0.00047	c	0.0000022	c	0.0000094	c	0.000013	c		0.000017	
	~Hexachlorodibenzo-p-dioxin, Mixture	Spring 2017			1	0						6200	I	1.3	I	0.0001	c	0.00047	c	0.0000022	c	0.0000094	c	0.000013	c		0.000017	
XX	~Hexachlorodibenzo-p-dioxin, Mixture	Change Effect		.													.		.		.		.					
193-39-5	~Indeno[1,2,3-cd]pyrene	Spring 2016		M	1	0.1						0.73	E	0.00011	C	0.16	c	2.9	c	0.0092	c	0.11	c	0.034	c		0.13	
193-39-5	~Indeno[1,2,3-cd]pyrene	Spring 2017		M	1	0.1						0.1	E	0.00006	E	1.1	c	21	c	0.017	c	0.2	c	0.25	c		0.98	
	~Indeno[1,2,3-cd]pyrene	Change Effect		.								-0.63			X	0.94	.	18.1	.	0.0078	.	0.09	.	0.216	.		0.85	
7439-92-1	~Lead and Compounds	Spring 2016			1											400	L	800	L	0.15	L			15	L	15		14
7439-92-1	~Lead and Compounds	Spring 2017			1											400		800	L	0.15	L			15	L	15		14
	~Lead and Compounds	Change Effect		.													X		.		.		.		.			
NA	~Thiocyanates	Spring 2016			1			0.0002	P							1.6	n	23	n					0.4	n			
E1790664	~Thiocyanates	Spring 2017			1			0.0002	P							1.6	n	23	n					0.4	n			
XXXXXXXX	~Thiocyanates	Change Effect		.													.		.		.		.		.			