I 1
3/27/02

U.S. ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND DIVISION
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604

[redacted]

DATE: March 27, 2002

SUBJECT: Review of "Pesticide Investigation Report, 341 East Ohio Street, Chicago, Illinois," STS Project No. 1-25585-XG, February 25. 2002

FROM: Larry Jensen, CHP
Regional Radiation Expert
Emergency Response Section #3

TO: Verneta Simon
On-Scene Coordinator
Emergency Response Section #3

Fred Micke
On-Scene Coordinator
Emergency Response Section #3

Review comments on the above document follow.

[redacted]

[redacted]

[redacted]

[redacted]eet.

[redacted]

[redacted]

[redacted]

- [redacted]

- [redacted]

- [redacted]

[redacted]

[redacted]

- [redacted]

[redacted]

[redacted]

[redacted]

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)		
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca

BORING SAMPLE NO. P-1

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC (LINDANE) (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	15917			320			54000	3600	6700
1	13722								
1.5	20650								
2	48743								
2.5	21971						19000	1300	2900
3	10572								
3.5	7797								
4	9923								
4.5	11275						18000	1200	2100
5	7512								
5.5	6691								
6	7773								
6.5	9629	50		210			34000	2200	3600
7	9276								
7.5	6141								
8	4374								
8.5	4151						460		370
9	4585								
9.5									
10									
10.5									450
11									
11.5									
12									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION						20 (ug/L)		
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	

BORING SAMPLE NO. P-1

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	15917	440	73	220		1200	470	
1	13722							
1.5	20650							
2	48743							
2.5	21971		66	96		910		140
3	10572							
3.5	7797							
4	9923							
4.5	11275	120	73	110		850		120
5	7512							
5.5	6691							
6	7773							
6.5	9629	140	41	210		2300		200
7	9276							
7.5	6141							
8	4374							
8.5	4151							
9	4585							
9.5								
10								
10.5								
11								
11.5								
12								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)				
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca	

BORING SAMPLE NO. P-1

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)	TOXA-PHENE (ug/kg)	4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	15917	6200	590	57		150	220	1600
1	13722							
1.5	20650							
2	48743							
2.5	21971	2100	220	40		150	90	370
3	10572							
3.5	7797							
4	9923							
4.5	11275	2100	220			240	110	700
5	7512							
5.5	6691							
6	7773							
6.5	9629	3700	400			300	140	600
7	9276							
7.5	6141							
8	4374							
8.5	4151	500						
9	4585							
9.5								
10								
10.5								
11								
11.5								
12								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)		
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca

BORING SAMPLE NO. P-2

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	5229	290		370	180		120000	7700	13000
1	7471								
1.5	14640								
2	23960								
2.5	42825					820	1000		990
3	92894								
3.5	47746								
4	17639								
4.5	7861								
5	6083								
5.5	5553								
6	6827								
6.5	6066								
7	6307								
7.5	5414								
8	4315								
8.5	3193								
9	2966								
9.5	2898								
10									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION						20 (ug/L)		
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	

BORING SAMPLE NO. P-2

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	5229	1100	200	330		5400	920	590
1	7471							
1.5	14640							
2	23960							
2.5	42825					380		
3	92894							
3.5	47746							
4	17639							
4.5	7861							
5	6083							
5.5	5553							
6	6827							
6.5	6066							
7	6307							
7.5	5414							
8	4315							
8.5	3193							
9	2966							
9.5	2898							
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)				
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca	

BORING SAMPLE NO. P-2

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)	4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	5229	13000	1700	180	1600	480	2500
1	7471						
1.5	14640						
2	23960						
2.5	42825	1400					
3	92894						
3.5	47746						
4	17639						
4.5	7861						
5	6083						
5.5	5553						
6	6827						
6.5	6066						
7	6307						
7.5	5414						
8	4315						
8.5	3193						
9	2966						
9.5	2898						
10							

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)		
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca

BORING SAMPLE NO. P-3

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	3876					1500	580	620	770
1	5446								
1.5	6451								
2	6791								
2.5	6994					750		570	480
3	7084								
3.5	7248								
4	7270								
4.5	7422						2500	1700	3600
5	6574								
5.5	5006								
6	3183								
6.5	2726								
7	2536								
7.5	2395								
8	2242								
8.5	2858					490	730	2300	1700
9	3670								
9.5	4061								
10	4414								
10.5	4230								
11									
11.5									
12									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION								20 (ug/L)			
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc				

BORING SAMPLE NO. P-3

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	3876							
1	5446							
1.5	6451							
2	6791							
2.5	6994							
3	7084							
3.5	7248							
4	7270							
4.5	7422					5500		
5	6574							
5.5	5006							
6	3183							
6.5	2726							
7	2536							
7.5	2395							
8	2242							
8.5	2858					680		
9	3670							
9.5	4061							
10	4414							
	4230							

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)							
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca				

BORING SAMPLE NO. P-3

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)	4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	3876	780			480		
1	5446						
1.5	6451						
2	6791						
2.5	6994						
3	7084						
3.5	7248						
4	7270						
4.5	7422	3300			500		410
5	6574						
5.5	5006						
6	3183						
6.5	2726						
7	2536						
7.5	2395						
8	2242						
8.5	2858						
9	3670						
9.5	4061						
10	4414						
	4230						

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)		
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca

BORING SAMPLE NO. P-4

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	4576						2300	2700	3900
1	12322								
1.5	32252								
2	49919								
2.5	23872								
3	12214								
3.5	7826								
4	7528								
4.5	5983								
5	4151								
5.5	3768								
6	4500								
6.5	2716								
7	3696								
7.5	3658								
8	2992								
8.5	2630								
9	2424								
9.5	2497								
10									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION								20 (ug/L)			
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc				

BORING SAMPLE NO. P-4

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	4576					440		
1	12322							
1.5	32252							
2	49919							
2.5	23872							
3	12214							
3.5	7826							
4	7528							
4.5	5983							
5	4151							
5.5	3768							
6	4500							
6.5	2716							
7	3696							
7.5	3658							
8	2992							
8.5	2630							
9	2424							
9.5	2497							
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)							
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca				

BORING SAMPLE NO. P-4

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)	4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	4576	3200	1200		880		520
1	12322						
1.5	32252						
2	49919						
2.5	23872						
3	12214						
3.5	7826						
4	7528						
4.5	5983						
5	4151						
5.5	3768						
6	4500						
6.5	2716						
7	3696						
7.5	3658						
8	2992						
8.5	2630						
9	2424						
9.5	2497						
10							

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)		
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca

BORING SAMPLE NO. P-5

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	8965								
1	13105						12000		
1.5	19438								
2	12996								
2.5	10243			580		1200		1000	
3	10557								
3.5	10628								
4	10172								
4.5	9182						2900	1900	2700
5	8573								
5.5	7781								
6	5086								
6.5	2431						1100	920	1600
7	1822								
7.5	1677								
8									
8.5									
9									
9.5									
10									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION								20 (ug/L)			
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc				

BORING SAMPLE NO. P-5

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	8965							
1	13105							
1.5	19438							
2	12996							
2.5	10243							440
3	10557							
3.5	10628							
4	10172							
4.5	9182					1100		
5	8573							
5.5	7781							
6	5086							
6.5	2431							
7	1822							
7.5	1677							
8								
8.5								
9								
9.5								
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)				
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca	

BORING SAMPLE NO. P-5

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)		4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	8965							
1	13105							
1.5	19438							
2	12996							
2.5	10243					830		
3	10557							
3.5	10628							
4	10172							
4.5	9182	4300	500					
5	8573							
5.5	7781							
6	5086							
6.5	2431	1700						
7	1822							
7.5	1677							
8								
8.5								
9								
9.5								
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)		
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca

BORING SAMPLE NO. P-6

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	5673						490	780	770
1	11939								
1.5	35425								
2	105212								
2.5	42197								
3	20084								
3.5	12740								
4	9295								
4.5	8344							590	
5	9926								
5.5	17554								
6	26817								
6.5	50557							730	
7	57546								
7.5	15423								
8	4002								
8.5	2351								
9	2292								
9.5									
10									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION								20 (ug/L)			
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc				

BORING SAMPLE NO. P-6

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	5673							
1	11939							
1.5	35425							
2	105212							
2.5	42197							
3	20084							
3.5	12740							
4	9295							
4.5	8344							
5	9926							
5.5	17554							
6	26817							
6.5	50557							
7	57546							
7.5	15423							
8	4002							
8.5	2351							
9	2292							
9.5								
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)				
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca	

BORING SAMPLE NO. P-6

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)		4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	5673							460
1	11939							
1.5	35425							
2	105212							
2.5	42197							
3	20084							
3.5	12740							
4	9295							
4.5	8344					500		
5	9926							
5.5	17554							
6	26817							
6.5	50557					490		
7	57546							
7.5	15423							
8	4002							
8.5	2351							
9	2292							
9.5								
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)			
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	7 (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	

BORING SAMPLE NO P-7

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	2973								
1	6861								
1.5	8367								
2	5467								
2.5	4933								
3	4513								
3.5	4284								
4	4914								
4.5	5269								
5	4589								
5.5	6229								
6	8030								
6.5	5926								
7	4624								
7.5	4647								
8	4906								
8.5	4540								
9	3500								
9.5	3088								
10									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)			
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	7 (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	

BORING SAMPLE NO. P-8

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	2339						9200	480	820
1	3472								
1.5	8232								
2	9382								
2.5	9077								
3	6542								
3.5	5562								
4	5449								
4.5	5497								
5	4721								
5.5	5068								
6	6555								
6.5	4570								
7	3541								
7.5	3525								
8	4113								
8.5	3713								
9	3365								
9.5	2901								
10									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					20 (ug/L)		
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc

BORING SAMPLE NO. P-7

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	2973						49	
1	6861							
1.5	8367							
2	5467							
2.5	4933							53
3	4513							
3.5	4284							
4	4914							
4.5	5269							
5	4589							
5.5	6229							
6	8030							
6.5	5926							
7	4624							
7.5	4647							
8	4906							
8.5	4540							
9	3500							
9.5	3088							
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					20 (ug/L)		
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc

BORING SAMPLE NO. P-8

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	2339					87		
1	3472							
1.5	8232							
2	9382							
2.5	9077							
3	6542							
3.5	5562							
4	5449							
4.5	5497							
5	4721							
5.5	5068							
6	6555							
6.5	4570							
7	3541							
7.5	3525							
8	4113							
8.5	3713							
9	3365							
9.5	2901							
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	5 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)				
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca	

BORING SAMPLE NO. P-7

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)	4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	2973						
1	6861						
1.5	8367						
2	5467						
2.5	4933						
3	4513						
3.5	4284						
4	4914						
4.5	5269						
5	4589						
5.5	6229						
6	8030						
6.5	5926						
7	4624						
7.5	4647						
8	4906						
8.5	4540						
9	3500						
9.5	3088						
10							

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)			
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca

BORING SAMPLE NO. P-8

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)	4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	2339	680	110				63
1	3472						
1.5	8232						
2	9382						
2.5	9077						
3	6542						
3.5	5562						
4	5449						
4.5	5497						
5	4721						
5.5	5068						
6	6555						
6.5	4570						
7	3541						
7.5	3525						
8	4113						
8.5	3713						
9	3365						
9.5	2901						
10							

TEACHER S RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION					400 (ug/L)	30 (ug/L)			
PRELIMINARY REMEDIATION GOALS	29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	

BORING SAMPLE NO. P-9

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
0.5	3287			41			4800	660	760
1	6269								
1.5	7819								
2	7917								
2.5	7825								
3	7670								
3.5	7926								
4	8023								
4.5	7941								
5	7613								
5.5	7445								
6	6236								
6.5	4627					1100	7900	790	1100
7	3487								
7.5	3360								
8	4770								
8.5	7614								
9	6926								
9.5									
10									

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION				20 (ug/L)			
PRELIMINARY REMEDIATION GOALS	30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc

BORING SAMPLE NO. P-9

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
0.5	3287					230		
1	6269							
1.5	7819							
2	7917							
2.5	7825							
3	7670							
3.5	7926							
4	8023							
4.5	7941							
5	7613							
5.5	7445							
6	6236							
6.5	4627					52		
7	3487							
7.5	3360							
8	4770							
8.5	7614							
9	6926							
9.5								
10								

TEACHERS RETIREMENT SYSTEM SITE

RCRA TCLP CRITERION	8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)			
PRELIMINARY REMEDIATION GOALS	110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca

BORING SAMPLE NO P-9

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)	4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
0.5	3287	410	68		93		51
1	6269						
1.5	7819						
2	7917						
2.5	7825						
3	7670						
3.5	7926						
4	8023						
4.5	7941						
5	7613						
5.5	7445						
6	6236						
6.5	4627	1100	62		180	64	280
7	3487						
7.5	3360						
8	4770						
8.5	7614						
9	6926						
9.5							
10							

TEACHERS RETIREMENT SYSTEM SITE

BORING SAMPLE NO. P-10

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
RCRA TCLP CRITERION						400 (ug/L)	30 (ug/L)		
PRELIMINARY REMEDIATION GOALS		29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca
0.5									
1							1600		
1.5								110	210
2									
2.5									
3									
3.5									
4									
4.5		180			48		22000	780	2800
5									
5.5									
6									
6.5		75					9700	400	1300
7									
7.5									
8									
8.5									
9									
9.5									
10									

TEACHERS RETIREMENT SYSTEM SITE

BORING SAMPLE NO. P-10

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
RCRA TCLP CRITERION						20 (ug/L)		
PRELIMINARY REMEDIATION GOALS		30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc
0.5						44		
1								
1.5								
2								
2.5								
3								
3.5								
4								
4.5						160		
5								
5.5								
6								
6.5						74		
7								
7.5								
8								
8.5		71				220		
9								
9.5								
10								

TEACHERS RETIREMENT SYSTEM SITE

BORING SAMPLE NO. P-10

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)		4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
RCRA TCLP CRITERION		8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)			
PRELIMINARY REMEDIATION GOALS		110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca
0.5		220	49					
1								
1.5								
2								
2.5								
3								
3.5								
4								
4.5		4100	290				97	98
5								
5.5								
6								
6.5		1700	120				44	
7								
7.5								
8								
8.5								
9								
9.5								
10								

TEACHERS RETIREMENT SYSTEM SITE

BORING SAMPLE NO. P-10A

DEPTH	GAMMA COUNT RATE (cpm)	ALDRIN (ug/kg)	ALPHA BHC (ug/kg)	BETA-BHC (ug/kg)	DELTA BHC (ug/kg)	GAMMA-BHC LINDANE (ug/kg)	CHLOR-DANE (TECH.) (ug/kg)	ALPHA-CHLOR-DANE (ug/kg)	GAMMA-CHLOR-DANE (ug/kg)
RCRA TCLP CRITERION						400 (ug/L)	30 (ug/L)		
PRELIMINARY REMEDIATION GOALS		29 (ug/kg) ca	90 (ug/kg) ca	320 (ug/kg) ca	? (ug/kg)	440 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca	1600 (ug/kg) ca
0.5	5633								
1	7809								
1.5	9485								
2	10690								
2.5	9455								
3	7995								
3.5	8512								
4	8778								
4.5	8383								
5	6063								
5.5	5505								
6	5701								
6.5	5614								
7	5809								
7.5	4869								
8	4854								
8.5	4318						25000	2400	3000
9	5853								
9.5	7841								
10									

TEACHERS RETIREMENT SYSTEM SITE

BORING SAMPLE NO. P-10A

DEPTH	GAMMA COUNT RATE (cpm)	DIELDRIN (ug/kg)	ENDO SULFAN I (ug/kg)	ENDO SULFAN II (ug/kg)	ENDO SULFAN SULPHATE (ug/kg)	ENDRIN (ug/kg)	ENDRIN ALDE-HYDE (ug/kg)	ENDRIN KETONE (ug/kg)
RCRA TCLP CRITERION						20 (ug/L)		
PRELIMINARY REMEDIATION GOALS		30 (ug/kg) ca	370000 (ug/kg) nc	370000 (ug/kg) nc	370000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc	18000 (ug/kg) nc
0.5	5633							
1	7809							
1.5	9485							
2	10690							
2.5	9455							
3	7995							
3.5	8512							
4	8778							
4.5	8383							
5	6063							
5.5	5505							
6	5701							
6.5	5614							
7	5809							
7.5	4869							
8	4854							
8.5	4318	71				220		
9	5853							
9.5	7841							
10								

TEACHERS RETIREMENT SYSTEM SITE

BORING SAMPLE NO. P-10A

DEPTH	GAMMA COUNT RATE (cpm)	HEPTA-CHLOR (ug/kg)	HEPTA-CHLOR EPOXIDE (ug/kg)	METH-OXY-CHLOR (ug/kg)		4,4-DDD (ug/kg)	4,4-DDE (ug/kg)	4,4-DDT (ug/kg)
RCRA TCLP CRITERION		8 (ug/L)	8 (ug/L)	10000 (ug/L)	500 (ug/L)			
PRELIMINARY REMEDIATION GOALS		110 (ug/kg) ca	110 (ug/kg) ca	310000 (ug/kg) nc	440 (ug/kg) ca	2400 (ug/kg) ca	1700 (ug/kg) ca	1700 (ug/kg) ca
0.5	5633							
1	7809							
1.5	9485							
2	10690							
2.5	9455							
3	7995							
3.5	8512							
4	8778							
4.5	8383							
5	6063							
5.5	5505							
6	5701							
6.5	5614							
7	5809							
7.5	4869							
8	4854							
8.5	4318	4100	400			380	57	80
9	5853							
9.5	7841							
10								

CHEMICAL NAME	Preliminary Remediation Goals Residential Soil (mg/kg)	Cancer (ca) Non-Cancer (nc)	CHEMICAL NAME	Preliminary Remediation Goals Residential Soil (mg/kg)	Cancer (ca) Non-Cancer (nc)
Aldrin	0.029	ca	Endrin	18	nc
Alpha-BHC	0.09	ca	Endrin aldehyde	18	nc
Beta-BHC	0.32	ca	Endrin ketone	18	nc
Delta-BHC	?	?	Heptachlor	0.11	ca
Gamma-BHC(Lindane)	0.44	ca	Heptachlor epoxide	0.11	ca
Chlordane	1.6	ca	Methoxychlor	310	nc
Alpha-chlordane	1.6	ca	Toxaphene	0.44	ca
Gamma-chlordane	1.6	ca	4,4-DDD	2.4	ca
Dieldrin	0.03	ca	4,4-DDE	1.7	ca
Endosulfan I	370	nc	4,4-DDT	1.7	ca
Endosulfan II	370	nc			
Endosulfan sulfate	370	nc			

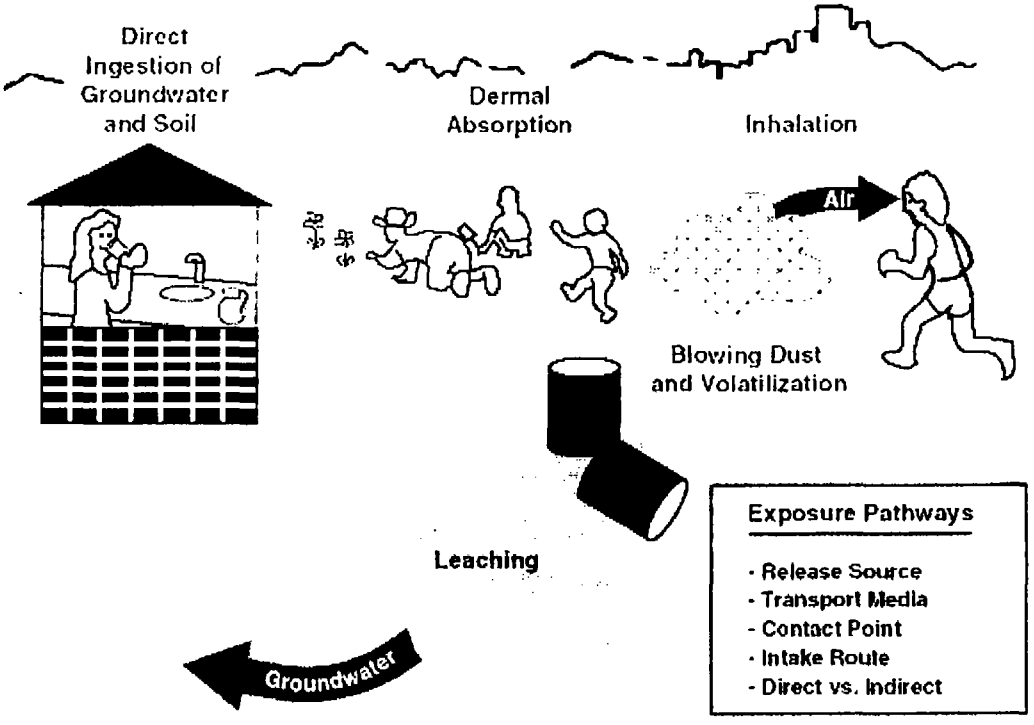
BHC = benzene hexachloride

HCH = hexachlorocyclohexane

EPA United States Environmental Protection Agency

Waste Programs

Preliminary Remediation Goals



Preliminary Remediation Goals (PRGs) are tools for evaluating and cleaning up contaminated sites. They are risk-based concentrations derived from standardized equations, combining exposure information assumptions and EPA toxicity data. The PRGs contained in the Region 9 PRG Table are generic; they are calculated without site specific information. However, they may be re-calculated using site specific data.

PRGs should be viewed as Agency guidelines, not legally enforceable standards. They are used for site "screening" and as initial cleanup goals if applicable. PRGs are not *de facto* cleanup standards and should not be applied as such. However, they are helpful in providing long-term targets to use during the analysis of different remedial alternatives. By developing PRGs early in the decision-making process, design staff may be able to streamline the consideration of remedial alternatives.

Background Information (241K PDF)
This document is also available in WordPerfect (174K).

What's New in 2000

Frequently Asked Questions About the PRG Tables

Useful Toxicology/Risk Assessment Links

R9 PRG Tables: summary table that presents the final list of generic PRG (for

soil, air, and water) selected for site screening in Region 9.

A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Z

These tables can be downloaded in PDF format (130 K).

InterCalc Tables: present additional information not available in the R9 PRG Table above.

Soil Calculations: lists pathway-specific values for soils under residential and industrial land-use scenarios.
A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Z

Air-Water Calculations: lists pathway-specific values for air and water assuming a residential exposure scenario.
A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Z

Toxicity Values: lists toxicity values used in the PRG calculations.
A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Z

Phys-Chem Data: includes volatilization factors (VF) and soil saturation values (SAT) for VOCs only.
A-Di | Ep-Tr

The InterCalc Tables may be downloaded in PDF Format (144 K). The complete set, which includes both R9 PRG Tables and the InterCalc Tables, is also available as an Excel Workbook file (647 K).

Region 9 Waste Home | Region 9 Superfund Home | Region 9 PRG Home
Region 9 Home | EPA Home | Search | Comments Questions

Region 9 Office: 75 Hawthorne St., San Francisco, Calif., 94105
Send PRG-related comments and questions to smucker.stan@epa.gov

Updated: November 22, 2000

URL: http://www.epa.gov/region09/waste/sfund/prg/otherlinks.htm

EPA United States Environmental Protection Agency

Waste Programs

Region 9

PRG Tables: A-Bu

PRG Home | **What's New** | **FAQ** | **Other Links**
R9 PRG Tables: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Soil Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Air-Water Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Toxicity Values: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Phys-Chem Data: A-Di | Ep-Tr

CONTAMINANT		PRELIMINARY REMEDIATION GOALS (PRGs)								SOIL SCREENING LEVELS Migration to Ground Water	
CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
30560-19-1	Acephate	5.6E+01	ca**	2.8E+02	ca*	7.7E-01	ca*	7.7E+00	ca*		
75-07-0	Acetaldehyde	1.1E+01	ca**	2.3E+01	ca**	8.7E-01	ca*	1.7E+00	ca		
34256-82-1	Acetochlor	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
67-64-1	Acetone	1.6E+03	nc	6.2E+03	nc	3.7E+02	nc	6.1E+02	nc	1.6E+01	8.0E-01
75-86-5	Acetone cyanohydrin	4.9E+01	nc	7.0E+02	nc	2.9E+00	nc	2.9E+01	nc		
75-05-8	Acetonitrile	2.7E+02	nc	1.7E+03	nc	6.2E+01	nc	7.9E+01	nc		
98-86-2	Acetophenone	4.9E-01	nc	1.6E+00	nc	2.1E-02	nc	4.2E-02	nc		
50594-66-6	Acifluorfen	4.4E+00	ca	2.2E+01	ca	6.1E-02	ca	6.1E-01	ca		
107-02-8	Acrolein	1.0E-01	nc	3.4E-01	nc	2.1E-02	nc	4.2E-02	nc		
79-06-1	Acrylamide	1.1E-01	ca	5.4E-01	ca	1.5E-03	ca	1.5E-02	ca		
79-10-7	Acrylic acid	2.9E+04	nc	1.0E+05	max	1.0E+00	nc	1.8E+04	nc		
107-13-1	Acrylonitrile	2.1E-01	ca*	5.1E-01	ca*	2.8E-02	ca*	3.9E-02	ca*		
15972-60-8	Alachlor	6.0E+00	ca	3.1E+01	ca	8.4E-02	ca	8.4E-01	ca		
1596-84-5	Alar	9.2E+03	nc	1.0E+05	max	5.5E+02	nc	5.5E+03	nc		

116-06-3	Aldicarb	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
1646-88-4	Aldicarb sulfone	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
309-00-2	Aldrin	2.9E-02	ca*	1.5E-01	ca	3.9E-04	ca	4.0E-03	ca	5.0E-01	2.0E-02
5585-64-8	Allx	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc		
107-18-6	Allyl alcohol	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
107-05-1	Allyl chloride	3.0E+03	nc	4.3E+04	nc	1.0E+00	nc	1.8E+03	nc		
7429-90-5	Aluminum	7.6E+04	nc	1.0E+05	max	5.1E+00	nc	3.6E+04	nc		
20859-73-8	Aluminum phosphide	3.1E+01	nc	8.2E+02	nc			1.5E+01	nc		
67485-29-4	Amdro	1.8E+01	nc	2.6E+02	nc	1.1E+00	nc	1.1E+01	nc		
834-12-8	Ametryn	5.5E+02	nc	7.9E+03	nc	3.3E+01	nc	3.3E+02	nc		
591-27-5	m-Aminophenol	4.3E+03	nc	6.2E+04	nc	2.6E+02	nc	2.6E+03	nc		
504-24-5	4-Aminopyridine	1.2E+00	nc	1.8E+01	nc	7.3E-02	nc	7.3E-01	nc		
33089-61-1	Amitraz	1.5E+02	nc	2.2E+03	nc	9.1E+00	nc	9.1E+01	nc		
7664-41-7	Ammonia					1.0E+02	nc				
7773-06-0	Ammonium sulfamate	1.2E+04	nc	1.0E+05	max			7.3E+03	nc		
62-53-3	Aniline	8.5E+01	ca**	4.3E+02	ca*	1.0E+00	nc	1.2E+01	ca*		
7440-36-0	Antimony and compounds	3.1E+01	nc	8.2E+02	nc			1.5E+01	nc	5.0E+00	3.0E-01
1314-60-9	Antimony pentoxide	3.9E+01	nc	1.0E+03	nc			1.8E+01	nc		
28300-74-5	Antimony potassium tartrate	7.0E+01	nc	1.8E+03	nc			3.3E+01	nc		
1332-81-6	Antimony tetroxide	3.1E+01	nc	8.2E+02	nc			1.5E+01	nc		
1309-64-4	Antimony trioxide	3.1E+01	nc	8.2E+02	nc	2.1E-01	nc	1.5E+01	nc		
74115-24-5	Apollo	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
140-57-8	Aramite	1.9E+01	ca	9.9E+01	ca	2.7E-01	ca	2.7E+00	ca		
7440-38-2	Arsenic (noncancer endpoint)	2.2E+01	nc	4.4E+02	nc						
7440-38-2	Arsenic (cancer endpoint)	3.9E-01	ca*	2.7E+00	ca	4.5E-04	ca	4.5E-02	ca	2.9E+01	1
7784-42-1	Arsine (see arsenic for cancer endpoint)					5.2E-02	nc				
76578-12-6	Assure	5.5E+02	nc	7.9E+03	nc	3.3E+01	nc	3.3E+02	nc		
3337-71-1	Asulam	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
1912-24-9	Atrazine	2.2E+00	ca	1.1E+01	ca	3.1E-02	ca	3.0E-01	ca		
71751-41-2	Avermectin B1	2.4E+01	nc	3.5E+02	nc	1.5E+00	nc	1.5E+01	nc		
103-33-3	Azobenzene	4.4E+00	ca	2.2E+01	ca	6.2E-02	ca	6.1E-01	ca		

7440-39-3	Barium and compounds	5.4E+03	nc	1.0E+05	max	5.2E-01	nc	2.6E+03	nc	1.6E+03	82
114-26-1	Baygon	2.4E+02	nc	3.5E+03	nc	1.5E+01	nc	1.5E+02	nc		
43121-43-3	Bayleton	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
68359-37-5	Baythroid	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
1861-40-1	Benefin	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc		
17804-35-2	Benomyl	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
25057-89-0	Bentazon	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
100-52-7	Benzaldehyde	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		
71-43-2	**Benzene**	6.5E-01	ca*	1.5E+00	ca*	2.5E-01	ca*	3.5E-01	ca*	3.0E-02	0.002
92-87-5	Benzidine	2.1E-03	ca	1.1E-02	ca	2.9E-05	ca	2.9E-04	ca		
65-85-0	Benzoic acid	1.0E+05	max	1.0E+05	max	1.5E+04	nc	1.5E+05	nc	4.0E+02	20
98-07-7	Benzotrichloride	3.7E-02	ca	1.9E-01	ca	5.2E-04	ca	5.2E-03	ca		
100-51-6	Benzyl alcohol	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc		
100-44-7	Benzyl chloride	8.9E-01	ca	2.3E+00	ca	4.0E-02	ca	6.6E-02	ca		
7440-41-7	Beryllium and compounds	1.5E+02	nc	2.2E+03	ca**	8.0E-04	ca*	7.3E+01	nc	6.3E+01	3
141-66-2	Bidrin	6.1E+00	nc	8.8E+01	nc	3.7E-01	nc	3.6E+00	nc		
82657-04-3	Biphenthrin (Talstar)	9.2E+02	nc	1.3E+04	nc	5.5E+01	nc	5.5E+02	nc		
92-52-4	1,1-Biphenyl	3.5E+02	sat	3.5E+02	sat	1.8E+02	nc	3.0E+02	nc		
111-44-4	Bis(2-chloroethyl)ether	2.1E-01	ca	6.2E-01	ca	5.8E-03	ca	9.8E-03	ca	4.0E-04	2E-05
108-60-1	Bis(2-chloroisopropyl)ether	2.9E+00	ca	8.1E+00	ca	1.9E-01	ca	2.7E-01	ca		
542-88-1	Bis(chloromethyl)ether	1.9E-04	ca	4.4E-04	ca	3.1E-05	ca	5.2E-05	ca		
108-60-1	Bis(2-chloro-1-methylethyl)ether	2.9E+00	ca	8.1E+00	ca	1.9E-01	ca	2.7E-01	ca		
117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)	3.5E+01	ca*	1.8E+02	ca	4.8E-01	ca	4.8E+00	ca		
80-05-7	Bisphenol A	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
7440-42-8	Boron	5.5E+03	nc	7.9E+04	nc	2.1E+01	nc	3.3E+03	nc		
7637-07-2	Boron trifluoride					7.3E-01	nc				
108-86-1	Bromobenzene	2.8E+01	nc	9.2E+01	nc	1.0E+01	nc	2.0E+01	nc		
75-27-4	Bromodichloromethane	1.0E+00	ca	2.4E+00	ca	1.1E-01	ca	1.8E-01	ca	6.0E-01	0.03
75-25-2	Bromoform (tribromomethane)	6.2E+01	ca*	3.1E+02	ca*	1.7E+00	ca*	8.5E+00	ca*	8.0E-01	0.04
74-83-9	Bromomethane (Methyl bromide)	3.9E+00	nc	1.3E+01	nc	5.2E+00	nc	8.7E+00	nc	2.0E-01	0.01
101-55-3	4-Bromophenyl phenyl ether										

2104-96-3	Bromophos	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
1689-84-5	Bromoxynil	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
1689-99-2	Bromoxynil octanoate	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
106-99-0	1,3-Butadiene	3.5E-03	ca	7.6E-03	ca	3.7E-03	ca	6.2E-03	ca		
71-36-3	1-Butanol	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc	1.7E+01	0.9
2008-41-5	Butylate	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
104-51-8	n-Butylbenzene	1.4E+02	nc	2.4E+02	sat	3.7E+01	nc	6.1E+01	nc		
135-98-8	sec-Butylbenzene	1.1E+02	nc	2.2E+02	sat	3.7E+01	nc	6.1E+01	nc		
98-06-6	tert-Butylbenzene	1.3E+02	nc	3.9E+02	sat	3.7E+01	nc	6.1E+01	nc		
85-68-7	Butylbenzylphthalate	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc	9.3E+02	810
85-70-1	Butylphthalylbutylglycolate	6.1E+04	nc	1.0E+05	max	3.7E+03	nc	3.6E+04	nc		

Key:

i = IRIS
h = HEAST
n = NCEA
x = WITHDRAWN
o = OTHER EPA DOCUMENTS
r = ROUTE EXTRAPOLATION
ca = CANCER PRG
nc = NONCANCER PRG
sat = SOIL SATURATION
max = CEILING LIMIT
*indicates that the noncancer PRG < = 100X the cancer PRG
**indicates that the noncancer PRG < 10X the cancer PRG
BOLD=New or revised Toxicity values

Region 9 Waste Home | Region 9 Superfund Home | Region 9 PRG Home
Region 9 Home | EPA Home | Search | Comments/Questions

Region 9 Office: 75 Hawthorne St., San Francisco, Calif., 94105
Send PRG-related comments and questions to smucker.stan@epa.gov

Updated: November 22, 2000

URL: http://www.epa.gov/region09/waste/sfund/prg/s1_01.htm

EPA United States Environmental Protection Agency

Waste Programs

Region 9

PRG Tables: Ca-De

PRG Home | **What's New** | **FAQ** | **Other Links**
R9 PRG Tables: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Soil Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Air-Water Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Toxicity Values: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Phys-Chem Data: A-Di | Ep-Tr

CONTAMINANT		PRELIMINARY REMEDIATION GOALS (PRGs)								SOIL SCREENING LEVELS Migration to Ground Water	
CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
75-60-5	Cacodylic acid	1.8E+02	nc	2.6E+03	nc	1.1E+01	nc	1.1E+02	nc		
7440-43-9	Cadmium and compounds	3.7E+01	nc	8.1E+02	nc	1.1E-03	ca	1.8E+01	nc	8.0E+00	0.4
	"CAL-Modified PRG" (PEA, 1994)	9.0E+00									
105-60-2	Caprolactam	3.1E+04	nc	1.0E+05	max	1.8E+03	nc	1.8E+04	nc		
2425-06-1	Captafol	5.7E+01	ca**	2.9E+02	ca**	7.8E-01	ca**	7.8E+00	ca**		
133-06-2	Captan	1.4E+02	ca*	7.0E+02	ca	1.9E+00	ca	1.9E+01	ca		
63-25-2	Carbaryl	6.1E+03	nc	8.8E+04	nc	4.0E+02	nc	3.6E+03	nc		
86-74-8	Carbazole	2.4E+01	ca	1.2E+02	ca	3.4E-01	ca	3.4E+00	ca	6.0E-01	0.03
1563-66-2	Carbofuran	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
75-15-0	Carbon disulfide	3.6E+02	nc	7.2E+02	sat	7.3E+02	nc	1.0E+03	nc	3.2E+01	2
56-23-5	Carbon tetrachloride	2.4E-01	ca**	5.3E-01	ca*	1.3E-01	ca*	1.7E-01	ca*	7.0E-02	0.003
55285-14-8	Carbosulfan	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
5234-68-4	Carboxin	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		

133-90-4	Chloramben	9.2E+02	nc	1.3E+04	nc	5.5E+01	nc	5.5E+02	nc		
118-75-2	Chloranil	1.2E+00	ca	6.1E+00	ca	1.7E-02	ca	1.7E-01	ca		
12789-03-6	Chlordane	1.6E+00	ca*	1.1E+01	ca*	1.9E-02	ca*	1.9E-01	ca*	1.0E+01	0.5
90982-32-4	Chlormuron ethyl	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
7782-50-5	**Chlorine**					2.1E-01	nc				
10049-04-4	Chlorine dioxide					2.1E-01	nc				
107-20-0	Chloroacetaldehyde										
79-11-8	Chloroacetic acid	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
532-27-4	2-Chloroacetophenone	3.3E-02	nc	1.1E-01	nc	3.1E-02	nc	5.2E-02	nc		
106-47-8	4-Chloroaniline	2.4E+02	nc	3.5E+03	nc	1.5E+01	nc	1.5E+02	nc	7.0E-01	0.03
108-90-7	Chlorobenzene	1.5E+02	nc	5.4E+02	nc	6.2E+01	nc	1.1E+02	nc	1.0E+00	0.07
510-15-6	Chlorobenzilate	1.8E+00	ca	9.1E+00	ca	2.5E-02	ca	2.5E-01	ca		
74-11-3	p-Chlorobenzoic acid	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
98-56-6	4-Chlorobenzotrifluoride	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
126-99-8	2-Chloro-1,3-butadiene	3.6E+00	nc	1.2E+01	nc	7.3E+00	nc	1.4E+01	nc		
109-69-3	1-Chlorobutane	4.8E+02	sat	4.8E+02	sat	1.5E+03	nc	2.4E+03	nc		
75-68-3	1-Chloro-1,1-difluoroethane (HCFC-142b)	3.4E+02	sat	3.4E+02	sat	5.2E+04	nc	8.7E+04	nc		
75-45-6	Chlorodifluoromethane	3.4E+02	sat	3.4E+02	sat	5.1E+04	nc	8.5E+04	nc		
75-00-3	Chloroethane	3.0E+00	ca	6.5E+00	ca	2.3E+00	ca	4.6E+00	ca		
110-75-8	2-Chloroethyl vinyl ether										
67-66-3	Chloroform	2.4E-01	ca**	5.2E-01	ca**	8.4E-02	ca**	1.6E-01	ca**	6.0E-01	0.03
74-87-3	Chloromethane	1.2E+00	ca	2.7E+00	ca	1.1E+00	ca	1.5E+00	ca		
95-69-2	4-Chloro-2-methylaniline	8.4E-01	ca	4.3E+00	ca	1.2E-02	ca	1.2E-01	ca		
3165-93-3	4-Chloro-2-methylaniline hydrochloride	1.1E+00	ca	5.4E+00	ca	1.5E-02	ca	1.5E-01	ca		
91-58-7	beta-Chloronaphthalene	3.9E+03	nc	2.7E+04	nc	2.9E+02	nc	4.9E+02	nc		
88-73-3	o-Chloronitrobenzene	8.1E+00	ca	2.3E+01	ca	2.7E-01	ca	4.5E-01	ca		
100-00-5	p-Chloronitrobenzene	1.1E+01	ca	3.2E+01	ca	3.7E-01	ca	6.2E-01	ca		
95-57-8	2-Chlorophenol	6.3E+01	nc	2.4E+02	nc	1.8E+01	nc	3.0E+01	nc	4.0E+00	0.2
75-29-6	2-Chloropropane	1.7E+02	nc	5.9E+02	nc	1.0E+02	nc	1.7E+02	nc		
1897-45-6	Chlorothalonil	4.4E+01	ca*	2.2E+02	ca*	6.1E-01	ca*	6.1E+00	ca*		
95-49-8	o-Chlorotoluene	1.6E+02	nc	5.7E+02	nc	7.3E+01	nc	1.2E+02	nc		

101-21-3	Chlorpropham	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
2921-88-2	Chlorpyrifos	1.8E+02	nc	2.6E+03	nc	1.1E+01	nc	1.1E+02	nc		
5598-13-0	Chlorpyrifos-methyl	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
64902-72-3	Chlorsulfuron	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
60238-56-4	Chlorthiophos	4.9E+01	nc	7.0E+02	nc	2.9E+00	nc	2.9E+01	nc		
	Total Chromium (1:6 ratio Cr VI:Cr III)	2.1E+02	ca	4.5E+02	ca	1.6E-04	ca			3.8E+01	2
16065-83-1	Chromium III	1.0E+05	max	1.0E+05	max	0.0E+00		5.5E+04	nc		
18540-29-9	Chromium VI	3.0E+01	ca**	6.4E+01	ca	2.3E-05	ca	1.1E+02	nc	3.8E+01	2
	"CAL-Modified PRG" (PEA, 1994)	2.0E-01						1.6E-01			
7440-48-4	Cobalt	4.7E+03	nc	1.0E+05	max			2.2E+03	nc		
8007-45-2	Coke Oven Emissions					3.1E-03	ca				
7440-50-8	Copper and compounds	2.9E+03	nc	7.6E+04	nc			1.4E+03	nc		
123-73-9	Crotonaldehyde	5.3E-03	ca	1.1E-02	ca	3.5E-03	ca	5.9E-03	ca		
98-82-8	Cumene (isopropylbenzene)	1.6E+02	nc	5.2E+02	nc	4.0E+02	nc	6.6E+02	nc		
21725-46-2	Cyanazine	5.8E-01	ca	2.9E+00	ca	8.0E-03	ca	8.0E-02	ca		
74-90-8	Cyanide and compounds	1.1E+01	nc	3.5E+01	nc	3.1E+00	nc	6.2E+00	nc		
460-19-5	Cyanogen	1.3E+02	nc	4.3E+02	nc	1.5E+02	nc	2.4E+02	nc		
506-68-3	Cyanogen bromide	2.9E+02	nc	9.7E+02	nc	3.3E+02	nc	5.5E+02	nc		
506-77-4	Cyanogen chloride	1.6E+02	nc	5.4E+02	nc	1.8E+02	nc	3.0E+02	nc		
110-82-7	**Cyclohexane**	1.4E+02	sat	1.4E+02	sat	2.1E+04	nc	3.5E+04	nc		
108-94-1	Cyclohexanone	1.0E+05	max	1.0E+05	max	1.8E+04	nc	1.8E+05	nc		
108-91-8	Cyclohexylamine	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
68085-85-8	Cyhalothrin/Karate	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
52315-07-8	Cypermethrin	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
66215-27-8	Cyromazine	4.6E+02	nc	6.6E+03	nc	2.7E+01	nc	2.7E+02	nc		
1861-32-1	Dacthal	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
75-99-0	Dalapon	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
39515-41-8	Danitol	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
72-54-8	DDD	2.4E+00	ca	1.7E+01	ca	2.8E-02	ca	2.8E-01	ca	1.6E+01	0.8
72-55-9	DDE	1.7E+00	ca	1.2E+01	ca	2.0E-02	ca	2.0E-01	ca	5.4E+01	3
50-29-3	DDT	1.7E+00	ca*	1.2E+01	ca*	2.0E-02	ca*	2.0E-01	ca*	3.2E+01	2

1163-19-5	Decabromodiphenyl ether	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc
8065-48-3	Demeton	2.4E+00	nc	3.5E+01	nc	1.5E-01	nc	1.5E+00	nc

Key:

i = IRIS
h = HEAST
n = NCEA
x = WITHDRAWN
o = OTHER EPA DOCUMENTS
r = ROUTE EXTRAPOLATION
ca – CANCER PRG
nc = NONCANCER PRG
sat = SOIL SATURATION
max = CEILING LIMIT
*indicates that the noncancer PRG < = 100X the cancer PRG
**indicates that the noncancer PRG < 10X the cancer PRG
BOLD=New or revised Toxicity values

Region 9 Waste Home | Region 9 Superfund Home | Region 9 PRG Home
Region 9 Home | EPA Home | Search | Comments/Questions

Region 9 Office: 75 Hawthorne St., San Francisco, Calif., 94105
Send PRG-related comments and questions to smucker.stan@epa.gov

Updated: November 22, 2000

URL: http://www.epa.gov/region09/waste/sfund/prg/s1_02.htm

EPA United States Environmental Protection Agency

Waste Programs

Region 9

PRG Tables: Di-Fe

PRG Home | **What's New** | **FAQ** | **Other Links**
R9 PRG Tables: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Soil Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Air-Water Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Toxicity Values: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Phys-Chem Data: A-Di | Ep-Tr

	CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs)								SOIL SCREENING LEVELS Migration to Ground Water	
CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
2303-16-4	Diallate	8.0E+00	ca	4.0E+01	ca	1.1E-01	ca	1.1E+00	ca		
333-41-5	Diazinon	5.5E+01	nc	7.9E+02	nc	3.3E+00	nc	3.3E+01	nc		
132-64-9	Dibenzofuran	2.9E+02	nc	5.1E+03	nc	1.5E+01	nc	2.4E+01	nc		
106-37-6	1,4-Dibromobenzene	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
124-48-1	Dibromochloromethane	1.1E+00	ca	2.7E+00	ca	8.0E-02	ca	1.3E-01	ca	4.0E-01	0.02
96-12-8	1,2-Dibromo-3-chloropropane	4.5E-01	ca**	4.0E+00	ca**	2.1E-01	nc	4.8E-02	ca**		
	"CAL-Modified PRG" (PEA, 1994)	6.0E-02				9.6E-04		4.7E-03			
106-93-4	1,2-Dibromoethane	6.9E-03	ca	4.8E-02	ca*	8.7E-03	ca*	7.6E-04	ca		
84-74-2	Dibutyl phthalate	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc	2.3E+03	270
1918-00-9	Dicamba		nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
95-50-1	1,2-Dichlorobenzene	3.7E+02	sat	3.7E+02	sat	2.1E+02	nc	3.7E+02	nc	1.7E+01	9.0E-01
541-73-1	1,3-Dichlorobenzene	1.3E+01	nc	5.2E+01	nc	3.3E+00	nc	5.5E+00	nc		
106-46-7	1,4-Dichlorobenzene	3.4E+00	ca	8.1E+00	ca	3.1E-01	ca	5.0E-01	ca	2.0E+00	1.0E-01

91-94-1	3,3-Dichlorobenzidine	1.1E+00	ca	5.5E+00	ca	1.5E-02	ca	1.5E-01	ca	7.0E-03	3.0E-04
90-98-2	**4,4'-Dichlorobenzophenone**	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
764-41-0	1,4-Dichloro-2-butene	7.9E-03	ca	1.8E-02	ca	7.2E-04	ca	1.2E-03	ca		
75-71-8	Dichlorodifluoromethane	9.4E+01	nc	3.1E+02	nc	2.1E+02	nc	3.9E+02	nc		
75-34-3	1,1-Dichloroethane	5.9E+02	nc	2.1E+03	nc	5.2E+02	nc	8.1E+02	nc	2.3E+01	1.0E+00
	"CAL-Modified PRG"	3.3E+00	ca	7.1E+00	ca	1.2E+00	ca	2.0E+00	ca		
107-06-2	1,2-Dichloroethane (EDC)	3.5E-01	ca*	7.6E-01	ca*	7.4E-02	ca*	1.2E-01	ca*	2.0E-02	1.0E-03
75-35-4	1,1-Dichloroethylene	5.4E-02	ca	1.2E-01	ca	3.8E-02	ca	4.6E-02	ca	6.0E-02	3.0E-03
156-59-2	1,2-Dichloroethylene (cis)	4.3E+01	nc	1.5E+02	nc	3.7E+01	nc	6.1E+01	nc	4.0E-01	2.0E-02
156-60-5	1,2-Dichloroethylene (trans)	6.3E+01	nc	2.1E+02	nc	7.3E+01	nc	1.2E+02	nc	7.0E-01	3.0E-02
120-83-2	2,4-Dichlorophenol	1.8E+02	nc	2.6E+03	nc	1.1E+01	nc	1.1E+02	nc	1.0E+00	5.0E-02
94-82-6	4-(2,4-Dichlorophenoxy)butanoic Acid (2,4-DB)	4.9E+02	nc	7.0E+03	nc	2.9E+01	nc	2.9E+02	nc		
94-75-7	2,4-Dichlorophenoxyacetic Acid (2,4-D)	6.9E+02	nc	1.2E+04	nc	3.7E+01	nc	3.6E+02	nc		
78-87-5	1,2-Dichloropropane	3.5E-01	ca*	7.7E-01	ca*	9.9E-02	ca*	1.6E-01	ca*	3.0E-02	1.0E-03
542-75-6	**1,3-Dichloropropene**	7.0E-01	ca	1.6E+00	ca	4.8E-01	ca	4.0E-01	ca	4.0E-03	2.0E-04
616-23-9	2,3-Dichloropropanol	1.8E+02	nc	2.6E+03	nc	1.1E+01	nc	1.1E+02	nc		
62-73-7	Dichlorvos	1.7E+00	ca*	8.5E+00	ca*	2.3E-02	ca*	2.3E-01	ca*		
115-32-2	Dicofol	1.1E+00	ca	5.6E+00	ca	1.5E-02	ca	1.5E-01	ca		
77-73-6	Dicyclopentadiene	5.4E-01	nc	1.8E+00	nc	2.1E-01	nc	4.2E-01	nc		
60-57-1	Dieldrin	3.0E-02	ca	1.5E-01	ca	4.2E-04	ca	4.2E-03	ca	4.0E-03	2.0E-04
112-34-5	Diethylene glycol, monobutyl ether	3.5E+02	nc	5.0E+03	nc	2.1E+01	nc	2.1E+02	nc		
111-90-0	Diethylene glycol, monoethyl ether	1.0E+05	max	1.0E+05	max	7.3E+03	nc	7.3E+04	nc		
617-84-5	Diethylformamide	6.7E+02	nc	9.7E+03	nc	4.0E+01	nc	4.0E+02	nc		
103-23-1	Di(2-ethylhexyl)adipate	4.1E+02	ca	2.1E+03	ca	5.6E+00	ca	5.6E+01	ca		
84-66-2	Diethyl phthalate	4.9E+04	nc	1.0E+05	max	2.9E+03	nc	2.9E+04	nc		
56-53-1	Diethylstilbestrol	1.0E-04	ca	5.2E-04	ca	1.4E-06	ca	1.4E-05	ca		
43222-48-6	Difenzoquat (Avenge)	4.9E+03	nc	7.0E+04	nc	2.9E+02	nc	2.9E+03	nc		
35367-38-5	Diflubenzuron	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
75-37-6	1,1-Difluoroethane					4.2E+04	nc	6.9E+04	nc		
28553-12-0	**Diisononyl phthalate**	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		

1445-75-6	Diisopropyl methylphosphonate	4.9E+03	nc	7.0E+04	nc	2.9E+02	nc	2.9E+03	nc		
55290-64-7	Dimethipin	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
60-51-5	Dimethoate	1.2E+01	nc	1.8E+02	nc	7.3E-01	nc	7.3E+00	nc		
119-90-4	3,3'-Dimethoxybenzidine	3.5E+01	ca	1.8E+02	ca	4.8E-01	ca	4.8E+00	ca		
124-40-3	Dimethylamine	6.7E-02	nc	2.5E-01	nc	2.1E-02	nc	3.5E-02	nc		
121-69-7	N-N-Dimethylaniline	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
95-68-1	2,4-Dimethylaniline	6.5E-01	ca	3.3E+00	ca	9.0E-03	ca	9.0E-02	ca		
21436-96-4	2,4-Dimethylaniline hydrochloride	8.4E-01	ca	4.3E+00	ca	1.2E-02	ca	1.2E-01	ca		
119-93-7	3,3'-Dimethylbenzidine	5.3E-02	ca	2.7E-01	ca	7.3E-04	ca	7.3E-03	ca		
57-14-7	1,1-Dimethylhydrazine	1.9E-01	ca	9.5E-01	ca	1.9E-03	ca	2.6E-02	ca		
540-73-8	1,2-Dimethylhydrazine	1.3E-02	ca	6.7E-02	ca	1.8E-04	ca	1.8E-03	ca		
68-12-2	N,N-Dimethylformamide	6.1E+03	nc	8.8E+04	nc	3.1E+01	nc	3.6E+03	nc		
122-09-8	Dimethylphenethylamine	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
105-67-9	2,4-Dimethylphenol	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc	9.0E+00	4.0E-01
576-26-1	2,6-Dimethylphenol	3.7E+01	nc	5.3E+02	nc	2.2E+00	nc	2.2E+01	nc		
95-65-8	3,4-Dimethylphenol	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
131-11-3	Dimethyl phthalate	1.0E+05	max	1.0E+05	max	3.7E+04	nc	3.6E+05	nc		
120-61-6	Dimethyl terephthalate	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		
131-89-5	4,6-Dinitro-o-cyclohexyl phenol	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
528-29-0	1,2-Dinitrobenzene	2.4E+01	nc	3.5E+02	nc	1.5E+00	nc	1.5E+01	nc		
99-65-0	1,3-Dinitrobenzene	6.1E+00	nc	8.8E+01	nc	3.7E-01	nc	3.6E+00	nc		
100-25-4	1,4-Dinitrobenzene	2.4E+01	nc	3.5E+02	nc	1.5E+00	nc	1.5E+01	nc		
51-28-5	2,4-Dinitrophenol	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc	3.0E-01	1.0E-02
25321-14-6	Dinitrotoluene mixture	7.2E-01	ca	3.6E+00	ca	9.9E-03	ca	9.9E-02	ca	8.0E-04	4.0E-05
121-14-2	2,4-Dinitrotoluene (see Dinitrotoluene mixture)	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc	8.0E-04	4.0E-05
606-20-2	2,6-Dinitrotoluene (see Dinitrotoluene mixture)	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc	7.0E-04	3.0E-05
88-85-7	Dinoseb	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
117-84-0	di-n-Octyl phthalate	1.2E+03	nc	1.0E+04	sat	7.3E+01	nc	7.3E+02	nc	1.0E+04	1.0E+04
123-91-1	1,4-Dioxane	4.4E+01	ca	2.2E+02	ca	6.1E-01	ca	6.1E+00	ca		

1746-01-6	Dioxin (2,3,7,8-TCDD)	3.9E-06	ca	2.7E-05	ca	4.5E-08	ca	4.5E-07	ca		
957-51-7	Diphenamid	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
122-39-4	Diphenylamine	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
74-31-7	**N,N-Diphenyl-1,4 benzenediamine (DPPD)**	1.8E+01	nc	2.6E+02	nc	1.1E+00	nc	1.1E+01	nc		
122-66-7	1,2-Diphenylhydrazine	6.1E-01	ca	3.1E+00	ca	8.7E-03	ca	8.4E-02	ca		
127-63-9	Diphenyl sulfone	5.5E+02	nc	7.9E+03	nc	3.3E+01	nc	3.3E+02	nc		
85-00-7	Diquat	1.3E+02	nc	1.9E+03	nc	8.0E+00	nc	8.0E+01	nc		
1937-37-7	Direct black 38	5.7E-02	ca	2.9E-01	ca	7.8E-04	ca	7.8E-03	ca		
2602-46-2	Direct blue 6	6.0E-02	ca	3.0E-01	ca	8.3E-04	ca	8.3E-03	ca		
16071-86-6	Direct brown 95	5.2E-02	ca	2.7E-01	ca	7.2E-04	ca	7.2E-03	ca		
298-04-4	Disulfoton	2.4E+00	nc	3.5E+01	nc	1.5E-01	nc	1.5E+00	nc		
505-29-3	1,4-Dithiane	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
330-54-1	Diuron	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
2439-10-3	Dodine	2.4E+02	nc	3.5E+03	nc	1.5E+01	nc	1.5E+02	nc		
7429-91-6	**Dysprosium**	1.6E+04	nc	1.0E+05	max			7.3E+03	nc		
115-29-7	Endosulfan	3.7E+02	nc	5.3E+03	nc	2.2E+01	nc	2.2E+02	nc	1.8E+01	9.0E-01
145-73-3	Endothall	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
72-20-8	Endrin	1.8E+01	nc	2.6E+02	nc	1.1E+00	nc	1.1E+01	nc	1.0E+00	5.0E-02
106-89-8	Epichlorohydrin	7.6E+00	nc	2.6E+01	nc	1.0E+00	nc	2.0E+00	nc		
106-88-7	1,2-Epoxybutane	3.5E+02	nc	5.0E+03	nc	2.1E+01	nc	2.1E+02	nc		
759-94-4	EPTC (S-Ethyl dipropylthiocarbamate)	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
16672-87-0	Ethephon (2-chloroethyl phosphonic acid)	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
563-12-2	Ethion	3.1E+01	nc	4.4E+02	nc	1.8E+00	nc	1.8E+01	nc		
110-80-5	2-Ethoxyethanol	2.4E+04	nc	1.0E+05	max	2.1E+02	nc	1.5E+04	nc		
111-15-9	2-Ethoxyethanol acetate	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc		
141-78-6	Ethyl acetate	1.9E+04	nc	3.7E+04	sat	3.3E+03	nc	5.5E+03	nc		
140-88-5	Ethyl acrylate	2.1E-01	ca	4.5E-01	ca	1.4E-01	ca	2.3E-01	ca		
100-41-4	Ethylbenzene	2.3E+02	sat	2.3E+02	sat	1.1E+03	nc	1.3E+03	nc	1.3E+01	7.0E-01
75-00-3	Ethyl chloride	3.0E+00	ca	6.5E+00	ca	2.3E+00	ca	4.6E+00	ca		
109-78-4	Ethylene cyanohydrin	1.8E+04	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc		

107-15-3	Ethylene diamine	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc
107-21-1	Ethylene glycol	1.0E+05	max	1.0E+05	max	7.3E+03	nc	7.3E+04	nc
111-76-2	**Ethylene glycol, monobutyl ether**	3.1E+04	nc	1.0E+05	max	1.4E+04	nc	1.8E+04	nc
75-21-8	Ethylene oxide	1.4E-01	ca	3.6E-01	ca	1.9E-02	ca	2.4E-02	ca
96-45-7	Ethylene thiourea (ETU)	4.4E+00	ca**	2.2E+01	ca**	6.1E-02	ca**	6.1E-01	ca**
60-29-7	Ethyl ether	1.8E+03	sat	1.8E+03	sat	7.3E+02	nc	1.2E+03	nc
97-63-2	Ethyl methacrylate	1.4E+02	sat	1.4E+02	sat	3.3E+02	nc	5.5E+02	nc
2104-64-5	Ethyl p-nitrophenyl phenylphosphorothioate	6.1E-01	nc	8.8E+00	nc	3.7E-02	nc	3.6E-01	nc
84-72-0	Ethylphthalyl ethyl glycolate	1.0E+05	max	1.0E+05	max	1.1E+04	nc	1.1E+05	nc
101200-48-0	Express	4.9E+02	nc	7.0E+03	nc	2.9E+01	nc	2.9E+02	nc
22224-92-6	Fenamiphos	1.5E+01	nc	2.2E+02	nc	9.1E-01	nc	9.1E+00	nc

Key:

i = IRIS
h = HEAST
n = NCEA
x = WITHDRAWN
o = OTHER EPA DOCUMENTS
r = ROUTE EXTRAPOLATION
ca = CANCER PRG
nc = NONCANCER PRG
sat = SOIL SATURATION
max = CEILING LIMIT
*indicates that the noncancer PRG < = 100X the cancer PRG
**indicates that the noncancer PRG < 10X the cancer PRG
BOLD=New or revised Toxicity values

Region 9 Waste Home | Region 9 Superfund Home | Region 9 PRG Home
Region 9 Home | EPA Home | Search | Comments/Questions

Region 9 Office: 75 Hawthorne St., San Francisco, Calif., 94105
Send PRG-related comments and questions to smucker.stan@epa.gov

Updated: November 22, 2000

URL: http://www.epa.gov/region09/waste/sfund/prg/s1_03.htm

EPA United States Environmental Protection Agency

Waste Programs

Region 9

PRG Tables: Fl-Mo

PRG Home | **What's New** | **FAQ** | **Other Links**
R9 PRG Tables: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Soil Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Air-Water Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Toxicity Values: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Phys-Chem Data: A-Di | Ep-Tr

CONTAMINANT		PRELIMINARY REMEDIATION GOALS (PRGs)								SOIL SCREENING LEVELS Migration to Ground Water	
CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
2164-17-2	Fluometuron	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
16984-48-8	Flouride	3.7E+03	nc	5.3E+04	nc			2.2E+03	nc		
59756-60-4	Fluoridone	4.9E+03	nc	7.0E+04	nc	2.9E+02	nc	2.9E+03	nc		
56425-91-3	Flurprimidol	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
66332-96-5	Flutolanil	3.7E+03	nc	5.3E+04	nc	2.2E+02	nc	2.2E+03	nc		
69409-94-5	Fluvalinate	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
133-07-3	Folpet	1.4E+02	ca*	7.0E+02	ca	1.9E+00	ca	1.9E+01	ca		
72178-02-0	Fomesafen	2.6E+00	ca	1.3E+01	ca	3.5E-02	ca	3.5E-01	ca		
944-22-9	Fonofos	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
50-00-0	Formaldehyde	9.2E+03	nc	1.0E+05	nc	1.5E-01	ca	5.5E+03	nc		
64-18-6	Formic Acid	1.0E+05	max	1.0E+05	max	7.3E+03	nc	7.3E+04	nc		
39148-24-8	Fosetyl-al	1.0E+05	max	1.0E+05	max	1.1E+04	nc	1.1E+05	nc		
76-13-1	Freon 113	5.6E+03	sat	5.6E+03	sat	3.1E+04	nc	5.9E+04	nc		
110-00-9	Furan	2.5E+00	nc	8.5E+00	nc	3.7E+00	nc	6.1E+00	nc		

67-45-8	Furazolidone	1.3E-01	nc	6.5E-01	nc	1.8E-03	nc	1.8E-02	ca		
98-01-1	Furfural	1.8E+02	nc	2.6E+03	nc	5.2E+01	nc	1.1E+02	nc		
531-82-8	Furium	9.7E-03	ca	4.9E-02	ca	1.3E-04	ca	1.3E-03	ca		
60568-05-0	Furmecyclox	1.6E+01	ca	8.2E+01	ca	2.2E-01	ca	2.2E+00	ca		
77182-82-2	Glufosinate ammonium	2.4E+01	nc	3.5E+02	nc	1.5E+00	nc	1.5E+01	nc		
765-34-4	Glycidaldehyde	2.4E+01	nc	3.5E+02	nc	1.0E+00	nc	1.5E+01	nc		
1071-83-6	Glyphosate	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		
69806-40-2	Haloxyfop methyl	3.1E+00	nc	4.4E+01	nc	1.8E-01	nc	1.8E+00	nc		
79277-27-3	Harmony	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
76-44-8	Heptachlor	1.1E-01	ca	5.5E-01	ca	1.5E-03	ca	1.5E-02	ca	2.3E+01	1.0E+00
1024-57-3	Heptachlor epoxide	5.3E-02	ca*	2.7E-01	ca*	7.4E-04	ca*	7.4E-03	ca*	7.0E-01	3.0E-02
87-82-1	Hexabromobenzene	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
118-74-1	Hexachlorobenzene	3.0E-01	ca	1.5E+00	ca	4.2E-03	ca	4.2E-02	ca	2.0E+00	1.0E-01
87-68-3	**Hexachlorobutadiene**	6.2E+00	ca**	3.2E+01	ca**	8.6E-02	ca*	8.6E-01	ca*	2.0E+00	1.0E-01
319-84-6	HCH (alpha)	9.0E-02	ca	5.9E-01	ca	1.1E-03	ca	1.1E-02	ca	5.0E-04	3.0E-05
319-85-7	HCH (beta)	3.2E-01	ca	2.1E+00	ca	3.7E-03	ca	3.7E-02	ca	3.0E-03	1.0E-04
58-89-9	HCH (gamma) Lindane	4.4E-01	ca*	2.9E+00	ca	5.2E-03	ca	5.2E-02	ca	9.0E-03	5.0E-04
608-73-1	HCH technical	3.2E-01	ca	2.1E+00	ca	3.8E-03	ca	3.7E-02	ca	3.0E-03	1.0E-04
77-47-4	Hexachlorocyclopentadiene	4.2E+02	nc	5.9E+03	nc	7.3E-02	nc	2.6E+02	nc	4.0E+02	2.0E+01
19408-74-3	Hexachlorodibenzo-p-dioxin mixture (HxCDD)	7.8E-05	ca	4.0E-04	ca	1.5E-06	ca	1.1E-05	ca		
67-72-1	Hexachloroethane	3.5E+01	ca**	1.8E+02	ca**	4.8E-01	ca**	4.8E+00	ca**	5.0E-01	2.0E-02
70-30-4	Hexachlorophene	1.8E+01	nc	2.6E+02	nc	1.1E+00	nc	1.1E+01	nc		
121-82-4	Hexahydro-1,3,5-trinitro-1,3,5-triazine	4.4E+00	ca*	2.2E+01	ca	6.1E-02	ca	6.1E-01	ca		
822-06-0	1,6-Hexamethylene diisocyanate	1.7E-01	nc	2.5E+00	nc	1.0E-02	nc	1.0E-01	nc		
110-54-3	n-Hexane	1.1E+02	sat	1.1E+02	sat	2.1E+02	nc	3.5E+02	nc		
51235-04-2	Hexazinone	2.0E+03	nc	2.9E+04	nc	1.2E+02	nc	1.2E+03	nc		
2691-41-0	HMX	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
302-01-2	Hydrazine, hydrazine sulfate	1.6E-01	ca	8.2E-01	ca	3.9E-04	ca	2.2E-02	ca		
60-34-4	**Hydrazine, monomethyl**	1.6E-01	ca	8.2E-01	ca	4.0E-04	ca	2.2E-02	ca		
57-14-7	**Hydrazine, dimethyl**	1.6E-01	ca	8.2E-01	ca	4.0E-04	ca	2.2E-02	ca		
7647-01-0	Hydrogen chloride					2.1E+01	nc				

7783-06-4	Hydrogen sulfide					1.0E+00	nc	1.1E+02	nc		
123-31-9	p-Hydroquinone	2.4E+03	nc	3.5E+04	nc	1.5E+02	nc	1.5E+03	nc		
35554-44-0	Imazalil	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
81335-37-7	Imazaquin	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc		
36734-19-7	Iprodione	2.4E+03	nc	3.5E+04	nc	1.5E+02	nc	1.5E+03	nc		
7439-89-6	Iron	2.3E+04	nc	1.0E+05	max			1.1E+04	nc		
78-83-1	Isobutanol	1.3E+04	nc	4.0E+04	sat	1.1E+03	nc	1.8E+03	nc		
78-59-1	Isophorone	5.1E+02	ca*	2.6E+03	ca*	7.1E+00	ca	7.1E+01	ca	5.0E-01	3.0E-02
33820-53-0	Isopropalin	9.2E+02	nc	1.3E+04	nc	5.5E+01	nc	5.5E+02	nc		
1832-54-8	Isopropyl methyl phosphonic acid	6.1E+03	nc	8.8E+04	nc	4.0E+02	nc	3.6E+03	nc		
82558-50-7	Isoxaben	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
143-50-0	Kepone	2.7E-02	ca	1.4E-01	ca	3.7E-04	ca	3.7E-03	ca		
77501-63-4	Lactofen	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
7439-92-1	Lead	4.0E+02	nc	7.5E+02	nc						
78-00-2	Lead (tetraethyl)	6.1E-03	nc	8.8E-02	nc			3.6E-03	nc		
330-55-2	Linuron	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
7439-93-2	Lithium	1.6E+03	nc	4.1E+04	nc			7.3E+02	nc		
83055-99-6	Londax	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
121-75-5	Malathion	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
108-31-6	Maleic anhydride	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		
123-33-1	Maleic hydrazide	1.7E+03	nc	2.4E+03	sat	1.8E+03	nc	3.0E+03	nc		
109-77-3	Malononitrile	1.2E+00	nc	1.8E+01	nc	7.3E-02	nc	7.3E-01	nc		
8018-01-7	Mancozeb	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
12427-38-2	Maneb	8.1E+00	ca*	4.1E+01	ca	1.1E-01	ca	1.1E+00	ca		
7439-96-5	Manganese and compounds	1.8E+03	nc	3.2E+04	nc	5.1E-02	nc	8.8E+02	nc		
950-10-7	Mephosfolan	5.5E+00	nc	7.9E+01	nc	3.3E-01	nc	3.3E+00	nc		
24307-26-4	Mepiquat	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
149-30-4	2-Mercaptobenzothiazole	1.7E+01	ca	8.5E+01	ca	2.3E-01	ca	2.3E+00	ca		
7487-94-7	Mercury and compounds	2.3E+01	nc	6.1E+02	nc			1.1E+01	nc		
7439-97-6	Mercury (elemental)					3.1E-01	nc				
22967-92-6	Mercury (methyl)	6.1E+00	nc	8.8E+01	nc			3.6E+00	nc		
150-50-5	Merphos	1.8E+00	nc	2.6E+01	nc	1.1E-01	nc	1.1E+00	nc		

78-48-8	Merphos oxide	1.8E+00	nc	2.6E+01	nc	1.1E-01	nc	1.1E+00	nc		
57837-19-1	Metalaxyl	3.7E+03	nc	5.3E+04	nc	2.2E+02	nc	2.2E+03	nc		
126-98-7	Methacrylonitrile	2.1E+00	nc	8.8E+00	nc	7.3E-01	nc	1.0E+00	nc		
10265-92-6	Methamidophos	3.1E+00	nc	4.4E+01	nc	1.8E-01	nc	1.8E+00	nc		
67-56-1	Methanol	3.1E+04	nc	1.0E+05	max	1.8E+03	nc	1.8E+04	nc		
950-37-8	Methidathion	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
16752-77-5	Methomyl	4.4E+01	nc	1.5E+02	nc	9.1E+01	nc	1.5E+02	nc		
72-43-5	Methoxychlor	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc	1.6E+02	8.0E+00
109-86-4	2-Methoxyethanol	6.1E+01	nc	8.8E+02	nc	2.1E+01	nc	3.6E+01	nc		
110-49-6	2-Methoxyethanol acetate	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
99-59-2	2-Methoxy-5-nitroaniline	1.1E+01	ca	5.4E+01	ca	1.5E-01	ca	1.5E+00	ca		
79-20-9	Methyl acetate	2.2E+04	nc	9.6E+04	nc	3.7E+03	nc	6.1E+03	nc		
96-33-3	Methyl acrylate	7.0E+01	nc	2.3E+02	nc	1.1E+02	nc	1.8E+02	nc		
95-53-4	2-Methylaniline (o-toluidine)	2.0E+00	ca	1.0E+01	ca	2.8E-02	ca	2.8E-01	ca		
636-21-5	2-Methylaniline hydrochloride	2.7E+00	ca	1.4E+01	ca	3.7E-02	ca	3.7E-01	ca		
79-22-1	Methyl chlorocarbonate	6.1E+04	nc	1.0E+05	max	3.7E+03	nc	3.6E+04	nc		
94-74-6	2-Methyl-4-chlorophenoxyacetic acid	3.1E+01	nc	4.4E+02	nc	1.8E+00	nc	1.8E+01	nc		
94-81-5	4-(2-Methyl-4-chlorophenoxy)butyric acid	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
93-65-2	2-(2-Methyl-4-chlorophenoxy) propionic acid	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
16484-77-8	2-(2-Methyl-1,4-chlorophenoxy) propionic acid	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
108-87-2	Methylcyclohexane	2.6E+03	nc	8.8E+03	nc	3.1E+03	nc	5.2E+03	nc		
101-77-9	4,4'-Methylenebisbenzenamine	1.9E+00	ca	9.9E+00	ca	2.7E-02	ca	2.7E-01	ca		
101-14-4	4,4'-Methylene bis(2-chloroaniline)	3.7E+00	ca*	1.9E+01	ca*	5.2E-02	ca*	5.2E-01	ca*		
101-61-1	4,4'-Methylene bis(N,N'-dimethyl)aniline	1.1E+01	ca	5.4E+01	ca	1.5E-01	ca	1.5E+00	ca		
74-95-3	Methylene bromide	6.7E+01	nc	2.4E+02	nc	3.7E+01	nc	6.1E+01	nc		
75-09-2	Methylene chloride	8.9E+00	ca	2.1E+01	ca	4.1E+00	ca	4.3E+00	ca	2.0E-02	1.0E-03
101-68-8	4,4'-Methylene diphenyl diisocyanate	1.0E+01	nc	1.5E+02	nc	6.2E-01	nc	6.2E+00	nc		
78-93-3	Methyl ethyl ketone	7.3E+03	nc	2.8E+04	nc	1.0E+03	nc	1.9E+03	nc		
60-34-4	Methyl hydrazine	4.4E-01	ca	2.2E+00	ca	6.1E-03	ca	6.1E-02	ca		
108-10-1	Methyl isobutyl ketone	7.9E+02	nc	2.9E+03	nc	8.3E+01	nc	1.6E+02	nc		

74-93-1	Methyl Mercaptan	3.5E+01	nc	5.0E+02	nc	2.1E+00	nc	2.1E+01	nc		
80-62-6	Methyl methacrylate	2.2E+03	nc	2.7E+03	sat	7.3E+02	nc	1.4E+03	nc		
99-55-8	2-Methyl-5-nitroaniline	1.5E+01	ca	7.5E+01	ca	2.0E-01	ca	2.0E+00	ca		
298-00-0	Methyl parathion	1.5E+01	nc	2.2E+02	nc	9.1E-01	nc	9.1E+00	nc		
95-48-7	2-Methylphenol	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc	1.5E+01	8.0E-01
108-39-4	3-Methylphenol	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
106-44-5	4-Methylphenol	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
993-13-5	Methyl phosphonic acid	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
25013-15-4	Methyl styrene (mixture)	1.3E+02	nc	5.6E+02	nc	4.2E+01	nc	6.0E+01	nc		
98-83-9	Methyl styrene (alpha)	6.8E+02	sat	6.8E+02	sat	2.6E+02	nc	4.3E+02	nc		
1634-04-4	Methyl tertbutyl ether (MTBE)					3.1E+03	nc	2.0E+01	nc/ca		
	"CAL-Modified PRG"	1.7E+01	ca	3.7E+01	ca	3.7E+00	ca	6.2E+00	ca		
51218-45-2	Metolaclor (Dual)	9.2E+03	nc	1.0E+05	max	5.5E+02	nc	5.5E+03	nc		
21087-64-9	Metribuzin	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
2385-85-5	Mirex	2.7E-01	ca*	1.4E+00	ca	3.7E-03	ca	3.7E-02	ca		
2212-67-1	Molinate	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
7439-98-7	Molybdenum	3.9E+02	nc	1.0E+04	nc			1.8E+02	nc		
10599-90-3	Monochloramine	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		

Key:

i = IRIS
h = HEAST
n = NCEA
x = WITHDRAWN
o = OTHER EPA DOCUMENTS
r = ROUTE EXTRAPOLATION
ca = CANCER PRG
nc = NONCANCER PRG
sat = SOIL SATURATION
max = CEILING LIMIT
*indicates that the noncancer PRG < = 100X the cancer PRG
**indicates that the noncancer PRG < 10X the cancer PRG
BOLD=New or revised Toxicity values

Region 9 Waste Home | Region 9 Superfund Home | Region 9 PRG Home
Region 9 Home | EPA Home | Search | Comments/Questions

Region 9 Office: 75 Hawthorne St., San Francisco, Calif., 94105

Send PRG-related comments and questions to smucker.stanley@epa.gov

Updated: November 22, 2000

URL: http://www.epa.gov/region09/waste/sfund/prg/s1_04.htm

7, 8, 9 of 9 blank

EPA United States Environmental Protection Agency

Waste Programs

Region 9

PRG Tables: Na-Pu

PRG Home | **What's New** | **FAQ** | **Other Links**
R9 PRG Tables: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Soil Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Air-Water Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Toxicity Values: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Phys-Chem Data: A-Di | Ep-Tr

	CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs)								SOIL SCREENING LEVELS Migration to Ground Water	
CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
300-76-5	Naled	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
15299-99-7	Napropamide	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		
7440-02-0	Nickel (soluble salts)	1.6E+03	nc	4.1E+04	nc			7.3E+02	nc	1.3E+02	7.0E+00
	"CAL-Modified PRG" (PEA, 1994)	1.5E+02									
	Nickel refinery dust					8.0E-03	ca				
12035-72-2	Nickel subsulfide			1.1E+04	ca	4.0E-03	ca				
1929-82-4	Nitrapyrin	9.2E+01	nc	1.3E+03	nc	5.5E+00	nc	5.5E+01	nc		
14797-55-8	Nitrate							1.0E+04	nc		
10102-43-9	Nitric Oxide	7.8E+03	nc	1.0E+05	max			3.6E+03	nc		
14797-65-0	Nitrite							1.0E+03	nc		
88-74-4	2-Nitroaniline	3.5E+00	nc	5.0E+01	nc	2.1E-01	nc	2.1E+00	nc		
98-95-3	Nitrobenzene	2.0E+01	nc	1.1E+02	nc	2.1E+00	nc	3.4E+00	nc	1.0E-01	7.0E-03
67-20-9	Nitrofurantoin	4.3E+03	nc	6.2E+04	nc	2.6E+02	nc	2.6E+03	nc		

59-87-0	Nitrofurazone	3.2E-01	ca	1.6E+00	ca	7.2E-04	ca	4.5E-02	ca		
55-63-0	Nitroglycerin	3.5E+01	ca	1.8E+02	ca	4.8E-01	ca	4.8E+00	ca		
556-88-7	Nitroguanidine	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		
100-02-7	4-Nitrophenol	4.9E+02	nc	7.0E+03	nc	2.9E+01	nc	2.9E+02	nc		
79-46-9	2-Nitropropane					7.2E-04	ca	1.2E-03	ca		
924-16-3	N-Nitrosodi-n-butylamine	2.4E-02	ca	6.1E-02	ca	1.2E-03	ca	2.0E-03	ca		
1116-54-7	N-Nitrosodiethanolamine	1.7E-01	ca	8.8E-01	ca	2.4E-03	ca	2.4E-02	ca		
55-18-5	N-Nitrosodiethylamine	3.2E-03	ca	1.6E-02	ca	4.5E-05	ca	4.5E-04	ca		
62-75-9	N-Nitrosodimethylamine	9.5E-03	ca	4.8E-02	ca	1.4E-04	ca	1.3E-03	ca		
86-30-6	N-Nitrosodiphenylamine	9.9E+01	ca	5.0E+02	ca	1.4E+00	ca	1.4E+01	ca	1.0E+00	6.0E-02
621-64-7	N-Nitrosodi-n-propylamine	6.9E-02	ca	3.5E-01	ca	9.6E-04	ca	9.6E-03	ca	5.0E-05	2.0E-06
10595-95-6	N-Nitroso-N-methylethylamine	2.2E-02	ca	1.1E-01	ca	3.1E-04	ca	3.1E-03	ca		
930-55-2	N-Nitrosopyrrolidine	2.3E-01	ca	1.2E+00	ca	3.1E-03	ca	3.2E-02	ca		
99-08-1	m-Nitrotoluene	3.7E+02	nc	1.0E+03	sat	3.7E+01	nc	6.1E+01	nc		
88-72-2	o-Nitrotoluene	3.7E+02	nc	1.0E+03	sat	3.7E+01	nc	6.1E+01	nc		
99-99-0	p-Nitrotoluene	3.7E+02	nc	1.0E+03	sat	3.7E+01	nc	6.1E+01	nc		
27314-13-2	Norflurazon	2.4E+03	nc	3.5E+04	nc	1.5E+02	nc	1.5E+03	nc		
85509-19-9	NuStar	4.3E+01	nc	6.2E+02	nc	2.6E+00	nc	2.6E+01	nc		
32536-52-0	Octabromodiphenyl ether	1.8E+02	nc	2.6E+03	nc	1.1E+01	nc	1.1E+02	nc		
152-16-9	Octamethylpyrophosphoramide	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
19044-88-3	Oryzalin	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
19666-30-9	Oxadiazon	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
23135-22-0	Oxamyl	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
42874-03-3	Oxyfluorfen	1.8E+02	nc	2.6E+03	nc	1.1E+01	nc	1.1E+02	nc		
76738-62-0	Paclobutrazol	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
4685-14-7	Paraquat	2.7E+02	nc	4.0E+03	nc	1.6E+01	nc	1.6E+02	nc		
56-38-2	Parathion	3.7E+02	nc	5.3E+03	nc	2.2E+01	nc	2.2E+02	nc		
1114-71-2	Pebulate	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
40487-42-1	Pendimethalin	2.4E+03	nc	3.5E+04	nc	1.5E+02	nc	1.5E+03	nc		
87-84-3	Pentabromo-6-chloro cyclohexane	2.1E+01	ca	1.1E+02	ca	2.9E-01	ca	2.9E+00	ca		
32534-81-9	Pentabromodiphenyl ether	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		

608-93-5	Pentachlorobenzene	4.9E+01	nc	7.0E+02	nc	2.9E+00	nc	2.9E+01	nc		
82-68-8	Pentachloronitrobenzene	1.9E+00	ca*	9.5E+00	ca	2.6E-02	ca	2.6E-01	ca		
87-86-5	Pentachlorophenol	3.0E+00	ca	1.1E+01	ca	5.6E-02	ca	5.6E-01	ca	3.0E-02	1.0E-03
7601-90-3	Perchlorate	3.9E+01	nc	1.0E+03	nc			1.8E+01	nc		
52645-53-1	Permethrin	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
13684-63-4	Phenmedipham	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc		
108-95-2	Phenol	3.7E+04	nc	1.0E+05	max	2.2E+03	nc	2.2E+04	nc	1.0E+02	5.0E+00
92-84-2	Phenothiazine	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
108-45-2	m-Phenylenediamine	3.7E+02	nc	5.3E+03	nc	2.2E+01	nc	2.2E+02	nc		
106-50-3	p-Phenylenediamine	1.2E+04	nc	1.0E+05	max	6.9E+02	nc	6.9E+03	nc		
62-38-4	Phenylmercuric acetate	4.9E+00	nc	7.0E+01	nc	2.9E-01	nc	2.9E+00	nc		
90-43-7	2-Phenylphenol	2.5E+02	ca	1.3E+03	ca	3.5E+00	ca	3.5E+01	ca		
298-02-2	Phorate	1.2E+01	nc	1.8E+02	nc	7.3E-01	nc	7.3E+00	nc		
732-11-6	Phosmet	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
7803-51-2	Phosphine	1.8E+01	nc	2.6E+02	nc	3.1E-01	nc	1.1E+01	nc		
7664-38-2	Phosphoric acid					1.0E+01	nc				
7723-14-0	Phosphorus (white)	1.6E+00	nc	4.1E+01	nc			7.3E-01	nc		
100-21-0	p-Phthalic acid	6.1E+04	nc	1.0E+05	max	3.7E+03	nc	3.6E+04	nc		
85-44-9	Phthalic anhydride	1.0E+05	max	1.0E+05	max	1.2E+02	nc	7.3E+04	nc		
1918-02-1	Picloram	4.3E+03	nc	6.2E+04	nc	2.6E+02	nc	2.6E+03	nc		
23505-41-1	Pirimiphos-methyl	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
	Polybrominated biphenyls	5.5E-02	ca**	2.8E-01	ca*	7.6E-04	ca*	7.6E-03	ca*		
1336-36-3	Polychlorinated biphenyls (PCBs)	2.2E-01	ca	1.0E+00	ca	3.4E-03	ca	3.4E-02	ca		
12674-11-2	Aroclor 1016	3.9E+00	nc	2.9E+01	ca**	9.6E-02	ca**	9.6E-01	ca**		
11104-28-2	Aroclor 1221	2.2E-01	ca	1.0E+00	ca	3.4E-03	ca	3.4E-02	ca		
11141-16-5	Aroclor 1232	2.2E-01	ca	1.0E+00	ca	3.4E-03	ca	3.4E-02	ca		
53469-21-9	Aroclor 1242	2.2E-01	ca	1.0E+00	ca	3.4E-03	ca	3.4E-02	ca		
12672-29-6	Aroclor 1248	2.2E-01	ca	1.0E+00	ca	3.4E-03	ca	3.4E-02	ca		
11097-69-1	Aroclor 1254	2.2E-01	ca**	1.0E+00	ca*	3.4E-03	ca*	3.4E-02	ca*		
11096-82-5	Aroclor 1260	2.2E-01	ca	1.0E+00	ca	3.4E-03	ca	3.4E-02	ca		
	Polynuclear aromatic hydrocarbons (PAHs)										

83-32-9	Acenaphthene	3.7E+03	nc	3.8E+04	nc	2.2E+02	nc	3.7E+02	nc	5.7E+02	2.9E+01
120-12-7	Anthracene	2.2E+04	nc	1.0E+05	max	1.1E+03	nc	1.8E+03	nc	1.2E+04	5.9E+02
56-55-3	Benz[a]anthracene	6.2E-01	ca	2.9E+00	ca	2.2E-02	ca	9.2E-02	ca	2.0E+00	8.0E-02
205-99-2	Benzo[b]fluoranthene	6.2E-01	ca	2.9E+00	ca	2.2E-02	ca	9.2E-02	ca	5.0E+00	2.0E-01
207-08-9	Benzo[k]fluoranthene	6.2E+00	ca	2.9E+01	ca	2.2E-01	ca	9.2E-01	ca	4.9E+01	2.0E+00
	"CAL Modified PRG" (PEA, 1994)	6.1E-01									
50-32-8	Benzo[a]pyrene	6.2E-02	ca	2.9E-01	ca	2.2E-03	ca	9.2E-03	ca	8.0E+00	4.0E-01
	"CAL Modified PRG" (PEA, 1994)							1.5E-03			
218-01-9	Chrysene	6.2E+01	ca	2.9E+02	ca	2.2E+00	ca	9.2E+00	ca	1.6E+02	8.0E+00
	"CAL Modified PRG" (PEA, 1994)	6.1E+00									
53-70-3	Dibenz[ah]anthracene	6.2E-02	ca	2.9E-01	ca	2.2E-03	ca	9.2E-03	ca	2.0E+00	8.0E-02
206-44-0	Fluoranthene	2.3E+03	nc	3.0E+04	nc	1.5E+02	nc	1.5E+03	nc	4.3E+03	2.1E+02
86-73-7	Fluorene	2.6E+03	nc	3.3E+04	nc	1.5E+02	nc	2.4E+02	nc	5.6E+02	2.8E+01
193-39-5	Indeno[1,2,3-cd]pyrene	6.2E-01	ca	2.9E+00	ca	2.2E-02	ca	9.2E-02	ca	1.4E+01	7.0E-01
91-20-3	Naphthalene	5.6E+01	nc	1.9E+02	nc	3.1E+00	nc	6.2E+00	nc	8.4E+01	4.0E+00
129-00-0	Pyrene	2.3E+03	nc	5.4E+04	nc	1.1E+02	nc	1.8E+02	nc	4.2E+03	2.1E+02
67747-09-5	Prochloraz	3.2E+00	ca	1.6E+01	ca	4.5E-02	ca	4.5E-01	ca		
26399-36-0	Profluralin	3.7E+02	nc	5.3E+03	nc	2.2E+01	nc	2.2E+02	nc		
1610-18-0	Prometon	9.2E+02	nc	1.3E+04	nc	5.5E+01	nc	5.5E+02	nc		
7287-19-6	Prometryn	2.4E+02	nc	3.5E+03	nc	1.5E+01	nc	1.5E+02	nc		
23950-58-5	Pronamide	4.6E+03	nc	6.6E+04	nc	2.7E+02	nc	2.7E+03	nc		
1918-16-7	Propachlor	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
709-98-8	Propanil	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
2312-35-8	Propargite	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
107-19-7	Propargyl alcohol	1.2E+02	nc	1.8E+03	nc	7.3E+00	nc	7.3E+01	nc		
139-40-2	Propazine	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
122-42-9	Propham	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
60207-90-1	Propiconazole	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
98-82-8	Isopropylbenzene (Cumene)	1.6E+02	nc	5.2E+02	nc	4.0E+02	nc	6.6E+02	nc		
103-65-1	n-Propylbenzene	1.4E+02	nc	2.4E+02	sat	3.7E+01	nc	6.1E+01	nc		

57-55-6	Propylene glycol	1.0E+05	max	1.0E+05	max	7.3E+04	nc	7.3E+05	nc
111-35-3	Propylene glycol, monoethyl ether	4.3E+04	nc	1.0E+05	max	2.6E+03	nc	2.6E+04	nc
107-98-2	Propylene glycol, monomethyl ether	4.3E+04	nc	1.0E+05	max	2.1E+03	nc	2.6E+04	nc
75-56-9	Propylene oxide	1.9E+00	ca*	9.1E+00	ca*	5.2E-01	ca*	2.2E-01	ca
81335-77-5	Pursuit	1.5E+04	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc

Key:

i = IRIS
h = HEAST
n = NCEA
x = WITHDRAWN
o = OTHER EPA DOCUMENTS
r = ROUTE EXTRAPOLATION
ca = CANCER PRG
nc = NONCANCER PRG
sat = SOIL SATURATION
max = CEILING LIMIT
*indicates that the noncancer PRG <= 100X the cancer PRG
**indicates that the noncancer PRG < 10X the cancer PRG
BOLD=New or revised Toxicity values

Region 9 Waste Home | Region 9 Superfund Home | Region 9 PRG Home
Region 9 Home | EPA Home | Search | Comments/Questions

Region 9 Office: 75 Hawthorne St., San Francisco, Calif., 94105
Send PRG-related comments and questions to smucker.stan@epa.gov

Updated: November 22, 2000

URL: http://www.epa.gov/region09/waste/sfund/prg/s1_05.htm

EPA United States Environmental Protection Agency

Waste Programs

Region 9

PRG Tables: Py-Zi

PRG Home | What's New | FAQ | Other Links
R9 PRG Tables: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Soil Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Air-Water Calculations: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Toxicity Values: A-Bu | Ca-De | Di-Fe | Fl-Mo | Na-Pu | Py-Zi
Phys-Chem Data: A-Di | Ep-Tr

CONTAMINANT		PRELIMINARY REMEDIATION GOALS (PRGs)								SOIL SCREENING LEVELS Migration to Ground Water	
CAS No.		Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Ambient Air (ug/m^3)		Tap Water (ug/l)		DAF 20 (mg/kg)	DAF 1 (mg/kg)
51630-58-1	Pydrin	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
110-86-1	Pyridine	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
13593-03-8	Quinalphos	3.1E+01	nc	4.4E+02	nc	1.8E+00	nc	1.8E+01	nc		
91-22-5	Quinoline	4.1E-02	ca	2.1E-01	ca	5.6E-04	ca	5.6E-03	ca		
121-82-4	RDX (Cyclonite)	4.4E+00	ca*	2.2E+01	ca	6.1E-02	ca	6.1E-01	ca		
10453-86-8	Resmethrin	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
299-84-3	Ronnel	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		
83-79-4	Rotenone	2.4E+02	nc	3.5E+03	nc	1.5E+01	nc	1.5E+02	nc		
78587-05-0	Savey	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
7783-00-8	Selenious Acid	3.1E+02	nc	4.4E+03	nc			1.8E+02	nc		
7782-49-2	Selenium	3.9E+02	nc	1.0E+04	nc			1.8E+02	nc	5.0E+00	3.0E-01
630-10-4	Selenourea	3.1E+02	nc	4.4E+03	nc			1.8E+02	nc		
74051-80-2	Sethoxydim	5.5E+03	nc	7.9E+04	nc	3.3E+02	nc	3.3E+03	nc		
7440-22-4	Silver and compounds	3.9E+02	nc	1.0E+04	nc			1.8E+02	nc	3.4E+01	2.0E+00

122-34-9	Simazine	4.1E+00	ca*	2.1E+01	ca	5.6E-02	ca	5.6E-01	ca		
26628-22-8	Sodium azide										
148-18-5	Sodium diethyldithiocarbamate	1.8E+00	ca	9.1E+00	ca	2.5E-02	ca	2.5E-01	ca		
62-74-8	Sodium fluoroacetate	1.2E+00	nc	1.8E+01	nc	7.3E-02	nc	7.3E-01	nc		
13718-26-8	Sodium metavanadate	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
7440-24-6	Strontium, stable	4.7E+04	nc	1.0E+05	max			2.2E+04	nc		
57-24-9	Strychnine	1.8E+01	nc	2.6E+02	nc	1.1E+00	nc	1.1E+01	nc		
100-42-5	Styrene	1.7E+03	sat	1.7E+03	sat	1.1E+03	nc	1.6E+03	nc	4.0E+00	2.0E-01
80-07-9	**1,1'-Sulfonylbis (4-chlorobenzene)**	7.8E+01	nc	2.0E+03	nc	3.7E+00	nc	3.6E+01	nc		
88671-89-0	Systhane	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
1746-01-6	2,3,7,8-TCDD (dioxin)	3.9E-06	ca	2.7E-05	ca	4.5E-08	ca	4.5E-07	ca		
34014-18-1	Tebuthiuron	4.3E+03	nc	6.2E+04	nc	2.6E+02	nc	2.6E+03	nc		
3383-96-8	Temephos	1.2E+03	nc	1.8E+04	nc	7.3E+01	nc	7.3E+02	nc		
5902-51-2	Terbacil	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
13071-79-9	Terbufos	1.5E+00	nc	2.2E+01	nc	9.1E-02	nc	9.1E-01	nc		
886-50-0	Terbutryn	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
95-94-3	1,2,4,5-Tetrachlorobenzene	1.8E+01	nc	2.6E+02	nc	1.1E+00	nc	1.1E+01	nc		
630-20-6	1,1,1,2-Tetrachloroethane	3.0E+00	ca	7.0E+00	ca	2.6E-01	ca	4.3E-01	ca		
79-34-5	1,1,2,2-Tetrachloroethane	3.8E-01	ca	9.0E-01	ca	3.3E-02	ca	5.5E-02	ca	3.0E-03	2.0E-04
127-18-4	Tetrachloroethylene (PCE)	5.7E+00	ca*	1.9E+01	ca*	3.3E+00	ca	1.1E+00	ca	6.0E-02	3.0E-03
	"CAL-Modified PRG" (PEA, 1994)					3.2E-01					
58-90-2	2,3,4,6-Tetrachlorophenol	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
5216-25-1	p,a,a,a-Tetrachlorotoluene	2.4E-02	ca	1.2E-01	ca	3.4E-04	ca	3.4E-03	ca		
961-11-5	Tetrachlorovinphos	2.0E+01	ca*	1.0E+02	ca	2.8E-01	ca	2.8E+00	ca		
3689-24-5	Tetraethyldithiopyrophosphate	3.1E+01	nc	4.4E+02	nc	1.8E+00	nc	1.8E+01	nc		
109-99-9	Tetrahydrofuran	6.4E+01	ca	3.2E+02	ca	9.9E-01	ca	8.8E+00	ca		
7446-18-6	**Thallium and compounds**	5.2E+00	nc	1.3E+02	nc			2.4E+00	nc		
28249-77-6	Thiobencarb	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
N/A	Thiocyanate	6.1E+03	nc	1.0E+05	max	3.7E+02	nc	3.6E+03	nc		
39196-18-4	Thiofanox	1.8E+01	nc	2.6E+02	nc	1.1E+00	nc	1.1E+01	nc		
23564-05-8	Thiophanate-methyl	4.9E+03	nc	7.0E+04	nc	2.9E+02	nc	2.9E+03	nc		
137-26-8	Thiram	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		

	Tin (inorganic, see tributyltin oxide for organic tin)	4.7E+04	nc	1.0E+05	max			2.2E+04	nc		
108-88-3	Toluene	5.2E+02	sat	5.2E+02	sat	4.0E+02	nc	7.2E+02	nc	1.2E+01	6.0E-01
95-80-7	Toluene-2,4-diamine	1.5E-01	ca	7.7E-01	ca	2.1E-03	ca	2.1E-02	ca		
95-70-5	Toluene-2,5-diamine	3.7E+04	nc	1.0E+05	max	2.2E+03	nc	2.2E+04	nc		
823-40-5	Toluene-2,6-diamine	1.2E+04	nc	1.0E+05	max	7.3E+02	nc	7.3E+03	nc		
106-49-0	p-Toluidine	2.6E+00	ca	1.3E+01	ca	3.5E-02	ca	3.5E-01	ca		
8001-35-2	Toxaphene	4.4E-01	ca	2.2E+00	ca	6.0E-03	ca	6.1E-02	ca	3.1E+01	2.0E+00
66841-25-6	Tralomethrin	4.6E+02	nc	6.6E+03	nc	2.7E+01	nc	2.7E+02	nc		
2303-17-5	Triallate	7.9E+02	nc	1.1E+04	nc	4.7E+01	nc	4.7E+02	nc		
82097-50-5	Triasulfuron	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
615-54-3	1,2,4-Tribromobenzene	3.1E+02	nc	4.4E+03	nc	1.8E+01	nc	1.8E+02	nc		
56-35-9	Tributyltin oxide (TBTO)	1.8E+01	nc	2.6E+02	nc			1.1E+01	nc		
634-93-5	2,4,6-Trichloroaniline	1.4E+01	ca	7.3E+01	ca	2.0E-01	ca	2.0E+00	ca		
33663-50-2	2,4,6-Trichloroaniline hydrochloride	1.7E+01	ca	8.5E+01	ca	2.3E-01	ca	2.3E+00	ca		
120-82-1	1,2,4-Trichlorobenzene	6.5E+02	nc	3.0E+03	sat	2.1E+02	nc	1.9E+02	nc	5.0E+00	3.0E-01
71-55-6	1,1,1-Trichloroethane	6.3E+02	nc	1.4E+03	sat	1.0E+03	nc	5.4E+02	nc	2.0E+00	1.0E-01
79-00-5	1,1,2-Trichloroethane	8.4E-01	ca*	1.9E+00	ca*	1.2E-01	ca	2.0E-01	ca	2.0E-02	9.0E-04
79-01-6	Trichloroethylene (TCE)	2.8E+00	ca**	6.1E+00	ca*	1.1E+00	ca*	1.6E+00	ca*	6.0E-02	3.0E-03
75-69-4	Trichlorofluoromethane	3.9E+02	nc	2.0E+03	sat	7.3E+02	nc	1.3E+03	nc		
95-95-4	2,4,5-Trichlorophenol	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc	2.7E+02	1.4E+01
88-06-2	2,4,6-Trichlorophenol	4.4E+01	ca	2.2E+02	ca	6.2E-01	ca	6.1E+00	ca	2.0E-01	8.0E-03
93-76-5	2,4,5-Trichlorophenoxyacetic Acid	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
93-72-1	2-(2,4,5-Trichlorophenoxy) propionic acid	4.9E+02	nc	7.0E+03	nc	2.9E+01	nc	2.9E+02	nc		
598-77-6	1,1,2-Trichloropropane	1.5E+01	nc	5.1E+01	nc	1.8E+01	nc	3.0E+01	nc		
96-18-4	1,2,3-Trichloropropane	1.4E-03	ca	3.1E-03	ca	9.6E-04	ca	1.6E-03	ca		
96-19-5	1,2,3-Trichloropropene	1.2E+01	nc	3.9E+01	nc	1.8E+01	nc	3.0E+01	nc		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6E+03	sat	5.6E+03	sat	3.1E+04	nc	5.9E+04	nc		
58138-08-2	Tridiphane	1.8E+02	nc	2.6E+03	nc	1.1E+01	nc	1.1E+02	nc		
121-44-8	Triethylamine	2.3E+01	nc	8.8E+01	nc	7.3E+00	nc	1.2E+01	nc		
1582-09-8	Trifluralin	6.3E+01	ca**	3.2E+02	ca*	8.7E-01	ca*	8.7E+00	ca*		
552-30-7	**Trimellitic Anhydride (TMAN)**	8.6E+00	nc	1.2E+02	nc	5.1E-01	nc	5.1E+00			

95-63-6	1,2,4-Trimethylbenzene	5.2E+01	nc	1.7E+02	nc	6.2E+00	nc	1.2E+01	nc		
108-67-8	1,3,5-Trimethylbenzene	2.1E+01	nc	7.0E+01	nc	6.2E+00	nc	1.2E+01	nc		
512-56-1	Trimethyl phosphate	1.3E+01	ca	6.7E+01	ca	1.8E-01	ca	1.8E+00	ca		
99-35-4	1,3,5-Trinitrobenzene	1.8E+03	nc	2.6E+04	nc	1.1E+02	nc	1.1E+03	nc		
479-45-8	Trinitrophenylmethylnitramine	6.1E+02	nc	8.8E+03	nc	3.7E+01	nc	3.6E+02	nc		
118-96-7	2,4,6-Trinitrotoluene	1.6E+01	ca**	8.2E+01	ca**	2.2E-01	ca**	2.2E+00	ca**		
791-28-6	**Triphenylphosphine oxide**	6.1E+03	nc	8.8E+04	nc	3.7E+02	nc	3.6E+03	nc		
115-96-8	**Tris(2-chloroethyl) phosphate**	3.5E+01	ca	1.8E+02	ca	4.8E-01	ca	4.8E+00	ca		
7440-61-0	**Uranium (chemical toxicity only)**	1.6E+01	nc	4.1E+02	nc			7.3E+00	nc		
7440-62-2	Vanadium and compounds	5.5E+02	nc	1.4E+04	nc			2.6E+02	nc	6.0E+03	3.0E+02
1929-77-7	Vernam	6.1E+01	nc	8.8E+02	nc	3.7E+00	nc	3.6E+01	nc		
50471-44-8	Vinclozolin	1.5E+03	nc	2.2E+04	nc	9.1E+01	nc	9.1E+02	nc		
108-05-4	Vinyl acetate	4.3E+02	nc	1.4E+03	nc	2.1E+02	nc	4.1E+02	nc	1.7E+02	8.0E+00
593-60-2	Vinyl bromide (bromoethene)	1.9E-01	ca*	4.2E-01	ca*	6.1E-02	ca*	1.0E-01	ca*		
75-01-4	**Vinyl chloride(child/adult)**	1.5E-01	ca			2.2E-01	ca	4.1E-02	ca	1.0E-02	7.0E-04
75-01-4	**Vinyl chloride(adult)**			8.3E-01	ca						
81-81-2	Warfarin	1.8E+01	nc	2.6E+02	nc	1.1E+00	nc	1.1E+01	nc		
1330-20-7	Xylenes	2.1E+02	sat	2.1E+02	sat	7.3E+02	nc	1.4E+03	nc	2.1E+02	1.0E+01
7440-66-6	Zinc	2.3E+04	nc	1.0E+05	max			1.1E+04	nc	1.2E+04	6.2E+02
1314-84-7	Zinc phosphide	2.3E+01	nc	6.1E+02	nc			1.1E+01	nc		
12122-67-7	Zineb	3.1E+03	nc	4.4E+04	nc	1.8E+02	nc	1.8E+03	nc		

Key:

i = IRIS
h = HEAST
n = NCEA
x = WITHDRAWN
o = OTHER EPA DOCUMENTS
r = ROUTE EXTRAPOLATION
ca = CANCER PRG
nc = NONCANCER PRG
sat = SOIL SATURATION
max = CEILING LIMIT
*indicates that the noncancer PRG < = 100X the cancer PRG
**indicates that the noncancer PRG < 10X the cancer PRG
BOLD=New or revised Toxicity values

Region 9 Waste Home | Region 9 Superfund Home | Region 9 PRG Home
Region 9 Home | EPA Home | Search | Comments/Questions

Region 9 Office: 75 Hawthorne St., San Francisco, Calif., 94105
Send PRG-related comments and questions to smucker.stan@epa.gov

Updated: November 22, 2000

URL: http://www.epa.gov/region09/waste/sfund/prg/s1_06.htm