

Aquatic Risk Assessment Hands-On Session

Before We Start...

Determine the risk scenarios to be evaluated.

✚ If the number of release days or the number of days the PEC exceeds the COC is less than 20 days, then no need to perform chronic risk assessment

✚ Why is that?

- **Although there is a potential for the concentration of the chemical in the water to reach levels exceeding the hazardous level, the levels are not exceeded for a sufficient duration of time to induce any chronic effects.**
- **The 20-day criterion is derived from partial life-cycle tests (daphnid chronic and fish early life- stage tests) that typically range from 21 to 28 days in duration.**

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

Number of Release Days	Number of Days COC is exceeded	Chronic Risk Potential
12	9.4	Low

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV					
	Daphnid ChV (16-day EC50)					
	Algae ChV					
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20				
	Daphnid ChV (16-day EC50)	30				
	Algae ChV	70				
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10			
	Daphnid ChV (16-day EC50)	30	10			
	Algae ChV	70	10			
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2		
	Daphnid ChV (16-day EC50)	30	10	3		
	Algae ChV	70	10	7		
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	
	Daphnid ChV (16-day EC50)	30	10	3	55	
	Algae ChV	70	10	7	55	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	Yes
	Daphnid ChV (16-day EC50)	30	10	3	55	
	Algae ChV	70	10	7	55	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	Yes
	Daphnid ChV (16-day EC50)	30	10	3	55	Yes
	Algae ChV	70	10	7	55	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	Yes
	Daphnid ChV (16-day EC50)	30	10	3	55	Yes
	Algae ChV	70	10	7	55	Yes
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	Yes
	Daphnid ChV (16-day EC50)	30	10	3	55	Yes
	Algae ChV	70	10	7	55	Yes
Acute Profile	Fish LC50	80				
	Daphnid LC50	110				
	Algae EC50	80				

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	Yes
	Daphnid ChV (16-day EC50)	30	10	3	55	Yes
	Algae ChV	70	10	7	55	Yes
Acute Profile	Fish LC50	80	5			
	Daphnid LC50	110	5			
	Algae EC50	80	N/A - Algal ChV			

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	Yes
	Daphnid ChV (16-day EC50)	30	10	3	55	Yes
	Algae ChV	70	10	7	55	Yes
Acute Profile	Fish LC50	80	5	Kow is above the cutoff -Assume Low Risk-		
	Daphnid LC50	110	5	Kow is above the cutoff -Assume Low Risk-		
	Algae EC50	80	N/A - Algal ChV	70		

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	Yes
	Daphnid ChV (16-day EC50)	30	10	3	55	Yes
	Algae ChV	70	10	7	55	Yes
Acute Profile	Fish LC50	80	5	Kow is above the cutoff -Assume Low Risk-		
	Daphnid LC50	110	5	Kow is above the cutoff -Assume Low Risk-		
	Algae EC50	80	N/A - Algal ChV	70	55	

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A:
Determination of Aquatic Risk for Sample Chemical 1:
1,2-Dichloro-4-nitro-5-pentylbenzene

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	20	10	2	55	Yes
	Daphnid ChV (16-day EC50)	30	10	3	55	Yes
	Algae ChV	70	10	7	55	Yes
Acute Profile	Fish LC50	80	5	Kow is above the cutoff -Assume Low Risk-		
	Daphnid LC50	110	5	Kow is above the cutoff -Assume Low Risk-		
	Algae EC50	80	N/A - Algal ChV	70	55	Low

* Release Days = 12; therefore, chronic risk does not need to be assessed

Worksheet 1A: Determination of Aquatic Risk for Sample Chemical 1: *1,2-Dichloro-4-nitro-5-pentylbenzene*

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	20	10	2	55	Low
	Daphnid ChV (16-day EC50)	30	10	3	55	Low
	Algae ChV	70	10	7	55	Low

Although the PEC exceeds the COC, low chronic risk exists because the COC was calculated to be exceeded for only 9 days per year.

Worksheet 1A: Determination of Aquatic Risk for Sample Chemical 1: *1,2-Dichloro-4-nitro-5-pentylbenzene*

	Endpoint	Value (ppb)	Assess. Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Acute Profile						
	Algae EC50	80	N/A - Algal ChV	70	55	Low

The PEC does not exceed the COC; therefore, there is low potential for acute risk.

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

Number of Release Days	Number of Days COC is exceeded/year	Chronic Risk Potential
80	3.9	Low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV					
	Daphnid ChV (16-day EC50)					
	Algae ChV					
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350				
	Daphnid ChV (16-day EC50)	290				
	Algae ChV	520				
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10			
	Daphnid ChV (16-day EC50)	290	10			
	Algae ChV	520	10			
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40		
	Daphnid ChV (16-day EC50)	290	10	30		
	Algae ChV	520	10	50		
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	
	Daphnid ChV (16-day EC50)	290	10	30	21.8	
	Algae ChV	520	10	50	21.8	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	
	Algae ChV	520	10	50	21.8	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low
Acute Profile	Fish LC50	2000				
	Daphnid LC50	2500				
	Algae EC50	1700				

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low
Acute Profile	Fish LC50	2000	5			
	Daphnid LC50	2500	5			
	Algae EC50	1700	N/A - Algal ChV			

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low
Acute Profile	Fish LC50	2000	5	400		
	Daphnid LC50	2500	5	500		
	Algae EC50	1700	N/A - Algal ChV	500		

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low
Acute Profile	Fish LC50	2000	5	400	21.8	
	Daphnid LC50	2500	5	500	21.8	
	Algae EC50	1700	N/A - Algal ChV	500	21.8	

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low
Acute Profile	Fish LC50	2000	5	400	21.8	Low
	Daphnid LC50	2500	5	500	21.8	
	Algae EC50	1700	N/A - Algal ChV	500	21.8	

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low
Acute Profile	Fish LC50	2000	5	400	21.8	Low
	Daphnid LC50	2500	5	500	21.8	Low
	Algae EC50	1700	N/A - Algal ChV	500	21.8	

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low
Acute Profile	Fish LC50	2000	5	400	21.8	Low
	Daphnid LC50	2500	5	500	21.8	Low
	Algae EC50	1700	N/A - Algal ChV	500	21.8	Low

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A: Determination of Aquatic Risk for Sample Chemical 2: *Cyclohexanol, 1-methyl-3-(2-methylpropyl)-*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile*	Fish ChV	350	10	40	21.8	Low
	Daphnid ChV (16-day EC50)	290	10	30	21.8	Low
	Algae ChV	520	10	50	21.8	Low

Low potential for chronic risk
 to the aquatic environment
 PEC < chronic COC

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 2A:
Determination of Aquatic Risk for Sample Chemical 2:
Cyclohexanol, 1-methyl-3-(2-methylpropyl)-

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Acute Profile	Fish LC50	2000	5	400	21.8	Low
	Daphnid LC50	2500	5	500	21.8	Low
	Algae EC50	1700	N/A - Algal ChV	500	21.8	Low

**Low potential for acute risk to the aquatic environment
 PEC < chronic COC**

* PEC exceeds the COC for 0.01 days/year; chronic risk is presumed to be low

Worksheet 3A:
Determination of Aquatic Risk for Sample
Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

Number of Release Days	Number of Days COC is exceeded	Chronic Risk Potential
25	25	Need to Assess

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV					
	Daphnid ChV					
	Algae ChV (96-hour EC50/4)					
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310				
	Daphnid ChV	7				
	Algae ChV (96-hour EC50/4)	40				
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10			
	Daphnid ChV	7	10			
	Algae ChV (96-hour EC50/4)	40	10			
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30		
	Daphnid ChV	7	10	1		
	Algae ChV (96-hour EC50/4)	40	10	4		
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	
	Daphnid ChV	7	10	1	73.6	
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes
Acute Profile	Fish LC50					
	Daphnid LC50					
	Algae EC50					

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes
Acute Profile	Fish LC50	1700				
	Daphnid LC50	100				
	Algae EC50	160				

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes
Acute Profile	Fish LC50	1700	5			
	Daphnid LC50	100	5			
	Algae EC50	160	4			

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes
Acute Profile	Fish LC50	1700	5	300		
	Daphnid LC50	100	5	20		
	Algae EC50	160	4	40		

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes
Acute Profile	Fish LC50	1700	5	300	73.6	
	Daphnid LC50	100	5	20	73.6	
	Algae EC50	160	4	40	73.6	

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes
Acute Profile	Fish LC50	1700	5	300	73.6	Low
	Daphnid LC50	100	5	20	73.6	
	Algae EC50	160	4	40	73.6	

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes
Acute Profile	Fish LC50	1700	5	300	73.6	Low
	Daphnid LC50	100	5	20	73.6	Yes
	Algae EC50	160	4	40	73.6	

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	310	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes
Acute Profile	Fish LC50	1700	5	300	73.6	Low
	Daphnid LC50	100	5	20	73.6	Yes
	Algae EC50	160	4	40	73.6	Yes

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Chronic Profile	Fish ChV	300	10	30	73.6	Yes
	Daphnid ChV	7	10	1	73.6	Yes
	Algae ChV (96-hour EC50/4)	40	10	4	73.6	Yes

Potential for Chronic Risk to the Aquatic Environment exists because the PEC exceeds the COC for at least 20 days per year.

Worksheet 3A:

Determination of Aquatic Risk for Sample Chemical 3: *1,3,5-triazine-2,4-diamine, 6-nonyl*

	Endpoint	Value (ppb)	Assess Factor	COC (ppb)	PEC (ppb)	Potential for Risk?
Acute Profile	Fish LC50	1700	5	400	73.6	Low
	Daphnid LC50	100	5	20	73.6	Yes
	Algae EC50	200	4	50	73.6	Yes

Potential for acute risk to the aquatic environment exists because the PEC > COC for daphnids and algae.