Project name: CITGO Terminal South Portland, Maine

Project number:

Model filename: Citgo Portland Terminal.best

Chemical filename: Chemical_List_for_EPA_Reg1_template (in progress).xlsx

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Human Subreport

Human: Adult Angler

Total Estimated Risks From Organics(see EPA Table Xa)

Receptor: Adult Angler

Organism: Macoma nasuta

		Cancer Risk	Non-Cancer Risk
Composite 1		Total Lobster	
	Test	9.73E-5	2.31E-1
	Reference	1.21E-5	6.65E-2
		Macoma nasuta	
	Test	1.95E-5	4.62E-2
	Reference	2.42E-6	1.33E-2
		Nereis virens	
	Test	0	0
	Reference	0	0
		Fish Fillet	
	Test	1.89E-5	4.48E-2
	Reference	2.34E-6	1.29E-2
Composite 2		Total Lobster	
	Test	1.61E-4	1.74E-1
	Reference	2.07E-5	6.66E-2

		Cancer Risk	Non-Cancer Risk
		Macoma nasuta	
	Test	3.24E-5	3.48E-2
	Reference	4.19E-6	1.33E-2
		Nereis virens	
	Test	0	0
	Reference	0	0
		Fish Fillet	
	Test	3.11E-5	3.36E-2
	Reference	4.01E-6	1.29E-2
Composite 3		Total Lobster	
	Test	4.6E-5	2.04E-1
	Reference	1.45E-5	6.67E-2
		Macoma nasuta	
	Test	9.28E-6	4.07E-2
	Reference	2.94E-6	1.33E-2
		Nereis virens	
	Test	0	0
	Reference	0	0
		Fish Fillet	
	Test	8.91E-6	3.95E-2
	Reference	2.81E-6	1.29E-2

Total Estimated Risks From Organics(see EPA Table Xa)

Receptor: Adult Angler

Organism: Nereis virens

		Cancer Risk	Non-Cancer Risk
Composite 1		Total Lobster	
	Test	0	1.31E-3
	Reference	0	9.82E-4
		Macoma nasuta	
	Test	0	0
	Reference	0	0
		Nereis virens	
	Test	0	3.43E-4
	Reference	0	2.57E-4
		Fish Fillet	
	Test	0	2.54E-4
	Reference	0	1.9E-4
Composite 2		Total Lobster	
	Test	9E-6	2.11E-1
	Reference	9.83E-6	2.41E-1
		Macoma nasuta	
	Test	0	0
	Reference	0	0
		Nereis virens	
	Test	2.13E-6	4.96E-2
	Reference	2.31E-6	5.65E-2
		Fish Fillet	
	Test	1.74E-6	4.09E-2
	Reference	1.91E-6	4.66E-2
Composite 3		Total Lobster	
	Test	9.17E-6	2.29E-1
	Reference	9.56E-6	2.39E-1
		Macoma nasuta	
	Test	0	0
	Reference	0	0

		Cancer Risk	Non-Cancer Risk
		Nereis virens	
	Test	2.15E-6	5.39E-2
	Reference	2.25E-6	5.62E-2
		Fish Fillet	
	Test	1.78E-6	4.45E-2
	Reference	1.85E-6	4.63E-2

Seafood Non-Cancer Risks (see EPA Table 6a, Columns F & G)

Receptor: Adult Angler

Organism: Macoma nasuta

			Non-Cancer Risk
Composite 1	Arsenic	**Test**	6.41E-1
		Reference	5.51E-1
	Cadmium	**Test**	3.41E-3
		Reference	2.62E-3
	Chromium	**Test**	1.33E-2
		Reference	9.77E-3
	Copper	**Test**	0
		Reference	0
	Lead	**Test**	0
		Reference	0
	Nickel	**Test**	0
		Reference	0
	Zinc	**Test**	3.34E-3
		Reference	2.98E-3
Composite 2	Lead	**Test**	0
		Reference	0
	Zinc	**Test**	3.38E-3
		Reference	2.98E-3
Composite 3	Lead	**Test**	0
		Reference	0
	Nickel	**Test**	0
		Reference	0
	Zinc	**Test**	3.34E-3
		Reference	2.98E-3

Seafood Non-Cancer Risks (see EPA Table 6a, Columns F & G)

Receptor: Adult Angler

Organism: Nereis virens

			Non-Cancer Risk

FDA Action Limit/Tolerance (see EPA Table 3, Columns D & E)

Receptor: Adult Angler

Organism: Macoma nasuta

	Contaminant	FDA Action Level (mg/kg)	Steady State Corrected Mean Tissue Concentration (mg/kg)
Composite 1	Total PCBs	2E3	7.46E0
Composite 1	Mercury	1E0	8.4E-3
Composite 1	Total DDT	5E3	2.15E0
Composite 1	Total Chlordanes	3E2	6.76E-1
Composite 2	Total PCBs	2E3	6.65E0
Composite 2	Mercury	1E0	7.8E-3
Composite 2	Total DDT	5E3	7.41E-1
Composite 2	Total Chlordanes	3E2	1.15E0
Composite 3	Total PCBs	2E3	7.28E0
Composite 3	Mercury	1E0	7.2E-3
Composite 3	Total DDT	5E3	1.67E0
Composite 3	Total Chlordanes	3E2	9.44E-1

FDA Action Limit/Tolerance (see EPA Table 3, Columns D & E)

Receptor: Adult Angler

Organism: Nereis virens

	Contaminant	FDA Action Level (mg/kg)	Steady State Corrected Mean Tissue Concentration (mg/kg)
Composite 1	Total PCBs	2E3	1.04E1
Composite 1	Mercury	1E0	6.2E-3
Composite 1	Total DDT	5E3	9.73E-1
Composite 1	Total Chlordanes	3E2	4.1E-1
Composite 2	Total PCBs	2E3	9.33E0
Composite 2	Mercury	1E0	5.6E-3
Composite 2	Total DDT	5E3	1.39E0
Composite 2	Total Chlordanes	3E2	1.5E0
Composite 3	Total PCBs	2E3	9.08E0
Composite 3	Mercury	1E0	3.2E-3
Composite 3	Total DDT	5E3	1.03E0
Composite 3	Total Chlordanes	3E2	5.02E-1

Ecological Effect Level

Receptor: Adult Angler

Organism: Macoma nasuta

	Contaminant	Ecological Effect Level (mg/kg)	Steady State Corrected Mean Tissue Concentration (mg/kg)
Composite 1	Anthracene	3.75E3	6E0
Composite 1	PAH Total	1E4	1.7E2
Composite 1	Total PCBs	4E3	7.46E0
Composite 1	Aldrin	2.99E2	3E-2
Composite 1	Dieldrin	4.37E0	5.4E-2
Composite 1	Endosulfans	2.86E0	9E-2
Composite 1	Arsenic	1.26E1	2.24E0
Composite 1	Cadmium	3.03E0	3.98E-2
Composite 1	Chromium	1.18E1	4.66E-1
Composite 1	Copper	9.6E0	2.11E0
Composite 1	Lead	1.19E1	5.14E-1
Composite 1	Mercury	2E-1	8.4E-3
Composite 1	Nickel	3.8E0	5.02E-1
Composite 1	Zinc	1.52E3	1.17E1
Composite 1	Total DDT	3E3	2.15E0
Composite 2	Anthracene	3.75E3	1.05E1
Composite 2	PAH Total	1E4	6.2E2
Composite 2	Total PCBs	4E3	6.65E0
Composite 2	Aldrin	2.99E2	3E-2
Composite 2	Dieldrin	4.37E0	5.4E-2
Composite 2	Endosulfans	2.86E0	9E-2
Composite 2	Arsenic	1.26E1	2.21E0
Composite 2	Cadmium	3.03E0	3.26E-2
Composite 2	Chromium	1.18E1	3.54E-1
Composite 2	Copper	9.6E0	1.54E0
Composite 2	Lead	1.19E1	4.6E-1
Composite 2	Mercury	2E-1	7.8E-3
Composite 2	Nickel	3.8E0	4.22E-1
Composite 2	Zinc	1.52E3	1.18E1
Composite 2	Total DDT	3E3	7.41E-1
Composite 3	Anthracene	3.75E3	1E1
Composite 3	PAH Total	1E4	2.14E2
Composite 3	Total PCBs	4E3	7.28E0
Composite 3	Aldrin	2.99E2	3E-2

	Contaminant	Ecological Effect Level (mg/kg)	Steady State Corrected Mean Tissue Concentration (mg/kg)
Composite 3	Dieldrin	4.37E0	1.54E-1
Composite 3	Endosulfans	2.86E0	9E-2
Composite 3	Arsenic	1.26E1	2E0
Composite 3	Cadmium	3.03E0	3.5E-2
Composite 3	Chromium	1.18E1	3.76E-1
Composite 3	Copper	9.6E0	1.76E0
Composite 3	Lead	1.19E1	6.36E-1
Composite 3	Mercury	2E-1	7.2E-3
Composite 3	Nickel	3.8E0	4.56E-1
Composite 3	Zinc	1.52E3	1.17E1
Composite 3	Total DDT	3E3	1.67E0

Ecological Effect Level

Receptor: Adult Angler

Organism: Nereis virens

	Contaminant	Ecological Effect Level (mg/kg)	Steady State Corrected Mean Tissue Concentration (mg/kg)
Composite 1	Anthracene	3.75E3	1E1
Composite 1	PAH Total	1E4	7.75E1
Composite 1	Total PCBs	4E3	1.04E1
Composite 1	Aldrin	2.99E2	3E-2
Composite 1	Dieldrin	4.37E0	5.4E-2
Composite 1	Endosulfans	2.86E0	9E-2
Composite 1	Arsenic	1.26E1	1.81E0
Composite 1	Cadmium	3.03E0	3.04E-2
Composite 1	Chromium	1.18E1	6.26E-2
Composite 1	Copper	9.6E0	1E0
Composite 1	Lead	1.19E1	8.6E-2
Composite 1	Mercury	2E-1	6.2E-3
Composite 1	Nickel	3.8E0	1.11E-1
Composite 1	Zinc	1.52E3	1.86E1
Composite 1	Total DDT	3E3	9.73E-1
Composite 2	Anthracene	3.75E3	1E1
Composite 2	PAH Total	1E4	1.78E2
Composite 2	Total PCBs	4E3	9.33E0
Composite 2	Aldrin	2.99E2	3E-2
Composite 2	Dieldrin	4.37E0	1.65E-1
Composite 2	Endosulfans	2.86E0	9E-2
Composite 2	Arsenic	1.26E1	2E0
Composite 2	Cadmium	3.03E0	3.4E-2
Composite 2	Chromium	1.18E1	6.96E-2
Composite 2	Copper	9.6E0	1.08E0
Composite 2	Lead	1.19E1	9.36E-2
Composite 2	Mercury	2E-1	5.6E-3
Composite 2	Nickel	3.8E0	1.38E-1
Composite 2	Zinc	1.52E3	1.43E1
Composite 2	Total DDT	3E3	1.39E0
Composite 3	Anthracene	3.75E3	1E1
Composite 3	PAH Total	1E4	8.12E1
Composite 3	Total PCBs	4E3	9.08E0
Composite 3	Aldrin	2.99E2	3E-2

	Contaminant	Ecological Effect Level (mg/kg)	Steady State Corrected Mean Tissue Concentration (mg/kg)
Composite 3	Dieldrin	4.37E0	5.4E-2
Composite 3	Endosulfans	2.86E0	9E-2
Composite 3	Arsenic	1.26E1	1.7E0
Composite 3	Cadmium	3.03E0	3.36E-2
Composite 3	Chromium	1.18E1	6.24E-2
Composite 3	Copper	9.6E0	1.04E0
Composite 3	Lead	1.19E1	8.36E-2
Composite 3	Mercury	2E-1	3.2E-3
Composite 3	Nickel	3.8E0	1.38E-1
Composite 3	Zinc	1.52E3	1.1E1
Composite 3	Total DDT	3E3	1.03E0

FDA Level of Concern

Receptor: Adult Angler

Organism: Macoma nasuta

	Contaminant	FDA Level of Concern(mg/kg)	Steady State Corrected Mean Tissue Concentration (mg/kg)
Composite 1	Arsenic	8.6E1	2.24E0
Composite 1	Cadmium	3.7E0	3.98E-2
Composite 1	Chromium	1.3E1	4.66E-1
Composite 1	Lead	1.7E0	5.14E-1
Composite 1	Nickel	8E1	5.02E-1
Composite 2	Arsenic	8.6E1	2.21E0
Composite 2	Cadmium	3.7E0	3.26E-2
Composite 2	Chromium	1.3E1	3.54E-1
Composite 2	Lead	1.7E0	4.6E-1
Composite 2	Nickel	8E1	4.22E-1
Composite 3	Arsenic	8.6E1	2E0
Composite 3	Cadmium	3.7E0	3.5E-2
Composite 3	Chromium	1.3E1	3.76E-1
Composite 3	Lead	1.7E0	6.36E-1
Composite 3	Nickel	8E1	4.56E-1

FDA Level of Concern

Receptor: Adult Angler

Organism: Nereis virens

	Contaminant	FDA Level of Concern(mg/kg)	Steady State Corrected Mean Tissue Concentration (mg/kg)
Composite 1	Arsenic	8.6E1	1.81E0
Composite 1	Cadmium	3.7E0	3.04E-2
Composite 1	Chromium	1.3E1	6.26E-2
Composite 1	Lead	1.7E0	8.6E-2
Composite 1	Nickel	8E1	1.11E-1
Composite 2	Arsenic	8.6E1	2E0
Composite 2	Cadmium	3.7E0	3.4E-2
Composite 2	Chromium	1.3E1	6.96E-2
Composite 2	Lead	1.7E0	9.36E-2
Composite 2	Nickel	8E1	1.38E-1
Composite 3	Arsenic	8.6E1	1.7E0
Composite 3	Cadmium	3.7E0	3.36E-2
Composite 3	Chromium	1.3E1	6.24E-2
Composite 3	Lead	1.7E0	8.36E-2
Composite 3	Nickel	8E1	1.38E-1