

APPENDIX- A:2008

2008 Monitoring Data

Data Summary for All Chemicals of Potential Concern (COPCs)

Table A1. 2008 Chemicals with Toxicity Values at the Bell and Brock Sites in the Rural Oil & Gas Development Area.

Compound	BELL			BROCK		
	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$	Max. Conc. $\mu\text{g}/\text{m}^3$	%Samples Detected	EPC $\mu\text{g}/\text{m}^3$
Acetaldehyde	1.964	100.0%	0.943	1.591	100.0%	0.889
Acetone	5.392	100.0%	3.113	6.366	100.0%	3.269
Benzene	13.631	100.0%	1.521	2.401	100.0%	0.964
1,3-Butadiene	0.053	5.1%	0.053	0.053	1.7%	0.053
Crotonaldehyde	0.467	93.5%	0.155	0.519	100.0%	0.253
Cyclohexane	104.985	100.0%	5.010	5.347	100.0%	2.413
Ethylbenzene	4.337	96.6%	0.576	0.482	96.6%	0.191
Formaldehyde	2.237	100.0%	1.128	2.102	100.0%	1.175
n-Hexane	22.089	100.0%	7.319	24.262	100.0%	4.606
Isopropylbenzene	0.298	22.0%	0.090	0.094	18.6%	0.084
Methylcyclohexane	21.973	100.0%	6.812	9.810	100.0%	4.855
Nonane	2.501	100.0%	0.786	1.463	100.0%	0.487
Pentane	61.970	100.0%	17.390	35.057	100.0%	8.222
Propionaldehyde	0.204	96.8%	0.097	0.183	100.0%	0.091
Propylene	0.597	100.0%	0.287	0.757	100.0%	0.295
Propylbenzene	0.710	81.4%	0.101	0.164	76.3%	0.074
Styrene	3.445	5.1%	0.374	0.431	15.3%	0.088
Toluene	79.140	100.0%	9.371	4.883	100.0%	2.226
1,2,3-Trimethylbenzene	0.841	39.0%	0.098	0.135	42.4%	0.070
1,2,4-Trimethylbenzene	3.091	100.0%	0.304	0.661	100.0%	0.211
1,3,5-Trimethylbenzene	0.836	84.7%	0.185	0.412	72.9%	0.159
m-Xylene/p-Xylene	9.879	100.0%	1.608	3.707	100.0%	1.179
o-Xylene	3.610	100.0%	0.577	0.522	100.0%	0.232
Aliphatic hydrocarbons C5-C8	230.73	NA	71.50	88.18	NA	31.84
Aliphatic hydrocarbons C9-C18	406.24	NA	49.39	10.44	NA	3.103
Aromatic hydrocarbons C9-C16	4.688	NA	0.827	10.659	NA	2.2

NA = Not Applicable

Table A1.1. 2008 Chemicals with Toxicity Values at the Parachute and Rifle Sites in the Urban Oil & Gas Development Area

Compound	PARACHUTE			RIFLE		
	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$
Acetaldehyde	1.838	100.0%	1.201	2.901	100.0%	1.732
Acetone	5.915	100.0%	3.709	6.746	100.0%	3.988
Benzene	11.076	100.0%	2.755	4.079	100.0%	1.862
1,3-Butadiene	0.033	52.5%	0.111	0.486	81.7%	0.148
Crotonaldehyde	0.238	100.0%	0.110	0.436	100.0%	0.186
Cyclohexane	13.080	100.0%	4.721	7.401	100.0%	2.811
Ethylbenzene	2.616	100.0%	0.726	1.167	100.0%	0.526
Formaldehyde	3.257	100.0%	1.865	4.818	100.0%	2.124
n-Hexane	18.799	100.0%	6.940	15.920	100.0%	5.110
Isopropylbenzene	0.250	40.7%	0.099	0.120	51.7%	0.080
Methylcyclohexane	35.283	100.0%	11.300	14.343	100.0%	5.494
Nonane	13.348	100.0%	2.727	2.285	100.0%	0.916
Pentane	150.498	100.0%	16.640	34.703	100.0%	11.050
Propionaldehyde	0.283	93.1%	0.134	0.371	93.5%	0.192
Propylene	1.417	100.0%	0.765	2.782	100.0%	0.973
Propylbenzene	1.092	96.6%	0.213	0.326	95.0%	0.164
Styrene	1.917	15.3%	0.258	0.352	28.3%	0.090
Toluene	118.441	100.0%	11.830	15.020	100.0%	4.890
1,2,3-Trimethylbenzene	3.485	91.5%	0.503	0.358	90.0%	0.150
1,2,4-Trimethylbenzene	7.374	100.0%	1.124	1.595	100.0%	0.690
1,3,5-Trimethylbenzene	5.347	98.3%	0.765	0.803	100.0%	0.361
m-Xylene/p-Xylene	11.833	100.0%	4.543	5.916	100.0%	2.612
o-Xylene	3.175	100.0%	0.911	1.623	100.0%	0.709
Aliphatic hydrocarbons C5-C8	260.9	NA	76.01	113.4	NA	45.25
Aliphatic hydrocarbons C9-C18	444.82	NA	70.14	12.73	NA	3.671
Aromatic hydrocarbons C9-C16	16.258	NA	2.094	2.882	NA	1.203

NA = Not Applicable

Table A 2. 2008 Total Petroleum Hydrocarbons (TPHs) with Toxicity Values at the Bell and Brock Sites in the Rural Oil & Gas Development

COMPOUND	BELL			BROCK		
	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$
Aliphatic C5-C8 Fraction						
1-Heptene	2.484	96.6%	0.781	1.113	91.5%	0.497
1-Hexene	0.221	64.4%	0.102	0.222	67.8%	0.098
1-Octene	1.365	20.3%	0.223	0.232	22.0%	0.101
1-Pentene	0.322	96.6%	0.109	0.256	100.0%	0.107
2,2,3-Trimethylpentane	1.635	49.2%	0.288	0.281	50.8%	0.129
2,2,4-Trimethylpentane	2.155	33.9%	0.394	0.940	52.5%	0.233
2,2-Dimethylbutane	2.338	100.0%	0.776	1.022	100.0%	0.428
2,3,4-Trimethylpentane	1.793	57.6%	0.228	0.280	55.9%	0.086
2,3-Dimethylbutane	4.935	100.0%	1.540	1.845	100.0%	0.787
2,3-Dimethylpentane	1.850	100.0%	0.612	0.820	98.3%	0.383
2,4-Dimethylpentane	1.095	100.0%	0.426	0.509	100.0%	0.263
2-Ethyl-1-butene	0.123	0.0%	NA	0.123	0.0%	NA
2-Methyl-1-butene	2.455	45.8%	0.610	2.903	47.5%	0.647
2-Methyl-1-pentene	0.152	3.4%	0.125	0.123	3.4%	0.123
2-Methyl-2-butene	0.417	39.0%	0.136	0.248	50.8%	0.101
2-Methylheptane	2.926	100.0%	0.820	1.267	98.3%	0.528
2-Methylhexane	4.842	100.0%	1.653	2.535	100.0%	1.092
2-Methylpentane	20.561	100.0%	6.728	10.339	100.0%	3.619
3-Methyl-1-butene	0.200	1.7%	0.064	1.073	8.5%	0.113
3-Methylheptane	3.533	100.0%	0.544	0.899	100.0%	0.352
3-Methylhexane	4.403	100.0%	1.548	2.160	98.3%	1.015
3-Methylpentane	10.574	100.0%	3.501	10.104	100.0%	2.210
4-Methyl-1-pentene	4.676	20.3%	0.547	0.418	11.9%	0.140
cis-2-Hexene	0.700	22.0%	0.146	0.123	11.9%	0.121
cis-2-Pentene	0.145	13.6%	0.061	0.079	22.0%	0.057
Cyclopentane	2.937	100.0%	0.907	1.021	100.0%	0.460
Cyclopentene	0.669	76.3%	0.235	0.825	66.1%	0.218
Isopentane	123.35	93.2%	39.230	32.578	91.5%	12.30
Isoprene	3.332	52.5%	0.724	0.964	52.5%	0.306
Methylcyclopentane	8.892	100.0%	3.266	4.567	100.0%	1.938
n-Heptane	9.543	100.0%	3.231	4.713	100.0%	2.078
n-Octane	5.665	100.0%	1.868	3.305	100.0%	1.233
trans-2-Hexene	0.123	0.0%	NA	0.123	0.0%	NA
trans-2-Pentene	0.318	49.2%	0.081	0.170	52.5%	0.074
Sum of Aliphatic C5-C8 Fraction	230.73	NA	71.50	88.18	NA	31.84

NA = Not Applicable

Table A2. Continued

2008 Total Petroleum Hydrocarbons with Toxicity Values at the Bell and Brock Sites in the Rural Oil & Gas Development Area.

Compound	BELL			BROCK		
	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$
Aliphatic Hydrocarbons C9-C18						
1-Decene	NA	0.0%	NA	0.057	0.0%	NA
1-Dodecene	0.998	27.1%	0.175	1.503	22.0%	0.320
1-Nonene	0.426	55.9%	0.117	0.252	44.1%	0.100
1-Tridecene	0.133	3.4%	0.121	0.120	1.7%	0.120
1-Undecene	0.205	10.2%	0.057	0.349	16.9%	0.070
a-Pinene	3.365	79.7%	0.463	1.008	59.3%	0.277
b-Pinene	1.432	3.4%	0.118	1.605	16.9%	0.322
n-Decane	69.831	100.0%	6.799	1.158	100.0%	0.442
n-Dodecane	71.407	100.0%	9.256	2.049	98.3%	0.598
n-Undecane	254.561	100.0%	31.790	1.871	100.0%	0.707
n-Tridecane	3.828	33.9%	0.492	0.463	32.2%	0.147
Sum of Aliphatic C9-C18 Fraction	406.24	NA	49.39	10.44	NA	3.103
Aromatic Hydrocarbons C9-C16						
p-Diethylbenzene	0.421	18.6%	0.058	0.714	11.9%	0.104
m-Diethylbenzene	0.530	30.5%	0.118	0.369	27.1%	0.085
p-Ethyltoluene	0.907	96.6%	0.202	0.274	88.1%	0.110
m-Ethyltoluene	1.628	98.3%	0.202	8.739	100.0%	1.727
o-Ethyltoluene	1.202	71.2%	0.247	0.563	59.3%	0.174
Sum of Aromatic C9-C16 Fraction	4.688	NA	0.827	10.659	NA	2.2

NA = Not Applicable

Table A2.1. 2008 Total Petroleum Hydrocarbons with toxicity values at the Parachute and Rifle Sites in the Urban Oil & Gas Development Area

Compound	PARACHUTE			RIFLE		
	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$
Aliphatic hydrocarbons C5-C8						
1-Heptene	2.467	93.2%	1.068	1.675	96.7%	0.655
1-Hexene	0.200	74.6%	0.099	0.182	85.0%	0.101
1-Octene	1.021	32.2%	0.282	0.524	30.0%	0.123
1-Pentene	0.648	96.6%	0.172	0.981	98.3%	0.253
2,2,3-Trimethylpentane	1.069	89.8%	0.397	0.467	75.0%	0.252
2,2,4-Trimethylpentane	3.632	39.0%	0.576	0.940	100.0%	0.213
2,2-Dimethylbutane	1.921	100.0%	0.859	1.439	100.0%	0.596
2,3,4-Trimethylpentane	0.392	78.0%	0.138	0.339	90.0%	0.130
2,3-Dimethylbutane	3.713	100.0%	1.512	2.820	100.0%	1.132
2,3-Dimethylpentane	4.104	100.0%	0.899	1.288	100.0%	0.603
2,4-Dimethylpentane	1.499	100.0%	0.549	0.831	100.0%	0.408
2-Ethyl-1-butene	0.123	0.0%	NA	0.123	0.0%	NA
2-Methyl-1-butene	2.639	78.0%	0.804	4.394	88.3%	0.709
2-Methyl-1-pentene	0.177	10.2%	0.123	0.181	36.7%	0.111
2-Methyl-2-butene	1.342	79.7%	0.223	1.819	96.7%	0.417
2-Methylheptane	4.911	100.0%	1.654	1.962	100.0%	0.783
2-Methylhexane	12.002	98.3%	2.760	3.425	100.0%	1.591
2-Methylpentane	14.921	100.0%	6.135	11.808	100.0%	5.029
3-Methyl-1-butene	0.209	3.4%	0.067	0.314	8.3%	0.088
3-Methylheptane	3.749	100.0%	1.291	1.314	100.0%	0.584
3-Methylhexane	16.920	100.0%	2.894	3.431	100.0%	1.530
3-Methylpentane	8.753	100.0%	3.576	7.167	100.0%	2.800
4-Methyl-1-pentene	0.254	25.4%	0.129	0.344	25.0%	0.144
cis-2-Hexene	0.223	18.6%	0.122	0.363	21.7%	0.140
cis-2-Pentene	0.352	66.1%	0.086	0.895	91.7%	0.171
Cyclopentane	2.679	100.0%	0.841	1.721	100.0%	0.652
Cyclopentene	1.109	76.3%	0.301	0.658	90.0%	0.214
Isopentane	125.120	96.6%	34.020	40.369	95.0%	17.810
Isoprene	1.588	81.4%	0.615	1.817	96.7%	0.579
Methylcyclopentane	10.040	100.0%	3.858	6.081	100.0%	2.492
n-Heptane	19.437	100.0%	5.281	7.025	100.0%	2.644
n-Octane	12.556	100.0%	4.393	4.684	100.0%	1.825
trans-2-Hexene	0.209	6.8%	0.126	0.212	35.0%	0.116
trans-2-Pentene	0.906	93.2%	0.157	1.790	100.0%	0.354
Sum of Aliphatic C5-C8 Fraction	260.9	NA	76.01	113.4	NA	45.25

NA = Not Applicable

Table A2.1. Continued.

2008 Total Petroleum Hydrocarbons with toxicity values at the Parachute and Rifle Sites in the Urban Oil & Gas Development Area

Compound	PARACHUTE			RIFLE		
	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$
Aliphatic hydrocarbons C9-C18						
1-Decene	NA	0.0%	NA	NA	0.0%	NA
1-Dodecene	7.114	76.3%	1.609	0.981	36.7%	0.203
1-Nonene	1.899	84.7%	0.248	0.410	68.3%	0.117
1-Tridecene	0.282	5.1%	0.127	0.120	3.3%	0.120
1-Undecene	1.228	16.9%	0.216	0.278	15.0%	0.066
a-Pinene	6.018	88.1%	0.472	0.830	88.3%	0.292
b-Pinene	2.017	8.5%	0.270	0.168	1.7%	0.061
n-Decane	112.893	100.0%	13.150	1.688	100.0%	0.820
n-Dodecane	82.437	100.0%	16.420	3.576	100.0%	0.834
n-Undecane	225.501	100.0%	36.800	3.877	100.0%	0.991
n-Tridecane	5.371	57.6%	0.826	0.748	51.7%	0.167
Sum of Aliphatic C9-C18 Fraction	444.82	NA	70.14	12.73	NA	3.671
Aromatic Hydrocarbons C9-C16						
p-Diethylbenzene	1.751	39.0%	0.232	0.184	48.3%	0.078
m-Diethylbenzene	2.256	66.1%	0.325	0.708	61.7%	0.144
p-Ethyltoluene	3.457	100.0%	0.447	0.545	100.0%	0.257
m-Ethyltoluene	2.458	100.0%	0.589	0.961	100.0%	0.467
o-Ethyltoluene	6.336	96.6%	0.501	0.484	98.3%	0.257
Sum of Aromatic C9-C16 Fraction	16.258	NA	2.094	2.882	NA	1.203

NA = Not Applicable

Table A3. 2008 Chemicals with No Toxicity Values at the Bell and Rulison Sites in the Rural Oil & Gas Development Area

Compound	BELL			BROCK		
	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$
Acetylene	1.816	100.0%	0.600	1.108	100.0%	0.576
n-Butane	136.684	100.0%	35.460	34.587	100.0%	13.630
cis-2-Butene	0.153	39.0%	0.063	0.185	54.2%	0.073
trans-2-Butene	3.345	69.5%	0.367	0.262	69.5%	0.120
Ethane	411.389	100.0%	103.40	193.703	100.0%	63.740
Ethylene	1.514	100.0%	0.735	1.744	100.0%	0.768
Isobutane	118.261	100.0%	32.020	32.626	100.0%	12.300
Isobutene/1-Butene	4.727	79.7%	1.685	5.341	81.4%	2.372
Propane	315.646	100.0%	82.470	98.602	100.0%	35.500
Propyne	0.350	1.7%	0.063	0.049	0.0%	0.049
Carbonyls						
Benzaldehyde	0.195	96.8%	0.085	0.217	92.6%	0.094
Butyraldehyde	0.218	93.5%	0.092	0.177	92.6%	0.085
2,5-Dimethylbenzaldehyde	0.005	0.0%	n/a	0.005	0.0%	0.005
Hexaldehyde	0.098	74.2%	0.092	0.172	81.5%	0.071
Isovaleraldehyde	0.113	9.7%	0.026	0.074	3.7%	0.018
Tolualdehydes	0.251	93.5%	0.094	0.256	100.0%	0.130
Valeraldehyde	0.081	48.4%	0.066	0.063	55.6%	0.062

Table A3.1. 2008 Chemicals with No Toxicity Values at the Parachute and Rifle Sites in the Urban Oil & Gas Development Area

Compound	PARACHUTE			RIFLE		
	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$	Max. Conc. $\mu\text{g}/\text{m}^3$	% Samples Detected	EPC $\mu\text{g}/\text{m}^3$
Acetylene	2.498	100.0%	1.302	4.968	100.0%	1.865
n-Butane	54.317	100.0%	21.710	53.366	100.0%	19.790
cis-2-Butene	0.481	91.5%	0.144	1.876	100.0%	0.519
trans-2-Butene	1.050	94.9%	0.289	1.922	100.0%	0.602
Ethane	318.535	100.0%	116.900	204.772	100.0%	74.860
Ethylene	4.210	98.3%	2.039	7.801	98.3%	2.381
Isobutane	274.556	100.0%	43.190	46.948	100.0%	17.350
Isobutene/1-Butene	6.483	78.0%	3.691	7.057	85.0%	2.462
Propane	155.719	100.0%	59.030	128.663	100.0%	42.280
Propyne	0.049	0.0%	0.049	0.049	0.0%	0.049
Carbonyls						
Benzaldehyde	0.247	100.0%	0.131	0.313	100.0%	0.148
Butyraldehyde	0.711	93.1%	0.233	0.360	100.0%	0.179
2,5-Dimethylbenzaldehyde	0.005	0.0%	0.005	0.005	0.0%	0.005
Hexaldehyde	0.221	86.2%	0.102	0.348	100.0%	0.131
Isovaleraldehyde	0.159	10.3%	0.033	0.134	22.6%	0.076
Tolualdehydes	0.226	96.6%	0.120	0.246	100.0%	0.162
Valeraldehyde	0.113	72.4%	0.060	0.208	80.6%	0.139

Table A4. 2008 Summary of Exposure Point Concentrations (EPCs) at all Monitoring Sites.

Compound	EPCs ($\mu\text{g}/\text{m}^3$)			
	BELL	BROCK	PARA CHUTE	RIFLE
Acetaldehyde	0.943	0.889	1.201	1.732
Acetone	3.113	3.269	3.709	3.988
Benzene	1.521	0.964	2.755	1.862
1,3-Butadiene	0.053	0.053	0.111	0.148
Crotonaldehyde	0.155	0.253	0.110	0.186
Cyclohexane	5.010	2.413	4.721	2.811
Ethylbenzene	0.576	0.191	0.726	0.526
Formaldehyde	1.128	1.175	1.865	2.124
n-Hexane	7.319	4.606	6.940	5.110
Isopropylbenzene	0.090	0.084	0.099	0.080
Methylcyclohexane	6.812	4.855	11.300	5.494
Nonane	0.786	0.487	2.727	0.916
Pentane	17.39	8.222	16.64	11.05
Propionaldehyde	0.287	0.295	0.765	0.973
Propylene	0.101	0.074	0.213	0.164
Propylbenzene	0.374	0.088	0.258	0.090
Styrene	9.371	2.226	11.830	4.890
Toluene	0.097	0.091	0.134	0.192
1,2,3-Trimethylbenzene	0.098	0.070	0.503	0.150
1,2,4-Trimethylbenzene	0.304	0.211	1.124	0.690
1,3,5-Trimethylbenzene	0.185	0.159	0.765	0.361
m-Xylene/p-Xylene	1.608	1.179	4.543	2.612
o-Xylene	0.577	0.232	0.911	0.709
Aliphatic hydrocarbons C5-C8	71.50	31.84	76.01	45.25
Aliphatic hydrocarbons C9-C18	49.34	3.103	70.14	3.671
Aromatic hydrocarbons C9-C16	0.827	2.200	2.094	1.203

Table A5. 2008 Estimated Potential Lifetime Cancer Risks and Noncancer Hazards (HQ)

Compound	BELL		BROCK		PARACHUTE		RIFLE	
	Cancer Risk	HQ	Cancer Risk	HQ	Cancer Risk	HQ	Cancer Risk	HQ
Acetaldehyde	2.07E-06	0.10	1.96E-06	0.10	2.64E-06	0.13	3.81E-06	0.19
Acetone	NC	0.00	NC	0.00	NC	0.00	NC	0.00
Benzene	1.19E-05	0.05	7.52E-06	0.03	2.15E-05	0.09	1.45E-05	0.06
1,3-Butadiene	1.59E-06	0.03	1.59E-06	0.03	3.33E-06	0.06	4.44E-06	0.07
Crotonaldehyde	8.42E-05	NA	1.37E-04	NA	5.97E-05	NA	1.01E-04	NA
Cyclohexane	NC	0.00	NC	0.00	NC	0.00	NC	0.00
Ethylbenzene	1.44E-06	0.00	4.78E-07	0.00	1.82E-06	0.00	1.32E-06	0.00
Formaldehyde	1.47E-05	0.12	1.53E-05	0.12	2.42E-05	0.19	2.76E-05	0.22
n-Hexane	NC	0.01	NC	0.01	NC	0.01	NC	0.01
Isopropylbenzene	NC	0.00	NC	0.00	NC	0.00	NC	0.00
Methylcyclohexane	NC	0.00	NC	0.00	NC	0.00	NC	0.00
n-Nonane	NC	0.00	NC	0.00	NC	0.01	NC	0.00
Pentane	NC	0.02	NC	0.01	NC	0.02	NC	0.01
Propionaldehyde	NC	0.04	NC	0.04	NC	0.10	NC	0.12
Propylene	NC	0.00	NC	0.00	NC	0.00	NC	0.00
n-propylbenzene	NC	0.00	NC	0.00	NC	0.00	NC	0.00
Styrene	NC	0.01	NC	0.00	NC	0.01	NC	0.00
Toluene	NC	0.00	NC	0.00	NC	0.00	NC	0.00
1,2,3-Trimethylbenzene	NC	0.02	NC	0.01	NC	0.10	NC	0.03
1,2,4-Trimethylbenzene	NC	0.04	NC	0.03	NC	0.16	NC	0.10
1,3,5-Trimethylbenzene	NC	0.01	NC	0.01	NC	0.04	NC	0.02
m-Xylene/p-Xylene	NC	0.02	NC	0.01	NC	0.05	NC	0.03
o-Xylene	NC	0.01	NC	0.00	NC	0.01	NC	0.01
Aliphatic hydrocarbons C5-C8	1.36E-05	0.12	6.05E-06	0.05	1.44E-05	0.13	8.60E-06	0.08
Aliphatic hydrocarbons C9-C18	2.22E-04	0.49	1.40E-05	0.03	3.16E-04	0.70	1.65E-05	0.04
Aromatic hydrocarbons C9-C16	NC	0.01	NC	0.02	NC	0.02	NC	0.01
Cumulative Risk	3.51E-04	1.09	1.84E-04	0.51	4.43E-04	1.83	1.78E-04	1.0

NC = NonCarcinogen; NA = Not Available