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Table 6.1
Summary of Point Sources Parameters
Romic Facility - Chandler, Arizona

Source ID	Description	Location			Source Parameters			
		UTMx	UTMy	Elevation	Height	Temperature	Exit Velocity	Diameter
		(meter)	(meter)	(meter)	(meter)	(Kelvin)	(meters/second)	(meters)
LAB_STK	Laboratory Exhaust	410780.8	3683686	353	4.9	0	0.93	0.508
BOIL_STK	Boiler	410780.7	3683695.6	353	5.5	422	2.5	0.46
DIST_STK	Distillation Processes	410779.5	3683707	353	6.6	0	4.6	0.051

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Table 6.2
Summary of Area Sources Parameters
Romic Facility - Chandler, Arizona

Source ID	Description	Location			Source Parameters				
		UTMx (meter)	UTMy (meter)	Elevation (meter)	Release Height (meter)	X Length (meter)	Y Length (meter)	Angle	Initial Vertical Dimension (meter)
Rectangular Area									
FARM_A	Tank Farm A	410779.8	3683721.6	353	5.4	12.2	7.7	0	0
FARM_B	Tank Farm B	410779.8	3683714	353	5.7	12.2	7.5	0	0
FARM_C1	Tank Farm C1	410804.2	3683720.3	353	4.7	14	8.4	0	0
FARM_C3	Tank Farm C3	410804.4	3683703.4	353	5	13.5	8.1	0	0
FARM_D1	Tank Farm D1	410818.2	3683720.3	353	5.4	12.3	8.4	0	0
FARM_D3	Tank Farm D3	410818.3	3683703.3	353	5.7	12	8.1	0	0
FARM_D4	Tank Farm D4	410825.6	3683693.2	353	4.5	4.7	9.5	0	0
FARM_E	Tank Farm E	410844.6	3683699.5	353	3.9	7.4	11	0	0
FARM_F	Tank Farm F	410852.4	3683699.4	353	4.1	11.5	10.9	0	0
DRUM2	Drum Storage Building #2	410844.5	3683664	353	0.3	21	22.8	0	0
FUG_A	Fugitives Tank Farm A	410779.8	3683721.6	353	0	12.2	7.7	0	0.47
FUG_B	Fugitives Tank Farm B	410779.8	3683714	353	0	12.2	7.5	0	0.47
FUG_C1	Fugitives Tank Farm C1	410804.2	3683720.3	353	0	14	8.4	0	0.47
FUG_C3	Fugitives Tank Farm C3	410804.4	3683703.4	353	0	13.5	8.1	0	0.47
FUG_D1	Fugitives Tank Farm D1	410818.2	3683720.3	353	0	12.3	8.4	0	0.47
FUG_D3	Fugitives Tank Farm D3	410818.3	3683703.3	353	0	12	8.1	0	0.47
FUG_D4	Fugitives Tank Farm D4	410825.6	3683693.2	353	0	4.7	9.5	0	0.47
FUG_E	Fugitives Tank Farm E	410844.6	3683699.5	353	0	7.4	11	0	0.47
FUG_F	Fugitives Tank Farm F	410852.4	3683699.4	353	0	11.5	10.9	0	0.47
TNK_WSH	Truck Washout	410794	3683721	353	3.25	0.51	0.51	0	0
TR1	Trough 1	410789.9	3683717	353	0.2	1.4	1.4	0	0
TR2	Trough 2	410782.6	3683717.1	353	0.3	1	1	0	0
TR3	Trough 3	410807.7	3683727.4	353	0.25	0.8	0.8	0	0
TR4	Trough 4	410804.2	3683706.2	353	0.2	1.3	1.3	0	0
TR5	Trough 5	410829.3	3683707.2	353	0.2	0.86	0.86	0	0
RAILSAMP	Railcar Sampling	410852	3683739	353	3.25	0.51	0.51	0	0
TANKSAMP	Tanker Truck Sampling	410794	3683691.5	353	3.25	0.51	0.51	0	0
DISTAREA	Distillation Area Tanks	410779.8	3683698.4	353	3.6	12.1	9.5	0	0
FUG_DIST	Fugitives Distillation Area Tanks	410779.8	3683698.4	353	0	12.1	9.5	0	0.47
Polygon Area									
DRUM1	Drum Storage Building #1	410789	3683778.6	353	0.3	-	-	-	0

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Table 6.3
Summary of Volume Sources Parameters
Romic Facility - Chandler, Arizona

Source ID	Description	Location			Source Parameters		
		UTMx	UTMy	Elevation	Release Height	Initial Lateral Dimension	Initial Vertical Dimension
		(meter)	(meter)	(meter)	(meter)	(meter)	(meter)
DRUMMUCK	Drum emptying "mucking"	410814	3683716	353	0.46	0.8	0.43
LAB_PACK	Lab pack consolidation	410821	3683716	353	0.46	0.71	0.43
DRUMSAMP	Drum Sampling	410801	3683754	353	1	0.07	0.07

Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
BOIL_STK	Boilers	Benzene	71432	3.74E-07	7.50E-07
BOIL_STK	Boilers	Hexane	110543	3.20E-04	6.43E-04
BOIL_STK	Boilers	Naphthalene	91203	1.09E-07	2.18E-07
BOIL_STK	Boilers	Toluene	108883	6.05E-07	1.21E-06
DISTAREA	Distillation Area	1,1,1-Trichloroethane	71556	1.25E-06	1.25E-06
DISTAREA	Distillation Area	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	4.39E-06	4.39E-06
DISTAREA	Distillation Area	1-Methoxy-2-Propanol	107982	4.72E-07	4.72E-07
DISTAREA	Distillation Area	2-Butoxyethanol acetate	112072	3.65E-11	3.65E-11
DISTAREA	Distillation Area	2-Ethoxyethyl acetate	111159	1.27E-07	1.27E-07
DISTAREA	Distillation Area	2-Ethoxypropanol	19089475	1.80E-06	1.80E-06
DISTAREA	Distillation Area	2-Heptanone	110430	1.10E-08	1.10E-08
DISTAREA	Distillation Area	2-Ppentanone	107879	7.50E-07	7.50E-07
DISTAREA	Distillation Area	Acetone	67641	6.48E-05	6.48E-05
DISTAREA	Distillation Area	Acetonitrile	75058	1.43E-07	1.43E-07
DISTAREA	Distillation Area	Alcohols	67630	1.66E-05	1.66E-05
DISTAREA	Distillation Area	Butyl Acetate	123864	2.31E-08	2.31E-08
DISTAREA	Distillation Area	Chloroform	67663	1.05E-07	1.05E-07
DISTAREA	Distillation Area	Cyclohexanone	108941	1.20E-07	1.20E-07
DISTAREA	Distillation Area	Dibutyl Phthalate	84742	7.93E-17	7.93E-17
DISTAREA	Distillation Area	Diethylene Glycol	111466	7.85E-09	7.85E-09
DISTAREA	Distillation Area	Diethylene Glycol Butyl Ether	112345	3.46E-10	3.46E-10
DISTAREA	Distillation Area	Dimethylformamide	68122	1.45E-08	1.45E-08
DISTAREA	Distillation Area	Ethanol	64175	3.55E-07	3.55E-07
DISTAREA	Distillation Area	Ethyl Acetate	141786	8.01E-07	8.01E-07
DISTAREA	Distillation Area	Ethyl Benzene	100414	9.82E-09	9.82E-09
DISTAREA	Distillation Area	Ethyl Lactate	687478	3.57E-06	3.57E-06
DISTAREA	Distillation Area	Ethyl-3-Ethoxypropionate	763699	3.78E-08	3.78E-08
DISTAREA	Distillation Area	Ethylene Glycol	107211	3.16E-09	3.16E-09
DISTAREA	Distillation Area	Heptane	142825	4.66E-08	4.66E-08
DISTAREA	Distillation Area	Hexamethyldisilazane	999973	5.24E-07	5.24E-07
DISTAREA	Distillation Area	Hexane	110543	2.31E-07	2.31E-07
DISTAREA	Distillation Area	Hydrofluoric Acid	7664393	3.51E-08	3.51E-08
DISTAREA	Distillation Area	Isoparaffinic Hydrocarbons	64771728	1.06E-09	1.06E-09
DISTAREA	Distillation Area	Isopropanolamine	78966	1.11E-08	1.11E-08
DISTAREA	Distillation Area	Isopropyl Acetate	108214	3.24E-09	3.24E-09
DISTAREA	Distillation Area	Methanol	67561	1.18E-06	1.18E-06
DISTAREA	Distillation Area	Methyl Ethyl Ketone	78933	7.86E-06	7.86E-06
DISTAREA	Distillation Area	Methyl Isobutyl Ketone	108101	5.65E-08	5.65E-08
DISTAREA	Distillation Area	Methylene Chloride	75092	2.55E-05	2.55E-05
DISTAREA	Distillation Area	Naphtha	8030306	2.93E-05	2.93E-05
DISTAREA	Distillation Area	n-Butanol	71363	4.76E-08	4.76E-08
DISTAREA	Distillation Area	n-Butyl Cellosolve	111762	2.90E-10	2.90E-10
DISTAREA	Distillation Area	n-Methyl-2-Pyrrolidone	872504	4.39E-06	4.39E-06
DISTAREA	Distillation Area	n-Propyl Acetate	109604	2.66E-07	2.66E-07
DISTAREA	Distillation Area	Petroleum Oil Products	8002059	1.06E-09	1.06E-09
DISTAREA	Distillation Area	Phenol	108952	2.89E-11	2.89E-11
DISTAREA	Distillation Area	Phosphoric Acid	7664382	6.40E-13	6.40E-13
DISTAREA	Distillation Area	Propylene Glycol Methyl Ether Acetate	108656	2.03E-07	2.03E-07
DISTAREA	Distillation Area	Stoddard Solvent	8052413	6.09E-05	6.09E-05
DISTAREA	Distillation Area	Sulfolane	126330	7.59E-10	7.59E-10
DISTAREA	Distillation Area	Tetrachloroethylene	127184	3.41E-06	3.41E-06
DISTAREA	Distillation Area	Tetraethyl Orthosilicate	78104	1.30E-10	1.30E-10
DISTAREA	Distillation Area	Tetrahydrofuran	109999	2.05E-07	2.05E-07
DISTAREA	Distillation Area	Toluene	108883	1.13E-06	1.13E-06
DISTAREA	Distillation Area	Trichloroethylene	79016	3.70E-06	3.70E-06
DISTAREA	Distillation Area	Triethylenetetramine	112243	5.23E-13	5.23E-13
DISTAREA	Distillation Area	Xylenes	1330207	1.96E-06	1.96E-06
DRUM1	Drum Storage Building #1	1,1,1-Trichloroethane	71556	3.75E-05	3.75E-05
DRUM1	Drum Storage Building #1	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	1.40E-04	1.40E-04
DRUM1	Drum Storage Building #1	1-Methoxy-2-Propanol	107982	2.55E-06	2.55E-06
DRUM1	Drum Storage Building #1	2-Butoxyethanol acetate	112072	1.16E-09	1.16E-09
DRUM1	Drum Storage Building #1	2-Ethoxyethyl acetate	111159	4.04E-06	4.04E-06
DRUM1	Drum Storage Building #1	2-Ethoxypropanol	19089475	5.73E-05	5.73E-05
DRUM1	Drum Storage Building #1	2-Heptanone	110430	9.35E-07	9.35E-07
DRUM1	Drum Storage Building #1	2-Ppentanone	107879	2.43E-05	2.43E-05
DRUM1	Drum Storage Building #1	Acetone	67641	2.10E-03	2.10E-03
DRUM1	Drum Storage Building #1	Acetonitrile	75058	4.45E-06	4.45E-06

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
DRUM1	Drum Storage Building #1	Alcohols	67630	5.36E-04	5.36E-04
DRUM1	Drum Storage Building #1	Butyl Acetate	123864	7.47E-07	7.47E-07
DRUM1	Drum Storage Building #1	Chloroform	67663	2.78E-06	2.78E-06
DRUM1	Drum Storage Building #1	Cyclohexanone	108941	3.49E-06	3.49E-06
DRUM1	Drum Storage Building #1	Dibutyl Phthalate	84742	8.18E-14	8.18E-14
DRUM1	Drum Storage Building #1	Diethylene Glycol	111466	2.12E-07	2.12E-07
DRUM1	Drum Storage Building #1	Diethylene Glycol Butyl Ether	112345	2.37E-07	2.37E-07
DRUM1	Drum Storage Building #1	Dimethylformamide	68122	4.55E-07	4.55E-07
DRUM1	Drum Storage Building #1	Ethanol	64175	1.14E-05	1.14E-05
DRUM1	Drum Storage Building #1	Ethyl Acetate	141786	2.55E-05	2.55E-05
DRUM1	Drum Storage Building #1	Ethyl Benzene	100414	3.08E-07	3.08E-07
DRUM1	Drum Storage Building #1	Ethyl Lactate	687478	1.14E-04	1.14E-04
DRUM1	Drum Storage Building #1	Ethyl-3-Ethoxypropionate	763699	8.04E-07	8.04E-07
DRUM1	Drum Storage Building #1	Ethylene Glycol	107211	7.40E-08	7.40E-08
DRUM1	Drum Storage Building #1	Heptane	142825	1.34E-06	1.34E-06
DRUM1	Drum Storage Building #1	Hexamethyldisilazane	999973	1.67E-05	1.67E-05
DRUM1	Drum Storage Building #1	Hexane	110543	7.44E-06	7.44E-06
DRUM1	Drum Storage Building #1	Isoparaffinic Hydrocarbons	64771728	4.75E-06	4.75E-06
DRUM1	Drum Storage Building #1	Isopropanolamine	78966	3.54E-07	3.54E-07
DRUM1	Drum Storage Building #1	Isopropyl Acetate	108214	7.46E-08	7.46E-08
DRUM1	Drum Storage Building #1	Methanol	67561	3.87E-05	3.87E-05
DRUM1	Drum Storage Building #1	Methyl Ethyl Ketone	78933	2.55E-04	2.55E-04
DRUM1	Drum Storage Building #1	Methyl Isobutyl Ketone	108101	1.89E-06	1.89E-06
DRUM1	Drum Storage Building #1	Methylene Chloride	75092	8.32E-04	8.32E-04
DRUM1	Drum Storage Building #1	Naphtha	8030306	1.81E-04	1.81E-04
DRUM1	Drum Storage Building #1	n-Butanol	71363	1.68E-06	1.68E-06
DRUM1	Drum Storage Building #1	n-Butyl Cellosolve	111762	1.13E-08	1.13E-08
DRUM1	Drum Storage Building #1	n-Methyl-2-Pyrrolidone	872504	8.64E-05	8.64E-05
DRUM1	Drum Storage Building #1	n-Propyl Acetate	109604	9.17E-06	9.17E-06
DRUM1	Drum Storage Building #1	Petroleum Oil Products	8002059	3.39E-08	3.39E-08
DRUM1	Drum Storage Building #1	Phenol	108952	9.42E-10	9.42E-10
DRUM1	Drum Storage Building #1	Phosphoric Acid	7664382	1.50E-09	1.50E-09
DRUM1	Drum Storage Building #1	Propylene Glycol Methyl Ether Acetate	108656	6.47E-06	6.47E-06
DRUM1	Drum Storage Building #1	Stoddard Solvent	8052413	6.27E-05	6.27E-05
DRUM1	Drum Storage Building #1	Sulfolane	126330	2.42E-08	2.42E-08
DRUM1	Drum Storage Building #1	Tetrachloroethylene	127184	1.12E-04	1.12E-04
DRUM1	Drum Storage Building #1	Tetraethyl Orthosilicate	78104	4.45E-09	4.45E-09
DRUM1	Drum Storage Building #1	Tetrahydrofuran	109999	6.62E-06	6.62E-06
DRUM1	Drum Storage Building #1	Toluene	108883	3.64E-05	3.64E-05
DRUM1	Drum Storage Building #1	Trichloroethylene	79016	1.19E-04	1.19E-04
DRUM1	Drum Storage Building #1	Triethylenetetramine	112243	1.67E-11	1.67E-11
DRUM1	Drum Storage Building #1	Xylenes	1330207	6.10E-05	6.10E-05
DRUM2	Drum Storage Building #2	1,1,1-Trichloroethane	71556	1.70E-05	1.70E-05
DRUM2	Drum Storage Building #2	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	6.34E-05	6.34E-05
DRUM2	Drum Storage Building #2	1-Methoxy-2-Propanol	107982	1.16E-06	1.16E-06
DRUM2	Drum Storage Building #2	2-Butoxyethanol acetate	112072	5.27E-10	5.27E-10
DRUM2	Drum Storage Building #2	2-Ethoxyethyl acetate	111159	1.83E-06	1.83E-06
DRUM2	Drum Storage Building #2	2-Ethoxypropanol	19089475	2.60E-05	2.60E-05
DRUM2	Drum Storage Building #2	2-Heptanone	110430	4.23E-07	4.23E-07
DRUM2	Drum Storage Building #2	2-Ppentanone	107879	1.10E-05	1.10E-05
DRUM2	Drum Storage Building #2	Acetone	67641	9.50E-04	9.50E-04
DRUM2	Drum Storage Building #2	Acetonitrile	75058	2.02E-06	2.02E-06
DRUM2	Drum Storage Building #2	Alcohols	67630	2.43E-04	2.43E-04
DRUM2	Drum Storage Building #2	Butyl Acetate	123864	3.38E-07	3.38E-07
DRUM2	Drum Storage Building #2	Chloroform	67663	1.26E-06	1.26E-06
DRUM2	Drum Storage Building #2	Cyclohexanone	108941	1.58E-06	1.58E-06
DRUM2	Drum Storage Building #2	Dibutyl Phthalate	84742	3.70E-14	3.70E-14
DRUM2	Drum Storage Building #2	Diethylene Glycol	111466	9.59E-08	9.59E-08
DRUM2	Drum Storage Building #2	Diethylene Glycol Butyl Ether	112345	1.07E-07	1.07E-07
DRUM2	Drum Storage Building #2	Dimethylformamide	68122	2.06E-07	2.06E-07
DRUM2	Drum Storage Building #2	Ethanol	64175	5.17E-06	5.17E-06
DRUM2	Drum Storage Building #2	Ethyl Acetate	141786	1.15E-05	1.15E-05
DRUM2	Drum Storage Building #2	Ethyl Benzene	100414	1.39E-07	1.39E-07
DRUM2	Drum Storage Building #2	Ethyl Lactate	687478	5.16E-05	5.16E-05
DRUM2	Drum Storage Building #2	Ethyl-3-Ethoxypropionate	763699	3.64E-07	3.64E-07
DRUM2	Drum Storage Building #2	Ethylene Glycol	107211	3.35E-08	3.35E-08
DRUM2	Drum Storage Building #2	Heptane	142825	6.06E-07	6.06E-07

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
DRUM2	Drum Storage Building #2	Hexamethyldisilazane	999973	7.56E-06	7.56E-06
DRUM2	Drum Storage Building #2	Hexane	110543	3.37E-06	3.37E-06
DRUM2	Drum Storage Building #2	Isoparaffinic Hydrocarbons	64771728	2.15E-06	2.15E-06
DRUM2	Drum Storage Building #2	Isopropanolamine	78966	1.60E-07	1.60E-07
DRUM2	Drum Storage Building #2	Isopropyl Acetate	108214	3.38E-08	3.38E-08
DRUM2	Drum Storage Building #2	Methanol	67561	1.75E-05	1.75E-05
DRUM2	Drum Storage Building #2	Methyl Ethyl Ketone	78933	1.16E-04	1.16E-04
DRUM2	Drum Storage Building #2	Methyl Isobutyl Ketone	108101	8.54E-07	8.54E-07
DRUM2	Drum Storage Building #2	Methylene Chloride	75092	3.77E-04	3.77E-04
DRUM2	Drum Storage Building #2	Naphtha	8030306	8.20E-05	8.20E-05
DRUM2	Drum Storage Building #2	n-Butanol	71363	7.60E-07	7.60E-07
DRUM2	Drum Storage Building #2	n-Butyl Cellosolve	111762	5.13E-09	5.13E-09
DRUM2	Drum Storage Building #2	n-Methyl-2-Pyrrolidone	872504	3.91E-05	3.91E-05
DRUM2	Drum Storage Building #2	n-Propyl Acetate	109604	4.15E-06	4.15E-06
DRUM2	Drum Storage Building #2	Petroleum Oil Products	8002059	1.53E-08	1.53E-08
DRUM2	Drum Storage Building #2	Phenol	108952	4.27E-10	4.27E-10
DRUM2	Drum Storage Building #2	Phosphoric Acid	7664382	6.78E-10	6.78E-10
DRUM2	Drum Storage Building #2	Propylene Glycol Methyl Ether Acetate	108656	2.93E-06	2.93E-06
DRUM2	Drum Storage Building #2	Stoddard Solvent	8052413	2.84E-05	2.84E-05
DRUM2	Drum Storage Building #2	Sulfolane	126330	1.10E-08	1.10E-08
DRUM2	Drum Storage Building #2	Tetrachloroethylene	127184	5.06E-05	5.06E-05
DRUM2	Drum Storage Building #2	Tetraethyl Orthosilicate	78104	2.01E-09	2.01E-09
DRUM2	Drum Storage Building #2	Tetrahydrofuran	109999	3.00E-06	3.00E-06
DRUM2	Drum Storage Building #2	Toluene	108883	1.65E-05	1.65E-05
DRUM2	Drum Storage Building #2	Trichloroethylene	79016	5.41E-05	5.41E-05
DRUM2	Drum Storage Building #2	Triethylenetetramine	112243	7.55E-12	7.55E-12
DRUM2	Drum Storage Building #2	Xylenes	1330207	2.76E-05	2.76E-05
DRUMSAMP	Drum Sampling	1,1,1-Trichloroethane	71556	1.72E-06	1.72E-06
DRUMSAMP	Drum Sampling	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	6.45E-06	6.45E-06
DRUMSAMP	Drum Sampling	1-Methoxy-2-Propanol	107982	1.18E-07	1.18E-07
DRUMSAMP	Drum Sampling	2-Butoxyethanol acetate	112072	5.36E-11	5.36E-11
DRUMSAMP	Drum Sampling	2-Ethoxyethyl acetate	111159	1.86E-07	1.86E-07
DRUMSAMP	Drum Sampling	2-Ethoxypropanol	19089475	2.64E-06	2.64E-06
DRUMSAMP	Drum Sampling	2-Heptanone	110430	4.31E-08	4.31E-08
DRUMSAMP	Drum Sampling	2-Ppentanone	107879	1.12E-06	1.12E-06
DRUMSAMP	Drum Sampling	Acetone	67641	9.66E-05	9.66E-05
DRUMSAMP	Drum Sampling	Acetonitrile	75058	2.05E-07	2.05E-07
DRUMSAMP	Drum Sampling	Alcohols	67630	2.47E-05	2.47E-05
DRUMSAMP	Drum Sampling	Butyl Acetate	123864	3.44E-08	3.44E-08
DRUMSAMP	Drum Sampling	Chloroform	67663	1.28E-07	1.28E-07
DRUMSAMP	Drum Sampling	Cyclohexanone	108941	1.61E-07	1.61E-07
DRUMSAMP	Drum Sampling	Dibutyl Phthalate	84742	3.77E-15	3.77E-15
DRUMSAMP	Drum Sampling	Diethylene Glycol	111466	9.75E-09	9.75E-09
DRUMSAMP	Drum Sampling	Diethylene Glycol Butyl Ether	112345	1.09E-08	1.09E-08
DRUMSAMP	Drum Sampling	Dimethylformamide	68122	2.09E-08	2.09E-08
DRUMSAMP	Drum Sampling	Ethanol	64175	5.26E-07	5.26E-07
DRUMSAMP	Drum Sampling	Ethyl Acetate	141786	1.17E-06	1.17E-06
DRUMSAMP	Drum Sampling	Ethyl Benzene	100414	1.42E-08	1.42E-08
DRUMSAMP	Drum Sampling	Ethyl Lactate	687478	5.24E-06	5.24E-06
DRUMSAMP	Drum Sampling	Ethyl-3-Ethoxypropionate	763699	3.70E-08	3.70E-08
DRUMSAMP	Drum Sampling	Ethylene Glycol	107211	3.41E-09	3.41E-09
DRUMSAMP	Drum Sampling	Heptane	142825	6.16E-08	6.16E-08
DRUMSAMP	Drum Sampling	Hexamethyldisilazane	999973	7.69E-07	7.69E-07
DRUMSAMP	Drum Sampling	Hexane	110543	3.42E-07	3.42E-07
DRUMSAMP	Drum Sampling	Isoparaffinic Hydrocarbons	64771728	2.19E-07	2.19E-07
DRUMSAMP	Drum Sampling	Isopropanolamine	78966	1.63E-08	1.63E-08
DRUMSAMP	Drum Sampling	Isopropyl Acetate	108214	3.43E-09	3.43E-09
DRUMSAMP	Drum Sampling	Methanol	67561	1.78E-06	1.78E-06
DRUMSAMP	Drum Sampling	Methyl Ethyl Ketone	78933	1.18E-05	1.18E-05
DRUMSAMP	Drum Sampling	Methyl Isobutyl Ketone	108101	8.68E-08	8.68E-08
DRUMSAMP	Drum Sampling	Methylene Chloride	75092	3.83E-05	3.83E-05
DRUMSAMP	Drum Sampling	Naphtha	8030306	8.34E-06	8.34E-06
DRUMSAMP	Drum Sampling	n-Butanol	71363	7.73E-08	7.73E-08
DRUMSAMP	Drum Sampling	n-Butyl Cellosolve	111762	5.22E-10	5.22E-10
DRUMSAMP	Drum Sampling	n-Methyl-2-Pyrrolidone	872504	3.98E-06	3.98E-06
DRUMSAMP	Drum Sampling	n-Propyl Acetate	109604	4.22E-07	4.22E-07
DRUMSAMP	Drum Sampling	Petroleum Oil Products	8002059	1.56E-09	1.56E-09

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
DRUMSAMP	Drum Sampling	Phenol	108952	4.34E-11	4.34E-11
DRUMSAMP	Drum Sampling	Phosphoric Acid	7664382	6.89E-11	6.89E-11
DRUMSAMP	Drum Sampling	Propylene Glycol Methyl Ether Acetate	108656	2.98E-07	2.98E-07
DRUMSAMP	Drum Sampling	Stoddard Solvent	8052413	2.89E-06	2.89E-06
DRUMSAMP	Drum Sampling	Sulfolane	126330	1.11E-09	1.11E-09
DRUMSAMP	Drum Sampling	Tetrachloroethylene	127184	5.14E-06	5.14E-06
DRUMSAMP	Drum Sampling	Tetraethyl Orthosilicate	78104	2.05E-10	2.05E-10
DRUMSAMP	Drum Sampling	Tetrahydrofuran	109999	3.05E-07	3.05E-07
DRUMSAMP	Drum Sampling	Toluene	108883	1.68E-06	1.68E-06
DRUMSAMP	Drum Sampling	Trichloroethylene	79016	5.50E-06	5.50E-06
DRUMSAMP	Drum Sampling	Triethylenetetramine	112243	7.68E-13	7.68E-13
DRUMSAMP	Drum Sampling	Xylenes	1330207	2.81E-06	2.81E-06
FARM_A	Tank Farm A	1,1,1-Trichloroethane	71556	2.43E-05	2.43E-05
FARM_A	Tank Farm A	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	6.05E-06	6.05E-06
FARM_A	Tank Farm A	1,1,2-Trichloroethane	79005	1.19E-09	1.19E-09
FARM_A	Tank Farm A	1,2,4-Trimethylbenzene	95636	4.37E-08	4.37E-08
FARM_A	Tank Farm A	1,2-Dichlorobenzene	95501	5.34E-10	5.34E-10
FARM_A	Tank Farm A	1,3,5-Trimethylbenzene	108678	3.70E-08	3.70E-08
FARM_A	Tank Farm A	1,4-Dioxane	123911	5.49E-07	5.49E-07
FARM_A	Tank Farm A	1-Methoxy-2-Propanol	107982	1.63E-04	1.63E-04
FARM_A	Tank Farm A	2-Butoxyethanol acetate	112072	2.17E-10	2.17E-10
FARM_A	Tank Farm A	2-Ethoxyethyl acetate	111159	1.67E-07	1.67E-07
FARM_A	Tank Farm A	2-Ethoxypropanol	19089475	1.19E-06	1.19E-06
FARM_A	Tank Farm A	2-Heptanone	110430	5.36E-08	5.36E-08
FARM_A	Tank Farm A	2-Methoxyethanol	109864	1.03E-06	1.03E-06
FARM_A	Tank Farm A	2-Methyl-1-Propanol	78831	2.30E-07	2.30E-07
FARM_A	Tank Farm A	2-Ppentanone	107879	6.69E-05	6.69E-05
FARM_A	Tank Farm A	2-Pyrrolidone	616455	4.96E-09	4.96E-09
FARM_A	Tank Farm A	4-Hydroxy-4-Methyl-2-Pentanone	123422	4.27E-10	4.27E-10
FARM_A	Tank Farm A	Acetic acid	64197	1.72E-06	1.72E-06
FARM_A	Tank Farm A	Acetone	67641	2.79E-03	2.79E-03
FARM_A	Tank Farm A	Acetonitrile	75058	1.57E-04	1.57E-04
FARM_A	Tank Farm A	Alcohols	67630	5.01E-04	5.01E-04
FARM_A	Tank Farm A	Amyl Acetate	628637	1.22E-06	1.22E-06
FARM_A	Tank Farm A	Benzene	71432	3.64E-05	3.64E-05
FARM_A	Tank Farm A	Biocide (as Acrolein)	107028	2.54E-08	2.54E-08
FARM_A	Tank Farm A	Brominated Bisphenol	79947	1.03E-17	1.03E-17
FARM_A	Tank Farm A	Butyl Acetate	123864	1.89E-05	1.89E-05
FARM_A	Tank Farm A	Carbon Tetrachloride	56235	1.77E-08	1.77E-08
FARM_A	Tank Farm A	Chlorobenzene	108907	1.65E-08	1.65E-08
FARM_A	Tank Farm A	Chloroform	67663	1.27E-05	1.27E-05
FARM_A	Tank Farm A	Cresol	1319773	3.70E-10	3.70E-10
FARM_A	Tank Farm A	Cyclohexane	110827	4.58E-05	4.58E-05
FARM_A	Tank Farm A	Cyclohexanone	108941	1.46E-06	1.46E-06
FARM_A	Tank Farm A	Dibutyl Phthalate	84742	9.52E-16	9.52E-16
FARM_A	Tank Farm A	Diesel Fuel	68476346	2.59E-06	2.59E-06
FARM_A	Tank Farm A	Diethylene Glycol	111466	6.73E-09	6.73E-09
FARM_A	Tank Farm A	Diethylene Glycol Butyl Ether	112345	1.27E-09	1.27E-09
FARM_A	Tank Farm A	Diethylenetriamine	111400	3.16E-10	3.16E-10
FARM_A	Tank Farm A	Dimethylformamide	68122	1.97E-06	1.97E-06
FARM_A	Tank Farm A	Ethanol	64175	1.53E-04	1.53E-04
FARM_A	Tank Farm A	Ethyl Acetate	141786	6.99E-05	6.99E-05
FARM_A	Tank Farm A	Ethyl Benzene	100414	1.43E-06	1.43E-06
FARM_A	Tank Farm A	Ethyl Lactate	687478	2.44E-05	2.44E-05
FARM_A	Tank Farm A	Ethyl-3-Ethoxypropionate	763699	5.44E-08	5.44E-08
FARM_A	Tank Farm A	Ethylene Glycol	107211	6.27E-06	6.27E-06
FARM_A	Tank Farm A	Ferric Chloride	7705080	1.43E-07	1.43E-07
FARM_A	Tank Farm A	Formic Acid	64186	1.24E-09	1.24E-09
FARM_A	Tank Farm A	Gasoline	8006619	1.74E-03	1.74E-03
FARM_A	Tank Farm A	Glycerin	56815	1.75E-15	1.75E-15
FARM_A	Tank Farm A	Heptane	142825	6.62E-06	6.62E-06
FARM_A	Tank Farm A	Hexamethyldisilazane	999973	4.63E-07	4.63E-07
FARM_A	Tank Farm A	Hexane	110543	3.61E-05	3.61E-05
FARM_A	Tank Farm A	Hydrochloric Acid	7647010	7.99E-10	7.99E-10
FARM_A	Tank Farm A	Hydrofluoric Acid	7664393	5.67E-07	5.67E-07
FARM_A	Tank Farm A	isobutyl acetate	110190	3.05E-07	3.05E-07

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FARM_A	Tank Farm A	Isobutyl Isobutyrate	97858	2.62E-10	2.62E-10
FARM_A	Tank Farm A	Isoparaffinic Hydrocarbons	64771728	1.76E-05	1.76E-05
FARM_A	Tank Farm A	Isopropanolamine	78966	7.32E-09	7.32E-09
FARM_A	Tank Farm A	Isopropyl Acetate	108214	7.51E-07	7.51E-07
FARM_A	Tank Farm A	Jet Fuel/Kerosene	8008206	3.43E-06	3.43E-06
FARM_A	Tank Farm A	Methanol	67561	4.82E-04	4.82E-04
FARM_A	Tank Farm A	Methyl Ethyl Ketone	78933	5.34E-04	5.34E-04
FARM_A	Tank Farm A	Methyl Isobutyl Ketone	108101	1.86E-05	1.86E-05
FARM_A	Tank Farm A	Methylene Chloride	75092	8.79E-04	8.79E-04
FARM_A	Tank Farm A	Mineral Oil	8012951	3.30E-05	3.30E-05
FARM_A	Tank Farm A	Naphtha	8030306	5.99E-04	5.99E-04
FARM_A	Tank Farm A	Naphthalene	91203	2.19E-09	2.19E-09
FARM_A	Tank Farm A	n-Butanol	71363	8.35E-06	8.35E-06
FARM_A	Tank Farm A	n-Butyl Cellosolve	111762	5.35E-07	5.35E-07
FARM_A	Tank Farm A	Nitric Acid	7697372	3.28E-09	3.28E-09
FARM_A	Tank Farm A	n-Methyl-2-Pyrrolidone	872504	1.20E-05	1.20E-05
FARM_A	Tank Farm A	n-Propyl Acetate	109604	1.81E-06	1.81E-06
FARM_A	Tank Farm A	Petroleum Oil Products	8002059	2.73E-07	2.73E-07
FARM_A	Tank Farm A	Phenol	108952	2.06E-08	2.06E-08
FARM_A	Tank Farm A	Phenylmercuric acetate	62384	3.16E-17	3.16E-17
FARM_A	Tank Farm A	Phosphoric Acid	7664382	1.54E-09	1.54E-09
FARM_A	Tank Farm A	Polydimethyl Siloxane	63148629	2.87E-09	2.87E-09
FARM_A	Tank Farm A	Propylene Glycol Methyl Ether Acetate	108656	6.37E-06	6.37E-06
FARM_A	Tank Farm A	Propylene Oxide	75569	4.11E-06	4.11E-06
FARM_A	Tank Farm A	Pyridine	110861	3.75E-07	3.75E-07
FARM_A	Tank Farm A	Stoddard Solvent	8052413	2.80E-04	2.80E-04
FARM_A	Tank Farm A	Styrene	100425	1.08E-06	1.08E-06
FARM_A	Tank Farm A	Sulfolane	126330	8.24E-07	8.24E-07
FARM_A	Tank Farm A	Sulfuric Acid	7664939	4.71E-12	4.71E-12
FARM_A	Tank Farm A	Tetrachloroethylene	127184	3.21E-05	3.21E-05
FARM_A	Tank Farm A	Tetraethyl Orthosilicate	78104	4.39E-07	4.39E-07
FARM_A	Tank Farm A	Tetrahydrofuran	109999	3.44E-05	3.44E-05
FARM_A	Tank Farm A	Toluene	108883	2.86E-04	2.86E-04
FARM_A	Tank Farm A	Trichloroethylene	79016	1.47E-04	1.47E-04
FARM_A	Tank Farm A	Triethylenetetramine	112243	8.70E-11	8.70E-11
FARM_A	Tank Farm A	Xylenes	1330207	4.41E-05	4.41E-05
FARM_B	Tank Farm B	1,1,1-Trichloroethane	71556	1.40E-05	1.40E-05
FARM_B	Tank Farm B	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	1.55E-05	1.55E-05
FARM_B	Tank Farm B	1,1,2-Trichloroethane	79005	1.83E-10	1.83E-10
FARM_B	Tank Farm B	1,2,4-Trimethylbenzene	95636	2.84E-07	2.84E-07
FARM_B	Tank Farm B	1,2-Dichlorobenzene	95501	1.83E-09	1.83E-09
FARM_B	Tank Farm B	1,3,5-Trimethylbenzene	108678	5.69E-09	5.69E-09
FARM_B	Tank Farm B	1,4-Dioxane	123911	8.43E-08	8.43E-08
FARM_B	Tank Farm B	1-Methoxy-2-Propanol	107982	2.97E-05	2.97E-05
FARM_B	Tank Farm B	2-Butoxyethanol acetate	112072	1.55E-10	1.55E-10
FARM_B	Tank Farm B	2-Ethoxyethyl acetate	111159	4.47E-07	4.47E-07
FARM_B	Tank Farm B	2-Ethoxypropanol	19089475	6.16E-06	6.16E-06
FARM_B	Tank Farm B	2-Heptanone	110430	8.88E-08	8.88E-08
FARM_B	Tank Farm B	2-Methoxyethanol	109864	2.13E-07	2.13E-07
FARM_B	Tank Farm B	2-Methyl-1-Propanol	78831	1.50E-06	1.50E-06
FARM_B	Tank Farm B	2-Ppentanone	107879	1.27E-05	1.27E-05
FARM_B	Tank Farm B	2-Pyrrolidone	616455	3.23E-08	3.23E-08
FARM_B	Tank Farm B	4-Hydroxy-4-Methyl-2-Pentanone	123422	6.56E-11	6.56E-11
FARM_B	Tank Farm B	Acetic acid	64197	7.60E-06	7.60E-06
FARM_B	Tank Farm B	Acetone	67641	4.80E-03	4.80E-03
FARM_B	Tank Farm B	Acetonitrile	75058	7.34E-05	7.34E-05
FARM_B	Tank Farm B	Alcohols	67630	7.00E-04	7.00E-04
FARM_B	Tank Farm B	Amyl Acetate	628637	1.88E-07	1.88E-07
FARM_B	Tank Farm B	Benzene	71432	3.09E-05	3.09E-05
FARM_B	Tank Farm B	Biocide (as Acrolein)	107028	1.66E-07	1.66E-07
FARM_B	Tank Farm B	Brominated Bisphenol	79947	1.59E-18	1.59E-18
FARM_B	Tank Farm B	Butyl Acetate	123864	4.99E-05	4.99E-05
FARM_B	Tank Farm B	Carbon Tetrachloride	56235	2.72E-09	2.72E-09
FARM_B	Tank Farm B	Chlorobenzene	108907	2.37E-08	2.37E-08
FARM_B	Tank Farm B	Chloroform	67663	9.90E-06	9.90E-06
FARM_B	Tank Farm B	Cresol	1319773	6.66E-10	6.66E-10
FARM_B	Tank Farm B	Cyclohexane	110827	2.50E-04	2.50E-04

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FARM_B	Tank Farm B	Cyclohexanone	108941	2.52E-06	2.52E-06
FARM_B	Tank Farm B	Dibutyl Phthalate	84742	3.71E-16	3.71E-16
FARM_B	Tank Farm B	Diesel Fuel	68476346	1.01E-05	1.01E-05
FARM_B	Tank Farm B	Diethylene Glycol	111466	1.57E-08	1.57E-08
FARM_B	Tank Farm B	Diethylene Glycol Butyl Ether	112345	7.21E-09	7.21E-09
FARM_B	Tank Farm B	Diethylenetriamine	111400	2.06E-09	2.06E-09
FARM_B	Tank Farm B	Dimethylformamide	68122	4.89E-07	4.89E-07
FARM_B	Tank Farm B	Ethanol	64175	1.36E-04	1.36E-04
FARM_B	Tank Farm B	Ethyl Acetate	141786	5.19E-05	5.19E-05
FARM_B	Tank Farm B	Ethyl Benzene	100414	1.92E-06	1.92E-06
FARM_B	Tank Farm B	Ethyl Lactate	687478	1.72E-05	1.72E-05
FARM_B	Tank Farm B	Ethyl-3-Ethoxypropionate	763699	1.34E-07	1.34E-07
FARM_B	Tank Farm B	Ethylene Glycol	107211	4.20E-06	4.20E-06
FARM_B	Tank Farm B	Ferric Chloride	7705080	5.78E-07	5.78E-07
FARM_B	Tank Farm B	Formic Acid	64186	1.91E-10	1.91E-10
FARM_B	Tank Farm B	Gasoline	8006619	7.43E-03	7.43E-03
FARM_B	Tank Farm B	Glycerin	56815	4.61E-15	4.61E-15
FARM_B	Tank Farm B	Heptane	142825	5.21E-06	5.21E-06
FARM_B	Tank Farm B	Hexamethyldisilazane	999973	1.81E-06	1.81E-06
FARM_B	Tank Farm B	Hexane	110543	1.28E-05	1.28E-05
FARM_B	Tank Farm B	Hydrochloric Acid	7647010	4.51E-09	4.51E-09
FARM_B	Tank Farm B	Hydrofluoric Acid	7664393	3.24E-06	3.24E-06
FARM_B	Tank Farm B	isobutyl acetate	110190	4.69E-08	4.69E-08
FARM_B	Tank Farm B	Isobutyl Isobutyrate	97858	4.02E-11	4.02E-11
FARM_B	Tank Farm B	Isoparaffinic Hydrocarbons	64771728	1.03E-05	1.03E-05
FARM_B	Tank Farm B	Isopropanolamine	78966	3.80E-08	3.80E-08
FARM_B	Tank Farm B	Isopropyl Acetate	108214	4.29E-06	4.29E-06
FARM_B	Tank Farm B	Jet Fuel/Kerosene	8008206	1.44E-05	1.44E-05
FARM_B	Tank Farm B	Methanol	67561	4.49E-04	4.49E-04
FARM_B	Tank Farm B	Methyl Ethyl Ketone	78933	7.88E-04	7.88E-04
FARM_B	Tank Farm B	Methyl Isobutyl Ketone	108101	4.64E-06	4.64E-06
FARM_B	Tank Farm B	Methylene Chloride	75092	1.43E-03	1.43E-03
FARM_B	Tank Farm B	Mineral Oil	8012951	5.07E-06	5.07E-06
FARM_B	Tank Farm B	Naphtha	8030306	9.98E-04	9.98E-04
FARM_B	Tank Farm B	Naphthalene	91203	5.44E-09	5.44E-09
FARM_B	Tank Farm B	n-Butanol	71363	1.43E-05	1.43E-05
FARM_B	Tank Farm B	n-Butyl Cellosolve	111762	1.74E-06	1.74E-06
FARM_B	Tank Farm B	Nitric Acid	7697372	1.32E-08	1.32E-08
FARM_B	Tank Farm B	n-Methyl-2-Pyrrolidone	872504	3.71E-05	3.71E-05
FARM_B	Tank Farm B	n-Propyl Acetate	109604	4.31E-06	4.31E-06
FARM_B	Tank Farm B	Petroleum Oil Products	8002059	9.01E-07	9.01E-07
FARM_B	Tank Farm B	Phenol	108952	1.22E-07	1.22E-07
FARM_B	Tank Farm B	Phenylmercuric acetate	62384	2.06E-16	2.06E-16
FARM_B	Tank Farm B	Phosphoric Acid	7664382	1.00E-08	1.00E-08
FARM_B	Tank Farm B	Polydimethyl Siloxane	63148629	5.71E-10	5.71E-10
FARM_B	Tank Farm B	Propylene Glycol Methyl Ether Acetate	108656	3.37E-06	3.37E-06
FARM_B	Tank Farm B	Propylene Oxide	75569	6.32E-07	6.32E-07
FARM_B	Tank Farm B	Pyridine	110861	2.92E-07	2.92E-07
FARM_B	Tank Farm B	Stoddard Solvent	8052413	8.82E-04	8.82E-04
FARM_B	Tank Farm B	Styrene	100425	2.07E-06	2.07E-06
FARM_B	Tank Farm B	Sulfolane	126330	1.12E-06	1.12E-06
FARM_B	Tank Farm B	Sulfuric Acid	7664939	1.89E-11	1.89E-11
FARM_B	Tank Farm B	Tetrachloroethylene	127184	4.91E-05	4.91E-05
FARM_B	Tank Farm B	Tetraethyl Orthosilicate	78104	4.40E-07	4.40E-07
FARM_B	Tank Farm B	Tetrahydrofuran	109999	6.27E-06	6.27E-06
FARM_B	Tank Farm B	Toluene	108883	5.56E-04	5.56E-04
FARM_B	Tank Farm B	Trichloroethylene	79016	4.30E-05	4.30E-05
FARM_B	Tank Farm B	Triethylenetetramine	112243	1.51E-11	1.51E-11
FARM_B	Tank Farm B	Xylenes	1330207	7.79E-05	7.79E-05
FARM_C1	Tank Farm C1	1,1,1-Trichloroethane	71556	4.98E-06	4.98E-06
FARM_C1	Tank Farm C1	1,2,4-Trimethylbenzene	95636	2.22E-07	2.22E-07
FARM_C1	Tank Farm C1	1,2-Dichlorobenzene	95501	1.40E-09	1.40E-09
FARM_C1	Tank Farm C1	1-Methoxy-2-Propanol	107982	2.49E-06	2.49E-06
FARM_C1	Tank Farm C1	2-Heptanone	110430	3.68E-08	3.68E-08
FARM_C1	Tank Farm C1	2-Methoxyethanol	109864	4.40E-08	4.40E-08
FARM_C1	Tank Farm C1	2-Methyl-1-Propanol	78831	1.17E-06	1.17E-06

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FARM_C1	Tank Farm C1	2-Pyrrolidone	616455	2.52E-08	2.52E-08
FARM_C1	Tank Farm C1	Acetic acid	64197	5.86E-06	5.86E-06
FARM_C1	Tank Farm C1	Acetone	67641	7.45E-04	7.45E-04
FARM_C1	Tank Farm C1	Acetonitrile	75058	3.91E-05	3.91E-05
FARM_C1	Tank Farm C1	Alcohols	67630	2.08E-04	2.08E-04
FARM_C1	Tank Farm C1	Benzene	71432	2.02E-05	2.02E-05
FARM_C1	Tank Farm C1	Biocide (as Acrolein)	107028	1.29E-07	1.29E-07
FARM_C1	Tank Farm C1	Butyl Acetate	123864	5.87E-06	5.87E-06
FARM_C1	Tank Farm C1	Chlorobenzene	108907	1.69E-08	1.69E-08
FARM_C1	Tank Farm C1	Chloroform	67663	6.08E-06	6.08E-06
FARM_C1	Tank Farm C1	Cresol	1319773	4.86E-10	4.86E-10
FARM_C1	Tank Farm C1	Cyclohexane	110827	1.94E-04	1.94E-04
FARM_C1	Tank Farm C1	Cyclohexanone	108941	1.53E-06	1.53E-06
FARM_C1	Tank Farm C1	Diesel Fuel	68476346	7.73E-06	7.73E-06
FARM_C1	Tank Farm C1	Diethylene Glycol	111466	9.93E-09	9.93E-09
FARM_C1	Tank Farm C1	Diethylene Glycol Butyl Ether	112345	4.77E-09	4.77E-09
FARM_C1	Tank Farm C1	Diethylenetriamine	111400	1.60E-09	1.60E-09
FARM_C1	Tank Farm C1	Dimethylformamide	68122	1.12E-07	1.12E-07
FARM_C1	Tank Farm C1	Ethanol	64175	8.87E-05	8.87E-05
FARM_C1	Tank Farm C1	Ethyl Acetate	141786	3.08E-05	3.08E-05
FARM_C1	Tank Farm C1	Ethyl Benzene	100414	1.33E-06	1.33E-06
FARM_C1	Tank Farm C1	Ethyl Lactate	687478	1.27E-06	1.27E-06
FARM_C1	Tank Farm C1	Ethylene Glycol	107211	1.79E-05	1.79E-05
FARM_C1	Tank Farm C1	Ferric Chloride	7705080	4.44E-07	4.44E-07
FARM_C1	Tank Farm C1	Gasoline	8006619	5.72E-03	5.72E-03
FARM_C1	Tank Farm C1	Glycerin	56815	3.47E-15	3.47E-15
FARM_C1	Tank Farm C1	Heptane	142825	3.23E-06	3.23E-06
FARM_C1	Tank Farm C1	Hexane	110543	5.19E-06	5.19E-06
FARM_C1	Tank Farm C1	Hydrochloric Acid	7647010	3.51E-09	3.51E-09
FARM_C1	Tank Farm C1	Hydrofluoric Acid	7664393	2.43E-06	2.43E-06
FARM_C1	Tank Farm C1	Isoparaffinic Hydrocarbons	64771728	6.08E-06	6.08E-06
FARM_C1	Tank Farm C1	Isopropyl Acetate	108214	3.33E-06	3.33E-06
FARM_C1	Tank Farm C1	Jet Fuel/Kerosene	8008206	1.11E-05	1.11E-05
FARM_C1	Tank Farm C1	Methanol	67561	8.89E-05	8.89E-05
FARM_C1	Tank Farm C1	Methyl Ethyl Ketone	78933	4.28E-05	4.28E-05
FARM_C1	Tank Farm C1	Methyl Isobutyl Ketone	108101	1.27E-06	1.27E-06
FARM_C1	Tank Farm C1	Methylene Chloride	75092	9.71E-04	9.71E-04
FARM_C1	Tank Farm C1	Naphtha	8030306	2.93E-04	2.93E-04
FARM_C1	Tank Farm C1	Naphthalene	91203	4.08E-09	4.08E-09
FARM_C1	Tank Farm C1	n-Butanol	71363	2.38E-07	2.38E-07
FARM_C1	Tank Farm C1	n-Butyl Cellosolve	111762	4.48E-09	4.48E-09
FARM_C1	Tank Farm C1	Nitric Acid	7697372	1.01E-08	1.01E-08
FARM_C1	Tank Farm C1	n-Methyl-2-Pyrrolidone	872504	2.10E-05	2.10E-05
FARM_C1	Tank Farm C1	n-Propyl Acetate	109604	2.54E-06	2.54E-06
FARM_C1	Tank Farm C1	Petroleum Oil Products	8002059	6.84E-07	6.84E-07
FARM_C1	Tank Farm C1	Phenol	108952	9.47E-08	9.47E-08
FARM_C1	Tank Farm C1	Phenylmercuric acetate	62384	1.61E-16	1.61E-16
FARM_C1	Tank Farm C1	Phosphoric Acid	7664382	7.81E-09	7.81E-09
FARM_C1	Tank Farm C1	Polydimethyl Siloxane	63148629	1.03E-10	1.03E-10
FARM_C1	Tank Farm C1	Propylene Glycol Methyl Ether Acetate	108656	1.37E-06	1.37E-06
FARM_C1	Tank Farm C1	Pyridine	110861	1.87E-07	1.87E-07
FARM_C1	Tank Farm C1	Stoddard Solvent	8052413	5.88E-03	5.88E-03
FARM_C1	Tank Farm C1	Styrene	100425	1.52E-06	1.52E-06
FARM_C1	Tank Farm C1	Sulfolane	126330	7.91E-07	7.91E-07
FARM_C1	Tank Farm C1	Sulfuric Acid	7664939	1.45E-11	1.45E-11
FARM_C1	Tank Farm C1	Tetrachloroethylene	127184	2.67E-05	2.67E-05
FARM_C1	Tank Farm C1	Tetraethyl Orthosilicate	78104	2.97E-07	2.97E-07
FARM_C1	Tank Farm C1	Tetrahydrofuran	109999	2.57E-07	2.57E-07
FARM_C1	Tank Farm C1	Toluene	108883	1.22E-05	1.22E-05
FARM_C1	Tank Farm C1	Trichloroethylene	79016	6.93E-06	6.93E-06
FARM_C1	Tank Farm C1	Xylenes	1330207	6.16E-06	6.16E-06
FARM_C3	Tank Farm C3	1,1,1-Trichloroethane	71556	1.01E-05	1.01E-05
FARM_C3	Tank Farm C3	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	2.35E-05	2.35E-05
FARM_C3	Tank Farm C3	1,2,4-Trimethylbenzene	95636	1.06E-07	1.06E-07
FARM_C3	Tank Farm C3	1,2-Dichlorobenzene	95501	6.66E-10	6.66E-10
FARM_C3	Tank Farm C3	1-Methoxy-2-Propanol	107982	4.11E-06	4.11E-06

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FARM_C3	Tank Farm C3	2-Butoxyethanol acetate	112072	1.96E-10	1.96E-10
FARM_C3	Tank Farm C3	2-Ethoxyethyl acetate	111159	6.79E-07	6.79E-07
FARM_C3	Tank Farm C3	2-Ethoxypropanol	19089475	9.64E-06	9.64E-06
FARM_C3	Tank Farm C3	2-Heptanone	110430	9.01E-08	9.01E-08
FARM_C3	Tank Farm C3	2-Methoxyethanol	109864	2.10E-08	2.10E-08
FARM_C3	Tank Farm C3	2-Methyl-1-Propanol	78831	5.58E-07	5.58E-07
FARM_C3	Tank Farm C3	2-Ppentanone	107879	4.71E-06	4.71E-06
FARM_C3	Tank Farm C3	2-Pyrrolidone	616455	1.20E-08	1.20E-08
FARM_C3	Tank Farm C3	Acetic acid	64197	2.80E-06	2.80E-06
FARM_C3	Tank Farm C3	Acetone	67641	7.50E-04	7.50E-04
FARM_C3	Tank Farm C3	Acetonitrile	75058	1.95E-05	1.95E-05
FARM_C3	Tank Farm C3	Alcohols	67630	2.06E-04	2.06E-04
FARM_C3	Tank Farm C3	Benzene	71432	9.65E-06	9.65E-06
FARM_C3	Tank Farm C3	Biocide (as Acrolein)	107028	6.17E-08	6.17E-08
FARM_C3	Tank Farm C3	Butyl Acetate	123864	2.95E-06	2.95E-06
FARM_C3	Tank Farm C3	Chlorobenzene	108907	8.09E-09	8.09E-09
FARM_C3	Tank Farm C3	Chloroform	67663	3.55E-06	3.55E-06
FARM_C3	Tank Farm C3	Cresol	1319773	2.32E-10	2.32E-10
FARM_C3	Tank Farm C3	Cyclohexane	110827	9.29E-05	9.29E-05
FARM_C3	Tank Farm C3	Cyclohexanone	108941	1.49E-06	1.49E-06
FARM_C3	Tank Farm C3	Dibutyl Phthalate	84742	7.81E-16	7.81E-16
FARM_C3	Tank Farm C3	Diesel Fuel	68476346	3.69E-06	3.69E-06
FARM_C3	Tank Farm C3	Diethylene Glycol	111466	8.01E-08	8.01E-08
FARM_C3	Tank Farm C3	Diethylene Glycol Butyl Ether	112345	4.94E-09	4.94E-09
FARM_C3	Tank Farm C3	Diethylenetriamine	111400	7.66E-10	7.66E-10
FARM_C3	Tank Farm C3	Dimethylformamide	68122	1.48E-07	1.48E-07
FARM_C3	Tank Farm C3	Ethanol	64175	4.46E-05	4.46E-05
FARM_C3	Tank Farm C3	Ethyl Acetate	141786	1.97E-05	1.97E-05
FARM_C3	Tank Farm C3	Ethyl Benzene	100414	6.99E-07	6.99E-07
FARM_C3	Tank Farm C3	Ethyl Lactate	687478	1.98E-05	1.98E-05
FARM_C3	Tank Farm C3	Ethyl-3-Ethoxypropionate	763699	2.03E-07	2.03E-07
FARM_C3	Tank Farm C3	Ethylene Glycol	107211	1.27E-05	1.27E-05
FARM_C3	Tank Farm C3	Ferric Chloride	7705080	2.12E-07	2.12E-07
FARM_C3	Tank Farm C3	Gasoline	8006619	2.73E-03	2.73E-03
FARM_C3	Tank Farm C3	Glycerin	56815	1.66E-15	1.66E-15
FARM_C3	Tank Farm C3	Heptane	142825	1.83E-06	1.83E-06
FARM_C3	Tank Farm C3	Hexamethyldisilazane	999973	2.81E-06	2.81E-06
FARM_C3	Tank Farm C3	Hexane	110543	3.89E-06	3.89E-06
FARM_C3	Tank Farm C3	Hydrochloric Acid	7647010	1.67E-09	1.67E-09
FARM_C3	Tank Farm C3	Hydrofluoric Acid	7664393	1.35E-06	1.35E-06
FARM_C3	Tank Farm C3	Isoparaffinic Hydrocarbons	64771728	2.91E-06	2.91E-06
FARM_C3	Tank Farm C3	Isopropanolamine	78966	5.95E-08	5.95E-08
FARM_C3	Tank Farm C3	Isopropyl Acetate	108214	1.61E-06	1.61E-06
FARM_C3	Tank Farm C3	Jet Fuel/Kerosene	8008206	5.30E-06	5.30E-06
FARM_C3	Tank Farm C3	Methanol	67561	4.99E-05	4.99E-05
FARM_C3	Tank Farm C3	Methyl Ethyl Ketone	78933	6.91E-05	6.91E-05
FARM_C3	Tank Farm C3	Methyl Isobutyl Ketone	108101	9.68E-07	9.68E-07
FARM_C3	Tank Farm C3	Methylene Chloride	75092	6.17E-04	6.17E-04
FARM_C3	Tank Farm C3	Naphtha	8030306	3.16E-04	3.16E-04
FARM_C3	Tank Farm C3	Naphthalene	91203	1.95E-09	1.95E-09
FARM_C3	Tank Farm C3	n-Butanol	71363	4.34E-07	4.34E-07
FARM_C3	Tank Farm C3	n-Butyl Cellosolve	111762	4.12E-09	4.12E-09
FARM_C3	Tank Farm C3	Nitric Acid	7697372	4.85E-09	4.85E-09
FARM_C3	Tank Farm C3	n-Methyl-2-Pyrrolidone	872504	3.76E-05	3.76E-05
FARM_C3	Tank Farm C3	n-Propyl Acetate	109604	2.89E-06	2.89E-06
FARM_C3	Tank Farm C3	Petroleum Oil Products	8002059	3.32E-07	3.32E-07
FARM_C3	Tank Farm C3	Phenol	108952	4.54E-08	4.54E-08
FARM_C3	Tank Farm C3	Phenylmercuric acetate	62384	7.67E-17	7.67E-17
FARM_C3	Tank Farm C3	Phosphoric Acid	7664382	3.74E-09	3.74E-09
FARM_C3	Tank Farm C3	Polydimethyl Siloxane	63148629	4.94E-11	4.94E-11
FARM_C3	Tank Farm C3	Propylene Glycol Methyl Ether Acetate	108656	1.74E-06	1.74E-06
FARM_C3	Tank Farm C3	Pyridine	110861	8.93E-08	8.93E-08
FARM_C3	Tank Farm C3	Stoddard Solvent	8052413	4.55E-04	4.55E-04
FARM_C3	Tank Farm C3	Styrene	100425	7.27E-07	7.27E-07
FARM_C3	Tank Farm C3	Sulfolane	126330	3.82E-07	3.82E-07
FARM_C3	Tank Farm C3	Sulfuric Acid	7664939	6.92E-12	6.92E-12

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FARM_C3	Tank Farm C3	Tetrachloroethylene	127184	3.42E-05	3.42E-05
FARM_C3	Tank Farm C3	Tetraethyl Orthosilicate	78104	1.43E-07	1.43E-07
FARM_C3	Tank Farm C3	Tetrahydrofuran	109999	1.38E-06	1.38E-06
FARM_C3	Tank Farm C3	Toluene	108883	1.29E-05	1.29E-05
FARM_C3	Tank Farm C3	Trichloroethylene	79016	2.63E-05	2.63E-05
FARM_C3	Tank Farm C3	Triethylenetetramine	112243	2.80E-12	2.80E-12
FARM_C3	Tank Farm C3	Xylenes	1330207	1.54E-05	1.54E-05
FARM_D1	Tank Farm D1	1,1,1-Trichloroethane	71556	1.58E-04	1.58E-04
FARM_D1	Tank Farm D1	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	2.21E-05	2.21E-05
FARM_D1	Tank Farm D1	1,1,2-Trichloroethane	79005	8.35E-09	8.35E-09
FARM_D1	Tank Farm D1	1,2,4-Trimethylbenzene	95636	8.69E-10	8.69E-10
FARM_D1	Tank Farm D1	1,2-Dichlorobenzene	95501	1.82E-09	1.82E-09
FARM_D1	Tank Farm D1	1,3,5-Trimethylbenzene	108678	2.60E-07	2.60E-07
FARM_D1	Tank Farm D1	1,4-Dioxane	123911	3.85E-06	3.85E-06
FARM_D1	Tank Farm D1	1-Methoxy-2-Propanol	107982	1.14E-03	1.14E-03
FARM_D1	Tank Farm D1	2-Butoxyethanol acetate	112072	1.36E-09	1.36E-09
FARM_D1	Tank Farm D1	2-Ethoxyethyl acetate	111159	5.82E-07	5.82E-07
FARM_D1	Tank Farm D1	2-Heptanone	110430	2.77E-07	2.77E-07
FARM_D1	Tank Farm D1	2-Methoxyethanol	109864	7.14E-06	7.14E-06
FARM_D1	Tank Farm D1	2-Methyl-1-Propanol	78831	3.71E-09	3.71E-09
FARM_D1	Tank Farm D1	2-Ppentanone	107879	4.66E-04	4.66E-04
FARM_D1	Tank Farm D1	4-Hydroxy-4-Methyl-2-Pentanone	123422	3.00E-09	3.00E-09
FARM_D1	Tank Farm D1	Acetic acid	64197	4.00E-06	4.00E-06
FARM_D1	Tank Farm D1	Acetone	67641	1.11E-02	1.11E-02
FARM_D1	Tank Farm D1	Acetonitrile	75058	1.05E-03	1.05E-03
FARM_D1	Tank Farm D1	Alcohols	67630	2.47E-03	2.47E-03
FARM_D1	Tank Farm D1	Amyl Acetate	628637	8.59E-06	8.59E-06
FARM_D1	Tank Farm D1	Benzene	71432	2.28E-04	2.28E-04
FARM_D1	Tank Farm D1	Brominated Bisphenol	79947	7.26E-17	7.26E-17
FARM_D1	Tank Farm D1	Butyl Acetate	123864	3.73E-05	3.73E-05
FARM_D1	Tank Farm D1	Carbon Tetrachloride	56235	1.24E-07	1.24E-07
FARM_D1	Tank Farm D1	Chlorobenzene	108907	9.21E-08	9.21E-08
FARM_D1	Tank Farm D1	Chloroform	67663	8.03E-05	8.03E-05
FARM_D1	Tank Farm D1	Cresol	1319773	1.92E-09	1.92E-09
FARM_D1	Tank Farm D1	Cyclohexane	110827	5.33E-05	5.33E-05
FARM_D1	Tank Farm D1	Cyclohexanone	108941	7.59E-06	7.59E-06
FARM_D1	Tank Farm D1	Dibutyl Phthalate	84742	6.36E-15	6.36E-15
FARM_D1	Tank Farm D1	Diesel Fuel	68476346	7.52E-06	7.52E-06
FARM_D1	Tank Farm D1	Diethylene Glycol	111466	7.91E-11	7.91E-11
FARM_D1	Tank Farm D1	Diethylene Glycol Butyl Ether	112345	9.07E-10	9.07E-10
FARM_D1	Tank Farm D1	Dimethylformamide	68122	1.36E-05	1.36E-05
FARM_D1	Tank Farm D1	Ethanol	64175	9.52E-04	9.52E-04
FARM_D1	Tank Farm D1	Ethyl Acetate	141786	4.45E-04	4.45E-04
FARM_D1	Tank Farm D1	Ethyl Benzene	100414	8.17E-06	8.17E-06
FARM_D1	Tank Farm D1	Ethyl Lactate	687478	1.53E-04	1.53E-04
FARM_D1	Tank Farm D1	Ethyl-3-Ethoxypropionate	763699	2.07E-07	2.07E-07
FARM_D1	Tank Farm D1	Ethylene Glycol	107211	3.23E-07	3.23E-07
FARM_D1	Tank Farm D1	Ferric Chloride	7705080	3.90E-07	3.90E-07
FARM_D1	Tank Farm D1	Formic Acid	64186	8.71E-09	8.71E-09
FARM_D1	Tank Farm D1	Gasoline	8006619	4.29E-03	4.29E-03
FARM_D1	Tank Farm D1	Glycerin	56815	7.45E-15	7.45E-15
FARM_D1	Tank Farm D1	Heptane	142825	4.18E-05	4.18E-05
FARM_D1	Tank Farm D1	Hexamethyldisilazane	999973	8.23E-07	8.23E-07
FARM_D1	Tank Farm D1	Hexane	110543	2.45E-04	2.45E-04
FARM_D1	Tank Farm D1	Hydrochloric Acid	7647010	7.73E-10	7.73E-10
FARM_D1	Tank Farm D1	Hydrofluoric Acid	7664393	4.67E-07	4.67E-07
FARM_D1	Tank Farm D1	isobutyl acetate	110190	2.14E-06	2.14E-06
FARM_D1	Tank Farm D1	Isobutyl Isobutyrate	97858	1.84E-09	1.84E-09
FARM_D1	Tank Farm D1	Isoparaffinic Hydrocarbons	64771728	1.15E-04	1.15E-04
FARM_D1	Tank Farm D1	Isopropyl Acetate	108214	6.63E-07	6.63E-07
FARM_D1	Tank Farm D1	Jet Fuel/Kerosene	8008206	8.73E-06	8.73E-06
FARM_D1	Tank Farm D1	Methanol	67561	2.68E-03	2.68E-03
FARM_D1	Tank Farm D1	Methyl Ethyl Ketone	78933	2.27E-03	2.27E-03
FARM_D1	Tank Farm D1	Methyl Isobutyl Ketone	108101	1.29E-04	1.29E-04
FARM_D1	Tank Farm D1	Methylene Chloride	75092	4.72E-03	4.72E-03
FARM_D1	Tank Farm D1	Mineral Oil	8012951	2.31E-04	2.31E-04

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FARM_D1	Tank Farm D1	Naphtha	8030306	2.69E-03	2.69E-03
FARM_D1	Tank Farm D1	Naphthalene	91203	9.72E-09	9.72E-09
FARM_D1	Tank Farm D1	n-Butanol	71363	3.03E-05	3.03E-05
FARM_D1	Tank Farm D1	n-Butyl Cellosolve	111762	1.06E-07	1.06E-07
FARM_D1	Tank Farm D1	Nitric Acid	7697372	8.98E-09	8.98E-09
FARM_D1	Tank Farm D1	n-Methyl-2-Pyrrolidone	872504	3.51E-05	3.51E-05
FARM_D1	Tank Farm D1	n-Propyl Acetate	109604	8.01E-06	8.01E-06
FARM_D1	Tank Farm D1	Petroleum Oil Products	8002059	9.64E-07	9.64E-07
FARM_D1	Tank Farm D1	Phenol	108952	1.37E-08	1.37E-08
FARM_D1	Tank Farm D1	Polydimethyl Siloxane	63148629	2.00E-08	2.00E-08
FARM_D1	Tank Farm D1	Propylene Glycol Methyl Ether Acetate	108656	4.19E-05	4.19E-05
FARM_D1	Tank Farm D1	Propylene Oxide	75569	2.89E-05	2.89E-05
FARM_D1	Tank Farm D1	Pyridine	110861	2.38E-06	2.38E-06
FARM_D1	Tank Farm D1	Stoddard Solvent	8052413	1.43E-03	1.43E-03
FARM_D1	Tank Farm D1	Styrene	100425	5.51E-06	5.51E-06
FARM_D1	Tank Farm D1	Sulfolane	126330	4.69E-06	4.69E-06
FARM_D1	Tank Farm D1	Sulfuric Acid	7664939	1.31E-11	1.31E-11
FARM_D1	Tank Farm D1	Tetrachloroethylene	127184	1.73E-04	1.73E-04
FARM_D1	Tank Farm D1	Tetraethyl Orthosilicate	78104	2.67E-06	2.67E-06
FARM_D1	Tank Farm D1	Tetrahydrofuran	109999	2.40E-04	2.40E-04
FARM_D1	Tank Farm D1	Toluene	108883	8.93E-04	8.93E-04
FARM_D1	Tank Farm D1	Trichloroethylene	79016	1.00E-03	1.00E-03
FARM_D1	Tank Farm D1	Triethylenetetramine	112243	6.08E-10	6.08E-10
FARM_D1	Tank Farm D1	Xylenes	1330207	1.66E-04	1.66E-04
FARM_D3	Tank Farm D3	1,1,1-Trichloroethane	71556	2.98E-08	2.98E-08
FARM_D3	Tank Farm D3	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	1.09E-07	1.09E-07
FARM_D3	Tank Farm D3	1-Methoxy-2-Propanol	107982	1.12E-08	1.12E-08
FARM_D3	Tank Farm D3	2-Butoxyethanol acetate	112072	9.04E-13	9.04E-13
FARM_D3	Tank Farm D3	2-Ethoxyethyl acetate	111159	3.14E-09	3.14E-09
FARM_D3	Tank Farm D3	2-Ethoxypropanol	19089475	4.46E-08	4.46E-08
FARM_D3	Tank Farm D3	2-Heptanone	110430	2.57E-10	2.57E-10
FARM_D3	Tank Farm D3	2-Ppentanone	107879	1.78E-08	1.78E-08
FARM_D3	Tank Farm D3	Acetone	67641	1.55E-06	1.55E-06
FARM_D3	Tank Farm D3	Acetonitrile	75058	3.42E-09	3.42E-09
FARM_D3	Tank Farm D3	Alcohols	67630	3.92E-07	3.92E-07
FARM_D3	Tank Farm D3	Butyl Acetate	123864	5.44E-10	5.44E-10
FARM_D3	Tank Farm D3	Chloroform	67663	2.51E-09	2.51E-09
FARM_D3	Tank Farm D3	Cyclohexanone	108941	2.83E-09	2.83E-09
FARM_D3	Tank Farm D3	Dibutyl Phthalate	84742	1.68E-18	1.68E-18
FARM_D3	Tank Farm D3	Diethylene Glycol	111466	4.03E-11	4.03E-11
FARM_D3	Tank Farm D3	Diethylene Glycol Butyl Ether	112345	7.76E-12	7.76E-12
FARM_D3	Tank Farm D3	Dimethylformamide	68122	3.39E-10	3.39E-10
FARM_D3	Tank Farm D3	Ethanol	64175	8.39E-09	8.39E-09
FARM_D3	Tank Farm D3	Ethyl Acetate	141786	1.91E-08	1.91E-08
FARM_D3	Tank Farm D3	Ethyl Benzene	100414	2.32E-10	2.32E-10
FARM_D3	Tank Farm D3	Ethyl Lactate	687478	8.85E-08	8.85E-08
FARM_D3	Tank Farm D3	Ethyl-3-Ethoxypropionate	763699	9.37E-10	9.37E-10
FARM_D3	Tank Farm D3	Ethylene Glycol	107211	3.86E-05	3.86E-05
FARM_D3	Tank Farm D3	Heptane	142825	1.11E-09	1.11E-09
FARM_D3	Tank Farm D3	Hexamethyldisilazane	999973	1.30E-08	1.30E-08
FARM_D3	Tank Farm D3	Hexane	110543	5.53E-09	5.53E-09
FARM_D3	Tank Farm D3	Hydrofluoric Acid	7664393	8.69E-10	8.69E-10
FARM_D3	Tank Farm D3	Isoparaffinic Hydrocarbons	64771728	2.54E-11	2.54E-11
FARM_D3	Tank Farm D3	Isopropanolamine	78966	2.75E-10	2.75E-10
FARM_D3	Tank Farm D3	Isopropyl Acetate	108214	7.71E-11	7.71E-11
FARM_D3	Tank Farm D3	Methanol	67561	2.79E-08	2.79E-08
FARM_D3	Tank Farm D3	Methyl Ethyl Ketone	78933	1.87E-07	1.87E-07
FARM_D3	Tank Farm D3	Methyl Isobutyl Ketone	108101	1.33E-09	1.33E-09
FARM_D3	Tank Farm D3	Methylene Chloride	75092	6.11E-07	6.11E-07
FARM_D3	Tank Farm D3	Naphtha	8030306	7.08E-07	7.08E-07
FARM_D3	Tank Farm D3	n-Butanol	71363	1.11E-09	1.11E-09
FARM_D3	Tank Farm D3	n-Butyl Cellosolve	111762	6.72E-12	6.72E-12
FARM_D3	Tank Farm D3	n-Methyl-2-Pyrrolidone	872504	7.28E-08	7.28E-08
FARM_D3	Tank Farm D3	n-Propyl Acetate	109604	6.30E-09	6.30E-09
FARM_D3	Tank Farm D3	Petroleum Oil Products	8002059	2.63E-11	2.63E-11
FARM_D3	Tank Farm D3	Phenol	108952	6.64E-13	6.64E-13

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FARM_D3	Tank Farm D3	Phosphoric Acid	7664382	1.59E-14	1.59E-14
FARM_D3	Tank Farm D3	Propylene Glycol Methyl Ether Acetate	108656	5.03E-09	5.03E-09
FARM_D3	Tank Farm D3	Stoddard Solvent	8052413	1.73E-02	1.73E-02
FARM_D3	Tank Farm D3	Sulfolane	126330	1.88E-11	1.88E-11
FARM_D3	Tank Farm D3	Tetrachloroethylene	127184	8.07E-08	8.07E-08
FARM_D3	Tank Farm D3	Tetraethyl Orthosilicate	78104	3.04E-12	3.04E-12
FARM_D3	Tank Farm D3	Tetrahydrofuran	109999	4.90E-09	4.90E-09
FARM_D3	Tank Farm D3	Toluene	108883	2.67E-08	2.67E-08
FARM_D3	Tank Farm D3	Trichloroethylene	79016	8.80E-08	8.80E-08
FARM_D3	Tank Farm D3	Triethylenetetramine	112243	1.30E-14	1.30E-14
FARM_D3	Tank Farm D3	Xylenes	1330207	4.62E-08	4.62E-08
FARM_F	Tank Farm F	1,1,1-Trichloroethane	71556	5.42E-06	5.42E-06
FARM_F	Tank Farm F	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	3.71E-06	3.71E-06
FARM_F	Tank Farm F	1,2,4-Trimethylbenzene	95636	1.96E-07	1.96E-07
FARM_F	Tank Farm F	1,2-Dichlorobenzene	95501	1.24E-09	1.24E-09
FARM_F	Tank Farm F	1-Methoxy-2-Propanol	107982	2.59E-06	2.59E-06
FARM_F	Tank Farm F	2-Butoxyethanol acetate	112072	3.08E-11	3.08E-11
FARM_F	Tank Farm F	2-Ethoxyethyl acetate	111159	1.07E-07	1.07E-07
FARM_F	Tank Farm F	2-Ethoxypropanol	19089475	1.52E-06	1.52E-06
FARM_F	Tank Farm F	2-Heptanone	110430	4.13E-08	4.13E-08
FARM_F	Tank Farm F	2-Methoxyethanol	109864	3.90E-08	3.90E-08
FARM_F	Tank Farm F	2-Methyl-1-Propanol	78831	1.03E-06	1.03E-06
FARM_F	Tank Farm F	2-Ppentanone	107879	6.06E-07	6.06E-07
FARM_F	Tank Farm F	2-Pyrrolidone	616455	2.23E-08	2.23E-08
FARM_F	Tank Farm F	Acetic acid	64197	5.19E-06	5.19E-06
FARM_F	Tank Farm F	Acetone	67641	3.59E-03	3.59E-03
FARM_F	Tank Farm F	Acetonitrile	75058	3.47E-05	3.47E-05
FARM_F	Tank Farm F	Alcohols	67630	4.73E-04	4.73E-04
FARM_F	Tank Farm F	Benzene	71432	1.79E-05	1.79E-05
FARM_F	Tank Farm F	Biocide (as Acrolein)	107028	1.14E-07	1.14E-07
FARM_F	Tank Farm F	Butyl Acetate	123864	4.04E-05	4.04E-05
FARM_F	Tank Farm F	Chlorobenzene	108907	1.50E-08	1.50E-08
FARM_F	Tank Farm F	Chloroform	67663	5.47E-06	5.47E-06
FARM_F	Tank Farm F	Cresol	1319773	4.31E-10	4.31E-10
FARM_F	Tank Farm F	Cyclohexane	110827	1.72E-04	1.72E-04
FARM_F	Tank Farm F	Cyclohexanone	108941	1.45E-06	1.45E-06
FARM_F	Tank Farm F	Dibutyl Phthalate	84742	5.71E-17	5.71E-17
FARM_F	Tank Farm F	Diesel Fuel	68476346	6.84E-06	6.84E-06
FARM_F	Tank Farm F	Diethylene Glycol	111466	6.89E-08	6.89E-08
FARM_F	Tank Farm F	Diethylene Glycol Butyl Ether	112345	4.49E-09	4.49E-09
FARM_F	Tank Farm F	Diethylenetriamine	111400	1.42E-09	1.42E-09
FARM_F	Tank Farm F	Dimethylformamide	68122	1.11E-07	1.11E-07
FARM_F	Tank Farm F	Ethanol	64175	7.89E-05	7.89E-05
FARM_F	Tank Farm F	Ethyl Acetate	141786	2.80E-05	2.80E-05
FARM_F	Tank Farm F	Ethyl Benzene	100414	1.19E-06	1.19E-06
FARM_F	Tank Farm F	Ethyl Lactate	687478	4.14E-06	4.14E-06
FARM_F	Tank Farm F	Ethyl-3-Ethoxypropionate	763699	3.20E-08	3.20E-08
FARM_F	Tank Farm F	Ethylene Glycol	107211	2.60E-05	2.60E-05
FARM_F	Tank Farm F	Ferric Chloride	7705080	3.93E-07	3.93E-07
FARM_F	Tank Farm F	Gasoline	8006619	5.07E-03	5.07E-03
FARM_F	Tank Farm F	Glycerin	56815	3.07E-15	3.07E-15
FARM_F	Tank Farm F	Heptane	142825	2.90E-06	2.90E-06
FARM_F	Tank Farm F	Hexamethyldisilazane	999973	4.43E-07	4.43E-07
FARM_F	Tank Farm F	Hexane	110543	4.78E-06	4.78E-06
FARM_F	Tank Farm F	Hydrochloric Acid	7647010	3.10E-09	3.10E-09
FARM_F	Tank Farm F	Hydrofluoric Acid	7664393	2.18E-06	2.18E-06
FARM_F	Tank Farm F	Isoparaffinic Hydrocarbons	64771728	5.38E-06	5.38E-06
FARM_F	Tank Farm F	Isopropanolamine	78966	9.37E-09	9.37E-09
FARM_F	Tank Farm F	Isopropyl Acetate	108214	2.95E-06	2.95E-06
FARM_F	Tank Farm F	Jet Fuel/Kerosene	8008206	9.83E-06	9.83E-06
FARM_F	Tank Farm F	Methanol	67561	3.10E-04	3.10E-04
FARM_F	Tank Farm F	Methyl Ethyl Ketone	78933	6.01E-04	6.01E-04
FARM_F	Tank Farm F	Methyl Isobutyl Ketone	108101	1.17E-06	1.17E-06
FARM_F	Tank Farm F	Methylene Chloride	75092	8.81E-04	8.81E-04
FARM_F	Tank Farm F	Naphtha	8030306	6.78E-04	6.78E-04
FARM_F	Tank Farm F	Naphthalene	91203	3.61E-09	3.61E-09

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FARM_F	Tank Farm F	n-Butanol	71363	1.14E-05	1.14E-05
FARM_F	Tank Farm F	n-Butyl Cellosolve	111762	1.47E-06	1.47E-06
FARM_F	Tank Farm F	Nitric Acid	7697372	8.99E-09	8.99E-09
FARM_F	Tank Farm F	n-Methyl-2-Pyrrolidone	872504	3.58E-05	3.58E-05
FARM_F	Tank Farm F	n-Propyl Acetate	109604	2.47E-06	2.47E-06
FARM_F	Tank Farm F	Petroleum Oil Products	8002059	6.06E-07	6.06E-07
FARM_F	Tank Farm F	Phenol	108952	8.39E-08	8.39E-08
FARM_F	Tank Farm F	Phenylmercuric acetate	62384	1.42E-16	1.42E-16
FARM_F	Tank Farm F	Phosphoric Acid	7664382	6.92E-09	6.92E-09
FARM_F	Tank Farm F	Polydimethyl Siloxane	63148629	9.16E-11	9.16E-11
FARM_F	Tank Farm F	Propylene Glycol Methyl Ether Acetate	108656	1.38E-06	1.38E-06
FARM_F	Tank Farm F	Pyridine	110861	1.66E-07	1.66E-07
FARM_F	Tank Farm F	Stoddard Solvent	8052413	1.40E-02	1.40E-02
FARM_F	Tank Farm F	Styrene	100425	1.35E-06	1.35E-06
FARM_F	Tank Farm F	Sulfolane	126330	7.01E-07	7.01E-07
FARM_F	Tank Farm F	Sulfuric Acid	7664939	1.28E-11	1.28E-11
FARM_F	Tank Farm F	Tetrachloroethylene	127184	2.64E-05	2.64E-05
FARM_F	Tank Farm F	Tetraethyl Orthosilicate	78104	2.63E-07	2.63E-07
FARM_F	Tank Farm F	Tetrahydrofuran	109999	3.95E-07	3.95E-07
FARM_F	Tank Farm F	Toluene	108883	4.49E-04	4.49E-04
FARM_F	Tank Farm F	Trichloroethylene	79016	9.14E-06	9.14E-06
FARM_F	Tank Farm F	Triethylenetetramine	112243	4.42E-13	4.42E-13
FARM_F	Tank Farm F	Xylenes	1330207	5.78E-05	5.78E-05
FUG_A	Fugitive Emissions from Tank Farm A	1,1,1-Trichloroethane	71556	4.88E-07	4.88E-07
FUG_A	Fugitive Emissions from Tank Farm A	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	1.22E-07	1.22E-07
FUG_A	Fugitive Emissions from Tank Farm A	1,1,2-Trichloroethane	79005	2.39E-11	2.39E-11
FUG_A	Fugitive Emissions from Tank Farm A	1,2,4-Trimethylbenzene	95636	8.78E-10	8.78E-10
FUG_A	Fugitive Emissions from Tank Farm A	1,2-Dichlorobenzene	95501	1.07E-11	1.07E-11
FUG_A	Fugitive Emissions from Tank Farm A	1,3,5-Trimethylbenzene	108678	7.44E-10	7.44E-10
FUG_A	Fugitive Emissions from Tank Farm A	1,4-Dioxane	123911	1.10E-08	1.10E-08
FUG_A	Fugitive Emissions from Tank Farm A	1-Methoxy-2-Propanol	107982	3.28E-06	3.28E-06
FUG_A	Fugitive Emissions from Tank Farm A	2-Butoxyethanol acetate	112072	4.37E-12	4.37E-12
FUG_A	Fugitive Emissions from Tank Farm A	2-Ethoxyethyl acetate	111159	3.35E-09	3.35E-09
FUG_A	Fugitive Emissions from Tank Farm A	2-Ethoxypropanol	19089475	2.39E-08	2.39E-08
FUG_A	Fugitive Emissions from Tank Farm A	2-Heptanone	110430	1.08E-09	1.08E-09
FUG_A	Fugitive Emissions from Tank Farm A	2-Methoxyethanol	109864	2.06E-08	2.06E-08
FUG_A	Fugitive Emissions from Tank Farm A	2-Methyl-1-Propanol	78831	4.63E-09	4.63E-09
FUG_A	Fugitive Emissions from Tank Farm A	2-Ppentanone	107879	1.35E-06	1.35E-06
FUG_A	Fugitive Emissions from Tank Farm A	2-Pyrrolidone	616455	9.96E-11	9.96E-11
FUG_A	Fugitive Emissions from Tank Farm A	4-Hydroxy-4-Methyl-2-Pentanone	123422	8.58E-12	8.58E-12
FUG_A	Fugitive Emissions from Tank Farm A	Acetic acid	64197	3.46E-08	3.46E-08
FUG_A	Fugitive Emissions from Tank Farm A	Acetone	67641	5.62E-05	5.62E-05
FUG_A	Fugitive Emissions from Tank Farm A	Acetonitrile	75058	3.15E-06	3.15E-06
FUG_A	Fugitive Emissions from Tank Farm A	Alcohols	67630	1.01E-05	1.01E-05
FUG_A	Fugitive Emissions from Tank Farm A	Amyl Acetate	628637	2.46E-08	2.46E-08
FUG_A	Fugitive Emissions from Tank Farm A	Benzene	71432	7.32E-07	7.32E-07
FUG_A	Fugitive Emissions from Tank Farm A	Biocide (as Acrolein)	107028	5.10E-10	5.10E-10
FUG_A	Fugitive Emissions from Tank Farm A	Brominated Bisphenol	79947	2.08E-19	2.08E-19
FUG_A	Fugitive Emissions from Tank Farm A	Butyl Acetate	123864	3.81E-07	3.81E-07
FUG_A	Fugitive Emissions from Tank Farm A	Carbon Tetrachloride	56235	3.55E-10	3.55E-10
FUG_A	Fugitive Emissions from Tank Farm A	Chlorobenzene	108907	3.31E-10	3.31E-10
FUG_A	Fugitive Emissions from Tank Farm A	Chloroform	67663	2.55E-07	2.55E-07
FUG_A	Fugitive Emissions from Tank Farm A	Cresol	1319773	7.44E-12	7.44E-12
FUG_A	Fugitive Emissions from Tank Farm A	Cyclohexane	110827	9.21E-07	9.21E-07
FUG_A	Fugitive Emissions from Tank Farm A	Cyclohexanone	108941	2.93E-08	2.93E-08
FUG_A	Fugitive Emissions from Tank Farm A	Dibutyl Phthalate	84742	1.91E-17	1.91E-17
FUG_A	Fugitive Emissions from Tank Farm A	Diesel Fuel	68476346	5.21E-08	5.21E-08
FUG_A	Fugitive Emissions from Tank Farm A	Diethylene Glycol	111466	1.35E-10	1.35E-10
FUG_A	Fugitive Emissions from Tank Farm A	Diethylene Glycol Butyl Ether	112345	2.56E-11	2.56E-11
FUG_A	Fugitive Emissions from Tank Farm A	Diethylenetriamine	111400	6.34E-12	6.34E-12
FUG_A	Fugitive Emissions from Tank Farm A	Dimethylformamide	68122	3.97E-08	3.97E-08
FUG_A	Fugitive Emissions from Tank Farm A	Ethanol	64175	3.08E-06	3.08E-06
FUG_A	Fugitive Emissions from Tank Farm A	Ethyl Acetate	141786	1.41E-06	1.41E-06
FUG_A	Fugitive Emissions from Tank Farm A	Ethyl Benzene	100414	2.88E-08	2.88E-08
FUG_A	Fugitive Emissions from Tank Farm A	Ethyl Lactate	687478	4.91E-07	4.91E-07
FUG_A	Fugitive Emissions from Tank Farm A	Ethyl-3-Ethoxypropionate	763699	1.09E-09	1.09E-09

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_A	Fugitive Emissions from Tank Farm A	Ethylene Glycol	107211	1.26E-07	1.26E-07
FUG_A	Fugitive Emissions from Tank Farm A	Ferric Chloride	7705080	2.87E-09	2.87E-09
FUG_A	Fugitive Emissions from Tank Farm A	Formic Acid	64186	2.49E-11	2.49E-11
FUG_A	Fugitive Emissions from Tank Farm A	Gasoline	8006619	3.49E-05	3.49E-05
FUG_A	Fugitive Emissions from Tank Farm A	Glycerin	56815	3.51E-17	3.51E-17
FUG_A	Fugitive Emissions from Tank Farm A	Heptane	142825	1.33E-07	1.33E-07
FUG_A	Fugitive Emissions from Tank Farm A	Hexamethyldisilazane	999973	9.31E-09	9.31E-09
FUG_A	Fugitive Emissions from Tank Farm A	Hexane	110543	7.26E-07	7.26E-07
FUG_A	Fugitive Emissions from Tank Farm A	Hydrochloric Acid	7647010	1.61E-11	1.61E-11
FUG_A	Fugitive Emissions from Tank Farm A	Hydrofluoric Acid	7664393	1.14E-08	1.14E-08
FUG_A	Fugitive Emissions from Tank Farm A	isobutyl acetate	110190	6.14E-09	6.14E-09
FUG_A	Fugitive Emissions from Tank Farm A	Isobutyl Isobutyrate	97858	5.26E-12	5.26E-12
FUG_A	Fugitive Emissions from Tank Farm A	Isoparaffinic Hydrocarbons	64771728	3.53E-07	3.53E-07
FUG_A	Fugitive Emissions from Tank Farm A	Isopropanolamine	78966	1.47E-10	1.47E-10
FUG_A	Fugitive Emissions from Tank Farm A	Isopropyl Acetate	108214	1.51E-08	1.51E-08
FUG_A	Fugitive Emissions from Tank Farm A	Jet Fuel/Kerosene	8008206	6.89E-08	6.89E-08
FUG_A	Fugitive Emissions from Tank Farm A	Methanol	67561	9.70E-06	9.70E-06
FUG_A	Fugitive Emissions from Tank Farm A	Methyl Ethyl Ketone	78933	1.07E-05	1.07E-05
FUG_A	Fugitive Emissions from Tank Farm A	Methyl Isobutyl Ketone	108101	3.75E-07	3.75E-07
FUG_A	Fugitive Emissions from Tank Farm A	Methylene Chloride	75092	1.77E-05	1.77E-05
FUG_A	Fugitive Emissions from Tank Farm A	Mineral Oil	8012951	6.63E-07	6.63E-07
FUG_A	Fugitive Emissions from Tank Farm A	Naphtha	8030306	1.20E-05	1.20E-05
FUG_A	Fugitive Emissions from Tank Farm A	Naphthalene	91203	4.40E-11	4.40E-11
FUG_A	Fugitive Emissions from Tank Farm A	n-Butanol	71363	1.68E-07	1.68E-07
FUG_A	Fugitive Emissions from Tank Farm A	n-Butyl Cellosolve	111762	1.07E-08	1.07E-08
FUG_A	Fugitive Emissions from Tank Farm A	Nitric Acid	7697372	6.59E-11	6.59E-11
FUG_A	Fugitive Emissions from Tank Farm A	n-Methyl-2-Pyrrolidone	872504	2.41E-07	2.41E-07
FUG_A	Fugitive Emissions from Tank Farm A	n-Propyl Acetate	109604	3.64E-08	3.64E-08
FUG_A	Fugitive Emissions from Tank Farm A	Petroleum Oil Products	8002059	5.48E-09	5.48E-09
FUG_A	Fugitive Emissions from Tank Farm A	Phenol	108952	4.14E-10	4.14E-10
FUG_A	Fugitive Emissions from Tank Farm A	Phenylmercuric acetate	62384	6.35E-19	6.35E-19
FUG_A	Fugitive Emissions from Tank Farm A	Phosphoric Acid	7664382	3.09E-11	3.09E-11
FUG_A	Fugitive Emissions from Tank Farm A	Polydimethyl Siloxane	63148629	5.78E-11	5.78E-11
FUG_A	Fugitive Emissions from Tank Farm A	Propylene Glycol Methyl Ether Acetate	108656	1.28E-07	1.28E-07
FUG_A	Fugitive Emissions from Tank Farm A	Propylene Oxide	75569	8.27E-08	8.27E-08
FUG_A	Fugitive Emissions from Tank Farm A	Pyridine	110861	7.54E-09	7.54E-09
FUG_A	Fugitive Emissions from Tank Farm A	Stoddard Solvent	8052413	5.62E-06	5.62E-06
FUG_A	Fugitive Emissions from Tank Farm A	Styrene	100425	2.18E-08	2.18E-08
FUG_A	Fugitive Emissions from Tank Farm A	Sulfolane	126330	1.66E-08	1.66E-08
FUG_A	Fugitive Emissions from Tank Farm A	Sulfuric Acid	7664939	9.46E-14	9.46E-14
FUG_A	Fugitive Emissions from Tank Farm A	Tetrachloroethylene	127184	6.45E-07	6.45E-07
FUG_A	Fugitive Emissions from Tank Farm A	Tetraethyl Orthosilicate	78104	8.82E-09	8.82E-09
FUG_A	Fugitive Emissions from Tank Farm A	Tetrahydrofuran	109999	6.92E-07	6.92E-07
FUG_A	Fugitive Emissions from Tank Farm A	Toluene	108883	5.74E-06	5.74E-06
FUG_A	Fugitive Emissions from Tank Farm A	Trichloroethylene	79016	2.95E-06	2.95E-06
FUG_A	Fugitive Emissions from Tank Farm A	Triethylenetetramine	112243	1.75E-12	1.75E-12
FUG_A	Fugitive Emissions from Tank Farm A	Xylenes	1330207	8.86E-07	8.86E-07
FUG_B	Fugitive Emissions from Tank Farm B	1,1,1-Trichloroethane	71556	9.88E-08	9.88E-08
FUG_B	Fugitive Emissions from Tank Farm B	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	1.10E-07	1.10E-07
FUG_B	Fugitive Emissions from Tank Farm B	1,1,2-Trichloroethane	79005	1.29E-12	1.29E-12
FUG_B	Fugitive Emissions from Tank Farm B	1,2,4-Trimethylbenzene	95636	2.01E-09	2.01E-09
FUG_B	Fugitive Emissions from Tank Farm B	1,2-Dichlorobenzene	95501	1.29E-11	1.29E-11
FUG_B	Fugitive Emissions from Tank Farm B	1,3,5-Trimethylbenzene	108678	4.03E-11	4.03E-11
FUG_B	Fugitive Emissions from Tank Farm B	1,4-Dioxane	123911	5.97E-10	5.97E-10
FUG_B	Fugitive Emissions from Tank Farm B	1-Methoxy-2-Propanol	107982	2.10E-07	2.10E-07
FUG_B	Fugitive Emissions from Tank Farm B	2-Butoxyethanol acetate	112072	1.09E-12	1.09E-12
FUG_B	Fugitive Emissions from Tank Farm B	2-Ethoxyethyl acetate	111159	3.16E-09	3.16E-09
FUG_B	Fugitive Emissions from Tank Farm B	2-Ethoxypropanol	19089475	4.36E-08	4.36E-08
FUG_B	Fugitive Emissions from Tank Farm B	2-Heptanone	110430	6.28E-10	6.28E-10
FUG_B	Fugitive Emissions from Tank Farm B	2-Methoxyethanol	109864	1.51E-09	1.51E-09
FUG_B	Fugitive Emissions from Tank Farm B	2-Methyl-1-Propanol	78831	1.06E-08	1.06E-08
FUG_B	Fugitive Emissions from Tank Farm B	2-Ppentanone	107879	8.96E-08	8.96E-08
FUG_B	Fugitive Emissions from Tank Farm B	2-Pyrrolidone	616455	2.29E-10	2.29E-10
FUG_B	Fugitive Emissions from Tank Farm B	4-Hydroxy-4-Methyl-2-Pentanone	123422	4.64E-13	4.64E-13
FUG_B	Fugitive Emissions from Tank Farm B	Acetic acid	64197	5.38E-08	5.38E-08
FUG_B	Fugitive Emissions from Tank Farm B	Acetone	67641	3.40E-05	3.40E-05

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_B	Fugitive Emissions from Tank Farm B	Acetonitrile	75058	5.20E-07	5.20E-07
FUG_B	Fugitive Emissions from Tank Farm B	Alcohols	67630	4.95E-06	4.95E-06
FUG_B	Fugitive Emissions from Tank Farm B	Amyl Acetate	628637	1.33E-09	1.33E-09
FUG_B	Fugitive Emissions from Tank Farm B	Benzene	71432	2.19E-07	2.19E-07
FUG_B	Fugitive Emissions from Tank Farm B	Biocide (as Acrolein)	107028	1.17E-09	1.17E-09
FUG_B	Fugitive Emissions from Tank Farm B	Brominated Bisphenol	79947	1.12E-20	1.12E-20
FUG_B	Fugitive Emissions from Tank Farm B	Butyl Acetate	123864	3.53E-07	3.53E-07
FUG_B	Fugitive Emissions from Tank Farm B	Carbon Tetrachloride	56235	1.92E-11	1.92E-11
FUG_B	Fugitive Emissions from Tank Farm B	Chlorobenzene	108907	1.68E-10	1.68E-10
FUG_B	Fugitive Emissions from Tank Farm B	Chloroform	67663	7.01E-08	7.01E-08
FUG_B	Fugitive Emissions from Tank Farm B	Cresol	1319773	4.71E-12	4.71E-12
FUG_B	Fugitive Emissions from Tank Farm B	Cyclohexane	110827	1.77E-06	1.77E-06
FUG_B	Fugitive Emissions from Tank Farm B	Cyclohexanone	108941	1.78E-08	1.78E-08
FUG_B	Fugitive Emissions from Tank Farm B	Dibutyl Phthalate	84742	2.63E-18	2.63E-18
FUG_B	Fugitive Emissions from Tank Farm B	Diesel Fuel	68476346	7.13E-08	7.13E-08
FUG_B	Fugitive Emissions from Tank Farm B	Diethylene Glycol	111466	1.11E-10	1.11E-10
FUG_B	Fugitive Emissions from Tank Farm B	Diethylene Glycol Butyl Ether	112345	5.10E-11	5.10E-11
FUG_B	Fugitive Emissions from Tank Farm B	Diethylenetriamine	111400	1.46E-11	1.46E-11
FUG_B	Fugitive Emissions from Tank Farm B	Dimethylformamide	68122	3.46E-09	3.46E-09
FUG_B	Fugitive Emissions from Tank Farm B	Ethanol	64175	9.61E-07	9.61E-07
FUG_B	Fugitive Emissions from Tank Farm B	Ethyl Acetate	141786	3.67E-07	3.67E-07
FUG_B	Fugitive Emissions from Tank Farm B	Ethyl Benzene	100414	1.36E-08	1.36E-08
FUG_B	Fugitive Emissions from Tank Farm B	Ethyl Lactate	687478	1.22E-07	1.22E-07
FUG_B	Fugitive Emissions from Tank Farm B	Ethyl-3-Ethoxypropionate	763699	9.49E-10	9.49E-10
FUG_B	Fugitive Emissions from Tank Farm B	Ethylene Glycol	107211	2.98E-08	2.98E-08
FUG_B	Fugitive Emissions from Tank Farm B	Ferric Chloride	7705080	4.09E-09	4.09E-09
FUG_B	Fugitive Emissions from Tank Farm B	Formic Acid	64186	1.35E-12	1.35E-12
FUG_B	Fugitive Emissions from Tank Farm B	Gasoline	8006619	5.26E-05	5.26E-05
FUG_B	Fugitive Emissions from Tank Farm B	Glycerin	56815	3.26E-17	3.26E-17
FUG_B	Fugitive Emissions from Tank Farm B	Heptane	142825	3.69E-08	3.69E-08
FUG_B	Fugitive Emissions from Tank Farm B	Hexamethyldisilazane	999973	1.28E-08	1.28E-08
FUG_B	Fugitive Emissions from Tank Farm B	Hexane	110543	9.05E-08	9.05E-08
FUG_B	Fugitive Emissions from Tank Farm B	Hydrochloric Acid	7647010	3.19E-11	3.19E-11
FUG_B	Fugitive Emissions from Tank Farm B	Hydrofluoric Acid	7664393	2.29E-08	2.29E-08
FUG_B	Fugitive Emissions from Tank Farm B	isobutyl acetate	110190	3.32E-10	3.32E-10
FUG_B	Fugitive Emissions from Tank Farm B	Isobutyl Isobutyrate	97858	2.84E-13	2.84E-13
FUG_B	Fugitive Emissions from Tank Farm B	Isoparaffinic Hydrocarbons	64771728	7.29E-08	7.29E-08
FUG_B	Fugitive Emissions from Tank Farm B	Isopropanolamine	78966	2.69E-10	2.69E-10
FUG_B	Fugitive Emissions from Tank Farm B	Isopropyl Acetate	108214	3.04E-08	3.04E-08
FUG_B	Fugitive Emissions from Tank Farm B	Jet Fuel/Kerosene	8008206	1.02E-07	1.02E-07
FUG_B	Fugitive Emissions from Tank Farm B	Methanol	67561	3.18E-06	3.18E-06
FUG_B	Fugitive Emissions from Tank Farm B	Methyl Ethyl Ketone	78933	5.57E-06	5.57E-06
FUG_B	Fugitive Emissions from Tank Farm B	Methyl Isobutyl Ketone	108101	3.28E-08	3.28E-08
FUG_B	Fugitive Emissions from Tank Farm B	Methylene Chloride	75092	1.01E-05	1.01E-05
FUG_B	Fugitive Emissions from Tank Farm B	Mineral Oil	8012951	3.59E-08	3.59E-08
FUG_B	Fugitive Emissions from Tank Farm B	Naphtha	8030306	7.06E-06	7.06E-06
FUG_B	Fugitive Emissions from Tank Farm B	Naphthalene	91203	3.85E-11	3.85E-11
FUG_B	Fugitive Emissions from Tank Farm B	n-Butanol	71363	1.01E-07	1.01E-07
FUG_B	Fugitive Emissions from Tank Farm B	n-Butyl Cellosolve	111762	1.23E-08	1.23E-08
FUG_B	Fugitive Emissions from Tank Farm B	Nitric Acid	7697372	9.35E-11	9.35E-11
FUG_B	Fugitive Emissions from Tank Farm B	n-Methyl-2-Pyrrolidone	872504	2.63E-07	2.63E-07
FUG_B	Fugitive Emissions from Tank Farm B	n-Propyl Acetate	109604	3.05E-08	3.05E-08
FUG_B	Fugitive Emissions from Tank Farm B	Petroleum Oil Products	8002059	6.38E-09	6.38E-09
FUG_B	Fugitive Emissions from Tank Farm B	Phenol	108952	8.62E-10	8.62E-10
FUG_B	Fugitive Emissions from Tank Farm B	Phenylmercuric acetate	62384	1.46E-18	1.46E-18
FUG_B	Fugitive Emissions from Tank Farm B	Phosphoric Acid	7664382	7.09E-11	7.09E-11
FUG_B	Fugitive Emissions from Tank Farm B	Polydimethyl Siloxane	63148629	4.04E-12	4.04E-12
FUG_B	Fugitive Emissions from Tank Farm B	Propylene Glycol Methyl Ether Acetate	108656	2.38E-08	2.38E-08
FUG_B	Fugitive Emissions from Tank Farm B	Propylene Oxide	75569	4.47E-09	4.47E-09
FUG_B	Fugitive Emissions from Tank Farm B	Pyridine	110861	2.06E-09	2.06E-09
FUG_B	Fugitive Emissions from Tank Farm B	Stoddard Solvent	8052413	6.24E-06	6.24E-06
FUG_B	Fugitive Emissions from Tank Farm B	Styrene	100425	1.47E-08	1.47E-08
FUG_B	Fugitive Emissions from Tank Farm B	Sulfolane	126330	7.92E-09	7.92E-09
FUG_B	Fugitive Emissions from Tank Farm B	Sulfuric Acid	7664939	1.33E-13	1.33E-13
FUG_B	Fugitive Emissions from Tank Farm B	Tetrachloroethylene	127184	3.48E-07	3.48E-07
FUG_B	Fugitive Emissions from Tank Farm B	Tetraethyl Orthosilicate	78104	3.11E-09	3.11E-09

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_B	Fugitive Emissions from Tank Farm B	Tetrahydrofuran	109999	4.44E-08	4.44E-08
FUG_B	Fugitive Emissions from Tank Farm B	Toluene	108883	3.93E-06	3.93E-06
FUG_B	Fugitive Emissions from Tank Farm B	Trichloroethylene	79016	3.04E-07	3.04E-07
FUG_B	Fugitive Emissions from Tank Farm B	Triethylenetetramine	112243	1.07E-13	1.07E-13
FUG_B	Fugitive Emissions from Tank Farm B	Xylenes	1330207	5.51E-07	5.51E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	1,1,1-Trichloroethane	71556	1.90E-07	1.90E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	1,2,4-Trimethylbenzene	95636	8.47E-09	8.47E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	1,2-Dichlorobenzene	95501	5.33E-11	5.33E-11
FUG_C1	Fugitive Emissions from Tank Farm C1	1-Methoxy-2-Propanol	107982	9.50E-08	9.50E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	2-Heptanone	110430	1.41E-09	1.41E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	2-Methoxyethanol	109864	1.68E-09	1.68E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	2-Methyl-1-Propanol	78831	4.46E-08	4.46E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	2-Pyrrolidone	616455	9.63E-10	9.63E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	Acetic acid	64197	2.24E-07	2.24E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Acetone	67641	2.85E-05	2.85E-05
FUG_C1	Fugitive Emissions from Tank Farm C1	Acetonitrile	75058	1.49E-06	1.49E-06
FUG_C1	Fugitive Emissions from Tank Farm C1	Alcohols	67630	7.95E-06	7.95E-06
FUG_C1	Fugitive Emissions from Tank Farm C1	Benzene	71432	7.72E-07	7.72E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Biocide (as Acrolein)	107028	4.93E-09	4.93E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	Butyl Acetate	123864	2.24E-07	2.24E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Chlorobenzene	108907	6.47E-10	6.47E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	Chloroform	67663	2.32E-07	2.32E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Cresol	1319773	1.86E-11	1.86E-11
FUG_C1	Fugitive Emissions from Tank Farm C1	Cyclohexane	110827	7.43E-06	7.43E-06
FUG_C1	Fugitive Emissions from Tank Farm C1	Cyclohexanone	108941	5.84E-08	5.84E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Diesel Fuel	68476346	2.95E-07	2.95E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Diethylene Glycol	111466	3.80E-10	3.80E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	Diethylene Glycol Butyl Ether	112345	1.82E-10	1.82E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	Diethylenetriamine	111400	6.13E-11	6.13E-11
FUG_C1	Fugitive Emissions from Tank Farm C1	Dimethylformamide	68122	4.27E-09	4.27E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	Ethanol	64175	3.39E-06	3.39E-06
FUG_C1	Fugitive Emissions from Tank Farm C1	Ethyl Acetate	141786	1.18E-06	1.18E-06
FUG_C1	Fugitive Emissions from Tank Farm C1	Ethyl Benzene	100414	5.09E-08	5.09E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Ethyl Lactate	687478	4.84E-08	4.84E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Ethylene Glycol	107211	6.85E-07	6.85E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Ferric Chloride	7705080	1.70E-08	1.70E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Gasoline	8006619	2.19E-04	2.19E-04
FUG_C1	Fugitive Emissions from Tank Farm C1	Glycerin	56815	1.33E-16	1.33E-16
FUG_C1	Fugitive Emissions from Tank Farm C1	Heptane	142825	1.23E-07	1.23E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Hexane	110543	1.98E-07	1.98E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Hydrochloric Acid	7647010	1.34E-10	1.34E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	Hydrofluoric Acid	7664393	9.28E-08	9.28E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Isoparaffinic Hydrocarbons	64771728	2.32E-07	2.32E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Isopropyl Acetate	108214	1.27E-07	1.27E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Jet Fuel/Kerosene	8008206	4.24E-07	4.24E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Methanol	67561	3.40E-06	3.40E-06
FUG_C1	Fugitive Emissions from Tank Farm C1	Methyl Ethyl Ketone	78933	1.64E-06	1.64E-06
FUG_C1	Fugitive Emissions from Tank Farm C1	Methyl Isobutyl Ketone	108101	4.87E-08	4.87E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Methylene Chloride	75092	3.71E-05	3.71E-05
FUG_C1	Fugitive Emissions from Tank Farm C1	Naphtha	8030306	1.12E-05	1.12E-05
FUG_C1	Fugitive Emissions from Tank Farm C1	Naphthalene	91203	1.56E-10	1.56E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	n-Butanol	71363	9.09E-09	9.09E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	n-Butyl Cellosolve	111762	1.71E-10	1.71E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	Nitric Acid	7697372	3.88E-10	3.88E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	n-Methyl-2-Pyrrolidone	872504	8.03E-07	8.03E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	n-Propyl Acetate	109604	9.72E-08	9.72E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Petroleum Oil Products	8002059	2.61E-08	2.61E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Phenol	108952	3.62E-09	3.62E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	Phenylmercuric acetate	62384	6.13E-18	6.13E-18
FUG_C1	Fugitive Emissions from Tank Farm C1	Phosphoric Acid	7664382	2.99E-10	2.99E-10
FUG_C1	Fugitive Emissions from Tank Farm C1	Polydimethyl Siloxane	63148629	3.95E-12	3.95E-12
FUG_C1	Fugitive Emissions from Tank Farm C1	Propylene Glycol Methyl Ether Acetate	108656	5.23E-08	5.23E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Pyridine	110861	7.14E-09	7.14E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	Stoddard Solvent	8052413	2.25E-04	2.25E-04
FUG_C1	Fugitive Emissions from Tank Farm C1	Styrene	100425	5.81E-08	5.81E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Sulfolane	126330	3.02E-08	3.02E-08

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_C1	Fugitive Emissions from Tank Farm C1	Sulfuric Acid	7664939	5.53E-13	5.53E-13
FUG_C1	Fugitive Emissions from Tank Farm C1	Tetrachloroethylene	127184	1.02E-06	1.02E-06
FUG_C1	Fugitive Emissions from Tank Farm C1	Tetraethyl Orthosilicate	78104	1.14E-08	1.14E-08
FUG_C1	Fugitive Emissions from Tank Farm C1	Tetrahydrofuran	109999	9.83E-09	9.83E-09
FUG_C1	Fugitive Emissions from Tank Farm C1	Toluene	108883	4.66E-07	4.66E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Trichloroethylene	79016	2.65E-07	2.65E-07
FUG_C1	Fugitive Emissions from Tank Farm C1	Xylenes	1330207	2.35E-07	2.35E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	1,1,1-Trichloroethane	71556	7.48E-07	7.48E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	1.75E-06	1.75E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	1,2,4-Trimethylbenzene	95636	7.88E-09	7.88E-09
FUG_C3	Fugitive Emissions from Tank Farm C3	1,2-Dichlorobenzene	95501	4.96E-11	4.96E-11
FUG_C3	Fugitive Emissions from Tank Farm C3	1-Methoxy-2-Propanol	107982	3.06E-07	3.06E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	2-Butoxyethanol acetate	112072	1.46E-11	1.46E-11
FUG_C3	Fugitive Emissions from Tank Farm C3	2-Ethoxyethyl acetate	111159	5.06E-08	5.06E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	2-Ethoxypropanol	19089475	7.18E-07	7.18E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	2-Heptanone	110430	6.71E-09	6.71E-09
FUG_C3	Fugitive Emissions from Tank Farm C3	2-Methoxyethanol	109864	1.56E-09	1.56E-09
FUG_C3	Fugitive Emissions from Tank Farm C3	2-Methyl-1-Propanol	78831	4.15E-08	4.15E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	2-Ppentanone	107879	3.50E-07	3.50E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	2-Pyrrolidone	616455	8.96E-10	8.96E-10
FUG_C3	Fugitive Emissions from Tank Farm C3	Acetic acid	64197	2.08E-07	2.08E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Acetone	67641	5.59E-05	5.59E-05
FUG_C3	Fugitive Emissions from Tank Farm C3	Acetonitrile	75058	1.45E-06	1.45E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Alcohols	67630	1.54E-05	1.54E-05
FUG_C3	Fugitive Emissions from Tank Farm C3	Benzene	71432	7.19E-07	7.19E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Biocide (as Acrolein)	107028	4.59E-09	4.59E-09
FUG_C3	Fugitive Emissions from Tank Farm C3	Butyl Acetate	123864	2.20E-07	2.20E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Chlorobenzene	108907	6.02E-10	6.02E-10
FUG_C3	Fugitive Emissions from Tank Farm C3	Chloroform	67663	2.64E-07	2.64E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Cresol	1319773	1.73E-11	1.73E-11
FUG_C3	Fugitive Emissions from Tank Farm C3	Cyclohexane	110827	6.91E-06	6.91E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Cyclohexanone	108941	1.11E-07	1.11E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Dibutyl Phthalate	84742	5.82E-17	5.82E-17
FUG_C3	Fugitive Emissions from Tank Farm C3	Diesel Fuel	68476346	2.75E-07	2.75E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Diethylene Glycol	111466	5.96E-09	5.96E-09
FUG_C3	Fugitive Emissions from Tank Farm C3	Diethylene Glycol Butyl Ether	112345	3.68E-10	3.68E-10
FUG_C3	Fugitive Emissions from Tank Farm C3	Diethylenetriamine	111400	5.71E-11	5.71E-11
FUG_C3	Fugitive Emissions from Tank Farm C3	Dimethylformamide	68122	1.10E-08	1.10E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Ethanol	64175	3.32E-06	3.32E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Ethyl Acetate	141786	1.47E-06	1.47E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Ethyl Benzene	100414	5.21E-08	5.21E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Ethyl Lactate	687478	1.47E-06	1.47E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Ethyl-3-Ethoxypropionate	763699	1.51E-08	1.51E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Ethylene Glycol	107211	9.48E-07	9.48E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Ferric Chloride	7705080	1.58E-08	1.58E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Gasoline	8006619	2.03E-04	2.03E-04
FUG_C3	Fugitive Emissions from Tank Farm C3	Glycerin	56815	1.23E-16	1.23E-16
FUG_C3	Fugitive Emissions from Tank Farm C3	Heptane	142825	1.36E-07	1.36E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Hexamethyldisilazane	999973	2.09E-07	2.09E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Hexane	110543	2.90E-07	2.90E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Hydrochloric Acid	7647010	1.25E-10	1.25E-10
FUG_C3	Fugitive Emissions from Tank Farm C3	Hydrofluoric Acid	7664393	1.00E-07	1.00E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Isoparaffinic Hydrocarbons	64771728	2.17E-07	2.17E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Isopropanolamine	78966	4.43E-09	4.43E-09
FUG_C3	Fugitive Emissions from Tank Farm C3	Isopropyl Acetate	108214	1.20E-07	1.20E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Jet Fuel/Kerosene	8008206	3.95E-07	3.95E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Methanol	67561	3.71E-06	3.71E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Methyl Ethyl Ketone	78933	5.14E-06	5.14E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Methyl Isobutyl Ketone	108101	7.20E-08	7.20E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Methylene Chloride	75092	4.60E-05	4.60E-05
FUG_C3	Fugitive Emissions from Tank Farm C3	Naphtha	8030306	2.36E-05	2.36E-05
FUG_C3	Fugitive Emissions from Tank Farm C3	Naphthalene	91203	1.45E-10	1.45E-10
FUG_C3	Fugitive Emissions from Tank Farm C3	n-Butanol	71363	3.23E-08	3.23E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	n-Butyl Cellosolve	111762	3.07E-10	3.07E-10
FUG_C3	Fugitive Emissions from Tank Farm C3	Nitric Acid	7697372	3.61E-10	3.61E-10
FUG_C3	Fugitive Emissions from Tank Farm C3	n-Methyl-2-Pyrrolidone	872504	2.80E-06	2.80E-06

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_C3	Fugitive Emissions from Tank Farm C3	n-Propyl Acetate	109604	2.15E-07	2.15E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Petroleum Oil Products	8002059	2.47E-08	2.47E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Phenol	108952	3.38E-09	3.38E-09
FUG_C3	Fugitive Emissions from Tank Farm C3	Phenylmercuric acetate	62384	5.71E-18	5.71E-18
FUG_C3	Fugitive Emissions from Tank Farm C3	Phosphoric Acid	7664382	2.78E-10	2.78E-10
FUG_C3	Fugitive Emissions from Tank Farm C3	Polydimethyl Siloxane	63148629	3.68E-12	3.68E-12
FUG_C3	Fugitive Emissions from Tank Farm C3	Propylene Glycol Methyl Ether Acetate	108656	1.30E-07	1.30E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Pyridine	110861	6.65E-09	6.65E-09
FUG_C3	Fugitive Emissions from Tank Farm C3	Stoddard Solvent	8052413	3.39E-05	3.39E-05
FUG_C3	Fugitive Emissions from Tank Farm C3	Styrene	100425	5.41E-08	5.41E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Sulfolane	126330	2.84E-08	2.84E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Sulfuric Acid	7664939	5.15E-13	5.15E-13
FUG_C3	Fugitive Emissions from Tank Farm C3	Tetrachloroethylene	127184	2.55E-06	2.55E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Tetraethyl Orthosilicate	78104	1.06E-08	1.06E-08
FUG_C3	Fugitive Emissions from Tank Farm C3	Tetrahydrofuran	109999	1.02E-07	1.02E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Toluene	108883	9.59E-07	9.59E-07
FUG_C3	Fugitive Emissions from Tank Farm C3	Trichloroethylene	79016	1.96E-06	1.96E-06
FUG_C3	Fugitive Emissions from Tank Farm C3	Triethylenetetramine	112243	2.09E-13	2.09E-13
FUG_C3	Fugitive Emissions from Tank Farm C3	Xylenes	1330207	1.15E-06	1.15E-06
FUG_D1	Fugitive Emissions from Tank Farm D1	1,1,1-Trichloroethane	71556	3.26E-08	3.26E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	4.57E-09	4.57E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	1,1,2-Trichloroethane	79005	1.72E-12	1.72E-12
FUG_D1	Fugitive Emissions from Tank Farm D1	1,2,4-Trimethylbenzene	95636	1.79E-13	1.79E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	1,2-Dichlorobenzene	95501	3.76E-13	3.76E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	1,3,5-Trimethylbenzene	108678	5.36E-11	5.36E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	1,4-Dioxane	123911	7.95E-10	7.95E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	1-Methoxy-2-Propanol	107982	2.35E-07	2.35E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	2-Butoxyethanol acetate	112072	2.80E-13	2.80E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	2-Ethoxyethyl acetate	111159	1.20E-10	1.20E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	2-Heptanone	110430	5.72E-11	5.72E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	2-Methoxyethanol	109864	1.47E-09	1.47E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	2-Methyl-1-Propanol	78831	7.65E-13	7.65E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	2-Ppentanone	107879	9.63E-08	9.63E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	4-Hydroxy-4-Methyl-2-Pentanone	123422	6.18E-13	6.18E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	Acetic acid	64197	8.27E-10	8.27E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	Acetone	67641	2.30E-06	2.30E-06
FUG_D1	Fugitive Emissions from Tank Farm D1	Acetonitrile	75058	2.16E-07	2.16E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Alcohols	67630	5.10E-07	5.10E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Amyl Acetate	628637	1.77E-09	1.77E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Benzene	71432	4.70E-08	4.70E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Brominated Bisphenol	79947	1.50E-20	1.50E-20
FUG_D1	Fugitive Emissions from Tank Farm D1	Butyl Acetate	123864	7.69E-09	7.69E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Carbon Tetrachloride	56235	2.56E-11	2.56E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	Chlorobenzene	108907	1.90E-11	1.90E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	Chloroform	67663	1.66E-08	1.66E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Cresol	1319773	3.97E-13	3.97E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	Cyclohexane	110827	1.10E-08	1.10E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Cyclohexanone	108941	1.57E-09	1.57E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Dibutyl Phthalate	84742	1.31E-18	1.31E-18
FUG_D1	Fugitive Emissions from Tank Farm D1	Diesel Fuel	68476346	1.55E-09	1.55E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Diethylene Glycol	111466	1.63E-14	1.63E-14
FUG_D1	Fugitive Emissions from Tank Farm D1	Diethylene Glycol Butyl Ether	112345	1.87E-13	1.87E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	Dimethylformamide	68122	2.81E-09	2.81E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Ethanol	64175	1.96E-07	1.96E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Ethyl Acetate	141786	9.18E-08	9.18E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Ethyl Benzene	100414	1.69E-09	1.69E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Ethyl Lactate	687478	3.16E-08	3.16E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Ethyl-3-Ethoxypropionate	763699	4.27E-11	4.27E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	Ethylene Glycol	107211	6.67E-11	6.67E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	Ferric Chloride	7705080	8.05E-11	8.05E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	Formic Acid	64186	1.80E-12	1.80E-12
FUG_D1	Fugitive Emissions from Tank Farm D1	Gasoline	8006619	8.86E-07	8.86E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Glycerin	56815	1.54E-18	1.54E-18
FUG_D1	Fugitive Emissions from Tank Farm D1	Heptane	142825	8.63E-09	8.63E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Hexamethyldisilazane	999973	1.70E-10	1.70E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	Hexane	110543	5.06E-08	5.06E-08

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_D1	Fugitive Emissions from Tank Farm D1	Hydrochloric Acid	7647010	1.59E-13	1.59E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	Hydrofluoric Acid	7664393	9.65E-11	9.65E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	isobutyl acetate	110190	4.42E-10	4.42E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	Isobutyl Isobutyrate	97858	3.79E-13	3.79E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	Isoparaffinic Hydrocarbons	64771728	2.37E-08	2.37E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Isopropyl Acetate	108214	1.37E-10	1.37E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	Jet Fuel/Kerosene	8008206	1.80E-09	1.80E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Methanol	67561	5.54E-07	5.54E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Methyl Ethyl Ketone	78933	4.68E-07	4.68E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Methyl Isobutyl Ketone	108101	2.66E-08	2.66E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Methylene Chloride	75092	9.74E-07	9.74E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Mineral Oil	8012951	4.78E-08	4.78E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Naphtha	8030306	5.55E-07	5.55E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Naphthalene	91203	2.01E-12	2.01E-12
FUG_D1	Fugitive Emissions from Tank Farm D1	n-Butanol	71363	6.26E-09	6.26E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	n-Butyl Cellosolve	111762	2.18E-11	2.18E-11
FUG_D1	Fugitive Emissions from Tank Farm D1	Nitric Acid	7697372	1.85E-12	1.85E-12
FUG_D1	Fugitive Emissions from Tank Farm D1	n-Methyl-2-Pyrrolidone	872504	7.25E-09	7.25E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	n-Propyl Acetate	109604	1.65E-09	1.65E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Petroleum Oil Products	8002059	1.99E-10	1.99E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	Phenol	108952	2.84E-12	2.84E-12
FUG_D1	Fugitive Emissions from Tank Farm D1	Polydimethyl Siloxane	63148629	4.13E-12	4.13E-12
FUG_D1	Fugitive Emissions from Tank Farm D1	Propylene Glycol Methyl Ether Acetate	108656	8.65E-09	8.65E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Propylene Oxide	75569	5.96E-09	5.96E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Pyridine	110861	4.91E-10	4.91E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	Stoddard Solvent	8052413	2.95E-07	2.95E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Styrene	100425	1.14E-09	1.14E-09
FUG_D1	Fugitive Emissions from Tank Farm D1	Sulfolane	126330	9.68E-10	9.68E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	Sulfuric Acid	7664939	2.69E-15	2.69E-15
FUG_D1	Fugitive Emissions from Tank Farm D1	Tetrachloroethylene	127184	3.58E-08	3.58E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Tetraethyl Orthosilicate	78104	5.51E-10	5.51E-10
FUG_D1	Fugitive Emissions from Tank Farm D1	Tetrahydrofuran	109999	4.96E-08	4.96E-08
FUG_D1	Fugitive Emissions from Tank Farm D1	Toluene	108883	1.84E-07	1.84E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Trichloroethylene	79016	2.07E-07	2.07E-07
FUG_D1	Fugitive Emissions from Tank Farm D1	Triethylenetetramine	112243	1.26E-13	1.26E-13
FUG_D1	Fugitive Emissions from Tank Farm D1	Xylenes	1330207	3.42E-08	3.42E-08
FUG_D3	Fugitive Emissions from Tank Farm D3	1,1,1-Trichloroethane	71556	1.47E-09	1.47E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	5.38E-09	5.38E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	1-Methoxy-2-Propanol	107982	5.55E-10	5.55E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	2-Butoxyethanol acetate	112072	4.47E-14	4.47E-14
FUG_D3	Fugitive Emissions from Tank Farm D3	2-Ethoxyethyl acetate	111159	1.55E-10	1.55E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	2-Ethoxypropanol	19089475	2.20E-09	2.20E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	2-Heptanone	110430	1.27E-11	1.27E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	2-Ppentanone	107879	8.79E-10	8.79E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Acetone	67641	7.65E-08	7.65E-08
FUG_D3	Fugitive Emissions from Tank Farm D3	Acetonitrile	75058	1.69E-10	1.69E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Alcohols	67630	1.93E-08	1.93E-08
FUG_D3	Fugitive Emissions from Tank Farm D3	Butyl Acetate	123864	2.69E-11	2.69E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	Chloroform	67663	1.24E-10	1.24E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Cyclohexanone	108941	1.40E-10	1.40E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Dibutyl Phthalate	84742	8.28E-20	8.28E-20
FUG_D3	Fugitive Emissions from Tank Farm D3	Diethylene Glycol	111466	1.99E-12	1.99E-12
FUG_D3	Fugitive Emissions from Tank Farm D3	Diethylene Glycol Butyl Ether	112345	3.83E-13	3.83E-13
FUG_D3	Fugitive Emissions from Tank Farm D3	Dimethylformamide	68122	1.68E-11	1.68E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	Ethanol	64175	4.14E-10	4.14E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Ethyl Acetate	141786	9.41E-10	9.41E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Ethyl Benzene	100414	1.14E-11	1.14E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	Ethyl Lactate	687478	4.37E-09	4.37E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	Ethyl-3-Ethoxypropionate	763699	4.63E-11	4.63E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	Ethylene Glycol	107211	1.91E-06	1.91E-06
FUG_D3	Fugitive Emissions from Tank Farm D3	Heptane	142825	5.47E-11	5.47E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	Hexamethyldisilazane	999973	6.41E-10	6.41E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Hexane	110543	2.73E-10	2.73E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Hydrofluoric Acid	7664393	4.29E-11	4.29E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	Isoparaffinic Hydrocarbons	64771728	1.25E-12	1.25E-12
FUG_D3	Fugitive Emissions from Tank Farm D3	Isopropanolamine	78966	1.36E-11	1.36E-11

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_D3	Fugitive Emissions from Tank Farm D3	Isopropyl Acetate	108214	3.81E-12	3.81E-12
FUG_D3	Fugitive Emissions from Tank Farm D3	Methanol	67561	1.38E-09	1.38E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	Methyl Ethyl Ketone	78933	9.24E-09	9.24E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	Methyl Isobutyl Ketone	108101	6.59E-11	6.59E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	Methylene Chloride	75092	3.02E-08	3.02E-08
FUG_D3	Fugitive Emissions from Tank Farm D3	Naphtha	8030306	3.50E-08	3.50E-08
FUG_D3	Fugitive Emissions from Tank Farm D3	n-Butanol	71363	5.47E-11	5.47E-11
FUG_D3	Fugitive Emissions from Tank Farm D3	n-Butyl Cellosolve	111762	3.32E-13	3.32E-13
FUG_D3	Fugitive Emissions from Tank Farm D3	n-Methyl-2-Pyrrolidone	872504	3.60E-09	3.60E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	n-Propyl Acetate	109604	3.11E-10	3.11E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Petroleum Oil Products	8002059	1.30E-12	1.30E-12
FUG_D3	Fugitive Emissions from Tank Farm D3	Phenol	108952	3.28E-14	3.28E-14
FUG_D3	Fugitive Emissions from Tank Farm D3	Phosphoric Acid	7664382	7.83E-16	7.83E-16
FUG_D3	Fugitive Emissions from Tank Farm D3	Propylene Glycol Methyl Ether Acetate	108656	2.48E-10	2.48E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Stoddard Solvent	8052413	8.57E-04	8.57E-04
FUG_D3	Fugitive Emissions from Tank Farm D3	Sulfolane	126330	9.29E-13	9.29E-13
FUG_D3	Fugitive Emissions from Tank Farm D3	Tetrachloroethylene	127184	3.99E-09	3.99E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	Tetraethyl Orthosilicate	78104	1.50E-13	1.50E-13
FUG_D3	Fugitive Emissions from Tank Farm D3	Tetrahydrofuran	109999	2.42E-10	2.42E-10
FUG_D3	Fugitive Emissions from Tank Farm D3	Toluene	108883	1.32E-09	1.32E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	Trichloroethylene	79016	4.35E-09	4.35E-09
FUG_D3	Fugitive Emissions from Tank Farm D3	Triethylenetetramine	112243	6.41E-16	6.41E-16
FUG_D3	Fugitive Emissions from Tank Farm D3	Xylenes	1330207	2.28E-09	2.28E-09
FUG_DIST	Fugitive Emissions from Distillation Processes	1,1,1-Trichloroethane	71556	7.67E-07	7.67E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	2.70E-06	2.70E-06
FUG_DIST	Fugitive Emissions from Distillation Processes	1-Methoxy-2-Propanol	107982	2.90E-07	2.90E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	2-Butoxyethanol acetate	112072	2.24E-11	2.24E-11
FUG_DIST	Fugitive Emissions from Distillation Processes	2-Ethoxyethyl acetate	111159	7.78E-08	7.78E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	2-Ethoxypropanol	19089475	1.10E-06	1.10E-06
FUG_DIST	Fugitive Emissions from Distillation Processes	2-Heptanone	110430	6.75E-09	6.75E-09
FUG_DIST	Fugitive Emissions from Distillation Processes	2-Ppentanone	107879	4.61E-07	4.61E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Acetone	67641	3.98E-05	3.98E-05
FUG_DIST	Fugitive Emissions from Distillation Processes	Acetonitrile	75058	8.80E-08	8.80E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	Alcohols	67630	1.02E-05	1.02E-05
FUG_DIST	Fugitive Emissions from Distillation Processes	Butyl Acetate	123864	1.42E-08	1.42E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	Chloroform	67663	6.46E-08	6.46E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	Cyclohexanone	108941	7.34E-08	7.34E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	Dibutyl Phthalate	84742	4.87E-17	4.87E-17
FUG_DIST	Fugitive Emissions from Distillation Processes	Diethylene Glycol	111466	4.82E-09	4.82E-09
FUG_DIST	Fugitive Emissions from Distillation Processes	Diethylene Glycol Butyl Ether	112345	2.12E-10	2.12E-10
FUG_DIST	Fugitive Emissions from Distillation Processes	Dimethylformamide	68122	8.89E-09	8.89E-09
FUG_DIST	Fugitive Emissions from Distillation Processes	Ethanol	64175	2.18E-07	2.18E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Ethyl Acetate	141786	4.92E-07	4.92E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Ethyl Benzene	100414	6.03E-09	6.03E-09
FUG_DIST	Fugitive Emissions from Distillation Processes	Ethyl Lactate	687478	2.19E-06	2.19E-06
FUG_DIST	Fugitive Emissions from Distillation Processes	Ethyl-3-Ethoxypropionate	763699	2.32E-08	2.32E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	Ethylene Glycol	107211	1.94E-09	1.94E-09
FUG_DIST	Fugitive Emissions from Distillation Processes	Heptane	142825	2.86E-08	2.86E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	Hexamethyldisilazane	999973	3.22E-07	3.22E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Hexane	110543	1.42E-07	1.42E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Hydrofluoric Acid	7664393	2.15E-08	2.15E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	Isoparaffinic Hydrocarbons	64771728	6.51E-10	6.51E-10
FUG_DIST	Fugitive Emissions from Distillation Processes	Isopropanolamine	78966	6.81E-09	6.81E-09
FUG_DIST	Fugitive Emissions from Distillation Processes	Isopropyl Acetate	108214	1.99E-09	1.99E-09
FUG_DIST	Fugitive Emissions from Distillation Processes	Methanol	67561	7.24E-07	7.24E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Methyl Ethyl Ketone	78933	4.83E-06	4.83E-06
FUG_DIST	Fugitive Emissions from Distillation Processes	Methyl Isobutyl Ketone	108101	3.47E-08	3.47E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	Methylene Chloride	75092	1.57E-05	1.57E-05
FUG_DIST	Fugitive Emissions from Distillation Processes	Naphtha	8030306	1.80E-05	1.80E-05
FUG_DIST	Fugitive Emissions from Distillation Processes	n-Butanol	71363	2.93E-08	2.93E-08
FUG_DIST	Fugitive Emissions from Distillation Processes	n-Butyl Cellosolve	111762	1.78E-10	1.78E-10
FUG_DIST	Fugitive Emissions from Distillation Processes	n-Methyl-2-Pyrrolidone	872504	2.70E-06	2.70E-06
FUG_DIST	Fugitive Emissions from Distillation Processes	n-Propyl Acetate	109604	1.63E-07	1.63E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Petroleum Oil Products	8002059	6.53E-10	6.53E-10
FUG_DIST	Fugitive Emissions from Distillation Processes	Phenol	108952	1.77E-11	1.77E-11
FUG_DIST	Fugitive Emissions from Distillation Processes	Phosphoric Acid	7664382	3.93E-13	3.93E-13

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_DIST	Fugitive Emissions from Distillation Processes	Propylene Glycol Methyl Ether Acetate	108656	1.25E-07	1.25E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Stoddard Solvent	8052413	3.74E-05	3.74E-05
FUG_DIST	Fugitive Emissions from Distillation Processes	Sulfolane	126330	4.66E-10	4.66E-10
FUG_DIST	Fugitive Emissions from Distillation Processes	Tetrachloroethylene	127184	2.09E-06	2.09E-06
FUG_DIST	Fugitive Emissions from Distillation Processes	Tetraethyl Orthosilicate	78104	7.97E-11	7.97E-11
FUG_DIST	Fugitive Emissions from Distillation Processes	Tetrahydrofuran	109999	1.26E-07	1.26E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Toluene	108883	6.92E-07	6.92E-07
FUG_DIST	Fugitive Emissions from Distillation Processes	Trichloroethylene	79016	2.27E-06	2.27E-06
FUG_DIST	Fugitive Emissions from Distillation Processes	Triethylenetetramine	112243	3.21E-13	3.21E-13
FUG_DIST	Fugitive Emissions from Distillation Processes	Xylenes	1330207	1.20E-06	1.20E-06
FUG_F	Fugitive Emissions from Tank Farm F	1,1,1-Trichloroethane	71556	3.53E-09	3.53E-09
FUG_F	Fugitive Emissions from Tank Farm F	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	2.41E-09	2.41E-09
FUG_F	Fugitive Emissions from Tank Farm F	1,2,4-Trimethylbenzene	95636	1.28E-10	1.28E-10
FUG_F	Fugitive Emissions from Tank Farm F	1,2-Dichlorobenzene	95501	8.04E-13	8.04E-13
FUG_F	Fugitive Emissions from Tank Farm F	1-Methoxy-2-Propanol	107982	1.68E-09	1.68E-09
FUG_F	Fugitive Emissions from Tank Farm F	2-Butoxyethanol acetate	112072	2.00E-14	2.00E-14
FUG_F	Fugitive Emissions from Tank Farm F	2-Ethoxyethyl acetate	111159	6.96E-11	6.96E-11
FUG_F	Fugitive Emissions from Tank Farm F	2-Ethoxypropanol	19089475	9.88E-10	9.88E-10
FUG_F	Fugitive Emissions from Tank Farm F	2-Heptanone	110430	2.69E-11	2.69E-11
FUG_F	Fugitive Emissions from Tank Farm F	2-Methoxyethanol	109864	2.53E-11	2.53E-11
FUG_F	Fugitive Emissions from Tank Farm F	2-Methyl-1-Propanol	78831	6.73E-10	6.73E-10
FUG_F	Fugitive Emissions from Tank Farm F	2-Ppentanone	107879	3.94E-10	3.94E-10
FUG_F	Fugitive Emissions from Tank Farm F	2-Pyrrolidone	616455	1.45E-11	1.45E-11
FUG_F	Fugitive Emissions from Tank Farm F	Acetic acid	64197	3.38E-09	3.38E-09
FUG_F	Fugitive Emissions from Tank Farm F	Acetone	67641	2.33E-06	2.33E-06
FUG_F	Fugitive Emissions from Tank Farm F	Acetonitrile	75058	2.26E-08	2.26E-08
FUG_F	Fugitive Emissions from Tank Farm F	Alcohols	67630	3.08E-07	3.08E-07
FUG_F	Fugitive Emissions from Tank Farm F	Benzene	71432	1.16E-08	1.16E-08
FUG_F	Fugitive Emissions from Tank Farm F	Biocide (as Acrolein)	107028	7.44E-11	7.44E-11
FUG_F	Fugitive Emissions from Tank Farm F	Butyl Acetate	123864	2.63E-08	2.63E-08
FUG_F	Fugitive Emissions from Tank Farm F	Chlorobenzene	108907	9.76E-12	9.76E-12
FUG_F	Fugitive Emissions from Tank Farm F	Chloroform	67663	3.56E-09	3.56E-09
FUG_F	Fugitive Emissions from Tank Farm F	Cresol	1319773	2.80E-13	2.80E-13
FUG_F	Fugitive Emissions from Tank Farm F	Cyclohexane	110827	1.12E-07	1.12E-07
FUG_F	Fugitive Emissions from Tank Farm F	Cyclohexanone	108941	9.42E-10	9.42E-10
FUG_F	Fugitive Emissions from Tank Farm F	Dibutyl Phthalate	84742	3.72E-20	3.72E-20
FUG_F	Fugitive Emissions from Tank Farm F	Diesel Fuel	68476346	4.45E-09	4.45E-09
FUG_F	Fugitive Emissions from Tank Farm F	Diethylene Glycol	111466	4.48E-11	4.48E-11
FUG_F	Fugitive Emissions from Tank Farm F	Diethylene Glycol Butyl Ether	112345	2.92E-12	2.92E-12
FUG_F	Fugitive Emissions from Tank Farm F	Diethylenetriamine	111400	9.24E-13	9.24E-13
FUG_F	Fugitive Emissions from Tank Farm F	Dimethylformamide	68122	7.20E-11	7.20E-11
FUG_F	Fugitive Emissions from Tank Farm F	Ethanol	64175	5.13E-08	5.13E-08
FUG_F	Fugitive Emissions from Tank Farm F	Ethyl Acetate	141786	1.82E-08	1.82E-08
FUG_F	Fugitive Emissions from Tank Farm F	Ethyl Benzene	100414	7.73E-10	7.73E-10
FUG_F	Fugitive Emissions from Tank Farm F	Ethyl Lactate	687478	2.69E-09	2.69E-09
FUG_F	Fugitive Emissions from Tank Farm F	Ethyl-3-Ethoxypropionate	763699	2.08E-11	2.08E-11
FUG_F	Fugitive Emissions from Tank Farm F	Ethylene Glycol	107211	1.69E-08	1.69E-08
FUG_F	Fugitive Emissions from Tank Farm F	Ferric Chloride	7705080	2.56E-10	2.56E-10
FUG_F	Fugitive Emissions from Tank Farm F	Gasoline	8006619	3.30E-06	3.30E-06
FUG_F	Fugitive Emissions from Tank Farm F	Glycerin	56815	2.00E-18	2.00E-18
FUG_F	Fugitive Emissions from Tank Farm F	Heptane	142825	1.88E-09	1.88E-09
FUG_F	Fugitive Emissions from Tank Farm F	Hexamethyldisilazane	999973	2.88E-10	2.88E-10
FUG_F	Fugitive Emissions from Tank Farm F	Hexane	110543	3.11E-09	3.11E-09
FUG_F	Fugitive Emissions from Tank Farm F	Hydrochloric Acid	7647010	2.02E-12	2.02E-12
FUG_F	Fugitive Emissions from Tank Farm F	Hydrofluoric Acid	7664393	1.42E-09	1.42E-09
FUG_F	Fugitive Emissions from Tank Farm F	Isoparaffinic Hydrocarbons	64771728	3.50E-09	3.50E-09
FUG_F	Fugitive Emissions from Tank Farm F	Isopropanolamine	78966	6.10E-12	6.10E-12
FUG_F	Fugitive Emissions from Tank Farm F	Isopropyl Acetate	108214	1.92E-09	1.92E-09
FUG_F	Fugitive Emissions from Tank Farm F	Jet Fuel/Kerosene	8008206	6.40E-09	6.40E-09
FUG_F	Fugitive Emissions from Tank Farm F	Methanol	67561	2.02E-07	2.02E-07
FUG_F	Fugitive Emissions from Tank Farm F	Methyl Ethyl Ketone	78933	3.91E-07	3.91E-07
FUG_F	Fugitive Emissions from Tank Farm F	Methyl Isobutyl Ketone	108101	7.63E-10	7.63E-10
FUG_F	Fugitive Emissions from Tank Farm F	Methylene Chloride	75092	5.73E-07	5.73E-07
FUG_F	Fugitive Emissions from Tank Farm F	Naphtha	8030306	4.41E-07	4.41E-07
FUG_F	Fugitive Emissions from Tank Farm F	Naphthalene	91203	2.35E-12	2.35E-12
FUG_F	Fugitive Emissions from Tank Farm F	n-Butanol	71363	7.40E-09	7.40E-09

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
FUG_F	Fugitive Emissions from Tank Farm F	n-Butyl Cellosolve	111762	9.54E-10	9.54E-10
FUG_F	Fugitive Emissions from Tank Farm F	Nitric Acid	7697372	5.85E-12	5.85E-12
FUG_F	Fugitive Emissions from Tank Farm F	n-Methyl-2-Pyrrolidone	872504	2.33E-08	2.33E-08
FUG_F	Fugitive Emissions from Tank Farm F	n-Propyl Acetate	109604	1.61E-09	1.61E-09
FUG_F	Fugitive Emissions from Tank Farm F	Petroleum Oil Products	8002059	3.94E-10	3.94E-10
FUG_F	Fugitive Emissions from Tank Farm F	Phenol	108952	5.45E-11	5.45E-11
FUG_F	Fugitive Emissions from Tank Farm F	Phenylmercuric acetate	62384	9.25E-20	9.25E-20
FUG_F	Fugitive Emissions from Tank Farm F	Phosphoric Acid	7664382	4.50E-12	4.50E-12
FUG_F	Fugitive Emissions from Tank Farm F	Polydimethyl Siloxane	63148629	5.96E-14	5.96E-14
FUG_F	Fugitive Emissions from Tank Farm F	Propylene Glycol Methyl Ether Acetate	108656	9.00E-10	9.00E-10
FUG_F	Fugitive Emissions from Tank Farm F	Pyridine	110861	1.08E-10	1.08E-10
FUG_F	Fugitive Emissions from Tank Farm F	Stoddard Solvent	8052413	9.11E-06	9.11E-06
FUG_F	Fugitive Emissions from Tank Farm F	Styrene	100425	8.76E-10	8.76E-10
FUG_F	Fugitive Emissions from Tank Farm F	Sulfolane	126330	4.56E-10	4.56E-10
FUG_F	Fugitive Emissions from Tank Farm F	Sulfuric Acid	7664939	8.34E-15	8.34E-15
FUG_F	Fugitive Emissions from Tank Farm F	Tetrachloroethylene	127184	1.71E-08	1.71E-08
FUG_F	Fugitive Emissions from Tank Farm F	Tetraethyl Orthosilicate	78104	1.71E-10	1.71E-10
FUG_F	Fugitive Emissions from Tank Farm F	Tetrahydrofuran	109999	2.57E-10	2.57E-10
FUG_F	Fugitive Emissions from Tank Farm F	Toluene	108883	2.92E-07	2.92E-07
FUG_F	Fugitive Emissions from Tank Farm F	Trichloroethylene	79016	5.95E-09	5.95E-09
FUG_F	Fugitive Emissions from Tank Farm F	Triethylenetetramine	112243	2.87E-16	2.87E-16
FUG_F	Fugitive Emissions from Tank Farm F	Xylenes	1330207	3.76E-08	3.76E-08
LAB_PACK	Labpack Consolidation	Acetone	67641	1.41E-02	5.36E-02
LAB_PACK	Labpack Consolidation	Alcohols	67630	2.74E-03	1.04E-02
LAB_PACK	Labpack Consolidation	Ethyl Acetate	141786	5.67E-03	2.15E-02
LAB_PACK	Labpack Consolidation	Stoddard Solvent	8052413	1.22E-04	4.62E-04
LAB_STK	Laboratory Exhaust	1,1,1-Trichloroethane	71556	6.32E-07	9.48E-07
LAB_STK	Laboratory Exhaust	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	4.81E-08	7.21E-08
LAB_STK	Laboratory Exhaust	1,1,2-Trichloroethane	79005	1.28E-12	1.93E-12
LAB_STK	Laboratory Exhaust	1,2,4-Trimethylbenzene	95636	6.76E-07	1.01E-06
LAB_STK	Laboratory Exhaust	1,2-Dichlorobenzene	95501	2.63E-09	3.95E-09
LAB_STK	Laboratory Exhaust	1,3,5-Trimethylbenzene	108678	3.61E-11	5.42E-11
LAB_STK	Laboratory Exhaust	1,4-Dioxane	123911	4.95E-10	7.43E-10
LAB_STK	Laboratory Exhaust	1-Methoxy-2-Propanol	107982	3.38E-08	5.07E-08
LAB_STK	Laboratory Exhaust	2-Butoxyethanol acetate	112072	6.27E-13	9.40E-13
LAB_STK	Laboratory Exhaust	2-Ethoxyethyl acetate	111159	1.46E-09	2.19E-09
LAB_STK	Laboratory Exhaust	2-Ethoxypropanol	19089475	1.97E-08	2.95E-08
LAB_STK	Laboratory Exhaust	2-Heptanone	110430	4.21E-09	6.32E-09
LAB_STK	Laboratory Exhaust	2-Methoxyethanol	109864	1.20E-09	1.80E-09
LAB_STK	Laboratory Exhaust	2-Methyl-1-Propanol	78831	1.12E-09	1.68E-09
LAB_STK	Laboratory Exhaust	2-Ppentanone	107879	8.33E-08	1.25E-07
LAB_STK	Laboratory Exhaust	4-Hydroxy-4-Methyl-2-Pentanone	123422	3.51E-13	5.26E-13
LAB_STK	Laboratory Exhaust	Acetic acid	64197	5.13E-10	7.69E-10
LAB_STK	Laboratory Exhaust	Acetone	67641	1.97E-06	2.96E-06
LAB_STK	Laboratory Exhaust	Acetonitrile	75058	3.88E-08	5.82E-08
LAB_STK	Laboratory Exhaust	Alcohols	67630	6.26E-07	9.40E-07
LAB_STK	Laboratory Exhaust	Amyl Acetate	628637	1.44E-09	2.17E-09
LAB_STK	Laboratory Exhaust	Benzene	71432	1.45E-06	2.18E-06
LAB_STK	Laboratory Exhaust	Biocide (as Acrolein)	107028	1.54E-10	2.31E-10
LAB_STK	Laboratory Exhaust	Brominated Bisphenol	79947	1.22E-20	1.83E-20
LAB_STK	Laboratory Exhaust	Butyl Acetate	123864	9.74E-06	1.46E-05
LAB_STK	Laboratory Exhaust	Carbon Tetrachloride	56235	1.73E-11	2.59E-11
LAB_STK	Laboratory Exhaust	Chlorobenzene	108907	4.38E-09	6.57E-09
LAB_STK	Laboratory Exhaust	Chloroform	67663	8.92E-08	1.34E-07
LAB_STK	Laboratory Exhaust	Cresol	1319773	1.85E-12	2.78E-12
LAB_STK	Laboratory Exhaust	Cyclohexane	110827	3.40E-07	5.10E-07
LAB_STK	Laboratory Exhaust	Cyclohexanone	108941	1.22E-09	1.83E-09
LAB_STK	Laboratory Exhaust	Dibutyl Phthalate	84742	4.06E-17	6.09E-17
LAB_STK	Laboratory Exhaust	Diesel Fuel	68476346	5.51E-08	8.27E-08
LAB_STK	Laboratory Exhaust	Diethylene Glycol	111466	7.26E-11	1.09E-10
LAB_STK	Laboratory Exhaust	Diethylene Glycol Butyl Ether	112345	8.60E-11	1.29E-10
LAB_STK	Laboratory Exhaust	Diethylenetriamine	111400	1.18E-12	1.77E-12
LAB_STK	Laboratory Exhaust	Dimethylformamide	68122	2.38E-09	3.58E-09
LAB_STK	Laboratory Exhaust	Ethanol	64175	1.69E-07	2.54E-07
LAB_STK	Laboratory Exhaust	Ethyl Acetate	141786	7.77E-08	1.17E-07
LAB_STK	Laboratory Exhaust	Ethyl Benzene	100414	1.40E-06	2.09E-06

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
LAB_STK	Laboratory Exhaust	Ethyl Lactate	687478	3.91E-08	5.86E-08
LAB_STK	Laboratory Exhaust	Ethyl-3-Ethoxypropionate	763699	2.76E-10	4.14E-10
LAB_STK	Laboratory Exhaust	Ethylene Glycol	107211	4.28E-11	6.42E-11
LAB_STK	Laboratory Exhaust	Ferric Chloride	7705080	5.95E-10	8.92E-10
LAB_STK	Laboratory Exhaust	Formic Acid	64186	8.25E-13	1.24E-12
LAB_STK	Laboratory Exhaust	Gasoline	8006619	1.94E-05	2.90E-05
LAB_STK	Laboratory Exhaust	Glycerin	56815	3.68E-12	5.51E-12
LAB_STK	Laboratory Exhaust	Heptane	142825	6.60E-09	9.90E-09
LAB_STK	Laboratory Exhaust	Hexamethyldisilazane	999973	5.73E-09	8.60E-09
LAB_STK	Laboratory Exhaust	Hexane	110543	6.06E-05	9.09E-05
LAB_STK	Laboratory Exhaust	Hydrochloric Acid	7647010	1.30E-13	1.95E-13
LAB_STK	Laboratory Exhaust	isobutyl acetate	110190	8.05E-10	1.21E-09
LAB_STK	Laboratory Exhaust	Isobutyl Isobutyrate	97858	7.98E-13	1.20E-12
LAB_STK	Laboratory Exhaust	Isoparaffinic Hydrocarbons	64771728	2.81E-06	4.21E-06
LAB_STK	Laboratory Exhaust	Isopropanolamine	78966	1.21E-10	1.82E-10
LAB_STK	Laboratory Exhaust	Isopropyl Acetate	108214	1.53E-08	2.30E-08
LAB_STK	Laboratory Exhaust	Jet Fuel/Kerosene	8008206	1.72E-07	2.58E-07
LAB_STK	Laboratory Exhaust	Methanol	67561	4.86E-07	7.29E-07
LAB_STK	Laboratory Exhaust	Methyl Ethyl Ketone	78933	4.04E-07	6.07E-07
LAB_STK	Laboratory Exhaust	Methyl Isobutyl Ketone	108101	2.38E-08	3.57E-08
LAB_STK	Laboratory Exhaust	Methylene Chloride	75092	5.86E-06	8.79E-06
LAB_STK	Laboratory Exhaust	Mineral Oil	8012951	3.89E-08	5.83E-08
LAB_STK	Laboratory Exhaust	Naphtha	8030306	9.77E-08	1.47E-07
LAB_STK	Laboratory Exhaust	Naphthalene	91203	1.08E-08	1.62E-08
LAB_STK	Laboratory Exhaust	n-Butanol	71363	6.00E-09	9.01E-09
LAB_STK	Laboratory Exhaust	n-Butyl Cellosolve	111762	2.72E-11	4.08E-11
LAB_STK	Laboratory Exhaust	Nitric Acid	7697372	1.19E-10	1.79E-10
LAB_STK	Laboratory Exhaust	n-Methyl-2-Pyrrolidone	872504	2.96E-08	4.44E-08
LAB_STK	Laboratory Exhaust	n-Propyl Acetate	109604	1.64E-08	2.46E-08
LAB_STK	Laboratory Exhaust	Petroleum Oil Products	8002059	1.15E-09	1.72E-09
LAB_STK	Laboratory Exhaust	Phenol	108952	1.61E-10	2.42E-10
LAB_STK	Laboratory Exhaust	Phenylmercuric acetate	62384	9.45E-18	1.42E-17
LAB_STK	Laboratory Exhaust	Phosphoric Acid	7664382	1.85E-18	2.78E-18
LAB_STK	Laboratory Exhaust	Polydimethyl Siloxane	63148629	9.69E-08	1.45E-07
LAB_STK	Laboratory Exhaust	Propylene Glycol Methyl Ether Acetate	108656	7.04E-09	1.06E-08
LAB_STK	Laboratory Exhaust	Pyridine	110861	3.28E-10	4.91E-10
LAB_STK	Laboratory Exhaust	Stoddard Solvent	8052413	2.15E-08	3.23E-08
LAB_STK	Laboratory Exhaust	Styrene	100425	6.33E-07	9.50E-07
LAB_STK	Laboratory Exhaust	Sulfolane	126330	7.91E-10	1.19E-09
LAB_STK	Laboratory Exhaust	Sulfuric Acid	7664939	2.22E-14	3.33E-14
LAB_STK	Laboratory Exhaust	Tetrachloroethylene	127184	3.48E-05	5.22E-05
LAB_STK	Laboratory Exhaust	Tetraethyl Orthosilicate	78104	5.10E-10	7.65E-10
LAB_STK	Laboratory Exhaust	Tetrahydrofuran	109999	4.24E-08	6.36E-08
LAB_STK	Laboratory Exhaust	Toluene	108883	3.63E-06	5.45E-06
LAB_STK	Laboratory Exhaust	Trichloroethylene	79016	1.29E-06	1.94E-06
LAB_STK	Laboratory Exhaust	Triethylenetetramine	112243	1.02E-13	1.53E-13
LAB_STK	Laboratory Exhaust	Xylenes	1330207	7.55E-06	1.13E-05
RAILSAMP	Railcar Sampling	1,1,1-Trichloroethane	71556	3.40E-09	4.96E-07
RAILSAMP	Railcar Sampling	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	4.90E-10	7.15E-08
RAILSAMP	Railcar Sampling	1,1,2-Trichloroethane	79005	1.68E-13	2.46E-11
RAILSAMP	Railcar Sampling	1,2,4-Trimethylbenzene	95636	1.72E-14	2.51E-12
RAILSAMP	Railcar Sampling	1,2-Dichlorobenzene	95501	3.67E-14	5.36E-12
RAILSAMP	Railcar Sampling	1,3,5-Trimethylbenzene	108678	4.73E-12	6.91E-10
RAILSAMP	Railcar Sampling	1,4-Dioxane	123911	6.49E-11	9.47E-09
RAILSAMP	Railcar Sampling	1-Methoxy-2-Propanol	107982	4.43E-09	6.46E-07
RAILSAMP	Railcar Sampling	2-Butoxyethanol acetate	112072	2.98E-14	4.36E-12
RAILSAMP	Railcar Sampling	2-Ethoxyethyl acetate	111159	1.27E-11	1.85E-09
RAILSAMP	Railcar Sampling	2-Heptanone	110430	1.72E-11	2.52E-09
RAILSAMP	Railcar Sampling	2-Methoxyethanol	109864	1.58E-10	2.30E-08
RAILSAMP	Railcar Sampling	2-Methyl-1-Propanol	78831	7.68E-14	1.12E-11
RAILSAMP	Railcar Sampling	2-Ppentanone	107879	1.09E-08	1.59E-06
RAILSAMP	Railcar Sampling	4-Hydroxy-4-Methyl-2-Pentanone	123422	4.59E-14	6.70E-12
RAILSAMP	Railcar Sampling	Acetic acid	64197	6.71E-11	9.80E-09
RAILSAMP	Railcar Sampling	Acetone	67641	2.58E-07	3.77E-05
RAILSAMP	Railcar Sampling	Acetonitrile	75058	2.33E-08	3.41E-06
RAILSAMP	Railcar Sampling	Alcohols	67630	5.79E-08	8.46E-06

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
RAILSAMP	Railcar Sampling	Amyl Acetate	628637	1.89E-10	2.76E-08
RAILSAMP	Railcar Sampling	Benzene	71432	5.28E-09	7.71E-07
RAILSAMP	Railcar Sampling	Brominated Bisphenol	79947	1.60E-21	2.33E-19
RAILSAMP	Railcar Sampling	Butyl Acetate	123864	8.75E-10	1.28E-07
RAILSAMP	Railcar Sampling	Carbon Tetrachloride	56235	2.26E-12	3.30E-10
RAILSAMP	Railcar Sampling	Chlorobenzene	108907	1.59E-12	2.31E-10
RAILSAMP	Railcar Sampling	Chloroform	67663	1.52E-09	2.22E-07
RAILSAMP	Railcar Sampling	Cresol	1319773	2.78E-14	4.06E-12
RAILSAMP	Railcar Sampling	Cyclohexane	110827	1.22E-09	1.79E-07
RAILSAMP	Railcar Sampling	Cyclohexanone	108941	1.60E-10	2.34E-08
RAILSAMP	Railcar Sampling	Dibutyl Phthalate	84742	5.31E-18	7.76E-16
RAILSAMP	Railcar Sampling	Diesel Fuel	68476346	7.04E-10	1.03E-07
RAILSAMP	Railcar Sampling	Diethylene Glycol	111466	7.11E-15	1.04E-12
RAILSAMP	Railcar Sampling	Diethylene Glycol Butyl Ether	112345	3.16E-14	4.62E-12
RAILSAMP	Railcar Sampling	Dimethylformamide	68122	3.12E-10	4.56E-08
RAILSAMP	Railcar Sampling	Ethanol	64175	2.21E-08	3.23E-06
RAILSAMP	Railcar Sampling	Ethyl Acetate	141786	1.02E-08	1.49E-06
RAILSAMP	Railcar Sampling	Ethyl Benzene	100414	1.86E-10	2.71E-08
RAILSAMP	Railcar Sampling	Ethyl Lactate	687478	3.37E-09	4.92E-07
RAILSAMP	Railcar Sampling	Ethyl-3-Ethoxypropionate	763699	3.03E-12	4.43E-10
RAILSAMP	Railcar Sampling	Ethylene Glycol	107211	5.60E-12	8.18E-10
RAILSAMP	Railcar Sampling	Ferric Chloride	7705080	8.58E-12	1.25E-09
RAILSAMP	Railcar Sampling	Formic Acid	64186	1.08E-13	1.58E-11
RAILSAMP	Railcar Sampling	Gasoline	8006619	1.91E-07	2.79E-05
RAILSAMP	Railcar Sampling	Glycerin	56815	2.68E-14	3.92E-12
RAILSAMP	Railcar Sampling	Heptane	142825	8.64E-10	1.26E-07
RAILSAMP	Railcar Sampling	Hexamethyldisilazane	999973	1.81E-11	2.64E-09
RAILSAMP	Railcar Sampling	Hexane	110543	5.64E-09	8.24E-07
RAILSAMP	Railcar Sampling	Hydrochloric Acid	7647010	1.61E-12	2.35E-10
RAILSAMP	Railcar Sampling	isobutyl acetate	110190	1.05E-10	1.54E-08
RAILSAMP	Railcar Sampling	Isobutyl Isobutyrate	97858	1.04E-13	1.52E-11
RAILSAMP	Railcar Sampling	Isoparaffinic Hydrocarbons	64771728	3.68E-07	5.37E-05
RAILSAMP	Railcar Sampling	Isopropyl Acetate	108214	1.10E-11	1.60E-09
RAILSAMP	Railcar Sampling	Jet Fuel/Kerosene	8008206	1.78E-09	2.60E-07
RAILSAMP	Railcar Sampling	Methanol	67561	6.36E-08	9.29E-06
RAILSAMP	Railcar Sampling	Methyl Ethyl Ketone	78933	5.29E-08	7.73E-06
RAILSAMP	Railcar Sampling	Methyl Isobutyl Ketone	108101	3.11E-09	4.55E-07
RAILSAMP	Railcar Sampling	Methylene Chloride	75092	1.10E-07	1.60E-05
RAILSAMP	Railcar Sampling	Mineral Oil	8012951	5.09E-09	7.44E-07
RAILSAMP	Railcar Sampling	Naphtha	8030306	1.18E-08	1.72E-06
RAILSAMP	Railcar Sampling	Naphthalene	91203	4.37E-14	6.38E-12
RAILSAMP	Railcar Sampling	n-Butanol	71363	7.86E-10	1.15E-07
RAILSAMP	Railcar Sampling	n-Butyl Cellosolve	111762	3.05E-12	4.46E-10
RAILSAMP	Railcar Sampling	Nitric Acid	7697372	1.56E-11	2.28E-09
RAILSAMP	Railcar Sampling	n-Methyl-2-Pyrrolidone	872504	2.33E-10	3.40E-08
RAILSAMP	Railcar Sampling	n-Propyl Acetate	109604	1.99E-10	2.91E-08
RAILSAMP	Railcar Sampling	Petroleum Oil Products	8002059	2.12E-11	3.10E-09
RAILSAMP	Railcar Sampling	Phenol	108952	3.33E-13	4.87E-11
RAILSAMP	Railcar Sampling	Polydimethyl Siloxane	63148629	4.41E-13	6.43E-11
RAILSAMP	Railcar Sampling	Propylene Glycol Methyl Ether Acetate	108656	9.22E-10	1.35E-07
RAILSAMP	Railcar Sampling	Propylene Oxide	75569	5.49E-10	8.02E-08
RAILSAMP	Railcar Sampling	Pyridine	110861	4.29E-11	6.26E-09
RAILSAMP	Railcar Sampling	Stoddard Solvent	8052413	1.04E-09	1.52E-07
RAILSAMP	Railcar Sampling	Styrene	100425	1.26E-10	1.83E-08
RAILSAMP	Railcar Sampling	Sulfolane	126330	1.03E-10	1.51E-08
RAILSAMP	Railcar Sampling	Sulfuric Acid	7664939	2.75E-13	4.01E-11
RAILSAMP	Railcar Sampling	Tetrachloroethylene	127184	4.10E-09	5.99E-07
RAILSAMP	Railcar Sampling	Tetraethyl Orthosilicate	78104	6.68E-11	9.75E-09
RAILSAMP	Railcar Sampling	Tetrahydrofuran	109999	5.55E-09	8.10E-07
RAILSAMP	Railcar Sampling	Toluene	108883	2.08E-08	3.04E-06
RAILSAMP	Railcar Sampling	Trichloroethylene	79016	2.33E-08	3.40E-06
RAILSAMP	Railcar Sampling	Triethylenetetramine	112243	1.34E-14	1.95E-12
RAILSAMP	Railcar Sampling	Xylenes	1330207	3.74E-09	5.46E-07
TANKSAMP	Tanker Truck Sampling	1,1,1-Trichloroethane	71556	8.67E-08	7.60E-07
TANKSAMP	Tanker Truck Sampling	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	6.60E-09	5.78E-08
TANKSAMP	Tanker Truck Sampling	1,1,2-Trichloroethane	79005	1.76E-13	1.54E-12

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TANKSAMP	Tanker Truck Sampling	1,2,4-Trimethylbenzene	95636	9.28E-08	8.13E-07
TANKSAMP	Tanker Truck Sampling	1,2-Dichlorobenzene	95501	3.62E-10	3.17E-09
TANKSAMP	Tanker Truck Sampling	1,3,5-Trimethylbenzene	108678	4.96E-12	4.34E-11
TANKSAMP	Tanker Truck Sampling	1,4-Dioxane	123911	6.80E-11	5.95E-10
TANKSAMP	Tanker Truck Sampling	1-Methoxy-2-Propanol	107982	4.64E-09	4.06E-08
TANKSAMP	Tanker Truck Sampling	2-Butoxyethanol acetate	112072	8.60E-14	7.54E-13
TANKSAMP	Tanker Truck Sampling	2-Ethoxyethyl acetate	111159	2.00E-10	1.75E-09
TANKSAMP	Tanker Truck Sampling	2-Ethoxypropanol	19089475	2.70E-09	2.36E-08
TANKSAMP	Tanker Truck Sampling	2-Heptanone	110430	5.78E-10	5.07E-09
TANKSAMP	Tanker Truck Sampling	2-Methoxyethanol	109864	1.65E-10	1.45E-09
TANKSAMP	Tanker Truck Sampling	2-Methyl-1-Propanol	78831	1.54E-10	1.35E-09
TANKSAMP	Tanker Truck Sampling	2-Ppentanone	107879	1.14E-08	1.00E-07
TANKSAMP	Tanker Truck Sampling	4-Hydroxy-4-Methyl-2-Pentanone	123422	4.81E-14	4.22E-13
TANKSAMP	Tanker Truck Sampling	Acetic acid	64197	7.04E-11	6.16E-10
TANKSAMP	Tanker Truck Sampling	Acetone	67641	2.71E-07	2.37E-06
TANKSAMP	Tanker Truck Sampling	Acetonitrile	75058	5.32E-09	4.66E-08
TANKSAMP	Tanker Truck Sampling	Alcohols	67630	8.60E-08	7.53E-07
TANKSAMP	Tanker Truck Sampling	Amyl Acetate	628637	1.98E-10	1.74E-09
TANKSAMP	Tanker Truck Sampling	Benzene	71432	2.00E-07	1.75E-06
TANKSAMP	Tanker Truck Sampling	Biocide (as Acrolein)	107028	2.12E-11	1.85E-10
TANKSAMP	Tanker Truck Sampling	Brominated Bisphenol	79947	1.67E-21	1.47E-20
TANKSAMP	Tanker Truck Sampling	Butyl Acetate	123864	1.34E-06	1.17E-05
TANKSAMP	Tanker Truck Sampling	Carbon Tetrachloride	56235	2.37E-12	2.08E-11
TANKSAMP	Tanker Truck Sampling	Chlorobenzene	108907	6.01E-10	5.27E-09
TANKSAMP	Tanker Truck Sampling	Chloroform	67663	1.22E-08	1.07E-07
TANKSAMP	Tanker Truck Sampling	Cresol	1319773	2.54E-13	2.22E-12
TANKSAMP	Tanker Truck Sampling	Cyclohexane	110827	4.67E-08	4.09E-07
TANKSAMP	Tanker Truck Sampling	Cyclohexanone	108941	1.68E-10	1.47E-09
TANKSAMP	Tanker Truck Sampling	Dibutyl Phthalate	84742	5.57E-18	4.88E-17
TANKSAMP	Tanker Truck Sampling	Diesel Fuel	68476346	7.56E-09	6.63E-08
TANKSAMP	Tanker Truck Sampling	Diethylene Glycol	111466	9.97E-12	8.73E-11
TANKSAMP	Tanker Truck Sampling	Diethylene Glycol Butyl Ether	112345	1.18E-11	1.03E-10
TANKSAMP	Tanker Truck Sampling	Diethylenetriamine	111400	1.62E-13	1.42E-12
TANKSAMP	Tanker Truck Sampling	Dimethylformamide	68122	3.27E-10	2.87E-09
TANKSAMP	Tanker Truck Sampling	Ethanol	64175	2.32E-08	2.03E-07
TANKSAMP	Tanker Truck Sampling	Ethyl Acetate	141786	1.07E-08	9.35E-08
TANKSAMP	Tanker Truck Sampling	Ethyl Benzene	100414	1.91E-07	1.68E-06
TANKSAMP	Tanker Truck Sampling	Ethyl Lactate	687478	5.36E-09	4.70E-08
TANKSAMP	Tanker Truck Sampling	Ethyl-3-Ethoxypropionate	763699	3.79E-11	3.32E-10
TANKSAMP	Tanker Truck Sampling	Ethylene Glycol	107211	5.87E-12	5.14E-11
TANKSAMP	Tanker Truck Sampling	Ferric Chloride	7705080	8.16E-11	7.15E-10
TANKSAMP	Tanker Truck Sampling	Formic Acid	64186	1.13E-13	9.92E-13
TANKSAMP	Tanker Truck Sampling	Gasoline	8006619	2.66E-06	2.33E-05
TANKSAMP	Tanker Truck Sampling	Glycerin	56815	5.05E-13	4.42E-12
TANKSAMP	Tanker Truck Sampling	Heptane	142825	9.06E-10	7.93E-09
TANKSAMP	Tanker Truck Sampling	Hexamethyldisilazane	999973	7.86E-10	6.89E-09
TANKSAMP	Tanker Truck Sampling	Hexane	110543	8.32E-06	7.29E-05
TANKSAMP	Tanker Truck Sampling	Hydrochloric Acid	7647010	1.78E-14	1.56E-13
TANKSAMP	Tanker Truck Sampling	isobutyl acetate	110190	1.11E-10	9.68E-10
TANKSAMP	Tanker Truck Sampling	Isobutyl Isobutyrate	97858	1.09E-13	9.59E-13
TANKSAMP	Tanker Truck Sampling	Isoparaffinic Hydrocarbons	64771728	3.85E-07	3.38E-06
TANKSAMP	Tanker Truck Sampling	Isopropanolamine	78966	1.67E-11	1.46E-10
TANKSAMP	Tanker Truck Sampling	Isopropyl Acetate	108214	2.10E-09	1.84E-08
TANKSAMP	Tanker Truck Sampling	Jet Fuel/Kerosene	8008206	2.36E-08	2.07E-07
TANKSAMP	Tanker Truck Sampling	Methanol	67561	6.67E-08	5.84E-07
TANKSAMP	Tanker Truck Sampling	Methyl Ethyl Ketone	78933	5.55E-08	4.86E-07
TANKSAMP	Tanker Truck Sampling	Methyl Isobutyl Ketone	108101	3.26E-09	2.86E-08
TANKSAMP	Tanker Truck Sampling	Methylene Chloride	75092	8.04E-07	7.04E-06
TANKSAMP	Tanker Truck Sampling	Mineral Oil	8012951	5.34E-09	4.68E-08
TANKSAMP	Tanker Truck Sampling	Naphtha	8030306	1.34E-08	1.17E-07
TANKSAMP	Tanker Truck Sampling	Naphthalene	91203	1.49E-09	1.30E-08
TANKSAMP	Tanker Truck Sampling	n-Butanol	71363	8.24E-10	7.22E-09
TANKSAMP	Tanker Truck Sampling	n-Butyl Cellosolve	111762	3.73E-12	3.27E-11
TANKSAMP	Tanker Truck Sampling	Nitric Acid	7697372	1.63E-11	1.43E-10
TANKSAMP	Tanker Truck Sampling	n-Methyl-2-Pyrrolidone	872504	4.07E-09	3.56E-08
TANKSAMP	Tanker Truck Sampling	n-Propyl Acetate	109604	2.25E-09	1.97E-08

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TANKSAMP	Tanker Truck Sampling	Petroleum Oil Products	8002059	1.57E-10	1.38E-09
TANKSAMP	Tanker Truck Sampling	Phenol	108952	2.21E-11	1.94E-10
TANKSAMP	Tanker Truck Sampling	Phenylmercuric acetate	62384	1.30E-18	1.14E-17
TANKSAMP	Tanker Truck Sampling	Phosphoric Acid	7664382	2.54E-19	2.23E-18
TANKSAMP	Tanker Truck Sampling	Polydimethyl Siloxane	63148629	1.33E-08	1.16E-07
TANKSAMP	Tanker Truck Sampling	Propylene Glycol Methyl Ether Acetate	108656	9.67E-10	8.47E-09
TANKSAMP	Tanker Truck Sampling	Pyridine	110861	4.50E-11	3.94E-10
TANKSAMP	Tanker Truck Sampling	Stoddard Solvent	8052413	2.95E-09	2.58E-08
TANKSAMP	Tanker Truck Sampling	Styrene	100425	8.69E-08	7.62E-07
TANKSAMP	Tanker Truck Sampling	Sulfolane	126330	1.09E-10	9.51E-10
TANKSAMP	Tanker Truck Sampling	Sulfuric Acid	7664939	3.04E-15	2.67E-14
TANKSAMP	Tanker Truck Sampling	Tetrachloroethylene	127184	4.78E-06	4.19E-05
TANKSAMP	Tanker Truck Sampling	Tetraethyl Orthosilicate	78104	7.00E-11	6.13E-10
TANKSAMP	Tanker Truck Sampling	Tetrahydrofuran	109999	5.82E-09	5.10E-08
TANKSAMP	Tanker Truck Sampling	Toluene	108883	4.98E-07	4.37E-06
TANKSAMP	Tanker Truck Sampling	Trichloroethylene	79016	1.77E-07	1.55E-06
TANKSAMP	Tanker Truck Sampling	Triethylenetetramine	112243	1.40E-14	1.23E-13
TANKSAMP	Tanker Truck Sampling	Xylenes	1330207	1.04E-06	9.08E-06
TNK_WSH	Truck Washout	1,1,1-Trichloroethane	71556	3.21E-06	1.67E-06
TNK_WSH	Truck Washout	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	6.49E-06	4.43E-06
TNK_WSH	Truck Washout	1,1,2-Trichloroethane	79005	4.00E-11	2.77E-11
TNK_WSH	Truck Washout	1,2,4-Trimethylbenzene	95636	4.55E-12	3.15E-12
TNK_WSH	Truck Washout	1,2-Dichlorobenzene	95501	7.94E-12	5.50E-12
TNK_WSH	Truck Washout	1,3,5-Trimethylbenzene	108678	1.25E-09	8.66E-10
TNK_WSH	Truck Washout	1,4-Dioxane	123911	2.34E-08	1.62E-08
TNK_WSH	Truck Washout	1-Methoxy-2-Propanol	107982	1.80E-06	1.08E-06
TNK_WSH	Truck Washout	2-Butoxyethanol acetate	112072	1.28E-08	8.82E-09
TNK_WSH	Truck Washout	2-Ethoxyethyl acetate	111159	2.66E-07	1.83E-07
TNK_WSH	Truck Washout	2-Ethoxypropanol	19089475	4.72E-06	3.26E-06
TNK_WSH	Truck Washout	2-Heptanone	110430	7.49E-08	4.86E-08
TNK_WSH	Truck Washout	2-Methoxyethanol	109864	6.58E-08	4.55E-08
TNK_WSH	Truck Washout	2-Methyl-1-Propanol	78831	3.29E-11	2.28E-11
TNK_WSH	Truck Washout	2-Ppentanone	107879	6.44E-06	3.01E-06
TNK_WSH	Truck Washout	4-Hydroxy-4-Methyl-2-Pentanone	123422	1.26E-11	8.69E-12
TNK_WSH	Truck Washout	Acetic acid	64197	3.55E-08	2.46E-08
TNK_WSH	Truck Washout	Acetone	67641	4.51E-04	2.14E-04
TNK_WSH	Truck Washout	Acetonitrile	75058	1.90E-05	1.25E-05
TNK_WSH	Truck Washout	Alcohols	67630	1.07E-04	7.42E-05
TNK_WSH	Truck Washout	Amyl Acetate	628637	4.61E-08	3.19E-08
TNK_WSH	Truck Washout	Benzene	71432	2.15E-06	1.49E-06
TNK_WSH	Truck Washout	Brominated Bisphenol	79947	9.33E-20	6.46E-20
TNK_WSH	Truck Washout	Butyl Acetate	123864	2.94E-07	1.66E-07
TNK_WSH	Truck Washout	Carbon Tetrachloride	56235	4.67E-10	3.23E-10
TNK_WSH	Truck Washout	Chlorobenzene	108907	4.47E-10	3.10E-10
TNK_WSH	Truck Washout	Chloroform	67663	6.04E-07	2.80E-07
TNK_WSH	Truck Washout	Cresol	1319773	2.72E-12	1.89E-12
TNK_WSH	Truck Washout	Cyclohexane	110827	4.62E-07	3.20E-07
TNK_WSH	Truck Washout	Cyclohexanone	108941	3.12E-07	1.84E-07
TNK_WSH	Truck Washout	Dibutyl Phthalate	84742	3.12E-15	1.74E-15
TNK_WSH	Truck Washout	Diesel Fuel	68476346	1.21E-07	8.37E-08
TNK_WSH	Truck Washout	Diethylene Glycol	111466	1.71E-08	1.18E-08
TNK_WSH	Truck Washout	Diethylene Glycol Butyl Ether	112345	6.19E-12	4.29E-12
TNK_WSH	Truck Washout	Dimethylformamide	68122	1.89E-07	9.39E-08
TNK_WSH	Truck Washout	Ethanol	64175	1.74E-05	1.06E-05
TNK_WSH	Truck Washout	Ethyl Acetate	141786	6.15E-06	2.54E-06
TNK_WSH	Truck Washout	Ethyl Benzene	100414	8.04E-08	3.85E-08
TNK_WSH	Truck Washout	Ethyl Lactate	687478	9.17E-06	5.72E-06
TNK_WSH	Truck Washout	Ethyl-3-Ethoxypropionate	763699	4.78E-08	3.26E-08
TNK_WSH	Truck Washout	Ethylene Glycol	107211	1.31E-08	7.07E-09
TNK_WSH	Truck Washout	Ferric Chloride	7705080	1.68E-09	1.16E-09
TNK_WSH	Truck Washout	Formic Acid	64186	7.45E-11	5.16E-11
TNK_WSH	Truck Washout	Gasoline	8006619	5.61E-05	3.88E-05
TNK_WSH	Truck Washout	Glycerin	56815	9.25E-12	6.41E-12
TNK_WSH	Truck Washout	Heptane	142825	3.88E-07	1.90E-07
TNK_WSH	Truck Washout	Hexamethyldisilazane	999973	8.90E-07	6.14E-07
TNK_WSH	Truck Washout	Hexane	110543	2.82E-06	1.44E-06

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TNK_WSH	Truck Washout	Hydrochloric Acid	7647010	1.48E-11	1.03E-11
TNK_WSH	Truck Washout	isobutyl acetate	110190	2.88E-08	2.00E-08
TNK_WSH	Truck Washout	Isobutyl Isobutyrate	97858	2.30E-11	1.59E-11
TNK_WSH	Truck Washout	Isoparaffinic Hydrocarbons	64771728	1.62E-04	1.12E-04
TNK_WSH	Truck Washout	Isopropanolamine	78966	4.03E-08	2.79E-08
TNK_WSH	Truck Washout	Isopropyl Acetate	108214	9.67E-09	4.33E-09
TNK_WSH	Truck Washout	Jet Fuel/Kerosene	8008206	3.43E-07	2.37E-07
TNK_WSH	Truck Washout	Methanol	67561	7.34E-05	4.37E-05
TNK_WSH	Truck Washout	Methyl Ethyl Ketone	78933	5.37E-05	2.10E-05
TNK_WSH	Truck Washout	Methyl Isobutyl Ketone	108101	1.15E-06	6.84E-07
TNK_WSH	Truck Washout	Methylene Chloride	75092	1.25E-04	5.81E-05
TNK_WSH	Truck Washout	Mineral Oil	8012951	2.24E-06	1.55E-06
TNK_WSH	Truck Washout	Naphtha	8030306	1.75E-05	9.77E-06
TNK_WSH	Truck Washout	Naphthalene	91203	1.08E-11	7.50E-12
TNK_WSH	Truck Washout	n-Butanol	71363	5.31E-07	2.33E-07
TNK_WSH	Truck Washout	n-Butyl Cellosolve	111762	1.64E-09	1.14E-09
TNK_WSH	Truck Washout	Nitric Acid	7697372	7.86E-09	5.44E-09
TNK_WSH	Truck Washout	n-Methyl-2-Pyrrolidone	872504	7.54E-06	5.17E-06
TNK_WSH	Truck Washout	n-Propyl Acetate	109604	8.31E-07	5.33E-07
TNK_WSH	Truck Washout	Petroleum Oil Products	8002059	3.42E-09	1.65E-09
TNK_WSH	Truck Washout	Phenol	108952	1.98E-10	7.79E-11
TNK_WSH	Truck Washout	Phosphoric Acid	7664382	1.31E-10	9.06E-11
TNK_WSH	Truck Washout	Polydimethyl Siloxane	63148629	1.89E-10	1.31E-10
TNK_WSH	Truck Washout	Propylene Glycol Methyl Ether Acetate	108656	6.41E-07	2.90E-07
TNK_WSH	Truck Washout	Propylene Oxide	75569	3.00E-07	2.08E-07
TNK_WSH	Truck Washout	Pyridine	110861	1.72E-08	1.19E-08
TNK_WSH	Truck Washout	Stoddard Solvent	8052413	4.33E-02	3.00E-02
TNK_WSH	Truck Washout	Styrene	100425	3.83E-08	2.65E-08
TNK_WSH	Truck Washout	Sulfolane	126330	3.88E-08	2.68E-08
TNK_WSH	Truck Washout	Sulfuric Acid	7664939	2.53E-12	1.75E-12
TNK_WSH	Truck Washout	Tetrachloroethylene	127184	6.55E-06	3.99E-06
TNK_WSH	Truck Washout	Tetraethyl Orthosilicate	78104	1.04E-08	7.05E-09
TNK_WSH	Truck Washout	Tetrahydrofuran	109999	3.23E-06	1.69E-06
TNK_WSH	Truck Washout	Toluene	108883	1.06E-05	4.96E-06
TNK_WSH	Truck Washout	Trichloroethylene	79016	1.34E-05	5.39E-06
TNK_WSH	Truck Washout	Triethylenetetramine	112243	3.88E-12	2.01E-12
TNK_WSH	Truck Washout	Xylenes	1330207	6.04E-06	3.41E-06
TR1	Trough 1	1,1,1-Trichloroethane	71556	1.27E-06	1.27E-06
TR1	Trough 1	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	7.16E-07	7.16E-07
TR1	Trough 1	1,1,2-Trichloroethane	79005	4.55E-11	4.55E-11
TR1	Trough 1	1,2,4-Trimethylbenzene	95636	1.09E-08	1.09E-08
TR1	Trough 1	1,2-Dichlorobenzene	95501	7.85E-11	7.85E-11
TR1	Trough 1	1,3,5-Trimethylbenzene	108678	1.42E-09	1.42E-09
TR1	Trough 1	1,4-Dioxane	123911	2.10E-08	2.10E-08
TR1	Trough 1	1-Methoxy-2-Propanol	107982	6.40E-06	6.40E-06
TR1	Trough 1	2-Butoxyethanol acetate	112072	1.23E-11	1.23E-11
TR1	Trough 1	2-Ethoxyethyl acetate	111159	2.04E-08	2.04E-08
TR1	Trough 1	2-Ethoxypropanol	19089475	2.44E-07	2.44E-07
TR1	Trough 1	2-Heptanone	110430	4.73E-09	4.73E-09
TR1	Trough 1	2-Methoxyethanol	109864	4.11E-08	4.11E-08
TR1	Trough 1	2-Methyl-1-Propanol	78831	5.74E-08	5.74E-08
TR1	Trough 1	2-Ppentanone	107879	2.64E-06	2.64E-06
TR1	Trough 1	2-Pyrrolidone	616455	1.24E-09	1.24E-09
TR1	Trough 1	4-Hydroxy-4-Methyl-2-Pentanone	123422	1.63E-11	1.63E-11
TR1	Trough 1	Acetic acid	64197	3.10E-07	3.10E-07
TR1	Trough 1	Acetone	67641	2.52E-04	2.52E-04
TR1	Trough 1	Acetonitrile	75058	7.64E-06	7.64E-06
TR1	Trough 1	Alcohols	67630	3.99E-05	3.99E-05
TR1	Trough 1	Amyl Acetate	628637	4.69E-08	4.69E-08
TR1	Trough 1	Benzene	71432	2.23E-06	2.23E-06
TR1	Trough 1	Biocide (as Acrolein)	107028	6.34E-09	6.34E-09
TR1	Trough 1	Brominated Bisphenol	79947	3.96E-19	3.96E-19
TR1	Trough 1	Butyl Acetate	123864	2.29E-06	2.29E-06
TR1	Trough 1	Carbon Tetrachloride	56235	6.77E-10	6.77E-10
TR1	Trough 1	Chlorobenzene	108907	1.34E-09	1.34E-09
TR1	Trough 1	Chloroform	67663	7.51E-07	7.51E-07

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TR1	Trough 1	Cresol	1319773	3.44E-11	3.44E-11
TR1	Trough 1	Cyclohexane	110827	9.84E-06	9.84E-06
TR1	Trough 1	Cyclohexanone	108941	1.32E-07	1.32E-07
TR1	Trough 1	Dibutyl Phthalate	84742	4.39E-17	4.39E-17
TR1	Trough 1	Diesel Fuel	68476346	4.21E-07	4.21E-07
TR1	Trough 1	Diethylene Glycol	111466	7.44E-10	7.44E-10
TR1	Trough 1	Diethylene Glycol Butyl Ether	112345	2.82E-10	2.82E-10
TR1	Trough 1	Diethylenetriamine	111400	7.88E-11	7.88E-11
TR1	Trough 1	Dimethylformamide	68122	8.17E-08	8.17E-08
TR1	Trough 1	Ethanol	64175	9.60E-06	9.60E-06
TR1	Trough 1	Ethyl Acetate	141786	4.05E-06	4.05E-06
TR1	Trough 1	Ethyl Benzene	100414	1.11E-07	1.11E-07
TR1	Trough 1	Ethyl Lactate	687478	1.38E-06	1.38E-06
TR1	Trough 1	Ethyl-3-Ethoxypropionate	763699	6.26E-09	6.26E-09
TR1	Trough 1	Ethylene Glycol	107211	3.48E-07	3.48E-07
TR1	Trough 1	Ferric Chloride	7705080	2.40E-08	2.40E-08
TR1	Trough 1	Formic Acid	64186	4.75E-11	4.75E-11
TR1	Trough 1	Gasoline	8006619	3.05E-04	3.05E-04
TR1	Trough 1	Glycerin	56815	2.11E-16	2.11E-16
TR1	Trough 1	Heptane	142825	3.93E-07	3.93E-07
TR1	Trough 1	Hexamethyldisilazane	999973	7.55E-08	7.55E-08
TR1	Trough 1	Hexane	110543	1.62E-06	1.62E-06
TR1	Trough 1	Hydrochloric Acid	7647010	1.76E-10	1.76E-10
TR1	Trough 1	Hydrofluoric Acid	7664393	1.27E-07	1.27E-07
TR1	Trough 1	isobutyl acetate	110190	1.17E-08	1.17E-08
TR1	Trough 1	Isobutyl Isobutyrate	97858	1.00E-11	1.00E-11
TR1	Trough 1	Isoparaffinic Hydrocarbons	64771728	9.25E-07	9.25E-07
TR1	Trough 1	Isopropanolamine	78966	1.50E-09	1.50E-09
TR1	Trough 1	Isopropyl Acetate	108214	1.68E-07	1.68E-07
TR1	Trough 1	Jet Fuel/Kerosene	8008206	5.93E-07	5.93E-07
TR1	Trough 1	Methanol	67561	3.09E-05	3.09E-05
TR1	Trough 1	Methyl Ethyl Ketone	78933	4.39E-05	4.39E-05
TR1	Trough 1	Methyl Isobutyl Ketone	108101	7.73E-07	7.73E-07
TR1	Trough 1	Methylene Chloride	75092	7.68E-05	7.68E-05
TR1	Trough 1	Mineral Oil	8012951	1.26E-06	1.26E-06
TR1	Trough 1	Naphtha	8030306	5.30E-05	5.30E-05
TR1	Trough 1	Naphthalene	91203	2.53E-10	2.53E-10
TR1	Trough 1	n-Butanol	71363	7.50E-07	7.50E-07
TR1	Trough 1	n-Butyl Cellosolve	111762	7.54E-08	7.54E-08
TR1	Trough 1	Nitric Acid	7697372	5.48E-10	5.48E-10
TR1	Trough 1	n-Methyl-2-Pyrrolidone	872504	1.63E-06	1.63E-06
TR1	Trough 1	n-Propyl Acetate	109604	2.03E-07	2.03E-07
TR1	Trough 1	Petroleum Oil Products	8002059	3.90E-08	3.90E-08
TR1	Trough 1	Phenol	108952	4.73E-09	4.73E-09
TR1	Trough 1	Phenylmercuric acetate	62384	7.89E-18	7.89E-18
TR1	Trough 1	Phosphoric Acid	7664382	3.84E-10	3.84E-10
TR1	Trough 1	Polydimethyl Siloxane	63148629	1.14E-10	1.14E-10
TR1	Trough 1	Propylene Glycol Methyl Ether Acetate	108656	3.23E-07	3.23E-07
TR1	Trough 1	Propylene Oxide	75569	1.57E-07	1.57E-07
TR1	Trough 1	Pyridine	110861	2.22E-08	2.22E-08
TR1	Trough 1	Stoddard Solvent	8052413	3.86E-05	3.86E-05
TR1	Trough 1	Styrene	100425	1.05E-07	1.05E-07
TR1	Trough 1	Sulfolane	126330	6.45E-08	6.45E-08
TR1	Trough 1	Sulfuric Acid	7664939	7.83E-13	7.83E-13
TR1	Trough 1	Tetrachloroethylene	127184	2.70E-06	2.70E-06
TR1	Trough 1	Tetraethyl Orthosilicate	78104	2.92E-08	2.92E-08
TR1	Trough 1	Tetrahydrofuran	109999	1.35E-06	1.35E-06
TR1	Trough 1	Toluene	108883	2.79E-05	2.79E-05
TR1	Trough 1	Trichloroethylene	79016	6.30E-06	6.30E-06
TR1	Trough 1	Triethylenetetramine	112243	3.39E-12	3.39E-12
TR1	Trough 1	Xylenes	1330207	4.05E-06	4.05E-06
TR2	Trough 2	1,1,1-Trichloroethane	71556	6.12E-07	6.12E-07
TR2	Trough 2	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	3.45E-07	3.45E-07
TR2	Trough 2	1,1,2-Trichloroethane	79005	2.20E-11	2.20E-11
TR2	Trough 2	1,2,4-Trimethylbenzene	95636	5.25E-09	5.25E-09
TR2	Trough 2	1,2-Dichlorobenzene	95501	3.78E-11	3.78E-11

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TR2	Trough 2	1,3,5-Trimethylbenzene	108678	6.84E-10	6.84E-10
TR2	Trough 2	1,4-Dioxane	123911	1.01E-08	1.01E-08
TR2	Trough 2	1-Methoxy-2-Propanol	107982	3.09E-06	3.09E-06
TR2	Trough 2	2-Butoxyethanol acetate	112072	5.95E-12	5.95E-12
TR2	Trough 2	2-Ethoxyethyl acetate	111159	9.82E-09	9.82E-09
TR2	Trough 2	2-Ethoxypropanol	19089475	1.18E-07	1.18E-07
TR2	Trough 2	2-Heptanone	110430	2.28E-09	2.28E-09
TR2	Trough 2	2-Methoxyethanol	109864	1.98E-08	1.98E-08
TR2	Trough 2	2-Methyl-1-Propanol	78831	2.77E-08	2.77E-08
TR2	Trough 2	2-Ppentanone	107879	1.27E-06	1.27E-06
TR2	Trough 2	2-Pyrrolidone	616455	5.97E-10	5.97E-10
TR2	Trough 2	4-Hydroxy-4-Methyl-2-Pentanone	123422	7.88E-12	7.88E-12
TR2	Trough 2	Acetic acid	64197	1.49E-07	1.49E-07
TR2	Trough 2	Acetone	67641	1.22E-04	1.22E-04
TR2	Trough 2	Acetonitrile	75058	3.68E-06	3.68E-06
TR2	Trough 2	Alcohols	67630	1.92E-05	1.92E-05
TR2	Trough 2	Amyl Acetate	628637	2.26E-08	2.26E-08
TR2	Trough 2	Benzene	71432	1.08E-06	1.08E-06
TR2	Trough 2	Biocide (as Acrolein)	107028	3.06E-09	3.06E-09
TR2	Trough 2	Brominated Bisphenol	79947	1.91E-19	1.91E-19
TR2	Trough 2	Butyl Acetate	123864	1.10E-06	1.10E-06
TR2	Trough 2	Carbon Tetrachloride	56235	3.26E-10	3.26E-10
TR2	Trough 2	Chlorobenzene	108907	6.44E-10	6.44E-10
TR2	Trough 2	Chloroform	67663	3.62E-07	3.62E-07
TR2	Trough 2	Cresol	1319773	1.66E-11	1.66E-11
TR2	Trough 2	Cyclohexane	110827	4.75E-06	4.75E-06
TR2	Trough 2	Cyclohexanone	108941	6.36E-08	6.36E-08
TR2	Trough 2	Dibutyl Phthalate	84742	2.12E-17	2.12E-17
TR2	Trough 2	Diesel Fuel	68476346	2.03E-07	2.03E-07
TR2	Trough 2	Diethylene Glycol	111466	3.59E-10	3.59E-10
TR2	Trough 2	Diethylene Glycol Butyl Ether	112345	1.36E-10	1.36E-10
TR2	Trough 2	Diethylenetriamine	111400	3.80E-11	3.80E-11
TR2	Trough 2	Dimethylformamide	68122	3.94E-08	3.94E-08
TR2	Trough 2	Ethanol	64175	4.63E-06	4.63E-06
TR2	Trough 2	Ethyl Acetate	141786	1.95E-06	1.95E-06
TR2	Trough 2	Ethyl Benzene	100414	5.37E-08	5.37E-08
TR2	Trough 2	Ethyl Lactate	687478	6.66E-07	6.66E-07
TR2	Trough 2	Ethyl-3-Ethoxypropionate	763699	3.02E-09	3.02E-09
TR2	Trough 2	Ethylene Glycol	107211	1.68E-07	1.68E-07
TR2	Trough 2	Ferric Chloride	7705080	1.16E-08	1.16E-08
TR2	Trough 2	Formic Acid	64186	2.29E-11	2.29E-11
TR2	Trough 2	Gasoline	8006619	1.47E-04	1.47E-04
TR2	Trough 2	Glycerin	56815	1.02E-16	1.02E-16
TR2	Trough 2	Heptane	142825	1.89E-07	1.89E-07
TR2	Trough 2	Hexamethyldisilazane	999973	3.64E-08	3.64E-08
TR2	Trough 2	Hexane	110543	7.83E-07	7.83E-07
TR2	Trough 2	Hydrochloric Acid	7647010	8.51E-11	8.51E-11
TR2	Trough 2	Hydrofluoric Acid	7664393	6.10E-08	6.10E-08
TR2	Trough 2	isobutyl acetate	110190	5.64E-09	5.64E-09
TR2	Trough 2	Isobutyl Isobutyrate	97858	4.83E-12	4.83E-12
TR2	Trough 2	Isoparaffinic Hydrocarbons	64771728	4.46E-07	4.46E-07
TR2	Trough 2	Isopropanolamine	78966	7.25E-10	7.25E-10
TR2	Trough 2	Isopropyl Acetate	108214	8.08E-08	8.08E-08
TR2	Trough 2	Jet Fuel/Kerosene	8008206	2.86E-07	2.86E-07
TR2	Trough 2	Methanol	67561	1.49E-05	1.49E-05
TR2	Trough 2	Methyl Ethyl Ketone	78933	2.12E-05	2.12E-05
TR2	Trough 2	Methyl Isobutyl Ketone	108101	3.72E-07	3.72E-07
TR2	Trough 2	Methylene Chloride	75092	3.70E-05	3.70E-05
TR2	Trough 2	Mineral Oil	8012951	6.09E-07	6.09E-07
TR2	Trough 2	Naphtha	8030306	2.56E-05	2.56E-05
TR2	Trough 2	Naphthalene	91203	1.22E-10	1.22E-10
TR2	Trough 2	n-Butanol	71363	3.62E-07	3.62E-07
TR2	Trough 2	n-Butyl Cellosolve	111762	3.63E-08	3.63E-08
TR2	Trough 2	Nitric Acid	7697372	2.64E-10	2.64E-10
TR2	Trough 2	n-Methyl-2-Pyrrolidone	872504	7.87E-07	7.87E-07
TR2	Trough 2	n-Propyl Acetate	109604	9.80E-08	9.80E-08

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TR2	Trough 2	Petroleum Oil Products	8002059	1.88E-08	1.88E-08
TR2	Trough 2	Phenol	108952	2.28E-09	2.28E-09
TR2	Trough 2	Phenylmercuric acetate	62384	3.80E-18	3.80E-18
TR2	Trough 2	Phosphoric Acid	7664382	1.85E-10	1.85E-10
TR2	Trough 2	Polydimethyl Siloxane	63148629	5.51E-11	5.51E-11
TR2	Trough 2	Propylene Glycol Methyl Ether Acetate	108656	1.56E-07	1.56E-07
TR2	Trough 2	Propylene Oxide	75569	7.59E-08	7.59E-08
TR2	Trough 2	Pyridine	110861	1.07E-08	1.07E-08
TR2	Trough 2	Stoddard Solvent	8052413	1.86E-05	1.86E-05
TR2	Trough 2	Styrene	100425	5.05E-08	5.05E-08
TR2	Trough 2	Sulfolane	126330	3.11E-08	3.11E-08
TR2	Trough 2	Sulfuric Acid	7664939	3.77E-13	3.77E-13
TR2	Trough 2	Tetrachloroethylene	127184	1.30E-06	1.30E-06
TR2	Trough 2	Tetraethyl Orthosilicate	78104	1.41E-08	1.41E-08
TR2	Trough 2	Tetrahydrofuran	109999	6.51E-07	6.51E-07
TR2	Trough 2	Toluene	108883	1.35E-05	1.35E-05
TR2	Trough 2	Trichloroethylene	79016	3.04E-06	3.04E-06
TR2	Trough 2	Triethylenetetramine	112243	1.63E-12	1.63E-12
TR2	Trough 2	Xylenes	1330207	1.95E-06	1.95E-06
TR3	Trough 3	1,1,1-Trichloroethane	71556	8.10E-08	8.10E-08
TR3	Trough 3	1,2,4-Trimethylbenzene	95636	3.60E-09	3.60E-09
TR3	Trough 3	1,2-Dichlorobenzene	95501	2.27E-11	2.27E-11
TR3	Trough 3	1-Methoxy-2-Propanol	107982	4.04E-08	4.04E-08
TR3	Trough 3	2-Heptanone	110430	5.98E-10	5.98E-10
TR3	Trough 3	2-Methoxyethanol	109864	7.15E-10	7.15E-10
TR3	Trough 3	2-Methyl-1-Propanol	78831	1.90E-08	1.90E-08
TR3	Trough 3	2-Pyrrolidone	616455	4.10E-10	4.10E-10
TR3	Trough 3	Acetic acid	64197	9.53E-08	9.53E-08
TR3	Trough 3	Acetone	67641	1.21E-05	1.21E-05
TR3	Trough 3	Acetonitrile	75058	6.35E-07	6.35E-07
TR3	Trough 3	Alcohols	67630	3.38E-06	3.38E-06
TR3	Trough 3	Benzene	71432	3.29E-07	3.29E-07
TR3	Trough 3	Biocide (as Acrolein)	107028	2.10E-09	2.10E-09
TR3	Trough 3	Butyl Acetate	123864	9.55E-08	9.55E-08
TR3	Trough 3	Chlorobenzene	108907	2.75E-10	2.75E-10
TR3	Trough 3	Chloroform	67663	9.89E-08	9.89E-08
TR3	Trough 3	Cresol	1319773	7.91E-12	7.91E-12
TR3	Trough 3	Cyclohexane	110827	3.16E-06	3.16E-06
TR3	Trough 3	Cyclohexanone	108941	2.48E-08	2.48E-08
TR3	Trough 3	Diesel Fuel	68476346	1.26E-07	1.26E-07
TR3	Trough 3	Diethylene Glycol	111466	1.61E-10	1.61E-10
TR3	Trough 3	Diethylene Glycol Butyl Ether	112345	7.75E-11	7.75E-11
TR3	Trough 3	Diethylenetriamine	111400	2.61E-11	2.61E-11
TR3	Trough 3	Dimethylformamide	68122	1.82E-09	1.82E-09
TR3	Trough 3	Ethanol	64175	1.44E-06	1.44E-06
TR3	Trough 3	Ethyl Acetate	141786	5.01E-07	5.01E-07
TR3	Trough 3	Ethyl Benzene	100414	2.17E-08	2.17E-08
TR3	Trough 3	Ethyl Lactate	687478	2.06E-08	2.06E-08
TR3	Trough 3	Ethylene Glycol	107211	2.92E-07	2.92E-07
TR3	Trough 3	Ferric Chloride	7705080	7.22E-09	7.22E-09
TR3	Trough 3	Gasoline	8006619	9.30E-05	9.30E-05
TR3	Trough 3	Glycerin	56815	5.64E-17	5.64E-17
TR3	Trough 3	Heptane	142825	5.25E-08	5.25E-08
TR3	Trough 3	Hexane	110543	8.44E-08	8.44E-08
TR3	Trough 3	Hydrochloric Acid	7647010	5.70E-11	5.70E-11
TR3	Trough 3	Hydrofluoric Acid	7664393	3.95E-08	3.95E-08
TR3	Trough 3	Isoparaffinic Hydrocarbons	64771728	9.88E-08	9.88E-08
TR3	Trough 3	Isopropyl Acetate	108214	5.41E-08	5.41E-08
TR3	Trough 3	Jet Fuel/Kerosene	8008206	1.81E-07	1.81E-07
TR3	Trough 3	Methanol	67561	1.45E-06	1.45E-06
TR3	Trough 3	Methyl Ethyl Ketone	78933	6.96E-07	6.96E-07
TR3	Trough 3	Methyl Isobutyl Ketone	108101	2.07E-08	2.07E-08
TR3	Trough 3	Methylene Chloride	75092	1.58E-05	1.58E-05
TR3	Trough 3	Naphtha	8030306	4.77E-06	4.77E-06
TR3	Trough 3	Naphthalene	91203	6.63E-11	6.63E-11
TR3	Trough 3	n-Butanol	71363	3.87E-09	3.87E-09

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TR3	Trough 3	n-Butyl Cellosolve	111762	7.29E-11	7.29E-11
TR3	Trough 3	Nitric Acid	7697372	1.65E-10	1.65E-10
TR3	Trough 3	n-Methyl-2-Pyrrolidone	872504	3.42E-07	3.42E-07
TR3	Trough 3	n-Propyl Acetate	109604	4.14E-08	4.14E-08
TR3	Trough 3	Petroleum Oil Products	8002059	1.11E-08	1.11E-08
TR3	Trough 3	Phenol	108952	1.54E-09	1.54E-09
TR3	Trough 3	Phenylmercuric acetate	62384	2.61E-18	2.61E-18
TR3	Trough 3	Phosphoric Acid	7664382	1.27E-10	1.27E-10
TR3	Trough 3	Polydimethyl Siloxane	63148629	1.68E-12	1.68E-12
TR3	Trough 3	Propylene Glycol Methyl Ether Acetate	108656	2.23E-08	2.23E-08
TR3	Trough 3	Pyridine	110861	3.04E-09	3.04E-09
TR3	Trough 3	Stoddard Solvent	8052413	9.55E-05	9.55E-05
TR3	Trough 3	Styrene	100425	2.47E-08	2.47E-08
TR3	Trough 3	Sulfolane	126330	1.29E-08	1.29E-08
TR3	Trough 3	Sulfuric Acid	7664939	2.35E-13	2.35E-13
TR3	Trough 3	Tetrachloroethylene	127184	4.33E-07	4.33E-07
TR3	Trough 3	Tetraethyl Orthosilicate	78104	4.83E-09	4.83E-09
TR3	Trough 3	Tetrahydrofuran	109999	4.18E-09	4.18E-09
TR3	Trough 3	Toluene	108883	1.98E-07	1.98E-07
TR3	Trough 3	Trichloroethylene	79016	1.13E-07	1.13E-07
TR3	Trough 3	Xylenes	1330207	1.00E-07	1.00E-07
TR4	Trough 4	1,1,1-Trichloroethane	71556	9.41E-07	9.41E-07
TR4	Trough 4	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	2.20E-06	2.20E-06
TR4	Trough 4	1,2,4-Trimethylbenzene	95636	9.91E-09	9.91E-09
TR4	Trough 4	1,2-Dichlorobenzene	95501	6.24E-11	6.24E-11
TR4	Trough 4	1-Methoxy-2-Propanol	107982	3.84E-07	3.84E-07
TR4	Trough 4	2-Butoxyethanol acetate	112072	1.83E-11	1.83E-11
TR4	Trough 4	2-Ethoxyethyl acetate	111159	6.36E-08	6.36E-08
TR4	Trough 4	2-Ethoxypropanol	19089475	9.02E-07	9.02E-07
TR4	Trough 4	2-Heptanone	110430	8.43E-09	8.43E-09
TR4	Trough 4	2-Methoxyethanol	109864	1.97E-09	1.97E-09
TR4	Trough 4	2-Methyl-1-Propanol	78831	5.22E-08	5.22E-08
TR4	Trough 4	2-Ppentanone	107879	4.40E-07	4.40E-07
TR4	Trough 4	2-Pyrrolidone	616455	1.13E-09	1.13E-09
TR4	Trough 4	Acetic acid	64197	2.62E-07	2.62E-07
TR4	Trough 4	Acetone	67641	7.02E-05	7.02E-05
TR4	Trough 4	Acetonitrile	75058	1.83E-06	1.83E-06
TR4	Trough 4	Alcohols	67630	1.93E-05	1.93E-05
TR4	Trough 4	Benzene	71432	9.03E-07	9.03E-07
TR4	Trough 4	Biocide (as Acrolein)	107028	5.77E-09	5.77E-09
TR4	Trough 4	Butyl Acetate	123864	2.76E-07	2.76E-07
TR4	Trough 4	Chlorobenzene	108907	7.57E-10	7.57E-10
TR4	Trough 4	Chloroform	67663	3.32E-07	3.32E-07
TR4	Trough 4	Cresol	1319773	2.17E-11	2.17E-11
TR4	Trough 4	Cyclohexane	110827	8.69E-06	8.69E-06
TR4	Trough 4	Cyclohexanone	108941	1.39E-07	1.39E-07
TR4	Trough 4	Dibutyl Phthalate	84742	7.31E-17	7.31E-17
TR4	Trough 4	Diesel Fuel	68476346	3.45E-07	3.45E-07
TR4	Trough 4	Diethylene Glycol	111466	7.49E-09	7.49E-09
TR4	Trough 4	Diethylene Glycol Butyl Ether	112345	4.63E-10	4.63E-10
TR4	Trough 4	Diethylenetriamine	111400	7.17E-11	7.17E-11
TR4	Trough 4	Dimethylformamide	68122	1.39E-08	1.39E-08
TR4	Trough 4	Ethanol	64175	4.18E-06	4.18E-06
TR4	Trough 4	Ethyl Acetate	141786	1.84E-06	1.84E-06
TR4	Trough 4	Ethyl Benzene	100414	6.55E-08	6.55E-08
TR4	Trough 4	Ethyl Lactate	687478	1.85E-06	1.85E-06
TR4	Trough 4	Ethyl-3-Ethoxypropionate	763699	1.90E-08	1.90E-08
TR4	Trough 4	Ethylene Glycol	107211	1.19E-06	1.19E-06
TR4	Trough 4	Ferric Chloride	7705080	1.99E-08	1.99E-08
TR4	Trough 4	Gasoline	8006619	2.56E-04	2.56E-04
TR4	Trough 4	Glycerin	56815	1.55E-16	1.55E-16
TR4	Trough 4	Heptane	142825	1.72E-07	1.72E-07
TR4	Trough 4	Hexamethyldisilazane	999973	2.63E-07	2.63E-07
TR4	Trough 4	Hexane	110543	3.64E-07	3.64E-07
TR4	Trough 4	Hydrochloric Acid	7647010	1.57E-10	1.57E-10
TR4	Trough 4	Hydrofluoric Acid	7664393	1.26E-07	1.26E-07

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TR4	Trough 4	Isoparaffinic Hydrocarbons	64771728	2.72E-07	2.72E-07
TR4	Trough 4	Isopropanolamine	78966	5.56E-09	5.56E-09
TR4	Trough 4	Isopropyl Acetate	108214	1.51E-07	1.51E-07
TR4	Trough 4	Jet Fuel/Kerosene	8008206	4.96E-07	4.96E-07
TR4	Trough 4	Methanol	67561	4.67E-06	4.67E-06
TR4	Trough 4	Methyl Ethyl Ketone	78933	6.47E-06	6.47E-06
TR4	Trough 4	Methyl Isobutyl Ketone	108101	9.06E-08	9.06E-08
TR4	Trough 4	Methylene Chloride	75092	5.78E-05	5.78E-05
TR4	Trough 4	Naphtha	8030306	2.96E-05	2.96E-05
TR4	Trough 4	Naphthalene	91203	1.82E-10	1.82E-10
TR4	Trough 4	n-Butanol	71363	4.07E-08	4.07E-08
TR4	Trough 4	n-Butyl Cellosolve	111762	3.85E-10	3.85E-10
TR4	Trough 4	Nitric Acid	7697372	4.54E-10	4.54E-10
TR4	Trough 4	n-Methyl-2-Pyrrolidone	872504	3.52E-06	3.52E-06
TR4	Trough 4	n-Propyl Acetate	109604	2.71E-07	2.71E-07
TR4	Trough 4	Petroleum Oil Products	8002059	3.11E-08	3.11E-08
TR4	Trough 4	Phenol	108952	4.25E-09	4.25E-09
TR4	Trough 4	Phenylmercuric acetate	62384	7.18E-18	7.18E-18
TR4	Trough 4	Phosphoric Acid	7664382	3.50E-10	3.50E-10
TR4	Trough 4	Polydimethyl Siloxane	63148629	4.63E-12	4.63E-12
TR4	Trough 4	Propylene Glycol Methyl Ether Acetate	108656	1.63E-07	1.63E-07
TR4	Trough 4	Pyridine	110861	8.36E-09	8.36E-09
TR4	Trough 4	Stoddard Solvent	8052413	4.26E-05	4.26E-05
TR4	Trough 4	Styrene	100425	6.80E-08	6.80E-08
TR4	Trough 4	Sulfolane	126330	3.57E-08	3.57E-08
TR4	Trough 4	Sulfuric Acid	7664939	6.47E-13	6.47E-13
TR4	Trough 4	Tetrachloroethylene	127184	3.20E-06	3.20E-06
TR4	Trough 4	Tetraethyl Orthosilicate	78104	1.34E-08	1.34E-08
TR4	Trough 4	Tetrahydrofuran	109999	1.29E-07	1.29E-07
TR4	Trough 4	Toluene	108883	1.21E-06	1.21E-06
TR4	Trough 4	Trichloroethylene	79016	2.46E-06	2.46E-06
TR4	Trough 4	Triethylenetetramine	112243	2.62E-13	2.62E-13
TR4	Trough 4	Xylenes	1330207	1.44E-06	1.44E-06
TR5	Trough 5	1,1,1-Trichloroethane	71556	1.79E-09	1.79E-09
TR5	Trough 5	1,1,2-Trichloro-1,2,2-Trifluoroethane	76131	6.55E-09	6.55E-09
TR5	Trough 5	1-Methoxy-2-Propanol	107982	6.77E-10	6.77E-10
TR5	Trough 5	2-Butoxyethanol acetate	112072	5.44E-14	5.44E-14
TR5	Trough 5	2-Ethoxyethyl acetate	111159	1.89E-10	1.89E-10
TR5	Trough 5	2-Ethoxypropanol	19089475	2.68E-09	2.68E-09
TR5	Trough 5	2-Heptanone	110430	1.55E-11	1.55E-11
TR5	Trough 5	2-Ppentanone	107879	1.07E-09	1.07E-09
TR5	Trough 5	Acetone	67641	9.32E-08	9.32E-08
TR5	Trough 5	Acetonitrile	75058	2.06E-10	2.06E-10
TR5	Trough 5	Alcohols	67630	2.36E-08	2.36E-08
TR5	Trough 5	Butyl Acetate	123864	3.28E-11	3.28E-11
TR5	Trough 5	Chloroform	67663	1.51E-10	1.51E-10
TR5	Trough 5	Cyclohexanone	108941	1.70E-10	1.70E-10
TR5	Trough 5	Dibutyl Phthalate	84742	1.01E-19	1.01E-19
TR5	Trough 5	Diethylene Glycol	111466	2.42E-12	2.42E-12
TR5	Trough 5	Diethylene Glycol Butyl Ether	112345	4.67E-13	4.67E-13
TR5	Trough 5	Dimethylformamide	68122	2.04E-11	2.04E-11
TR5	Trough 5	Ethanol	64175	5.05E-10	5.05E-10
TR5	Trough 5	Ethyl Acetate	141786	1.15E-09	1.15E-09
TR5	Trough 5	Ethyl Benzene	100414	1.40E-11	1.40E-11
TR5	Trough 5	Ethyl Lactate	687478	5.33E-09	5.33E-09
TR5	Trough 5	Ethyl-3-Ethoxypropionate	763699	5.64E-11	5.64E-11
TR5	Trough 5	Ethylene Glycol	107211	2.32E-06	2.32E-06
TR5	Trough 5	Heptane	142825	6.67E-11	6.67E-11
TR5	Trough 5	Hexamethyldisilazane	999973	7.82E-10	7.82E-10
TR5	Trough 5	Hexane	110543	3.33E-10	3.33E-10
TR5	Trough 5	Hydrofluoric Acid	7664393	5.23E-11	5.23E-11
TR5	Trough 5	Isoparaffinic Hydrocarbons	64771728	1.53E-12	1.53E-12
TR5	Trough 5	Isopropanolamine	78966	1.66E-11	1.66E-11
TR5	Trough 5	Isopropyl Acetate	108214	4.64E-12	4.64E-12
TR5	Trough 5	Methanol	67561	1.68E-09	1.68E-09
TR5	Trough 5	Methyl Ethyl Ketone	78933	1.13E-08	1.13E-08

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Table 6.4
Modeled Source Emission Rates
Romic Facility - Chandler, Arizona

Modeling Source ID	Description	Chemical	CAS_No	Emission Rates (grams/second) Annual Average	Emission Rates (grams/second) Maximum Hourly
TR5	Trough 5	Methyl Isobutyl Ketone	108101	8.03E-11	8.03E-11
TR5	Trough 5	Methylene Chloride	75092	3.68E-08	3.68E-08
TR5	Trough 5	Naphtha	8030306	4.26E-08	4.26E-08
TR5	Trough 5	n-Butanol	71363	6.67E-11	6.67E-11
TR5	Trough 5	n-Butyl Cellosolve	111762	4.04E-13	4.04E-13
TR5	Trough 5	n-Methyl-2-Pyrrolidone	872504	4.38E-09	4.38E-09
TR5	Trough 5	n-Propyl Acetate	109604	3.79E-10	3.79E-10
TR5	Trough 5	Petroleum Oil Products	8002059	1.59E-12	1.59E-12
TR5	Trough 5	Phenol	108952	4.00E-14	4.00E-14
TR5	Trough 5	Phosphoric Acid	7664382	9.55E-16	9.55E-16
TR5	Trough 5	Propylene Glycol Methyl Ether Acetate	108656	3.03E-10	3.03E-10
TR5	Trough 5	Stoddard Solvent	8052413	1.04E-03	1.04E-03
TR5	Trough 5	Sulfolane	126330	1.13E-12	1.13E-12
TR5	Trough 5	Tetrachloroethylene	127184	4.86E-09	4.86E-09
TR5	Trough 5	Tetraethyl Orthosilicate	78104	1.83E-13	1.83E-13
TR5	Trough 5	Tetrahydrofuran	109999	2.95E-10	2.95E-10
TR5	Trough 5	Toluene	108883	1.61E-09	1.61E-09
TR5	Trough 5	Trichloroethylene	79016	5.30E-09	5.30E-09
TR5	Trough 5	Triethylenetetramine	112243	7.81E-16	7.81E-16
TR5	Trough 5	Xylenes	1330207	2.78E-09	2.78E-09

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Table 6.5
Summary of Modeled Building Parameters
Romic Facility - Chandler, Arizona

Building ID	Building	Number of Tiers	Elevation (meter)	Number of Corners	Height (meter)	UTMx (meter)	UTMy (meter)
DSB1	Drum Storage Building #1	1	353	5	7.62	410780	3683779
						410805	3683779
						410830	3683767
						410830	3683748
						410780	3683748
CANOPY	Canopy	1	353	4	7.62	410804	3683748
						410830	3683748
						410830	3683729
						410804	3683729
TNKC_D	Tank Farms C and D	1	353	6	9.14	410804	3683728
						410831	3683728
						410831	3683694
						410830	3683693
						410805	3683693
						410804	3683694
TNKA_B	Tank Farms A and B	1	353	6	7.62	410780	3683728
						410781	3683729
						410791	3683729
						410792	3683728
						410792	3683701
						410780	3683701
BOILER	Boiler Area	1	353	4	6.1	410780	3683701
						410792	3683701
						410792	3683693
						410780	3683693
LAB	Lab	1	353	4	3.05	410780	3683687
						410792	3683687
						410792	3683676
						410780	3683676

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Table 6.5
Summary of Modeled Building Parameters
Romic Facility - Chandler, Arizona

Building ID	Building	Number of Tiers	Elevation (meter)	Number of Corners	Height (meter)	UTMx (meter)	UTMy (meter)
TANKEFG	Tank Farms E, F, and G	1	353	10	9.14	410844	3683710
						410845	3683711
						410863	3683711
						410864	3683710
						410864	3683699
						410866	3683699
						410866	3683687
						410857	3683687
						410857	3683691
						410844	3683691
DSB2	Drum Storage Building #2	1	353	6	7.62	410844	3683691
						410857	3683691
						410857	3683687
						410866	3683687
						410866	3683664
						410844	3683664
OFFICE1	Office Building #1/ Locker Room/ Lunchroom	1	353	6	3.05	410808	3683683
						410811	3683683
						410811	3683686
						410829	3683686
						410829	3683673
						410808	3683673
OFFICE2	Office Building #2	1	353	4	3.05	410802	3683683
						410805	3683683
						410805	3683674
						410802	3683674
OFFICE3	Office Building #3	1	353	4	3.05	410802	3683671
						410823	3683671
						410823	3683666
						410802	3683666

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Table 6.6
On-Site Worker Monitoring Type and Activity - March 2/3, 2006
Romic Facility - Chandler, Arizona

Sample #/Type	Task Description	Group
REB06001 - Personal , TWA	Distillation Operations - Personal	Bulk Handling
REB06002 - Personal, TWA	Drum Sampling - Personal	Drum Handling
REB06003 - Personal, TWA	Consolidation - Personal	Drum Handling
REB06004 - Personal, TWA	Warehouse - Personal	Drum Handling
REB06005 - Personal, TWA	Floater - Personal	N/A
REB06006 - Personal, TWA	Fuel Pumping - Personal	Bulk Handling
REB06007 - Personal, TWA	Consolidation - Personal	Drum Handling
REB06008 - Personal, TWA	Consolidation - Personal	Drum Handling
REB06009 - Area, TWA	Area Sample - T7	N/A
REB6010 (A&B) - Personal, STEL	Truck Sampling - Personal (STEL)	Bulk Handling
REB06016 - N/A	Field Blank	N/A
REB06017 - Personal, TWA	Floater - Personal	N/A
REB06018 - Personal, TWA	Fuels/Wastewater - Personal	Bulk Handling
REB06019 - Personal, TWA	Consolidation - Personal	Drum Handling
REB06020 - N/A	Field Blank	N/A
REB06021 (A&B) - Personal, STEL	Truck Sampling - Personal (STEL)	Bulk Handling
REB06022 (A&B) - Personal, TWA	Field Blank	N/A

Notes:
N/A = Not applicable
STEL = Short term exposure limit
TWA = Time-weighted average

Source:
Letter to Romic Environmental Technologies Corp. from Robert Brown & Associates dated March 23, 2006.

Table 6.7
On-Site Worker Monitoring Results - March 2/3, 2006
Romic Facility - Chandler, Arizona

Sample #/Type	Analyte	Result (mg/m^3)
REB06001 - Personal , TWA	Methylene Chloride	4.5
	Acetone	8.0
	Toluene	(a)
	Methyl Ethyl Ketone	(a)
	Isopropyl Alcohol	(a)
	Total HC (as n-Hexane)	10.5 (a)
REB06002 - Personal, TWA	Methylene Chloride	2.0
	Acetone	2.9
	Toluene	(a)
	Methyl Ethyl Ketone	(a)
	Isopropyl Alcohol	(a)
	Total HC (as n-Hexane)	5.4 (a)
REB06003 - Personal, TWA	Methylene Chloride	2.4
	Acetone	170
	Toluene	19.0
	Methyl Ethyl Ketone	13.0
	Isopropyl Alcohol	35.7
	Total HC (as n-Hexane)	28.0 (b)
REB06004 - Personal, TWA	Methylene Chloride	<1.4
	Acetone	1.2
	Toluene	(a)
	Methyl Ethyl Ketone	(a)
	Isopropyl Alcohol	(a)
	Total HC (as n-Hexane)	3.9 (a)
REB06005 - Personal, TWA	Methylene Chloride	<1.4
	Acetone	2.8
	Toluene	(a)
	Methyl Ethyl Ketone	(a)
	Isopropyl Alcohol	(a)
	Total HC (as n-Hexane)	6.3 (a)
REB06006 - Personal, TWA	Methylene Chloride	13.1
	Acetone	143
	Toluene	33.3
	Methyl Ethyl Ketone	23.2
	Isopropyl Alcohol	(c)
	Total HC (as n-Hexane)	59.0 (c)
REB06007 - Personal, TWA	Methylene Chloride	<1.4
	Acetone	4.3
	Toluene	(a)
	Methyl Ethyl Ketone	(a)
	Isopropyl Alcohol	(a)
	Total HC (as n-Hexane)	8.6 (a)
REB06008 - Personal, TWA	Methylene Chloride	<1.4
	Acetone	4.8
	Toluene	(a)
	Methyl Ethyl Ketone	(a)
	Isopropyl Alcohol	(a)
	Total HC (as n-Hexane)	15.6 (a)
REB06009 - Area, TWA	Methylene Chloride	10.2
	Acetone	213
	Toluene	60.4
	Methyl Ethyl Ketone	41.4
	Isopropyl Alcohol	53.9
	Total HC (as n-Hexane)	95.3 (b)

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Table 6.7
On-Site Worker Monitoring Results - March 2/3, 2006
Romic Facility - Chandler, Arizona

Sample #/Type	Analyte	Result (mg/m^3)
REB06016 - Field Blank	Methylene Chloride	<LOQ (0.022)
	Acetone	N/D
	Toluene	N/D
	Methyl Ethyl Ketone	N/D
	Isopropyl Alcohol	N/D
	Total HC (as n-Hexane)	<LOQ (0.011)
REB06017 - Personal, TWA	Methylene Chloride	<1.8
	Acetone	1.1
	Toluene	(a)
	Methyl Ethyl Ketone	(a)
	Isopropyl Alcohol	(a)
	Total HC (as n-Hexane)	2.0
REB06018 - Personal, TWA	Methylene Chloride	1.9
	Acetone	(d)
	Toluene	(d)
	Methyl Ethyl Ketone	(d)
	Isopropyl Alcohol	(d)
	Total HC (as n-Hexane)	3.7
REB06019 - Personal, TWA	Methylene Chloride	3.9
	Acetone	355.0
	Toluene	3.3
	Methyl Ethyl Ketone	<LOQ
	Isopropyl Alcohol	8.4
	Total HC (as n-Hexane)	41.4
REB6010 (A) - Personal, STEL	Methylene Chloride	<4.4
	Total HC (as n-Hexane)	9.8
REB6010 (B) - Personal, STEL	Methanol	<2.9
REB06021 (A) - Personal, STEL	Methylene Chloride	<4.4
	Total HC (as n-Hexane)	<2.4
REB06021 (B) - Personal, STEL	Methanol	<2.9
REB06022 (A) - Field Blank	Methylene Chloride	<LOQ (4.4)
	Total HC (as n-Hexane)	<LOQ (2.4)
REB06022 (B) - Field Blank	Methanol	<LOQ (2.9)

Notes:
mg/m^3 = milligrams per cubic meter
LOQ = Limit of Quantification
STEL = Short term exposure limit
TWA = Time-weighted average
N/A = Not applicable
N/D = Not detected

(a) Isopropyl alcohol, methyl ethyl ketone, toluene, xylenes, and naptha are present at or below limit of quantification levels.
(b) Xylenes and naptha are present at or below limit of quantification levels.
(c) Isopropyl alcohol, xylenes, and naptha are present at or below limit of quantification levels.
(d) Acetone, isopropyl alcohol, methy ethyl ketone, toluene, xylenes, and naptha are present at or below limit of quanitification levels.

Source:
Letter to Romic Environmental Technologies Corp. from Robert Brown & Associates dated March 23, 2006.

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Table 7.1

Summary of Human Health Risk Results

Romic Facility - Chandler, Arizona

Exposure Population	Cancer Risk	Chronic HI	Acute HI
Sensitive Receptor - RME	1.8E-07	0.0012	---
Sensitive Receptor - AEI	4.1E-08	0.00087	---
Off-Site Resident - RME	1.8E-07	0.0012	---
Off-Site Resident - AEI	4.1E-08	0.00087	---
Off-Site Worker (Shift 1) - RME	1.8E-05	0.12	1.6
Off-Site Worker (Shift 1) - AEI	2.8E-06	0.071	1.6
Off-Site Worker (Shift 2) - RME	1.0E-05	0.092	1.0
Off-Site Worker (Shift 2) - AEI	1.6E-06	0.055	1.0
Off-Site Worker (Shift 3) - RME	1.5E-05	0.071	1.5
Off-Site Worker (Shift 3) - AEI	2.3E-06	0.042	1.5

Notes:

AEI = Average Exposed Individual

HI = Hazard Index

RME = Reasonable Maximum Exposure

Table 7.2

Estimated Cancer Risks for an Off-Site Resident by Emission Source – RME

Romic Facility - Chandler, Arizona

Receptor Location ID	Cancer Risk	Emission Source
R2386	8.5E-12	Boilers
R2386	6.7E-11	Distillation Processes
R2386	4.5E-10	Distillation Area
R2386	1.5E-08	Drum Storage Building #1
R2386	6.3E-09	Drum Storage Building #2
R2386	7.1E-10	Drum Sampling
R2386	1.8E-08	Tank Farm A
R2386	6.3E-09	Tank Farm B
R2386	1.7E-09	Tank Farm C1
R2386	3.5E-09	Tank Farm C3
R2386	1.2E-07	Tank Farm D1
R2386	1.0E-11	Tank Farm D3
R2386	1.8E-09	Tank Farm F
R2386	3.7E-10	Fugitive Emissions from Tank Farm A
R2386	4.5E-11	Fugitive Emissions from Tank Farm B
R2386	6.6E-11	Fugitive Emissions from Tank Farm C1
R2386	2.7E-10	Fugitive Emissions from Tank Farm C3
R2386	2.6E-11	Fugitive Emissions from Tank Farm D1
R2386	5.2E-13	Fugitive Emissions from Tank Farm D3
R2386	2.8E-10	Fugitive Emissions from Distillation Processes
R2386	1.2E-12	Fugitive Emissions from Tank Farm F
R2386	---	Labpack Consolidation
R2386	3.1E-10	Laboratory Exhaust
R2386	2.7E-12	Railcar Sampling
R2386	4.8E-11	Tanker Truck Sampling
R2386	1.6E-09	Truck Washout
R2386	8.8E-10	Trough 1
R2386	3.9E-10	Trough 2
R2386	2.7E-11	Trough 3
R2386	3.3E-10	Trough 4
R2386	5.7E-13	Trough 5
Total Cancer Risk:	**1.8E-07**	**All Emission Sources**

Note:

RME = Reasonable Maximum Exposure

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Table 7.3

Estimated Chronic Hazard Indices for an Off-Site Resident by Emission Source – RME

Romic Facility - Chandler, Arizona

Receptor Location ID	Chronic HI	Emission Source
R2386	9.1E-06	Boilers
R2386	2.9E-07	Distillation Processes
R2386	1.6E-06	Distillation Area
R2386	4.3E-05	Drum Storage Building #1
R2386	1.8E-05	Drum Storage Building #2
R2386	2.0E-06	Drum Sampling
R2386	7.1E-05	Tank Farm A
R2386	1.0E-04	Tank Farm B
R2386	7.7E-05	Tank Farm C1
R2386	3.3E-05	Tank Farm C3
R2386	3.7E-04	Tank Farm D1
R2386	7.6E-05	Tank Farm D3
R2386	1.2E-04	Tank Farm F
R2386	1.4E-06	Fugitive Emissions from Tank Farm A
R2386	7.3E-07	Fugitive Emissions from Tank Farm B
R2386	3.0E-06	Fugitive Emissions from Tank Farm C1
R2386	2.5E-06	Fugitive Emissions from Tank Farm C3
R2386	7.8E-08	Fugitive Emissions from Tank Farm D1
R2386	3.8E-06	Fugitive Emissions from Tank Farm D3
R2386	9.7E-07	Fugitive Emissions from Distillation Processes
R2386	8.2E-08	Fugitive Emissions from Tank Farm F
R2386	3.8E-05	Labpack Consolidation
R2386	5.8E-06	Laboratory Exhaust
R2386	8.1E-09	Rail Sampling
R2386	8.9E-07	Tanker Truck Sampling
R2386	2.0E-04	Truck Washout
R2386	6.2E-06	Trough 1
R2386	2.8E-06	Trough 2
R2386	1.2E-06	Trough 3
R2386	3.1E-06	Trough 4
R2386	4.2E-06	Trough 5
Total Chronic HI:	**0.0012**	**All Emission Sources**

Notes:

HI = Hazard Index

RME = Reasonable Maximum Exposure

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Table 7.4a

Estimated Cancer Risk for an Off-Site Worker by Emission Source – RME - Shift 1

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Cancer Risk	Emission Source
Off-Site Worker (Shift-1)	B55	3.4E-11	Boilers
Off-Site Worker (Shift-1)	B55	8.3E-10	Distillation Processes
Off-Site Worker (Shift-1)	B55	2.2E-09	Distillation Area
Off-Site Worker (Shift-1)	B55	1.5E-05	Drum Storage Building #1
Off-Site Worker (Shift-1)	B55	1.6E-07	Drum Storage Building #2
Off-Site Worker (Shift-1)	B55	1.1E-06	Drum Sampling
Off-Site Worker (Shift-1)	B55	2.4E-08	Tank Farm A
Off-Site Worker (Shift-1)	B55	7.8E-09	Tank Farm B
Off-Site Worker (Shift-1)	B55	1.4E-08	Tank Farm C1
Off-Site Worker (Shift-1)	B55	1.6E-08	Tank Farm C3
Off-Site Worker (Shift-1)	B55	1.1E-06	Tank Farm D1
Off-Site Worker (Shift-1)	B55	5.4E-11	Tank Farm D3
Off-Site Worker (Shift-1)	B55	5.5E-08	Tank Farm F
Off-Site Worker (Shift-1)	B55	1.3E-08	Fugitive Emissions from Tank Farm A
Off-Site Worker (Shift-1)	B55	1.1E-09	Fugitive Emissions from Tank Farm B
Off-Site Worker (Shift-1)	B55	4.7E-09	Fugitive Emissions from Tank Farm C1
Off-Site Worker (Shift-1)	B55	8.9E-09	Fugitive Emissions from Tank Farm C3
Off-Site Worker (Shift-1)	B55	2.7E-09	Fugitive Emissions from Tank Farm D1
Off-Site Worker (Shift-1)	B55	2.2E-11	Fugitive Emissions from Tank Farm D3
Off-Site Worker (Shift-1)	B55	4.5E-09	Fugitive Emissions from Distillation Processes
Off-Site Worker (Shift-1)	B55	9.2E-11	Fugitive Emissions from Tank Farm F
Off-Site Worker (Shift-1)	B55	---	Labpack Consolidation
Off-Site Worker (Shift-1)	B55	1.9E-09	Laboratory Exhaust
Off-Site Worker (Shift-1)	B55	8.5E-10	Rail Sampling
Off-Site Worker (Shift-1)	B55	8.9E-10	Tanker Truck Sampling
Off-Site Worker (Shift-1)	B55	4.3E-08	Truck Washout
Off-Site Worker (Shift-1)	B55	2.4E-08	Trough 1
Off-Site Worker (Shift-1)	B55	9.2E-09	Trough 2
Off-Site Worker (Shift-1)	B55	2.1E-09	Trough 3
Off-Site Worker (Shift-1)	B55	1.0E-08	Trough 4
Off-Site Worker (Shift-1)	B55	2.7E-11	Trough 5
Total Cancer Risk for Workers (Shift-1):		**1.8E-05**	**All Emission Sources**

Note:

RME = Reasonable Maximum Exposure

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Table 7.4b

Estimated Cancer Risk for an Off-Site Worker by Emission Source – RME - Shift 2

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Cancer Risk	Emission Source
Off-Site Worker (Shift-2)	B53	2.9E-10	Boilers
Off-Site Worker (Shift-2)	B53	6.8E-09	Distillation Processes
Off-Site Worker (Shift-2)	B53	1.8E-08	Distillation Area
Off-Site Worker (Shift-2)	B53	1.5E-06	Drum Storage Building #1
Off-Site Worker (Shift-2)	B53	1.6E-07	Drum Storage Building #2
Off-Site Worker (Shift-2)	B53	3.4E-07	Drum Sampling
Off-Site Worker (Shift-2)	B53	8.2E-07	Tank Farm A
Off-Site Worker (Shift-2)	B53	2.3E-07	Tank Farm B
Off-Site Worker (Shift-2)	B53	1.1E-07	Tank Farm C1
Off-Site Worker (Shift-2)	B53	1.5E-07	Tank Farm C3
Off-Site Worker (Shift-2)	B53	5.8E-06	Tank Farm D1
Off-Site Worker (Shift-2)	B53	3.9E-10	Tank Farm D3
Off-Site Worker (Shift-2)	B53	5.8E-08	Tank Farm F
Off-Site Worker (Shift-2)	B53	6.6E-08	Fugitive Emissions from Tank Farm A
Off-Site Worker (Shift-2)	B53	4.9E-09	Fugitive Emissions from Tank Farm B
Off-Site Worker (Shift-2)	B53	8.3E-09	Fugitive Emissions from Tank Farm C1
Off-Site Worker (Shift-2)	B53	1.9E-08	Fugitive Emissions from Tank Farm C3
Off-Site Worker (Shift-2)	B53	2.3E-09	Fugitive Emissions from Tank Farm D1
Off-Site Worker (Shift-2)	B53	3.3E-11	Fugitive Emissions from Tank Farm D3
Off-Site Worker (Shift-2)	B53	1.5E-08	Fugitive Emissions from Distillation Processes
Off-Site Worker (Shift-2)	B53	4.5E-11	Fugitive Emissions from Tank Farm F
Off-Site Worker (Shift-2)	B53	---	Labpack Consolidation
Off-Site Worker (Shift-2)	B53	1.3E-08	Laboratory Exhaust
Off-Site Worker (Shift-2)	B53	3.0E-10	Rail Sampling
Off-Site Worker (Shift-2)	B53	4.4E-09	Tanker Truck Sampling
Off-Site Worker (Shift-2)	B53	4.4E-07	Truck Washout
Off-Site Worker (Shift-2)	B53	9.9E-08	Trough 1
Off-Site Worker (Shift-2)	B53	4.0E-08	Trough 2
Off-Site Worker (Shift-2)	B53	4.0E-09	Trough 3
Off-Site Worker (Shift-2)	B53	2.3E-08	Trough 4
Off-Site Worker (Shift-2)	B53	3.4E-11	Trough 5
Total Cancer Risk for Workers (Shift-2):		**1.0E-05**	**All Emission Sources**

Note:

RME = Reasonable Maximum Exposure

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Table 7.4c

Estimated Cancer Risk for an Off-Site Worker by Emission Source – RME - Shift 3

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Cancer Risk	Emission Source
Off-Site Worker (Shift-3)	B40	3.0E-10	Boilers
Off-Site Worker (Shift-3)	B40	4.3E-09	Distillation Processes
Off-Site Worker (Shift-3)	B40	1.7E-08	Distillation Area
Off-Site Worker (Shift-3)	B40	5.4E-07	Drum Storage Building #1
Off-Site Worker (Shift-3)	B40	1.2E-05	Drum Storage Building #2
Off-Site Worker (Shift-3)	B40	9.4E-08	Drum Sampling
Off-Site Worker (Shift-3)	B40	2.3E-07	Tank Farm A
Off-Site Worker (Shift-3)	B40	8.0E-08	Tank Farm B
Off-Site Worker (Shift-3)	B40	3.2E-08	Tank Farm C1
Off-Site Worker (Shift-3)	B40	5.8E-08	Tank Farm C3
Off-Site Worker (Shift-3)	B40	1.4E-06	Tank Farm D1
Off-Site Worker (Shift-3)	B40	1.0E-10	Tank Farm D3
Off-Site Worker (Shift-3)	B40	1.0E-08	Tank Farm F
Off-Site Worker (Shift-3)	B40	1.9E-08	Fugitive Emissions from Tank Farm A
Off-Site Worker (Shift-3)	B40	2.8E-09	Fugitive Emissions from Tank Farm B
Off-Site Worker (Shift-3)	B40	5.9E-09	Fugitive Emissions from Tank Farm C1
Off-Site Worker (Shift-3)	B40	2.9E-08	Fugitive Emissions from Tank Farm C3
Off-Site Worker (Shift-3)	B40	2.8E-09	Fugitive Emissions from Tank Farm D1
Off-Site Worker (Shift-3)	B40	7.6E-11	Fugitive Emissions from Tank Farm D3
Off-Site Worker (Shift-3)	B40	2.2E-08	Fugitive Emissions from Distillation Processes
Off-Site Worker (Shift-3)	B40	2.0E-10	Fugitive Emissions from Tank Farm F
Off-Site Worker (Shift-3)	B40	---	Labpack Consolidation
Off-Site Worker (Shift-3)	B40	3.6E-08	Laboratory Exhaust
Off-Site Worker (Shift-3)	B40	5.7E-11	Rail Sampling
Off-Site Worker (Shift-3)	B40	8.4E-09	Tanker Truck Sampling
Off-Site Worker (Shift-3)	B40	1.5E-07	Truck Washout
Off-Site Worker (Shift-3)	B40	5.8E-08	Trough 1
Off-Site Worker (Shift-3)	B40	2.3E-08	Trough 2
Off-Site Worker (Shift-3)	B40	2.1E-09	Trough 3
Off-Site Worker (Shift-3)	B40	3.4E-08	Trough 4
Off-Site Worker (Shift-3)	B40	1.1E-10	Trough 5
Total Cancer Risk for Workers (Shift-3):		**1.5E-05**	**All Emission Sources**

Note:

RME = Reasonable Maximum Exposure

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Table 7.5a

Estimated Chronic Hazard Indices for an Off-Site Worker by Emission Source – RME - Shift 1

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Chronic HI	Emission Source
Off-Site Worker (Shift-1)	B52	2.9E-04	Boilers
Off-Site Worker (Shift-1)	B52	1.6E-05	Distillation Processes
Off-Site Worker (Shift-1)	B52	7.6E-06	Distillation Area
Off-Site Worker (Shift-1)	B52	3.4E-03	Drum Storage Building #1
Off-Site Worker (Shift-1)	B52	1.9E-03	Drum Storage Building #2
Off-Site Worker (Shift-1)	B52	4.9E-04	Drum Sampling
Off-Site Worker (Shift-1)	B52	2.7E-05	Tank Farm A
Off-Site Worker (Shift-1)	B52	3.8E-05	Tank Farm B
Off-Site Worker (Shift-1)	B52	1.0E-03	Tank Farm C1
Off-Site Worker (Shift-1)	B52	3.8E-04	Tank Farm C3
Off-Site Worker (Shift-1)	B52	4.1E-03	Tank Farm D1
Off-Site Worker (Shift-1)	B52	8.6E-04	Tank Farm D3
Off-Site Worker (Shift-1)	B52	6.8E-03	Tank Farm F
Off-Site Worker (Shift-1)	B52	3.7E-03	Fugitive Emissions from Tank Farm A
Off-Site Worker (Shift-1)	B52	1.2E-03	Fugitive Emissions from Tank Farm B
Off-Site Worker (Shift-1)	B52	1.8E-03	Fugitive Emissions from Tank Farm C1
Off-Site Worker (Shift-1)	B52	1.3E-03	Fugitive Emissions from Tank Farm C3
Off-Site Worker (Shift-1)	B52	2.8E-05	Fugitive Emissions from Tank Farm D1
Off-Site Worker (Shift-1)	B52	1.6E-03	Fugitive Emissions from Tank Farm D3
Off-Site Worker (Shift-1)	B52	1.8E-04	Fugitive Emissions from Distillation Processes
Off-Site Worker (Shift-1)	B52	1.6E-05	Fugitive Emissions from Tank Farm F
Off-Site Worker (Shift-1)	B52	5.1E-02	Labpack Consolidation
Off-Site Worker (Shift-1)	B52	9.4E-05	Laboratory Exhaust
Off-Site Worker (Shift-1)	B52	1.0E-06	Rail Sampling
Off-Site Worker (Shift-1)	B52	2.7E-05	Tanker Truck Sampling
Off-Site Worker (Shift-1)	B52	2.0E-02	Truck Washout
Off-Site Worker (Shift-1)	B52	1.1E-02	Trough 1
Off-Site Worker (Shift-1)	B52	4.7E-03	Trough 2
Off-Site Worker (Shift-1)	B52	6.7E-04	Trough 3
Off-Site Worker (Shift-1)	B52	1.6E-03	Trough 4
Off-Site Worker (Shift-1)	B52	1.6E-03	Trough 5
Total Chronic HI for Workers (Shift-1):		**0.12**	**All Emission Sources**

Notes:

HI = Hazard Index

RME = Reasonable Maximum Exposure

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Table 7.5b

Estimated Chronic Hazard Indices for an Off-Site Worker by Emission Source – RME - Shift 2

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Chronic HI	Emission Source
Off-Site Worker (Shift-2)	B52	5.2E-04	Boilers
Off-Site Worker (Shift-2)	B52	3.6E-05	Distillation Processes
Off-Site Worker (Shift-2)	B52	1.0E-04	Distillation Area
Off-Site Worker (Shift-2)	B52	7.6E-04	Drum Storage Building #1
Off-Site Worker (Shift-2)	B52	4.5E-04	Drum Storage Building #2
Off-Site Worker (Shift-2)	B52	1.6E-04	Drum Sampling
Off-Site Worker (Shift-2)	B52	8.4E-04	Tank Farm A
Off-Site Worker (Shift-2)	B52	1.7E-03	Tank Farm B
Off-Site Worker (Shift-2)	B52	2.6E-03	Tank Farm C1
Off-Site Worker (Shift-2)	B52	1.4E-03	Tank Farm C3
Off-Site Worker (Shift-2)	B52	8.5E-03	Tank Farm D1
Off-Site Worker (Shift-2)	B52	2.3E-03	Tank Farm D3
Off-Site Worker (Shift-2)	B52	2.7E-03	Tank Farm F
Off-Site Worker (Shift-2)	B52	6.6E-04	Fugitive Emissions from Tank Farm A
Off-Site Worker (Shift-2)	B52	3.2E-04	Fugitive Emissions from Tank Farm B
Off-Site Worker (Shift-2)	B52	2.6E-04	Fugitive Emissions from Tank Farm C1
Off-Site Worker (Shift-2)	B52	2.5E-04	Fugitive Emissions from Tank Farm C3
Off-Site Worker (Shift-2)	B52	3.9E-06	Fugitive Emissions from Tank Farm D1
Off-Site Worker (Shift-2)	B52	2.5E-04	Fugitive Emissions from Tank Farm D3
Off-Site Worker (Shift-2)	B52	1.4E-04	Fugitive Emissions from Distillation Processes
Off-Site Worker (Shift-2)	B52	2.3E-06	Fugitive Emissions from Tank Farm F
Off-Site Worker (Shift-2)	B52	7.6E-03	Labpack Consolidation
Off-Site Worker (Shift-2)	B52	3.4E-04	Laboratory Exhaust
Off-Site Worker (Shift-2)	B52	3.4E-07	Rail Sampling
Off-Site Worker (Shift-2)	B52	1.4E-04	Tanker Truck Sampling
Off-Site Worker (Shift-2)	B52	5.5E-02	Truck Washout
Off-Site Worker (Shift-2)	B52	2.0E-03	Trough 1
Off-Site Worker (Shift-2)	B52	1.5E-03	Trough 2
Off-Site Worker (Shift-2)	B52	1.0E-04	Trough 3
Off-Site Worker (Shift-2)	B52	3.8E-04	Trough 4
Off-Site Worker (Shift-2)	B52	2.4E-04	Trough 5
Total Chronic HI for Workers (Shift-2):		**0.092**	**All Emission Sources**

Notes:

HI = Hazard Index

RME = Reasonable Maximum Exposure

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Table 7.5c

Estimated Chronic Hazard Indices for an Off-Site Worker by Emission Source – RME - Shift 3

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Chronic HI	Emission Source
Off-Site Worker (Shift-3)	B37	2.1E-04	Boilers
Off-Site Worker (Shift-3)	B37	2.0E-05	Distillation Processes
Off-Site Worker (Shift-3)	B37	4.9E-05	Distillation Area
Off-Site Worker (Shift-3)	B37	2.6E-03	Drum Storage Building #1
Off-Site Worker (Shift-3)	B37	5.9E-04	Drum Storage Building #2
Off-Site Worker (Shift-3)	B37	3.0E-04	Drum Sampling
Off-Site Worker (Shift-3)	B37	1.1E-03	Tank Farm A
Off-Site Worker (Shift-3)	B37	1.4E-03	Tank Farm B
Off-Site Worker (Shift-3)	B37	1.4E-03	Tank Farm C1
Off-Site Worker (Shift-3)	B37	4.7E-04	Tank Farm C3
Off-Site Worker (Shift-3)	B37	2.9E-03	Tank Farm D1
Off-Site Worker (Shift-3)	B37	4.3E-04	Tank Farm D3
Off-Site Worker (Shift-3)	B37	3.5E-05	Tank Farm F
Off-Site Worker (Shift-3)	B37	1.2E-04	Fugitive Emissions from Tank Farm A
Off-Site Worker (Shift-3)	B37	6.6E-05	Fugitive Emissions from Tank Farm B
Off-Site Worker (Shift-3)	B37	4.8E-04	Fugitive Emissions from Tank Farm C1
Off-Site Worker (Shift-3)	B37	4.1E-04	Fugitive Emissions from Tank Farm C3
Off-Site Worker (Shift-3)	B37	1.8E-05	Fugitive Emissions from Tank Farm D1
Off-Site Worker (Shift-3)	B37	9.3E-04	Fugitive Emissions from Tank Farm D3
Off-Site Worker (Shift-3)	B37	7.8E-05	Fugitive Emissions from Distillation Processes
Off-Site Worker (Shift-3)	B37	3.6E-05	Fugitive Emissions from Tank Farm F
Off-Site Worker (Shift-3)	B37	2.7E-02	Labpack Consolidation
Off-Site Worker (Shift-3)	B37	2.6E-04	Laboratory Exhaust
Off-Site Worker (Shift-3)	B37	2.0E-07	Rail Sampling
Off-Site Worker (Shift-3)	B37	6.9E-05	Tanker Truck Sampling
Off-Site Worker (Shift-3)	B37	2.6E-02	Truck Washout
Off-Site Worker (Shift-3)	B37	6.2E-04	Trough 1
Off-Site Worker (Shift-3)	B37	2.3E-04	Trough 2
Off-Site Worker (Shift-3)	B37	1.6E-04	Trough 3
Off-Site Worker (Shift-3)	B37	4.2E-04	Trough 4
Off-Site Worker (Shift-3)	B37	1.3E-03	Trough 5
Total Chronic HI for Workers (Shift-3):		**0.071**	**All Emission Sources**

Notes:

HI = Hazard Index

RME = Reasonable Maximum Exposure

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Table 7.6
Estimated Acute Hazard Indices for an Individual at the Site Boundary
Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Acute HI
Off-Site Worker (Shift 1)	B36	1.6
Off-Site Worker (Shift 2)	B52	0.95
Off-Site Worker (Shift 3)	B36	1.5

Note:

HI = Hazard Index

Table 7.7

Estimated Acute Hazard Quotients by Source and Chemical - Shift 1 (a)

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Acute HI	Emission Source	Chemical	CAS#
Offsite Worker (RME)	B36	1.2E-04	Distillation Processes	ACETONE	67641
Offsite Worker (RME)	B36	4.9E-05	Distillation Processes	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.6E-03	Distillation Processes	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	2.1E-05	Distillation Processes	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0018**	**Distillation Processes**		
Offsite Worker (RME)	B36	4.7E-05	Distillation Area	ACETONE	67641
Offsite Worker (RME)	B36	2.2E-05	Distillation Area	ALCOHOLS	67630
Offsite Worker (RME)	B36	4.2E-04	Distillation Area	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	7.5E-05	Distillation Area	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.00057**	**Distillation Area**		
Offsite Worker (RME)	B36	1.7E-02	Drum Storage Building #1	ACETONE	67641
Offsite Worker (RME)	B36	7.9E-03	Drum Storage Building #1	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.5E-01	Drum Storage Building #1	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	8.4E-04	Drum Storage Building #1	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.18**	**Drum Storage Building #1**		
Offsite Worker (RME)	B36	2.6E-03	Drum Storage Building #2	ACETONE	67641
Offsite Worker (RME)	B36	1.2E-03	Drum Storage Building #2	ALCOHOLS	67630
Offsite Worker (RME)	B36	2.3E-02	Drum Storage Building #2	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	1.3E-04	Drum Storage Building #2	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.027**	**Drum Storage Building #2**		
Offsite Worker (RME)	B36	7.9E-04	Drum Sampling	ACETONE	67641
Offsite Worker (RME)	B36	3.7E-04	Drum Sampling	ALCOHOLS	67630
Offsite Worker (RME)	B36	7.1E-03	Drum Sampling	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	4.0E-05	Drum Sampling	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0083**	**Drum Sampling**		
Offsite Worker (RME)	B36	1.2E-03	Tank Farm A	ACETONE	67641
Offsite Worker (RME)	B36	4.0E-04	Tank Farm A	ALCOHOLS	67630
Offsite Worker (RME)	B36	8.6E-03	Tank Farm A	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	2.0E-04	Tank Farm A	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.010**	**Tank Farm A**		
Offsite Worker (RME)	B36	1.9E-03	Tank Farm B	ACETONE	67641
Offsite Worker (RME)	B36	5.2E-04	Tank Farm B	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.3E-02	Tank Farm B	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	5.9E-04	Tank Farm B	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.016**	**Tank Farm B**		
Offsite Worker (RME)	B36	4.7E-04	Tank Farm C1	ACETONE	67641
Offsite Worker (RME)	B36	2.4E-04	Tank Farm C1	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.4E-02	Tank Farm C1	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	6.2E-03	Tank Farm C1	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.021**	**Tank Farm C1**		
Offsite Worker (RME)	B36	3.1E-04	Tank Farm C3	ACETONE	67641
Offsite Worker (RME)	B36	1.6E-04	Tank Farm C3	ALCOHOLS	67630
Offsite Worker (RME)	B36	5.7E-03	Tank Farm C3	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	3.1E-04	Tank Farm C3	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0065**	**Tank Farm C3**		
Offsite Worker (RME)	B36	3.6E-03	Tank Farm D1	ACETONE	67641
Offsite Worker (RME)	B36	1.5E-03	Tank Farm D1	ALCOHOLS	67630
Offsite Worker (RME)	B36	3.5E-02	Tank Farm D1	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	7.8E-04	Tank Farm D1	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.040**	**Tank Farm D1**		
Offsite Worker (RME)	B36	2.8E-07	Tank Farm D3	ACETONE	67641
Offsite Worker (RME)	B36	1.3E-07	Tank Farm D3	ALCOHOLS	67630
Offsite Worker (RME)	B36	2.5E-06	Tank Farm D3	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	5.3E-03	Tank Farm D3	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0053**	**Tank Farm D3**		
Offsite Worker (RME)	B36	1.8E-03	Tank Farm F	ACETONE	67641
Offsite Worker (RME)	B36	4.5E-04	Tank Farm F	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.0E-02	Tank Farm F	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	1.2E-02	Tank Farm F	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.025**	**Tank Farm F**		
Offsite Worker (RME)	B36	2.8E-04	Fugitive Emissions from Tank Farm A	ACETONE	67641
Offsite Worker (RME)	B36	9.1E-05	Fugitive Emissions from Tank Farm A	ALCOHOLS	67630
Offsite Worker (RME)	B36	2.0E-03	Fugitive Emissions from Tank Farm A	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	4.6E-05	Fugitive Emissions from Tank Farm A	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0024**	**Fugitive Emissions from Tank Farm A**		

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Table 7.7

Estimated Acute Hazard Quotients by Source and Chemical - Shift 1 (a)

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Acute HI	Emission Source	Chemical	CAS#
Offsite Worker (RME)	B36	1.6E-04	Fugitive Emissions from Tank Farm B	ACETONE	67641
Offsite Worker (RME)	B36	4.4E-05	Fugitive Emissions from Tank Farm B	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.1E-03	Fugitive Emissions from Tank Farm B	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	5.0E-05	Fugitive Emissions from Tank Farm B	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0014**	**Fugitive Emissions from Tank Farm B**		
Offsite Worker (RME)	B36	2.1E-04	Fugitive Emissions from Tank Farm C1	ACETONE	67641
Offsite Worker (RME)	B36	1.1E-04	Fugitive Emissions from Tank Farm C1	ALCOHOLS	67630
Offsite Worker (RME)	B36	6.2E-03	Fugitive Emissions from Tank Farm C1	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	2.8E-03	Fugitive Emissions from Tank Farm C1	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0094**	**Fugitive Emissions from Tank Farm C1**		
Offsite Worker (RME)	B36	3.5E-04	Fugitive Emissions from Tank Farm C3	ACETONE	67641
Offsite Worker (RME)	B36	1.8E-04	Fugitive Emissions from Tank Farm C3	ALCOHOLS	67630
Offsite Worker (RME)	B36	6.6E-03	Fugitive Emissions from Tank Farm C3	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	3.6E-04	Fugitive Emissions from Tank Farm C3	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0074**	**Fugitive Emissions from Tank Farm C3**		
Offsite Worker (RME)	B36	2.2E-05	Fugitive Emissions from Tank Farm D1	ACETONE	67641
Offsite Worker (RME)	B36	9.2E-06	Fugitive Emissions from Tank Farm D1	ALCOHOLS	67630
Offsite Worker (RME)	B36	2.2E-04	Fugitive Emissions from Tank Farm D1	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	4.9E-06	Fugitive Emissions from Tank Farm D1	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.00025**	**Fugitive Emissions from Tank Farm D1**		
Offsite Worker (RME)	B36	6.0E-07	Fugitive Emissions from Tank Farm D3	ACETONE	67641
Offsite Worker (RME)	B36	2.8E-07	Fugitive Emissions from Tank Farm D3	ALCOHOLS	67630
Offsite Worker (RME)	B36	5.3E-06	Fugitive Emissions from Tank Farm D3	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	1.1E-02	Fugitive Emissions from Tank Farm D3	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.011**	**Fugitive Emissions from Tank Farm D3**		
Offsite Worker (RME)	B36	1.9E-05	Fugitive Emissions from Tank Farm F	ACETONE	67641
Offsite Worker (RME)	B36	4.5E-06	Fugitive Emissions from Tank Farm F	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.0E-04	Fugitive Emissions from Tank Farm F	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	1.2E-04	Fugitive Emissions from Tank Farm F	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.00025**	**Fugitive Emissions from Tank Farm F**		
Offsite Worker (RME)	B36	1.5E-04	Fugitive Emissions from Distillation Processes	ACETONE	67641
Offsite Worker (RME)	B36	7.3E-05	Fugitive Emissions from Distillation Processes	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.4E-03	Fugitive Emissions from Distillation Processes	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	2.4E-04	Fugitive Emissions from Distillation Processes	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0018**	**Fugitive Emissions from Distillation Processes**		
Offsite Worker (RME)	B36	5.6E-01	Labpack Consolidation	ACETONE	67641
Offsite Worker (RME)	B36	2.0E-01	Labpack Consolidation	ALCOHOLS	67630
Offsite Worker (RME)	B36	8.2E-03	Labpack Consolidation	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.77**	**Labpack Consolidation**		
Offsite Worker (RME)	B36	3.9E-06	Laboratory Exhaust	ACETONE	67641
Offsite Worker (RME)	B36	2.3E-06	Laboratory Exhaust	ALCOHOLS	67630
Offsite Worker (RME)	B36	2.6E-04	Laboratory Exhaust	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	7.1E-08	Laboratory Exhaust	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.00027**	**Laboratory Exhaust**		
Offsite Worker (RME)	B36	2.6E-06	Rail Sampling	ACETONE	67641
Offsite Worker (RME)	B36	1.1E-06	Rail Sampling	ALCOHOLS	67630
Offsite Worker (RME)	B36	2.5E-05	Rail Sampling	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	1.8E-08	Rail Sampling	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.000029**	**Rail Sampling**		
Offsite Worker (RME)	B36	2.9E-06	Tanker Truck Sampling	ACETONE	67641
Offsite Worker (RME)	B36	1.7E-06	Tanker Truck Sampling	ALCOHOLS	67630
Offsite Worker (RME)	B36	2.0E-04	Tanker Truck Sampling	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	5.3E-08	Tanker Truck Sampling	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.00020**	**Tanker Truck Sampling**		
Offsite Worker (RME)	B36	2.7E-04	Truck Washout	ACETONE	67641
Offsite Worker (RME)	B36	1.7E-04	Truck Washout	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.6E-03	Truck Washout	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	6.3E-02	Truck Washout	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.065**	**Truck Washout**		
Offsite Worker (RME)	B36	1.8E-03	Trough 1	ACETONE	67641
Offsite Worker (RME)	B36	5.3E-04	Trough 1	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.3E-02	Trough 1	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	4.7E-04	Trough 1	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.016**	**Trough 1**		

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Table 7.7

Estimated Acute Hazard Quotients by Source and Chemical - Shift 1 (a)

Romic Facility - Chandler, Arizona

Exposure Population	Receptor Location ID	Acute HI	Emission Source	Chemical	CAS#
Offsite Worker (RME)	B36	6.9E-04	Trough 2	ACETONE	67641
Offsite Worker (RME)	B36	2.0E-04	Trough 2	ALCOHOLS	67630
Offsite Worker (RME)	B36	4.8E-03	Trough 2	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	1.8E-04	Trough 2	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0058**	**Trough 2**		
Offsite Worker (RME)	B36	1.4E-04	Trough 3	ACETONE	67641
Offsite Worker (RME)	B36	7.1E-05	Trough 3	ALCOHOLS	67630
Offsite Worker (RME)	B36	4.1E-03	Trough 3	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	1.8E-03	Trough 3	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.0061**	**Trough 3**		
Offsite Worker (RME)	B36	6.1E-04	Trough 4	ACETONE	67641
Offsite Worker (RME)	B36	3.1E-04	Trough 4	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.1E-02	Trough 4	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	6.2E-04	Trough 4	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source :		**0.013**	**Trough 4**		
Offsite Worker (RME)	B36	1.5E-06	Trough 5	ACETONE	67641
Offsite Worker (RME)	B36	6.8E-07	Trough 5	ALCOHOLS	67630
Offsite Worker (RME)	B36	1.3E-05	Trough 5	METHYLENE CHLORIDE	75092
Offsite Worker (RME)	B36	2.7E-02	Trough 5	STODDARD SOLVENT	8052413
Total Acute HI for Workers (Shift-1) from this source:		**0.027**	**Trough 5**		

Note:

HI = Hazard Index

(a) The table includes only those chemicals with a cumulative acute HI from all sources of over 0.1.

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Table 7.8
On-Site Worker Monitoring Results Compared to Standards
Romic Facility - Chandler, Arizona

Sample #/Type	Analyte	Result (mg/m^3)	PEL (mg/m^3)	STEL (mg/m^3)
REB06001 - Personal , TWA	Methylene Chloride	4.5	87	N/A
	Acetone	8.0	2400	N/A
	Toluene	(a)	47	N/A
	Methyl Ethyl Ketone	(a)	590	N/A
	Isopropyl Alcohol	(a)	980	N/A
	Total HC (as n-Hexane)	10.5 (a)	N/A	N/A
REB06002 - Personal, TWA	Methylene Chloride	2.0	87	N/A
	Acetone	2.9	2400	N/A
	Toluene	(a)	47	N/A
	Methyl Ethyl Ketone	(a)	590	N/A
	Isopropyl Alcohol	(a)	980	N/A
	Total HC (as n-Hexane)	5.4 (a)	N/A	N/A
REB06003 - Personal, TWA	Methylene Chloride	2.4	87	N/A
	Acetone	170	2400	N/A
	Toluene	19.0	47	N/A
	Methyl Ethyl Ketone	13.0	590	N/A
	Isopropyl Alcohol	35.7	980	N/A
	Total HC (as n-Hexane)	28.0 (b)	N/A	N/A
REB06004 - Personal, TWA	Methylene Chloride	<1.4	87	N/A
	Acetone	1.2	2400	N/A
	Toluene	(a)	47	N/A
	Methyl Ethyl Ketone	(a)	590	N/A
	Isopropyl Alcohol	(a)	980	N/A
	Total HC (as n-Hexane)	3.9 (a)	N/A	N/A
REB06005 - Personal, TWA	Methylene Chloride	<1.4	87	N/A
	Acetone	2.8	2400	N/A
	Toluene	(a)	47	N/A
	Methyl Ethyl Ketone	(a)	590	N/A
	Isopropyl Alcohol	(a)	980	N/A
	Total HC (as n-Hexane)	6.3 (a)	N/A	N/A
REB06006 - Personal, TWA	Methylene Chloride	13.1	87	N/A
	Acetone	143	2400	N/A
	Toluene	33.3	47	N/A
	Methyl Ethyl Ketone	23.2	590	N/A
	Isopropyl Alcohol	(c)	980	N/A
	Total HC (as n-Hexane)	59.0 (c)	N/A	N/A
REB06007 - Personal, TWA	Methylene Chloride	<1.4	87	N/A
	Acetone	4.3	2400	N/A
	Toluene	(a)	47	N/A
	Methyl Ethyl Ketone	(a)	590	N/A
	Isopropyl Alcohol	(a)	980	N/A
	Total HC (as n-Hexane)	8.6 (a)	N/A	N/A
REB06008 - Personal, TWA	Methylene Chloride	<1.4	87	N/A
	Acetone	4.8	2400	N/A
	Toluene	(a)	47	N/A
	Methyl Ethyl Ketone	(a)	590	N/A
	Isopropyl Alcohol	(a)	980	N/A
	Total HC (as n-Hexane)	15.6 (a)	N/A	N/A

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Table 7.8
On-Site Worker Monitoring Results Compared to Standards
Romic Facility - Chandler, Arizona

Sample #/Type	Analyte	Result (mg/m^3)	PEL (mg/m^3)	STEL (mg/m^3)
REB06009 - Area, TWA	Methylene Chloride	10.2	87	N/A
	Acetone	213	2400	N/A
	Toluene	60.4	47	N/A
	Methyl Ethyl Ketone	41.4	590	N/A
	Isopropyl Alcohol	53.9	980	N/A
	Total HC (as n-Hexane)	95.3 (b)	N/A	N/A
REB06016 - Field Blank	Methylene Chloride	<LOQ (0.022)	87	N/A
	Acetone	N/D	2400	N/A
	Toluene	N/D	47	N/A
	Methyl Ethyl Ketone	N/D	590	N/A
	Isopropyl Alcohol	N/D	980	N/A
	Total HC (as n-Hexane)	<LOQ (0.011)	N/A	N/A
REB06017 - Personal, TWA	Methylene Chloride	<1.8	87	N/A
	Acetone	1.1	2400	N/A
	Toluene	(a)	47	N/A
	Methyl Ethyl Ketone	(a)	590	N/A
	Isopropyl Alcohol	(a)	980	N/A
	Total HC (as n-Hexane)	2.0	N/A	N/A
REB06018 - Personal, TWA	Methylene Chloride	1.9	87	N/A
	Acetone	(d)	2400	N/A
	Toluene	(d)	47	N/A
	Methyl Ethyl Ketone	(d)	590	N/A
	Isopropyl Alcohol	(d)	980	N/A
	Total HC (as n-Hexane)	3.7	N/A	N/A
REB06019 - Personal, TWA	Methylene Chloride	3.9	87	N/A
	Acetone	355.0	2400	N/A
	Toluene	3.3	47	N/A
	Methyl Ethyl Ketone	<LOQ	590	N/A
	Isopropyl Alcohol	8.4	980	N/A
	Total HC (as n-Hexane)	41.4	N/A	N/A
REB6010 (A) - Personal, STEL	Methylene Chloride	<4.4	N/A	435
	Total HC (as n-Hexane)	9.8	N/A	N/A
REB6010 (B) - Personal, STEL	Methanol	<2.9	N/A	328
REB06021 (A) - Personal, STEL	Methylene Chloride	<4.4	N/A	435
	Total HC (as n-Hexane)	<2.4	N/A	N/A
REB06021 (B) - Personal, STEL	Methanol	<2.9	N/A	328
REB06022 (A) - Field Blank	Methylene Chloride	<LOQ (4.4)	N/A	435
	Total HC (as n-Hexane)	<LOQ (2.4)	N/A	N/A
REB06022 (B) - Field Blank	Methanol	<LOQ (2.9)	N/A	328

Notes:

mg/m^3 = milligrams per cubic me LOQ = Limit of Quantification
N/A = Not applicable STEL = Short term exposure limit
N/D = Not detected TWA = Time-weighted average

(a) Isopropyl alcohol, methyl ethyl ketone, toluene, xylenes, and naptha are present at or below limit of quantification levels.
(b) Xylenes and naptha are present at or below limit of quantification levels.
(c) Isopropyl alcohol, xylenes, and naptha are present at or below limit of quantification levels.
(d) Acetone, isopropyl alcohol, methy ethyl ketone, toluene, xylenes, and naptha are present at or below limit of quanitification levels.

Source:
Letter to Romic Environmental Technologies Corp. from Robert Brown & Associates dated March 23, 2006.

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