

Attachment C  
Level 1 Source Risk Assessment Summary Tables

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Non-Exempt TEUs

TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
				Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr
				RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk
EG-1	Existing Emer. Gen 1	EG-1	5.00	500.0	0.0000710	1000.0	0.0000220	140.0	0.0006600	500.0	7.10E-05	1000.0	2.20E-05	140.0	6.60E-04	140	2.10
	Pollutant	lb/yr	lb/day	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk
	Benzene	1.38E+00	6.92E-02	1.30E-01	7.56E-04	3.30E+00	9.23E-06	1.50E+00	6.09E-04	3.00E+00	3.28E-05	1.30E+01	2.34E-06	1.30E+01	7.03E-05	2.90E+01	5.01E-03
	1,3-Butadiene	1.62E+00	8.08E-02	3.30E-02	3.48E-03	8.60E-01	4.13E-05	4.00E-01	2.67E-03	2.00E+00	5.74E-05	8.80E+00	4.04E-06	8.80E+00	1.21E-04	6.60E+02	2.57E-04
	Cadmium and compounds	1.12E-02	5.58E-04	5.60E-04	1.41E-03	1.40E-02	1.75E-05	6.70E-03	1.10E-03	5.00E-03	1.58E-04	3.70E-02	6.63E-06	3.70E-02	1.99E-04	3.00E-02	3.90E-02
	Formaldehyde	1.28E+01	6.42E-01	1.70E-01	5.36E-03	4.30E+00	6.57E-05	2.00E+00	4.23E-03	9.00E+00	1.01E-04	4.00E+01	7.06E-06	4.00E+01	2.12E-04	4.90E+01	2.75E-02
	Chromium VI, chromate and dichromate particulate	7.43E-04	3.72E-05	3.10E-05	1.70E-03	5.20E-04	3.15E-05	1.00E-03	4.91E-04	8.30E-02	6.36E-07	8.80E-01	1.86E-08	8.80E-01	5.58E-07	3.00E-01	2.60E-04
	Arsenic and compounds	1.19E-02	5.95E-04	2.40E-05	3.52E-02	1.30E-03	2.01E-04	6.20E-04	1.27E-02	1.70E-04	4.97E-03	2.40E-03	1.09E-04	2.40E-03	3.27E-03	2.00E-01	6.24E-03
	Lead and compounds	6.17E-02	3.09E-03		0.00E+00		0.00E+00		0.00E+00	1.50E-01	2.92E-05	6.60E-01	2.06E-06	6.60E-01	6.17E-05	1.50E-01	4.32E-02
	Nickel compounds, insoluble	2.90E-02	1.45E-03	3.80E-03	5.42E-04	1.00E-01	6.38E-06	4.60E-02	4.16E-04	1.40E-02	1.47E-04	6.20E-02	1.03E-05	6.20E-02	3.09E-04	2.00E-01	1.52E-02
	Naphthalene	1.46E-01	7.32E-03	2.90E-02	3.59E-04	7.60E-01	4.24E-06	3.50E-01	2.76E-04	3.70E+00	2.81E-06	1.60E+01	2.01E-07	1.60E+01	6.04E-06	2.00E+02	7.69E-05
	Polycyclic aromatic hydrocarbons (PAHs)	2.69E-01	1.35E-02	4.26E-05	4.48E-01	1.60E-03	3.70E-03	3.00E-03	5.92E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Acetaldehyde	5.82E+00	2.91E-01	4.50E-01	9.19E-04	1.20E+01	1.07E-05	5.50E+00	6.99E-04	1.40E+02	2.95E-06	6.20E+02	2.07E-07	6.20E+02	6.20E-06	4.70E+02	1.30E-03
	Acrolein	2.52E-01	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	5.11E-05	1.50E+00	3.70E-06	1.50E+00	1.11E-04	6.90E+00	3.83E-03
	Ammonia	2.16E+01	1.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+02	3.06E-06	2.20E+03	2.16E-07	2.20E+03	6.47E-06	1.20E+03	1.89E-03
	Copper and compounds	3.05E-02	1.52E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	1.00E+02	3.20E-05
	Ethyl benzene	8.10E-02	4.05E-03	4.00E-01	1.44E-05	1.00E+01	1.78E-07	4.80E+00	1.11E-05	2.60E+02	2.21E-08	1.10E+03	1.62E-09	1.10E+03	4.86E-08	2.20E+04	3.87E-07
	Hexane	2.00E-01	1.00E-02		0.00E+00		0.00E+00		0.00E+00	7.00E+02	2.03E-08	3.10E+03	1.42E-09	3.10E+03	4.26E-08		0.00E+00
	Hydrochloric acid	1.38E+00	6.92E-02		0.00E+00		0.00E+00		0.00E+00	2.00E+01	4.92E-06	8.80E+01	3.46E-07	8.80E+01	1.04E-05	2.10E+03	6.92E-05
	Manganese and compounds	2.30E-02	1.15E-03		0.00E+00		0.00E+00		0.00E+00	9.00E-02	1.82E-05	4.00E-01	1.27E-06	4.00E-01	3.80E-05	3.00E-01	8.07E-03
	Mercury and compounds	1.49E-02	7.43E-04		0.00E+00		0.00E+00		0.00E+00	7.70E-02	1.37E-05	6.30E-01	5.19E-07	6.30E-01	1.56E-05	6.00E-01	2.60E-03
	Selenium and compounds	1.64E-02	8.18E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	2.00E+00	8.59E-04
	Toluene	7.84E-01	3.92E-02		0.00E+00		0.00E+00		0.00E+00	5.00E+03	1.11E-08	2.20E+04	7.84E-10	2.20E+04	2.35E-08	7.50E+03	1.10E-05
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	3.15E-01	1.58E-02		0.00E+00		0.00E+00		0.00E+00	2.20E+02	1.02E-07	9.70E+02	7.15E-09	9.70E+02	2.14E-07	8.70E+03	3.80E-06
	Diesel Particulate Matter	6.74E+01	3.37E+00	1.00E-01	4.78E-02	2.60E+00	5.70E-04	1.20E+00	3.71E-02	5.00E+00	9.57E-04	2.20E+01	6.74E-05	2.20E+01	2.02E-03		0.00E+00
	Isopropyl alcohol				0.00E+00		0.00E+00		0.00E+00	2.00E+02	0.00E+00	8.80E+02	0.00E+00	8.80E+02	0.00E+00	3.20E+03	0.00E+00
	<b>TEU Total Risk</b>				<b>5.46E-01</b>		<b>4.66E-03</b>		<b>1.19E-01</b>		<b>6.55E-03</b>		<b>2.15E-04</b>		<b>6.46E-03</b>		<b>1.55E-01</b>

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Non-Exempt TEUs

TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
				Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr
				RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk
EG-2	New Emer. Gen 2	EG-2	5.00	300.0	0.0001700	1000.0	0.0000220	100.0	0.0012000	300.0	1.70E-04	1000.0	2.20E-05	100.0	1.20E-03	100	3.80
	<b>Pollutant</b>	<b>lb/yr</b>	<b>lb/day</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>
	Benzene	2.57E+00	1.29E-01	1.30E-01	3.36E-03	3.30E+00	1.71E-05	1.50E+00	2.06E-03	3.00E+00	1.46E-04	1.30E+01	4.35E-06	1.30E+01	2.37E-04	2.90E+01	1.68E-02
	1,3-Butadiene	3.00E+00	1.50E-01	3.30E-02	1.55E-02	8.60E-01	7.67E-05	4.00E-01	9.00E-03	2.00E+00	2.55E-04	8.80E+00	7.50E-06	8.80E+00	4.09E-04	6.60E+02	8.64E-04
	Cadmium and compounds	2.07E-02	1.04E-03	5.60E-04	6.28E-03	1.40E-02	3.25E-05	6.70E-03	3.71E-03	5.00E-03	7.04E-04	3.70E-02	1.23E-05	3.70E-02	6.71E-04	3.00E-02	1.31E-01
	Formaldehyde	2.38E+01	1.19E+00	1.70E-01	2.38E-02	4.30E+00	1.22E-04	2.00E+00	1.43E-02	9.00E+00	4.50E-04	4.00E+01	1.31E-05	4.00E+01	7.15E-04	4.90E+01	9.24E-02
	Chromium VI, chromate and dichromate particulate	1.38E-03	6.90E-05	3.10E-05	7.57E-03	5.20E-04	5.84E-05	1.00E-03	1.66E-03	8.30E-02	2.83E-06	8.80E-01	3.45E-08	8.80E-01	1.88E-06	3.00E-01	8.74E-04
	Arsenic and compounds	2.21E-02	1.10E-03	2.40E-05	1.57E-01	1.30E-03	3.74E-04	6.20E-04	4.27E-02	1.70E-04	2.21E-02	2.40E-03	2.02E-04	2.40E-03	1.10E-02	2.00E-01	2.10E-02
	Lead and compounds	1.15E-01	5.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-01	1.30E-04	6.60E-01	3.82E-06	6.60E-01	2.08E-04	1.50E-01	1.45E-01
	Nickel compounds, insoluble	5.38E-02	2.69E-03	3.80E-03	2.41E-03	1.00E-01	1.18E-05	4.60E-02	1.40E-03	1.40E-02	6.54E-04	6.20E-02	1.91E-05	6.20E-02	1.04E-03	2.00E-01	5.11E-02
	Naphthalene	2.72E-01	1.36E-02	2.90E-02	1.59E-03	7.60E-01	7.87E-06	3.50E-01	9.32E-04	3.70E+00	1.25E-05	1.60E+01	3.74E-07	1.60E+01	2.04E-05	2.00E+02	2.58E-04
	Polycyclic aromatic hydrocarbons (PAHs)	5.00E-01	2.50E-02	4.26E-05	1.99E+00	1.60E-03	6.87E-03	3.00E-03	2.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Acetaldehyde	1.08E+01	5.40E-01	4.50E-01	4.08E-03	1.20E+01	1.98E-05	5.50E+00	2.36E-03	1.40E+02	1.31E-05	6.20E+02	3.84E-07	6.20E+02	2.09E-05	4.70E+02	4.37E-03
	Acrolein	4.68E-01	2.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	2.27E-04	1.50E+00	6.86E-06	1.50E+00	3.74E-04	6.90E+00	1.29E-02
	Ammonia	4.00E+01	2.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+02	1.36E-05	2.20E+03	4.00E-07	2.20E+03	2.18E-05	1.20E+03	6.34E-03
	Copper and compounds	5.66E-02	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+02	1.08E-04
	Ethyl benzene	1.50E-01	7.52E-03	4.00E-01	6.39E-05	1.00E+01	3.31E-07	4.80E+00	3.76E-05	2.60E+02	9.84E-08	1.10E+03	3.01E-09	1.10E+03	1.64E-07	2.20E+04	1.30E-06
	Hexane	3.71E-01	1.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E+02	9.02E-08	3.10E+03	2.63E-09	3.10E+03	1.44E-07	0.00E+00	0.00E+00
	Hydrochloric acid	2.57E+00	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+01	2.19E-05	8.80E+01	6.43E-07	8.80E+01	3.51E-05	2.10E+03	2.33E-04
	Manganese and compounds	4.28E-02	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-02	8.08E-05	4.00E-01	2.35E-06	4.00E-01	1.28E-04	3.00E-01	2.71E-02
	Mercury and compounds	2.76E-02	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	6.09E-05	6.30E-01	9.64E-07	6.30E-01	5.26E-05	6.00E-01	8.74E-03
	Selenium and compounds	3.04E-02	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	2.88E-03
	Toluene	1.45E+00	7.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+03	4.95E-08	2.20E+04	1.45E-09	2.20E+04	7.93E-08	7.50E+03	3.68E-05
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	5.85E-01	2.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E+02	4.52E-07	9.70E+02	1.33E-08	9.70E+02	7.24E-07	8.70E+03	1.28E-05
	Diesel Particulate Matter	2.10E+02	1.05E+01	1.00E-01	3.56E-01	2.60E+00	1.77E-03	1.20E+00	2.10E-01	5.00E+00	7.13E-03	2.20E+01	2.10E-04	2.20E+01	1.14E-02	0.00E+00	0.00E+00
	Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+02	0.00E+00	8.80E+02	0.00E+00	8.80E+02	0.00E+00	3.20E+03	0.00E+00
	<b>TEU Total Risk</b>				<b>2.57E+00</b>		<b>9.36E-03</b>		<b>4.88E-01</b>		<b>3.20E-02</b>		<b>4.84E-04</b>		<b>2.64E-02</b>		<b>5.22E-01</b>

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Non-Exempt TEUs

TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
				Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr
				RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk
FWP-1	Existing Fire Water Pump 1	FWP-1	5.00	400.0	0.0001000	1000.0	0.0000220	170.0	0.0004600	400.0	1.00E-04	1000.0	2.20E-05	170.0	4.60E-04	170	1.40
	<b>Pollutant</b>	<b>lb/yr</b>	<b>lb/day</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>
	Benzene	2.29E-01	1.15E-02	1.30E-01	1.76E-04	3.30E+00	1.53E-06	1.50E+00	7.03E-05	3.00E+00	7.64E-06	1.30E+01	3.88E-07	1.30E+01	8.11E-06	2.90E+01	5.53E-04
	1,3-Butadiene	2.67E-01	1.34E-02	3.30E-02	8.10E-04	8.60E-01	6.84E-06	4.00E-01	3.08E-04	2.00E+00	1.34E-05	8.80E+00	6.69E-07	8.80E+00	1.40E-05	6.60E+02	2.84E-05
	Cadmium and compounds	1.85E-03	9.23E-05	5.60E-04	3.29E-04	1.40E-02	2.90E-06	6.70E-03	1.27E-04	5.00E-03	3.69E-05	3.70E-02	1.10E-06	3.70E-02	2.29E-05	3.00E-02	4.31E-03
	Formaldehyde	2.12E+00	1.06E-01	1.70E-01	1.25E-03	4.30E+00	1.09E-05	2.00E+00	4.88E-04	9.00E+00	2.36E-05	4.00E+01	1.17E-06	4.00E+01	2.44E-05	4.90E+01	3.03E-03
	Chromium VI, chromate and dichromate particulate	1.23E-04	6.15E-06	3.10E-05	3.97E-04	5.20E-04	5.20E-06	1.00E-03	5.66E-05	8.30E-02	1.48E-07	8.80E-01	3.08E-09	8.80E-01	6.43E-08	3.00E-01	2.87E-05
	Arsenic and compounds	1.97E-03	9.84E-05	2.40E-05	8.21E-03	1.30E-03	3.33E-05	6.20E-04	1.46E-03	1.70E-04	1.16E-03	2.40E-03	1.80E-05	2.40E-03	3.77E-04	2.00E-01	6.89E-04
	Lead and compounds	1.02E-02	5.10E-04		0.00E+00		0.00E+00		0.00E+00	1.50E-01	6.81E-06	6.60E-01	3.40E-07	6.60E-01	7.12E-06	1.50E-01	4.76E-03
	Nickel compounds, insoluble	4.80E-03	2.40E-04	3.80E-03	1.26E-04	1.00E-01	1.06E-06	4.60E-02	4.80E-05	1.40E-02	3.43E-05	6.20E-02	1.70E-06	6.20E-02	3.56E-05	2.00E-01	1.68E-03
	Naphthalene	2.42E-02	1.21E-03	2.90E-02	8.36E-05	7.60E-01	7.01E-07	3.50E-01	3.18E-05	3.70E+00	6.55E-07	1.60E+01	3.33E-08	1.60E+01	6.97E-07	2.00E+02	8.48E-06
	Polycyclic aromatic hydrocarbons (PAHs)	4.45E-02	2.23E-03	4.26E-05	1.04E-01	1.60E-03	6.12E-04	3.00E-03	6.83E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Acetaldehyde	9.63E-01	4.82E-02	4.50E-01	2.14E-04	1.20E+01	1.77E-06	5.50E+00	8.06E-05	1.40E+02	6.88E-07	6.20E+02	3.42E-08	6.20E+02	7.15E-07	4.70E+02	1.43E-04
	Acrolein	4.17E-02	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	1.19E-05	1.50E+00	6.12E-07	1.50E+00	1.28E-05	6.90E+00	4.23E-04
	Ammonia	3.57E+00	1.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+02	7.13E-07	2.20E+03	3.57E-08	2.20E+03	7.46E-07	1.20E+03	2.08E-04
	Copper and compounds	5.04E-03	2.52E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	1.00E+02	3.53E-06
	Ethyl benzene	1.34E-02	6.70E-04	4.00E-01	3.35E-06	1.00E+01	2.95E-08	4.80E+00	1.28E-06	2.60E+02	5.16E-09	1.10E+03	2.68E-10	1.10E+03	5.61E-09	2.20E+04	4.27E-08
	Hexane	3.31E-02	1.65E-03		0.00E+00		0.00E+00		0.00E+00	7.00E+02	4.73E-09	3.10E+03	2.35E-10	3.10E+03	4.91E-09		0.00E+00
	Hydrochloric acid	2.29E-01	1.15E-02		0.00E+00		0.00E+00		0.00E+00	2.00E+01	1.15E-06	8.80E+01	5.73E-08	8.80E+01	1.20E-06	2.10E+03	7.64E-06
	Manganese and compounds	3.81E-03	1.91E-04		0.00E+00		0.00E+00		0.00E+00	9.00E-02	4.24E-06	4.00E-01	2.10E-07	4.00E-01	4.38E-06	3.00E-01	8.90E-04
	Mercury and compounds	2.46E-03	1.23E-04		0.00E+00		0.00E+00		0.00E+00	7.70E-02	3.19E-06	6.30E-01	8.59E-08	6.30E-01	1.80E-06	6.00E-01	2.87E-04
	Selenium and compounds	2.71E-03	1.35E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	2.00E+00	9.47E-05
	Toluene	1.30E-01	6.48E-03		0.00E+00		0.00E+00		0.00E+00	5.00E+03	2.59E-09	2.20E+04	1.30E-10	2.20E+04	2.71E-09	7.50E+03	1.21E-06
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	5.22E-02	2.61E-03		0.00E+00		0.00E+00		0.00E+00	2.20E+02	2.37E-08	9.70E+02	1.18E-09	9.70E+02	2.47E-08	8.70E+03	4.20E-07
	Diesel Particulate Matter		1.61E+01	1.00E-01	1.61E-02	2.60E+00	1.36E-04	1.20E+00	6.16E-03	5.00E+00	3.21E-04	2.20E+01	1.61E-05	2.20E+01	3.36E-04		0.00E+00
	Isopropyl alcohol				0.00E+00		0.00E+00		0.00E+00	2.00E+02	0.00E+00	8.80E+02	0.00E+00	8.80E+02	0.00E+00	3.20E+03	0.00E+00
	<b>TEU Total Risk</b>				<b>1.32E-01</b>		<b>8.12E-04</b>		<b>1.57E-02</b>		<b>1.62E-03</b>		<b>4.05E-05</b>		<b>8.48E-04</b>		<b>1.71E-02</b>

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Non-Exempt TEUs

TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk			
				Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr		
IPA	New IPA Fugitives	IPA	>20 feet	400	0.0001200	1000.0	0.0000270	100.0	0.0010000	400	1.20E-04	1000.0	2.70E-05	100.0	1.00E-03	100	0.92		
	Pollutant		lb/yr	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk		
	Isopropyl alcohol		1.32E+04		1.05E+02														
	TEU Total Risk				0.00E+00		0.00E+00		0.00E+00		2.00E+02		7.91E-03		8.80E+02		3.20E+03		3.03E-02
					0.00E+00		0.00E+00		0.00E+00		7.91E-03		4.04E-04		1.50E-02		3.03E-02		

Summary				Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
EG-1	Existing Emer. Gen 1	EG-1		5.46E-01		4.66E-03		1.19E-01		6.55E-03		2.15E-04		6.46E-03		1.55E-01	
EG-2	New Emer. Gen 2	EG-2		2.57E+00		9.36E-03		4.88E-01		3.20E-02		4.84E-04		2.64E-02		5.22E-01	
FWP-1	Existing Fire Water Pump 1	FWP-1		1.32E-01		8.12E-04		1.57E-02		1.62E-03		4.05E-05		8.48E-04		1.71E-02	
IPA	New IPA Fugitives	IPA		0.00E+00		0.00E+00		0.00E+00		7.91E-03		4.04E-04		1.50E-02		3.03E-02	
	Facility Wide Total Risk			3.25		0.015		0.62		0.048		0.0011		0.049		0.73	
	Facility Wide Total Risk (rounded per OAR 340-245-0200(4)(a)(B))			3		0.0		1		0		0		0		1	
	Risk Action Level - Community Engagement Level			>5		>5		>5		>1		>1		>1		>1	
	Risk Action Level - TLAER Level			>10		>10		>10		>1		>1		>1		>1	
	Risk Action Level - Permit Denial Level			>25		>25		>25		>1		>1		>1		>1	

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Exempt Natural Gas Combustion TEUs				Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr
<b>BLR-1</b>	<b>Existing NG Boiler #1</b>	<b>BLR-1</b>	<b>10.00</b>	<b>400.0</b>	<b>0.0000980</b>	<b>1000.0</b>	<b>0.0000210</b>	<b>70.0</b>	<b>0.0011000</b>	<b>400.0</b>	<b>9.80E-05</b>	<b>1000.0</b>	<b>2.10E-05</b>	<b>70.0</b>	<b>1.10E-03</b>	<b>70</b>	<b>3.10</b>
	<b>Pollutant</b>	<b>lb/yr</b>	<b>lb/day</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>	<b>RBC</b>	<b>Risk</b>
	Benzene	1.22E+00	3.34E-03	1.30E-01	9.20E-04	3.30E+00	7.77E-06	1.50E+00	8.95E-04	3.00E+00	3.99E-05	1.30E+01	1.97E-06	1.30E+01	1.03E-04	2.90E+01	3.57E-04
	Formaldehyde	2.59E+00	7.09E-03	1.70E-01	1.49E-03	4.30E+00	1.26E-05	2.00E+00	1.42E-03	9.00E+00	2.82E-05	4.00E+01	1.36E-06	4.00E+01	7.12E-05	4.90E+01	4.49E-04
	Polycyclic aromatic hydrocarbons (PAHs)	2.10E-02	5.76E-05	4.26E-05	4.84E-02	1.60E-03	2.76E-04	3.00E-03	7.72E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Naphthalene	6.31E-02	1.73E-04	2.90E-02	2.13E-04	7.60E-01	1.74E-06	3.50E-01	1.98E-04	3.70E+00	1.67E-06	1.60E+01	8.28E-08	1.60E+01	4.34E-06	2.00E+02	2.68E-06
	Acetaldehyde	6.52E-01	1.79E-03	4.50E-01	1.42E-04	1.20E+01	1.14E-06	5.50E+00	1.30E-04	1.40E+02	4.57E-07	6.20E+02	2.21E-08	6.20E+02	1.16E-06	4.70E+02	1.18E-05
	Acrolein	5.68E-01	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	1.59E-04	1.50E+00	7.95E-06	1.50E+00	4.17E-04	6.90E+00	6.99E-04
	Ammonia	6.73E+02	1.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+02	1.32E-04	2.20E+03	6.43E-06	2.20E+03	3.37E-04	1.20E+03	4.77E-03
	Arsenic and compounds	4.21E-02	1.15E-04	2.40E-05	1.72E-01	1.30E-03	6.80E-04	6.20E-04	7.47E-02	1.70E-04	2.43E-02	2.40E-03	3.68E-04	2.40E-03	1.93E-02	2.00E-01	1.79E-03
	Barium and compounds	9.26E-01	2.54E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Beryllium and compounds	2.52E-03	6.92E-06	4.20E-04	5.89E-04	1.10E-02	4.82E-06	5.00E-03	5.55E-04	7.00E-03	3.53E-05	3.10E-02	1.71E-06	3.10E-02	8.96E-05	2.00E-02	1.07E-03
	Cadmium and compounds	2.31E-01	6.34E-04	5.60E-04	4.05E-02	1.40E-02	3.47E-04	6.70E-03	3.80E-02	5.00E-03	4.54E-03	3.70E-02	1.31E-04	3.70E-02	6.88E-03	3.00E-02	6.55E-02
	Chromium VI, chromate and dichromate particulate	2.95E-01	8.07E-04	3.10E-05	9.31E-01	5.20E-04	1.19E-02	1.00E-03	3.24E-01	8.30E-02	3.48E-04	8.80E-01	7.03E-06	8.80E-01	3.68E-04	3.00E-01	8.34E-03
	Cobalt and compounds	1.77E-02	4.84E-05		0.00E+00		0.00E+00		0.00E+00	1.00E-01	1.73E-05	4.40E-01	8.44E-07	4.40E-01	4.42E-05		0.00E+00
	Copper and compounds	1.79E-01	4.90E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	1.00E+02	1.52E-05
	Ethyl benzene	1.45E+00	3.98E-03	4.00E-01	3.56E-04	1.00E+01	3.05E-06	4.80E+00	3.33E-04	2.60E+02	5.47E-07	1.10E+03	2.77E-08	1.10E+03	1.45E-06	2.20E+04	5.60E-07
	Hexane	9.68E-01	2.65E-03		0.00E+00		0.00E+00		0.00E+00	7.00E+02	1.36E-07	3.10E+03	6.56E-09	3.10E+03	3.43E-07		0.00E+00
	Lead and compounds	1.05E-01	2.88E-04		0.00E+00		0.00E+00		0.00E+00	1.50E-01	6.87E-05	6.60E-01	3.35E-06	6.60E-01	1.75E-04	1.50E-01	5.96E-03
	Manganese and compounds	8.00E-02	2.19E-04		0.00E+00		0.00E+00		0.00E+00	9.00E-02	8.71E-05	4.00E-01	4.20E-06	4.00E-01	2.20E-04	3.00E-01	2.26E-03
	Mercury and compounds	5.47E-02	1.50E-04		0.00E+00		0.00E+00		0.00E+00	7.70E-02	6.96E-05	6.30E-01	1.82E-06	6.30E-01	9.55E-05	6.00E-01	7.74E-04
	Molybdenum trioxide	3.47E-01	9.51E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Nickel compounds, insoluble	4.42E-01	1.21E-03	3.80E-03	1.14E-02	1.00E-01	9.28E-05	4.60E-02	1.06E-02	1.40E-02	3.09E-03	6.20E-02	1.50E-04	6.20E-02	7.84E-03	2.00E-01	1.88E-02
	Selenium and compounds	5.05E-03	1.38E-05		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	2.00E+00	2.14E-05
	Toluene	5.58E+00	1.53E-02		0.00E+00		0.00E+00		0.00E+00	5.00E+03	1.09E-07	2.20E+04	5.32E-09	2.20E+04	2.79E-07	7.50E+03	6.31E-06
	Vanadium (fume or dust)	4.84E-01	1.33E-03		0.00E+00		0.00E+00		0.00E+00	1.00E-01	4.74E-04	4.40E-01	2.31E-05	4.40E-01	1.21E-03	8.00E-01	5.14E-03
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	4.15E+00	1.14E-02		0.00E+00		0.00E+00		0.00E+00	2.20E+02	1.85E-06	9.70E+02	8.97E-08	9.70E+02	4.70E-06	8.70E+03	4.05E-06
	Zinc and compounds	6.10E+00	1.67E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	<b>TEU Total Risk</b>				<b>1.21E+00</b>		<b>1.33E-02</b>		<b>4.59E-01</b>		<b>3.34E-02</b>		<b>7.09E-04</b>		<b>3.72E-02</b>		<b>1.16E-01</b>

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Exempt Natural Gas Combustion TEUs

TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
				Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr
				RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk
BLR-2	Existing NG Boiler #2	BLR-2	10.00	400.0	0.0000980	1000.0	0.0000210	80.0	0.0009400	400.0	9.80E-05	1000.0	2.10E-05	80.0	9.40E-04	80	2.80
	<b>Pollutant</b>	<b>lb/yr</b>	<b>lb/day</b>														
	Benzene	1.22E+00	3.34E-03	1.30E-01	9.20E-04	3.30E+00	7.77E-06	1.50E+00	7.65E-04	3.00E+00	3.99E-05	1.30E+01	1.97E-06	1.30E+01	8.82E-05	2.90E+01	3.23E-04
	Formaldehyde	2.59E+00	7.09E-03	1.70E-01	1.49E-03	4.30E+00	1.26E-05	2.00E+00	1.22E-03	9.00E+00	2.82E-05	4.00E+01	1.36E-06	4.00E+01	6.08E-05	4.90E+01	4.05E-04
	Polycyclic aromatic hydrocarbons (PAHs)	2.10E-02	5.76E-05	4.26E-05	4.84E-02	1.60E-03	2.76E-04	3.00E-03	6.59E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Naphthalene	6.31E-02	1.73E-04	2.90E-02	2.13E-04	7.60E-01	1.74E-06	3.50E-01	1.70E-04	3.70E+00	1.67E-06	1.60E+01	8.28E-08	1.60E+01	3.71E-06	2.00E+02	2.42E-06
	Acetaldehyde	6.52E-01	1.79E-03	4.50E-01	1.42E-04	1.20E+01	1.14E-06	5.50E+00	1.11E-04	1.40E+02	4.57E-07	6.20E+02	2.21E-08	6.20E+02	9.89E-07	4.70E+02	1.06E-05
	Acrolein	5.68E-01	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	1.59E-04	1.50E+00	7.95E-06	1.50E+00	3.56E-04	6.90E+00	6.32E-04
	Ammonia	6.73E+02	1.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+02	1.32E-04	2.20E+03	6.43E-06	2.20E+03	2.88E-04	1.20E+03	4.30E-03
	Arsenic and compounds	4.21E-02	1.15E-04	2.40E-05	1.72E-01	1.30E-03	6.80E-04	6.20E-04	6.38E-02	1.70E-04	2.43E-02	2.40E-03	3.68E-04	2.40E-03	1.65E-02	2.00E-01	1.61E-03
	Barium and compounds	9.26E-01	2.54E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Beryllium and compounds	2.52E-03	6.92E-06	4.20E-04	5.89E-04	1.10E-02	4.82E-06	5.00E-03	4.75E-04	7.00E-03	3.53E-05	3.10E-02	1.71E-06	3.10E-02	7.66E-05	2.00E-02	9.68E-04
	Cadmium and compounds	2.31E-01	6.34E-04	5.60E-04	4.05E-02	1.40E-02	3.47E-04	6.70E-03	3.25E-02	5.00E-03	4.54E-03	3.70E-02	1.31E-04	3.70E-02	5.88E-03	3.00E-02	5.92E-02
	Chromium VI, chromate and dichromate particulate	2.95E-01	8.07E-04	3.10E-05	9.31E-01	5.20E-04	1.19E-02	1.00E-03	2.77E-01	8.30E-02	3.48E-04	8.80E-01	7.03E-06	8.80E-01	3.15E-04	3.00E-01	7.53E-03
	Cobalt and compounds	1.77E-02	4.84E-05		0.00E+00		0.00E+00		0.00E+00	1.00E-01	1.73E-05	4.40E-01	8.44E-07	4.40E-01	3.78E-05		0.00E+00
	Copper and compounds	1.79E-01	4.90E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	1.00E+02	1.37E-05
	Ethyl benzene	1.45E+00	3.98E-03	4.00E-01	3.56E-04	1.00E+01	3.05E-06	4.80E+00	2.84E-04	2.60E+02	5.47E-07	1.10E+03	2.77E-08	1.10E+03	1.24E-06	2.20E+04	5.06E-07
	Hexane	9.68E-01	2.65E-03		0.00E+00		0.00E+00		0.00E+00	7.00E+02	1.36E-07	3.10E+03	6.56E-09	3.10E+03	2.93E-07		0.00E+00
	Lead and compounds	1.05E-01	2.88E-04		0.00E+00		0.00E+00		0.00E+00	1.50E-01	6.87E-05	6.60E-01	3.35E-06	6.60E-01	1.50E-04	1.50E-01	5.38E-03
	Manganese and compounds	8.00E-02	2.19E-04		0.00E+00		0.00E+00		0.00E+00	9.00E-02	8.71E-05	4.00E-01	4.20E-06	4.00E-01	1.88E-04	3.00E-01	2.04E-03
	Mercury and compounds	5.47E-02	1.50E-04		0.00E+00		0.00E+00		0.00E+00	7.70E-02	6.96E-05	6.30E-01	1.82E-06	6.30E-01	8.16E-05	6.00E-01	6.99E-04
	Molybdenum trioxide	3.47E-01	9.51E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Nickel compounds, insoluble	4.42E-01	1.21E-03	3.80E-03	1.14E-02	1.00E-01	9.28E-05	4.60E-02	9.03E-03	1.40E-02	3.09E-03	6.20E-02	1.50E-04	6.20E-02	6.70E-03	2.00E-01	1.69E-02
	Selenium and compounds	5.05E-03	1.38E-05		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	2.00E+00	1.94E-05
	Toluene	5.58E+00	1.53E-02		0.00E+00		0.00E+00		0.00E+00	5.00E+03	1.09E-07	2.20E+04	5.32E-09	2.20E+04	2.38E-07	7.50E+03	5.70E-06
	Vanadium (fume or dust)	4.84E-01	1.33E-03		0.00E+00		0.00E+00		0.00E+00	1.00E-01	4.74E-04	4.40E-01	2.31E-05	4.40E-01	1.03E-03	8.00E-01	4.64E-03
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	4.15E+00	1.14E-02		0.00E+00		0.00E+00		0.00E+00	2.20E+02	1.85E-06	9.70E+02	8.97E-08	9.70E+02	4.02E-06	8.70E+03	3.65E-06
	Zinc and compounds	6.10E+00	1.67E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	<b>TEU Total Risk</b>				<b>1.21E+00</b>		<b>1.33E-02</b>		<b>3.92E-01</b>		<b>3.34E-02</b>		<b>7.09E-04</b>		<b>3.17E-02</b>		<b>1.05E-01</b>

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Exempt Natural Gas Combustion TEUs

TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
				Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr
				RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk
BLR-3	New NG Boiler #3	BLR-3	5.00	350.0	0.0001300	1000.0	0.0000210	120.0	0.0008800	350.0	1.30E-04	1000.0	2.10E-05	120.0	8.80E-04	120	2.70
	<b>Pollutant</b>	<b>lb/yr</b>	<b>lb/day</b>														
	Benzene	1.72E-01	4.71E-04	1.30E-01	1.72E-04	3.30E+00	1.09E-06	1.50E+00	1.01E-04	3.00E+00	7.44E-06	1.30E+01	2.77E-07	1.30E+01	1.16E-05	2.90E+01	4.38E-05
	Formaldehyde	3.65E-01	1.00E-03	1.70E-01	2.79E-04	4.30E+00	1.78E-06	2.00E+00	1.61E-04	9.00E+00	5.27E-06	4.00E+01	1.92E-07	4.00E+01	8.03E-06	4.90E+01	5.51E-05
	Polycyclic aromatic hydrocarbons (PAHs)	2.15E-03	5.88E-06	4.26E-05	6.55E-03	1.60E-03	2.82E-05	3.00E-03	6.30E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Naphthalene	6.44E-03	1.76E-05	2.90E-02	2.89E-05	7.60E-01	1.78E-07	3.50E-01	1.62E-05	3.70E+00	2.26E-07	1.60E+01	8.45E-09	1.60E+01	3.54E-07	2.00E+02	2.38E-07
	Acetaldehyde	9.23E-02	2.53E-04	4.50E-01	2.67E-05	1.20E+01	1.62E-07	5.50E+00	1.48E-05	1.40E+02	8.57E-08	6.20E+02	3.13E-09	6.20E+02	1.31E-07	4.70E+02	1.45E-06
	Acrolein	5.80E-02	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	2.15E-05	1.50E+00	8.12E-07	1.50E+00	3.40E-05	6.90E+00	6.21E-05
	Ammonia	6.87E+01	1.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+02	1.79E-05	2.20E+03	6.56E-07	2.20E+03	2.75E-05	1.20E+03	4.24E-04
	Arsenic and compounds	4.29E-03	1.18E-05	2.40E-05	2.33E-02	1.30E-03	6.94E-05	6.20E-04	6.09E-03	1.70E-04	3.28E-03	2.40E-03	3.76E-05	2.40E-03	1.57E-03	2.00E-01	1.59E-04
	Barium and compounds	9.45E-02	2.59E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Beryllium and compounds	2.58E-04	7.06E-07	4.20E-04	7.97E-05	1.10E-02	4.92E-07	5.00E-03	4.53E-05	7.00E-03	4.78E-06	3.10E-02	1.75E-07	3.10E-02	7.31E-06	2.00E-02	9.53E-05
	Cadmium and compounds	2.36E-02	6.47E-05	5.60E-04	5.48E-03	1.40E-02	3.54E-05	6.70E-03	3.10E-03	5.00E-03	6.14E-04	3.70E-02	1.34E-05	3.70E-02	5.62E-04	3.00E-02	5.82E-03
	Chromium VI, chromate and dichromate particulate	3.01E-02	8.24E-05	3.10E-05	1.26E-01	5.20E-04	1.21E-03	1.00E-03	2.65E-02	8.30E-02	4.71E-05	8.80E-01	7.17E-07	8.80E-01	3.01E-05	3.00E-01	7.41E-04
	Cobalt and compounds	1.80E-03	4.94E-06		0.00E+00		0.00E+00		0.00E+00	1.00E-01	2.34E-06	4.40E-01	8.61E-08	4.40E-01	3.61E-06	0.00E+00	0.00E+00
	Copper and compounds	1.83E-02	5.00E-05		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	1.00E+02	1.35E-06
	Ethyl benzene	2.04E-01	5.59E-04	4.00E-01	6.63E-05	1.00E+01	4.28E-07	4.80E+00	3.74E-05	2.60E+02	1.02E-07	1.10E+03	3.89E-09	1.10E+03	1.63E-07	2.20E+04	6.86E-08
	Hexane	1.35E-01	3.71E-04		0.00E+00		0.00E+00		0.00E+00	7.00E+02	2.51E-08	3.10E+03	9.16E-10	3.10E+03	3.84E-08	0.00E+00	0.00E+00
	Lead and compounds	1.07E-02	2.94E-05		0.00E+00		0.00E+00		0.00E+00	1.50E-01	9.30E-06	6.60E-01	3.42E-07	6.60E-01	1.43E-05	1.50E-01	5.29E-04
	Manganese and compounds	8.16E-03	2.24E-05		0.00E+00		0.00E+00		0.00E+00	9.00E-02	1.18E-05	4.00E-01	4.28E-07	4.00E-01	1.79E-05	3.00E-01	2.01E-04
	Mercury and compounds	5.58E-03	1.53E-05		0.00E+00		0.00E+00		0.00E+00	7.70E-02	9.42E-06	6.30E-01	1.86E-07	6.30E-01	7.80E-06	6.00E-01	6.88E-05
	Molybdenum trioxide	3.54E-02	9.71E-05		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Nickel compounds, insoluble	4.51E-02	1.24E-04	3.80E-03	1.54E-03	1.00E-01	9.47E-06	4.60E-02	8.63E-04	1.40E-02	4.19E-04	6.20E-02	1.53E-05	6.20E-02	6.40E-04	2.00E-01	1.67E-03
	Selenium and compounds	5.15E-04	1.41E-06		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	2.00E+00	1.91E-06
	Toluene	7.86E-01	2.15E-03		0.00E+00		0.00E+00		0.00E+00	5.00E+03	2.04E-08	2.20E+04	7.50E-10	2.20E+04	3.14E-08	7.50E+03	7.75E-07
	Vanadium (fume or dust)	4.94E-02	1.35E-04		0.00E+00		0.00E+00		0.00E+00	1.00E-01	6.42E-05	4.40E-01	2.36E-06	4.40E-01	9.88E-05	8.00E-01	4.57E-04
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	5.84E-01	1.60E-03		0.00E+00		0.00E+00		0.00E+00	2.20E+02	3.45E-07	9.70E+02	1.26E-08	9.70E+02	5.30E-07	8.70E+03	4.97E-07
	Zinc and compounds	6.23E-01	1.71E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	<b>TEU Total Risk</b>				<b>1.64E-01</b>		<b>1.36E-03</b>		<b>3.75E-02</b>		<b>4.52E-03</b>		<b>7.25E-05</b>		<b>3.04E-03</b>		<b>1.03E-02</b>



Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Exempt Natural Gas Combustion TEUs

TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
				Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr
				RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk
BLR-4	New NG Boiler #4	BLR-4	5.00	350.0	0.0001300	1000.0	0.0000210	120.0	0.0008800	350.0	1.30E-04	1000.0	2.10E-05	120.0	8.80E-04	120	2.70
	<b>Pollutant</b>	<b>lb/yr</b>	<b>lb/day</b>														
	Benzene	1.72E-01	4.71E-04	1.30E-01	1.72E-04	3.30E+00	1.09E-06	1.50E+00	1.01E-04	3.00E+00	7.44E-06	1.30E+01	2.77E-07	1.30E+01	1.16E-05	2.90E+01	4.38E-05
	Formaldehyde	3.65E-01	1.00E-03	1.70E-01	2.79E-04	4.30E+00	1.78E-06	2.00E+00	1.61E-04	9.00E+00	5.27E-06	4.00E+01	1.92E-07	4.00E+01	8.03E-06	4.90E+01	5.51E-05
	Polycyclic aromatic hydrocarbons (PAHs)	2.15E-03	5.88E-06	4.26E-05	6.55E-03	1.60E-03	2.82E-05	3.00E-03	6.30E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Naphthalene	6.44E-03	1.76E-05	2.90E-02	2.89E-05	7.60E-01	1.78E-07	3.50E-01	1.62E-05	3.70E+00	2.26E-07	1.60E+01	8.45E-09	1.60E+01	3.54E-07	2.00E+02	2.38E-07
	Acetaldehyde	9.23E-02	2.53E-04	4.50E-01	2.67E-05	1.20E+01	1.62E-07	5.50E+00	1.48E-05	1.40E+02	8.57E-08	6.20E+02	3.13E-09	6.20E+02	1.31E-07	4.70E+02	1.45E-06
	Acrolein	5.80E-02	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	2.15E-05	1.50E+00	8.12E-07	1.50E+00	3.40E-05	6.90E+00	6.21E-05
	Ammonia	6.87E+01	1.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+02	1.79E-05	2.20E+03	6.56E-07	2.20E+03	2.75E-05	1.20E+03	4.24E-04
	Arsenic and compounds	4.29E-03	1.18E-05	2.40E-05	2.33E-02	1.30E-03	6.94E-05	6.20E-04	6.09E-03	1.70E-04	3.28E-03	2.40E-03	3.76E-05	2.40E-03	1.57E-03	2.00E-01	1.59E-04
	Barium and compounds	9.45E-02	2.59E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Beryllium and compounds	2.58E-04	7.06E-07	4.20E-04	7.97E-05	1.10E-02	4.92E-07	5.00E-03	4.53E-05	7.00E-03	4.78E-06	3.10E-02	1.75E-07	3.10E-02	7.31E-06	2.00E-02	9.53E-05
	Cadmium and compounds	2.36E-02	6.47E-05	5.60E-04	5.48E-03	1.40E-02	3.54E-05	6.70E-03	3.10E-03	5.00E-03	6.14E-04	3.70E-02	1.34E-05	3.70E-02	5.62E-04	3.00E-02	5.82E-03
	Chromium VI, chromate and dichromate particulate	3.01E-02	8.24E-05	3.10E-05	1.26E-01	5.20E-04	1.21E-03	1.00E-03	2.65E-02	8.30E-02	4.71E-05	8.80E-01	7.17E-07	8.80E-01	3.01E-05	3.00E-01	7.41E-04
	Cobalt and compounds	1.80E-03	4.94E-06		0.00E+00		0.00E+00		0.00E+00	1.00E-01	2.34E-06	4.40E-01	8.61E-08	4.40E-01	3.61E-06	0.00E+00	0.00E+00
	Copper and compounds	1.83E-02	5.00E-05		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	1.00E+02	1.35E-06
	Ethyl benzene	2.04E-01	5.59E-04	4.00E-01	6.63E-05	1.00E+01	4.28E-07	4.80E+00	3.74E-05	2.60E+02	1.02E-07	1.10E+03	3.89E-09	1.10E+03	1.63E-07	2.20E+04	6.86E-08
	Hexane	1.35E-01	3.71E-04		0.00E+00		0.00E+00		0.00E+00	7.00E+02	2.51E-08	3.10E+03	9.16E-10	3.10E+03	3.84E-08	0.00E+00	0.00E+00
	Lead and compounds	1.07E-02	2.94E-05		0.00E+00		0.00E+00		0.00E+00	1.50E-01	9.30E-06	6.60E-01	3.42E-07	6.60E-01	1.43E-05	1.50E-01	5.29E-04
	Manganese and compounds	8.16E-03	2.24E-05		0.00E+00		0.00E+00		0.00E+00	9.00E-02	1.18E-05	4.00E-01	4.28E-07	4.00E-01	1.79E-05	3.00E-01	2.01E-04
	Mercury and compounds	5.58E-03	1.53E-05		0.00E+00		0.00E+00		0.00E+00	7.70E-02	9.42E-06	6.30E-01	1.86E-07	6.30E-01	7.80E-06	6.00E-01	6.88E-05
	Molybdenum trioxide	3.54E-02	9.71E-05		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Nickel compounds, insoluble	4.51E-02	1.24E-04	3.80E-03	1.54E-03	1.00E-01	9.47E-06	4.60E-02	8.63E-04	1.40E-02	4.19E-04	6.20E-02	1.53E-05	6.20E-02	6.40E-04	2.00E-01	1.67E-03
	Selenium and compounds	5.15E-04	1.41E-06		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	2.00E+00	1.91E-06
	Toluene	7.86E-01	2.15E-03		0.00E+00		0.00E+00		0.00E+00	5.00E+03	2.04E-08	2.20E+04	7.50E-10	2.20E+04	3.14E-08	7.50E+03	7.75E-07
	Vanadium (fume or dust)	4.94E-02	1.35E-04		0.00E+00		0.00E+00		0.00E+00	1.00E-01	6.42E-05	4.40E-01	2.36E-06	4.40E-01	9.88E-05	8.00E-01	4.57E-04
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	5.84E-01	1.60E-03		0.00E+00		0.00E+00		0.00E+00	2.20E+02	3.45E-07	9.70E+02	1.26E-08	9.70E+02	5.30E-07	8.70E+03	4.97E-07
	Zinc and compounds	6.23E-01	1.71E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	<b>TEU Total Risk</b>				<b>1.64E-01</b>		<b>1.36E-03</b>		<b>3.75E-02</b>		<b>4.52E-03</b>		<b>7.25E-05</b>		<b>3.04E-03</b>		<b>1.03E-02</b>

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Exempt Natural Gas Combustion TEUs

TEU ID	Emission Unit or Activity Description	Emission Point ID	Discharge Height (m)	Residential Cancer Risk		Non-Residential Child Cancer Risk		Non-Residential Worker Cancer Risk		Residential Non-Cancer Risk		Non-Residential Child Non-Cancer Risk		Non-Residential Worker Non-Cancer Risk		Acute Risk	
				Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Residential Exposure (meters)	Dispersion Factor annual	Closest Child Exposure (meters)	Dispersion Factor annual	Closest Worker Exposure (meters)	Dispersion Factor annual	Closest Any Exposure (meters)	Dispersion Factor 24-hr
				RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk	RBC	Risk
BLR-5	New NG Boiler #5	BLR-5	5.00	300.0	0.0001700	1000.0	0.0000210	120.0	0.0008800	300.0	1.70E-04	1000.0	2.10E-05	120.0	8.80E-04	120	2.70
	<b>Pollutant</b>	<b>lb/yr</b>	<b>lb/day</b>														
	Benzene	1.72E-01	4.71E-04	1.30E-01	2.25E-04	3.30E+00	1.09E-06	1.50E+00	1.01E-04	3.00E+00	9.73E-06	1.30E+01	2.77E-07	1.30E+01	1.16E-05	2.90E+01	4.38E-05
	Formaldehyde	3.65E-01	1.00E-03	1.70E-01	3.65E-04	4.30E+00	1.78E-06	2.00E+00	1.61E-04	9.00E+00	6.89E-06	4.00E+01	1.92E-07	4.00E+01	8.03E-06	4.90E+01	5.51E-05
	Polycyclic aromatic hydrocarbons (PAHs)	2.15E-03	5.88E-06	4.26E-05	8.56E-03	1.60E-03	2.82E-05	3.00E-03	6.30E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Naphthalene	6.44E-03	1.76E-05	2.90E-02	3.78E-05	7.60E-01	1.78E-07	3.50E-01	1.62E-05	3.70E+00	2.96E-07	1.60E+01	8.45E-09	1.60E+01	3.54E-07	2.00E+02	2.38E-07
	Acetaldehyde	9.23E-02	2.53E-04	4.50E-01	3.49E-05	1.20E+01	1.62E-07	5.50E+00	1.48E-05	1.40E+02	1.12E-07	6.20E+02	3.13E-09	6.20E+02	1.31E-07	4.70E+02	1.45E-06
	Acrolein	5.80E-02	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	2.82E-05	1.50E+00	8.12E-07	1.50E+00	3.40E-05	6.90E+00	6.21E-05
	Ammonia	6.87E+01	1.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E+02	2.34E-05	2.20E+03	6.56E-07	2.20E+03	2.75E-05	1.20E+03	4.24E-04
	Arsenic and compounds	4.29E-03	1.18E-05	2.40E-05	3.04E-02	1.30E-03	6.94E-05	6.20E-04	6.09E-03	1.70E-04	4.29E-03	2.40E-03	3.76E-05	2.40E-03	1.57E-03	2.00E-01	1.59E-04
	Barium and compounds	9.45E-02	2.59E-04		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Beryllium and compounds	2.58E-04	7.06E-07	4.20E-04	1.04E-04	1.10E-02	4.92E-07	5.00E-03	4.53E-05	7.00E-03	6.26E-06	3.10E-02	1.75E-07	3.10E-02	7.31E-06	2.00E-02	9.53E-05
	Cadmium and compounds	2.36E-02	6.47E-05	5.60E-04	7.17E-03	1.40E-02	3.54E-05	6.70E-03	3.10E-03	5.00E-03	8.03E-04	3.70E-02	1.34E-05	3.70E-02	5.62E-04	3.00E-02	5.82E-03
	Chromium VI, chromate and dichromate particulate	3.01E-02	8.24E-05	3.10E-05	1.65E-01	5.20E-04	1.21E-03	1.00E-03	2.65E-02	8.30E-02	6.16E-05	8.80E-01	7.17E-07	8.80E-01	3.01E-05	3.00E-01	7.41E-04
	Cobalt and compounds	1.80E-03	4.94E-06		0.00E+00		0.00E+00		0.00E+00	1.00E-01	3.07E-06	4.40E-01	8.61E-08	4.40E-01	3.61E-06	0.00E+00	0.00E+00
	Copper and compounds	1.83E-02	5.00E-05		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	1.00E+02	1.35E-06
	Ethyl benzene	2.04E-01	5.59E-04	4.00E-01	8.67E-05	1.00E+01	4.28E-07	4.80E+00	3.74E-05	2.60E+02	1.33E-07	1.10E+03	3.89E-09	1.10E+03	1.63E-07	2.20E+04	6.86E-08
	Hexane	1.35E-01	3.71E-04		0.00E+00		0.00E+00		0.00E+00	7.00E+02	3.29E-08	3.10E+03	9.16E-10	3.10E+03	3.84E-08	0.00E+00	0.00E+00
	Lead and compounds	1.07E-02	2.94E-05		0.00E+00		0.00E+00		0.00E+00	1.50E-01	1.22E-05	6.60E-01	3.42E-07	6.60E-01	1.43E-05	1.50E-01	5.29E-04
	Manganese and compounds	8.16E-03	2.24E-05		0.00E+00		0.00E+00		0.00E+00	9.00E-02	1.54E-05	4.00E-01	4.28E-07	4.00E-01	1.79E-05	3.00E-01	2.01E-04
	Mercury and compounds	5.58E-03	1.53E-05		0.00E+00		0.00E+00		0.00E+00	7.70E-02	1.23E-05	6.30E-01	1.86E-07	6.30E-01	7.80E-06	6.00E-01	6.88E-05
	Molybdenum trioxide	3.54E-02	9.71E-05		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	Nickel compounds, insoluble	4.51E-02	1.24E-04	3.80E-03	2.02E-03	1.00E-01	9.47E-06	4.60E-02	8.63E-04	1.40E-02	5.48E-04	6.20E-02	1.53E-05	6.20E-02	6.40E-04	2.00E-01	1.67E-03
	Selenium and compounds	5.15E-04	1.41E-06		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	2.00E+00	1.91E-06
	Toluene	7.86E-01	2.15E-03		0.00E+00		0.00E+00		0.00E+00	5.00E+03	2.67E-08	2.20E+04	7.50E-10	2.20E+04	3.14E-08	7.50E+03	7.75E-07
	Vanadium (fume or dust)	4.94E-02	1.35E-04		0.00E+00		0.00E+00		0.00E+00	1.00E-01	8.40E-05	4.40E-01	2.36E-06	4.40E-01	9.88E-05	8.00E-01	4.57E-04
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	5.84E-01	1.60E-03		0.00E+00		0.00E+00		0.00E+00	2.20E+02	4.51E-07	9.70E+02	1.26E-08	9.70E+02	5.30E-07	8.70E+03	4.97E-07
	Zinc and compounds	6.23E-01	1.71E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
	<b>TEU Total Risk</b>				<b>2.14E-01</b>		<b>1.36E-03</b>		<b>3.75E-02</b>		<b>5.91E-03</b>		<b>7.25E-05</b>		<b>3.04E-03</b>		<b>1.03E-02</b>

Genentech Building 20 & 21 Project

Level-1 Risk Assessment - All Exempt Natural Gas Combustion TEUs			Residential Cancer Risk	Non-Residential Child Cancer Risk	Non-Residential Worker Cancer Risk	Residential Non-Cancer Risk	Non-Residential Child Non-Cancer Risk	Non-Residential Worker Non-Cancer Risk	Acute Risk
Summary	Emission Unit or Activity Description	Emission Point ID							
BLR-1	Existing NG Boiler #1	BLR-1	1.21E+00	1.33E-02	4.59E-01	3.34E-02	7.09E-04	3.72E-02	1.16E-01
BLR-2	Existing NG Boiler #2	BLR-2	1.21E+00	1.33E-02	3.92E-01	3.34E-02	7.09E-04	3.17E-02	1.05E-01
BLR-3	New NG Boiler #3	BLR-3	1.64E-01	1.36E-03	3.75E-02	4.52E-03	7.25E-05	3.04E-03	1.03E-02
BLR-4	New NG Boiler #4	BLR-4	1.64E-01	1.36E-03	3.75E-02	4.52E-03	7.25E-05	3.04E-03	1.03E-02
BLR-5	New NG Boiler #5	BLR-5	2.14E-01	1.36E-03	3.75E-02	5.91E-03	7.25E-05	3.04E-03	1.03E-02
<b>Facility Wide Total Risk</b>			2.96	0.031	0.96	0.082	0.0016	0.078	0.25
<b>Facility Wide Total Risk (rounded per OAR 340-245-0200(4)(a)(B))</b>			3	0	1	0	0	0	0