

Appendix B.2 Predicted Impacts of Primary Pollutants at Human Receptors

Table B.2.1 Predicted Annual Average PM₁₀ Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (µg/m ³)	PC as % of EAL	PC (µg/m ³)	Change (µg/m ³)	PC as % of EAL	PEC (µg/m ³)	PEC as % EAL	IAQM Impact	PC (µg/m ³)	PC as % of EAL	PEC (µg/m ³)	PEC % EAL	IAQM Impact
R01	0.02	<0.1%	0.01	-0.008	<0.1%	20.01	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R02	0.02	0.1%	0.01	-0.011	<0.1%	20.01	50.0%	Negligible	0.02	<0.1%	20.02	50.0%	Negligible
R03	0.03	0.1%	0.01	-0.012	<0.1%	20.01	50.0%	Negligible	0.03	0.1%	20.03	50.1%	Negligible
R04	0.03	0.1%	0.01	-0.012	<0.1%	20.01	50.0%	Negligible	0.03	0.1%	20.03	50.1%	Negligible
R05	0.02	0.1%	0.01	-0.009	<0.1%	20.01	50.0%	Negligible	0.02	0.1%	20.02	50.1%	Negligible
R06	0.02	<0.1%	0.01	-0.009	<0.1%	20.01	50.0%	Negligible	0.02	0.1%	20.02	50.1%	Negligible
R07	0.02	<0.1%	0.01	-0.007	<0.1%	20.01	50.0%	Negligible	0.02	<0.1%	20.02	50.0%	Negligible
R08	0.01	<0.1%	0.01	-0.006	<0.1%	20.01	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R09	0.01	<0.1%	<0.01	-0.003	<0.1%	20.00	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R10	0.01	<0.1%	<0.01	-0.003	<0.1%	20.00	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R11	<0.01	<0.1%	<0.01	-0.002	<0.1%	20.00	50.0%	Negligible	<0.01	<0.1%	20.00	50.0%	Negligible
R12	<0.01	<0.1%	<0.01	-0.002	<0.1%	20.00	50.0%	Negligible	<0.01	<0.1%	20.00	50.0%	Negligible
R13	0.01	<0.1%	<0.01	-0.002	<0.1%	20.00	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R14	0.01	<0.1%	<0.01	-0.003	<0.1%	20.00	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R15	0.01	<0.1%	<0.01	-0.004	<0.1%	20.00	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R16	0.01	<0.1%	0.01	-0.006	<0.1%	20.01	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R17	0.01	<0.1%	<0.01	-0.004	<0.1%	20.00	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R18	0.02	0.1%	0.01	-0.010	<0.1%	20.01	50.0%	Negligible	0.03	0.1%	20.03	50.1%	Negligible
R18A	0.02	0.1%	0.01	-0.010	<0.1%	20.01	50.0%	Negligible	0.03	0.1%	20.03	50.1%	Negligible
R19	0.02	0.1%	0.01	-0.011	<0.1%	20.01	50.0%	Negligible	0.03	0.1%	20.03	50.1%	Negligible
R20	0.05	0.1%	0.03	-0.024	0.1%	20.03	50.1%	Negligible	0.05	0.1%	20.05	50.1%	Negligible
R20A	0.05	0.1%	0.03	-0.024	0.1%	20.03	50.1%	Negligible	0.05	0.1%	20.05	50.1%	Negligible
R21	0.04	0.1%	0.02	-0.020	0.1%	20.02	50.1%	Negligible	0.05	0.1%	20.05	50.1%	Negligible
R22	0.05	0.1%	0.03	-0.022	0.1%	20.03	50.1%	Negligible	0.05	0.1%	20.05	50.1%	Negligible
R23	0.04	0.1%	0.02	-0.017	0.1%	20.02	50.1%	Negligible	0.04	0.1%	20.04	50.1%	Negligible
R24	0.01	<0.1%	0.01	-0.006	<0.1%	20.01	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible
R25	0.01	<0.1%	0.01	-0.008	<0.1%	20.01	50.0%	Negligible	0.02	<0.1%	20.02	50.0%	Negligible
R25A	0.02	<0.1%	0.01	-0.008	<0.1%	20.01	50.0%	Negligible	0.02	<0.1%	20.02	50.0%	Negligible
R26	0.03	0.1%	0.02	-0.015	<0.1%	20.02	50.0%	Negligible	0.03	0.1%	20.03	50.1%	Negligible
R27	0.01	<0.1%	0.01	-0.007	<0.1%	20.01	50.0%	Negligible	0.02	<0.1%	20.02	50.0%	Negligible
R28	0.01	<0.1%	0.01	-0.007	<0.1%	20.01	50.0%	Negligible	0.01	<0.1%	20.01	50.0%	Negligible

Table B.2.2 Predicted Annual Average PM_{2.5} Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (µg/m ³)	PC as % of EAL	PC (µg/m ³)	Change (µg/m ³)	PC as % of EAL	PEC (µg/m ³)	PEC as % EAL	IAQM Impact	PC (µg/m ³)	PC as % of EAL	PEC (µg/m ³)	PEC % EAL	IAQM Impact
R01	0.02	0.1%	0.01	-0.008	<0.1%	12.01	60.0%	Negligible	0.01	0.1%	12.01	60.1%	Negligible
R02	0.02	0.1%	0.01	-0.011	0.1%	12.01	60.1%	Negligible	0.02	0.1%	12.02	60.1%	Negligible
R03	0.03	0.1%	0.01	-0.012	0.1%	12.01	60.1%	Negligible	0.03	0.1%	12.03	60.1%	Negligible
R04	0.03	0.1%	0.01	-0.012	0.1%	12.01	60.1%	Negligible	0.03	0.1%	12.03	60.1%	Negligible
R05	0.02	0.1%	0.01	-0.009	0.1%	12.01	60.1%	Negligible	0.02	0.1%	12.02	60.1%	Negligible
R06	0.02	0.1%	0.01	-0.009	<0.1%	12.01	60.0%	Negligible	0.02	0.1%	12.02	60.1%	Negligible
R07	0.02	0.1%	0.01	-0.007	<0.1%	12.01	60.0%	Negligible	0.02	0.1%	12.02	60.1%	Negligible
R08	0.01	0.1%	0.01	-0.006	<0.1%	12.01	60.0%	Negligible	0.01	0.1%	12.01	60.1%	Negligible
R09	0.01	<0.1%	<0.01	-0.003	<0.1%	12.00	60.0%	Negligible	0.01	<0.1%	12.01	60.0%	Negligible
R10	0.01	<0.1%	<0.01	-0.003	<0.1%	12.00	60.0%	Negligible	0.01	<0.1%	12.01	60.0%	Negligible
R11	<0.01	<0.1%	<0.01	-0.002	<0.1%	12.00	60.0%	Negligible	<0.01	<0.1%	12.00	60.0%	Negligible
R12	<0.01	<0.1%	<0.01	-0.002	<0.1%	12.00	60.0%	Negligible	<0.01	<0.1%	12.00	60.0%	Negligible
R13	0.01	<0.1%	<0.01	-0.002	<0.1%	12.00	60.0%	Negligible	0.01	<0.1%	12.01	60.0%	Negligible
R14	0.01	<0.1%	<0.01	-0.003	<0.1%	12.00	60.0%	Negligible	0.01	<0.1%	12.01	60.0%	Negligible
R15	0.01	<0.1%	<0.01	-0.004	<0.1%	12.00	60.0%	Negligible	0.01	<0.1%	12.01	60.0%	Negligible
R16	0.01	0.1%	0.01	-0.006	<0.1%	12.01	60.0%	Negligible	0.01	0.1%	12.01	60.1%	Negligible
R17	0.01	<0.1%	<0.01	-0.004	<0.1%	12.00	60.0%	Negligible	0.01	<0.1%	12.01	60.0%	Negligible
R18	0.02	0.1%	0.01	-0.010	0.1%	12.01	60.1%	Negligible	0.03	0.1%	12.03	60.1%	Negligible
R18A	0.02	0.1%	0.01	-0.010	0.1%	12.01	60.1%	Negligible	0.03	0.1%	12.03	60.1%	Negligible
R19	0.02	0.1%	0.01	-0.011	0.1%	12.01	60.1%	Negligible	0.03	0.1%	12.03	60.1%	Negligible
R20	0.05	0.3%	0.03	-0.024	0.1%	12.03	60.1%	Negligible	0.05	0.3%	12.05	60.3%	Negligible
R20A	0.05	0.3%	0.03	-0.024	0.1%	12.03	60.1%	Negligible	0.05	0.3%	12.05	60.3%	Negligible
R21	0.04	0.2%	0.02	-0.020	0.1%	12.02	60.1%	Negligible	0.05	0.2%	12.05	60.2%	Negligible
R22	0.05	0.2%	0.03	-0.022	0.1%	12.03	60.1%	Negligible	0.05	0.2%	12.05	60.2%	Negligible
R23	0.04	0.2%	0.02	-0.017	0.1%	12.02	60.1%	Negligible	0.04	0.2%	12.04	60.2%	Negligible
R24	0.01	0.1%	0.01	-0.006	<0.1%	12.01	60.0%	Negligible	0.01	0.1%	12.01	60.1%	Negligible
R25	0.01	0.1%	0.01	-0.008	<0.1%	12.01	60.0%	Negligible	0.02	0.1%	12.02	60.1%	Negligible
R25A	0.02	0.1%	0.01	-0.008	<0.1%	12.01	60.0%	Negligible	0.02	0.1%	12.02	60.1%	Negligible
R26	0.03	0.2%	0.02	-0.015	0.1%	12.02	60.1%	Negligible	0.03	0.2%	12.03	60.2%	Negligible
R27	0.01	0.1%	0.01	-0.007	<0.1%	12.01	60.0%	Negligible	0.02	0.1%	12.02	60.1%	Negligible
R28	0.01	0.1%	0.01	-0.007	<0.1%	12.01	60.0%	Negligible	0.01	0.1%	12.01	60.1%	Negligible

Table B.2.3 Predicted Annual Average NO₂ Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (µg/m ³)	PC as % of EAL	PC (µg/m ³)	Change (µg/m ³)	PC as % of EAL	PEC (µg/m ³)	PEC as % EAL	IAQM Impact	PC (µg/m ³)	PC as % of EAL	PEC (µg/m ³)	PEC % EAL	IAQM Impact
R01	0.22	0.6%	0.21	-0.016	0.5%	28.21	70.5%	Negligible	0.27	0.7%	28.27	70.7%	Negligible
R02	0.33	0.8%	0.31	-0.021	0.8%	28.31	70.8%	Negligible	0.39	1.0%	28.39	71.0%	Negligible
R03	0.37	0.9%	0.35	-0.019	0.9%	28.35	70.9%	Negligible	0.48	1.2%	28.48	71.2%	Negligible
R04	0.37	0.9%	0.36	-0.015	0.9%	28.36	70.9%	Negligible	0.50	1.3%	28.50	71.3%	Negligible
R05	0.28	0.7%	0.27	-0.014	0.7%	28.27	70.7%	Negligible	0.40	1.0%	28.40	71.0%	Negligible
R06	0.26	0.6%	0.24	-0.013	0.6%	28.24	70.6%	Negligible	0.36	0.9%	28.36	70.9%	Negligible
R07	0.21	0.5%	0.20	-0.008	0.5%	28.20	70.5%	Negligible	0.29	0.7%	28.29	70.7%	Negligible
R08	0.17	0.4%	0.16	-0.006	0.4%	28.16	70.4%	Negligible	0.23	0.6%	28.23	70.6%	Negligible
R09	0.10	0.2%	0.09	-0.004	0.2%	28.09	70.2%	Negligible	0.13	0.3%	28.13	70.3%	Negligible
R10	0.09	0.2%	0.09	-0.003	0.2%	28.09	70.2%	Negligible	0.12	0.3%	28.12	70.3%	Negligible
R11	0.06	0.2%	0.06	-0.001	0.1%	28.06	70.1%	Negligible	0.08	0.2%	28.08	70.2%	Negligible
R12	0.05	0.1%	0.05	-0.001	0.1%	28.05	70.1%	Negligible	0.07	0.2%	28.07	70.2%	Negligible
R13	0.07	0.2%	0.07	-0.003	0.2%	28.07	70.2%	Negligible	0.10	0.2%	28.10	70.2%	Negligible
R14	0.09	0.2%	0.09	-0.004	0.2%	28.09	70.2%	Negligible	0.13	0.3%	28.13	70.3%	Negligible
R15	0.12	0.3%	0.11	-0.006	0.3%	28.11	70.3%	Negligible	0.16	0.4%	28.16	70.4%	Negligible
R16	0.19	0.5%	0.18	-0.011	0.4%	28.18	70.4%	Negligible	0.25	0.6%	28.25	70.6%	Negligible
R17	0.12	0.3%	0.12	-0.006	0.3%	28.12	70.3%	Negligible	0.16	0.4%	28.16	70.4%	Negligible
R18	0.30	0.8%	0.29	-0.014	0.7%	28.29	70.7%	Negligible	0.44	1.1%	28.44	71.1%	Negligible
R18A	0.31	0.8%	0.29	-0.014	0.7%	28.29	70.7%	Negligible	0.44	1.1%	28.44	71.1%	Negligible
R19	0.34	0.8%	0.32	-0.013	0.8%	28.32	70.8%	Negligible	0.48	1.2%	28.48	71.2%	Negligible
R20	0.75	1.9%	0.72	-0.025	1.8%	28.72	71.8%	Negligible	0.98	2.4%	28.98	72.4%	Negligible
R20A	0.75	1.9%	0.73	-0.025	1.8%	28.73	71.8%	Negligible	0.98	2.5%	28.98	72.5%	Negligible
R21	0.63	1.6%	0.61	-0.021	1.5%	28.61	71.5%	Negligible	0.83	2.1%	28.83	72.1%	Negligible
R22	0.70	1.7%	0.68	-0.017	1.7%	28.68	71.7%	Negligible	0.88	2.2%	28.88	72.2%	Negligible
R23	0.55	1.4%	0.54	-0.010	1.3%	28.54	71.3%	Negligible	0.69	1.7%	28.69	71.7%	Negligible
R24	0.19	0.5%	0.18	-0.010	0.5%	28.18	70.5%	Negligible	0.25	0.6%	28.25	70.6%	Negligible
R25	0.21	0.5%	0.18	-0.030	0.5%	28.18	70.5%	Negligible	0.28	0.7%	28.28	70.7%	Negligible
R25A	0.24	0.6%	0.20	-0.031	0.5%	28.20	70.5%	Negligible	0.31	0.8%	28.31	70.8%	Negligible
R26	0.44	1.1%	0.42	-0.019	1.0%	28.42	71.0%	Negligible	0.60	1.5%	28.60	71.5%	Negligible
R27	0.20	0.5%	0.18	-0.023	0.4%	28.18	70.4%	Negligible	0.27	0.7%	28.27	70.7%	Negligible
R28	0.20	0.5%	0.17	-0.021	0.4%	28.17	70.4%	Negligible	0.26	0.7%	28.26	70.7%	Negligible

Table B.2.4 Predicted Annual Average TOC (as 1,3-butadiene) Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (µg/m ³)	PC as % of EAL	PC (µg/m ³)	Change (µg/m ³)	PC as % of EAL	PEC (µg/m ³)	PEC as % EAL	IAQM Impact	PC (µg/m ³)	PC as % of EAL	PEC (µg/m ³)	PEC % EAL	IAQM Impact
R01	0.02	0.7%	0.02	0.001	0.7%	0.15	6.5%	Negligible	0.03	1.2%	0.16	7.0%	Negligible
R02	0.02	1.0%	0.02	0.001	1.1%	0.15	6.9%	Negligible	0.04	1.8%	0.17	7.5%	Negligible
R03	0.03	1.2%	0.03	0.002	1.2%	0.16	7.0%	Negligible	0.05	2.3%	0.18	8.1%	Negligible
R04	0.03	1.2%	0.03	0.002	1.3%	0.16	7.0%	Negligible	0.06	2.5%	0.19	8.3%	Negligible
R05	0.02	0.9%	0.02	0.001	0.9%	0.15	6.7%	Negligible	0.05	2.1%	0.18	7.9%	Negligible
R06	0.02	0.8%	0.02	0.001	0.9%	0.15	6.6%	Negligible	0.04	1.9%	0.17	7.7%	Negligible
R07	0.01	0.7%	0.02	0.001	0.7%	0.15	6.5%	Negligible	0.03	1.5%	0.16	7.3%	Negligible
R08	0.01	0.5%	0.01	0.001	0.6%	0.14	6.4%	Negligible	0.03	1.2%	0.16	6.9%	Negligible
R09	0.01	0.3%	0.01	<0.001	0.3%	0.14	6.1%	Negligible	0.02	0.7%	0.15	6.5%	Negligible
R10	0.01	0.3%	0.01	0.001	0.3%	0.14	6.1%	Negligible	0.01	0.6%	0.14	6.4%	Negligible
R11	<0.01	0.2%	<0.01	<0.001	0.2%	0.13	6.0%	Negligible	0.01	0.4%	0.14	6.2%	Negligible
R12	<0.01	0.2%	<0.01	<0.001	0.2%	0.13	5.9%	Negligible	0.01	0.3%	0.14	6.1%	Negligible
R13	0.01	0.2%	0.01	<0.001	0.2%	0.14	6.0%	Negligible	0.01	0.5%	0.14	6.3%	Negligible
R14	0.01	0.3%	0.01	<0.001	0.3%	0.14	6.1%	Negligible	0.01	0.7%	0.14	6.4%	Negligible
R15	0.01	0.4%	0.01	<0.001	0.4%	0.14	6.2%	Negligible	0.02	0.8%	0.15	6.6%	Negligible
R16	0.01	0.6%	0.01	0.001	0.6%	0.14	6.4%	Negligible	0.03	1.3%	0.16	7.0%	Negligible
R17	0.01	0.4%	0.01	<0.001	0.4%	0.14	6.2%	Negligible	0.02	0.8%	0.15	6.6%	Negligible
R18	0.02	0.9%	0.02	0.001	1.0%	0.15	6.8%	Negligible	0.05	2.2%	0.18	8.0%	Negligible
R18A	0.02	0.9%	0.02	0.001	1.0%	0.15	6.8%	Negligible	0.05	2.3%	0.18	8.0%	Negligible
R19	0.02	1.1%	0.03	0.002	1.1%	0.16	6.9%	Negligible	0.06	2.5%	0.19	8.3%	Negligible
R20	0.05	2.4%	0.06	0.004	2.5%	0.19	8.3%	Negligible	0.11	4.7%	0.24	10.5%	Negligible
R20A	0.05	2.4%	0.06	0.004	2.6%	0.19	8.3%	Negligible	0.11	4.7%	0.24	10.5%	Negligible
R21	0.04	2.0%	0.05	0.003	2.1%	0.18	7.9%	Negligible	0.09	4.1%	0.22	9.8%	Negligible
R22	0.05	2.2%	0.05	0.004	2.4%	0.18	8.2%	Negligible	0.09	4.1%	0.22	9.9%	Negligible
R23	0.04	1.7%	0.04	0.004	1.9%	0.17	7.7%	Negligible	0.07	3.2%	0.20	9.0%	Negligible
R24	0.01	0.6%	0.01	0.001	0.7%	0.14	6.4%	Negligible	0.03	1.2%	0.16	7.0%	Negligible
R25	0.02	0.7%	0.01	-0.001	0.6%	0.14	6.4%	Negligible	0.03	1.5%	0.16	7.2%	Negligible
R25A	0.02	0.7%	0.02	-0.001	0.7%	0.15	6.5%	Negligible	0.04	1.6%	0.17	7.4%	Negligible
R26	0.03	1.4%	0.03	0.002	1.5%	0.16	7.3%	Negligible	0.07	3.0%	0.20	8.8%	Negligible
R27	0.01	0.6%	0.01	<0.001	0.6%	0.14	6.4%	Negligible	0.03	1.4%	0.16	7.2%	Negligible
R28	0.01	0.6%	0.01	<0.001	0.6%	0.14	6.4%	Negligible	0.03	1.3%	0.16	7.1%	Negligible

Table B.2.5 Predicted Annual Average cadmium Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (ng/m ³)	PC as % of EAL	PC (ng/m ³)	Change (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC as % EAL	IAQM Impact	PC (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC % EAL	IAQM Impact
R01	0.08	1.6%	0.03	-0.047	0.7%	0.37	7.4%	Negligible	0.06	1.1%	0.39	7.9%	Negligible
R02	0.12	2.4%	0.05	-0.069	1.0%	0.39	7.8%	Negligible	0.08	1.6%	0.42	8.4%	Negligible
R03	0.13	2.7%	0.06	-0.077	1.1%	0.39	7.9%	Negligible	0.10	2.1%	0.44	8.8%	Negligible
R04	0.13	2.7%	0.06	-0.077	1.1%	0.40	7.9%	Negligible	0.11	2.2%	0.45	9.0%	Negligible
R05	0.10	2.0%	0.04	-0.058	0.8%	0.38	7.6%	Negligible	0.09	1.9%	0.43	8.7%	Negligible
R06	0.09	1.8%	0.04	-0.053	0.8%	0.38	7.5%	Negligible	0.08	1.7%	0.42	8.5%	Negligible
R07	0.07	1.5%	0.03	-0.043	0.6%	0.37	7.4%	Negligible	0.07	1.3%	0.41	8.1%	Negligible
R08	0.06	1.2%	0.03	-0.034	0.5%	0.36	7.3%	Negligible	0.05	1.1%	0.39	7.8%	Negligible
R09	0.04	0.7%	0.01	-0.020	0.3%	0.35	7.1%	Negligible	0.03	0.6%	0.37	7.4%	Negligible
R10	0.03	0.6%	0.01	-0.018	0.3%	0.35	7.1%	Negligible	0.03	0.5%	0.37	7.3%	Negligible
R11	0.02	0.4%	0.01	-0.012	0.2%	0.35	7.0%	Negligible	0.02	0.4%	0.36	7.1%	Negligible
R12	0.02	0.4%	0.01	-0.010	0.2%	0.35	6.9%	Negligible	0.01	0.3%	0.35	7.1%	Negligible
R13	0.03	0.5%	0.01	-0.015	0.2%	0.35	7.0%	Negligible	0.02	0.4%	0.36	7.2%	Negligible
R14	0.03	0.7%	0.01	-0.019	0.3%	0.35	7.1%	Negligible	0.03	0.6%	0.37	7.4%	Negligible
R15	0.04	0.9%	0.02	-0.025	0.4%	0.36	7.1%	Negligible	0.04	0.7%	0.38	7.5%	Negligible
R16	0.07	1.3%	0.03	-0.039	0.6%	0.37	7.3%	Negligible	0.06	1.1%	0.40	7.9%	Negligible
R17	0.04	0.9%	0.02	-0.026	0.4%	0.36	7.1%	Negligible	0.04	0.7%	0.38	7.5%	Negligible
R18	0.11	2.2%	0.05	-0.062	0.9%	0.38	7.7%	Negligible	0.10	2.0%	0.44	8.8%	Negligible
R18A	0.11	2.2%	0.05	-0.063	0.9%	0.39	7.7%	Negligible	0.10	2.1%	0.44	8.9%	Negligible
R19	0.12	2.4%	0.05	-0.069	1.0%	0.39	7.8%	Negligible	0.11	2.2%	0.45	9.0%	Negligible
R20	0.27	5.3%	0.11	-0.152	2.3%	0.45	9.1%	Negligible	0.21	4.2%	0.55	11.0%	Negligible
R20A	0.27	5.4%	0.12	-0.153	2.3%	0.45	9.1%	Negligible	0.21	4.3%	0.55	11.0%	Negligible
R21	0.22	4.5%	0.10	-0.128	1.9%	0.43	8.7%	Negligible	0.18	3.6%	0.52	10.4%	Negligible
R22	0.25	5.0%	0.11	-0.141	2.2%	0.45	8.9%	Negligible	0.18	3.7%	0.52	10.5%	Negligible
R23	0.19	3.9%	0.08	-0.110	1.7%	0.42	8.5%	Negligible	0.14	2.9%	0.48	9.7%	Negligible
R24	0.07	1.4%	0.03	-0.040	0.6%	0.37	7.4%	Negligible	0.05	1.1%	0.39	7.8%	Negligible
R25	0.08	1.5%	0.03	-0.047	0.6%	0.37	7.4%	Negligible	0.07	1.3%	0.40	8.1%	Negligible
R25A	0.08	1.7%	0.03	-0.052	0.6%	0.37	7.4%	Negligible	0.07	1.4%	0.41	8.2%	Negligible
R26	0.16	3.1%	0.07	-0.090	1.3%	0.41	8.1%	Negligible	0.14	2.7%	0.47	9.5%	Negligible
R27	0.07	1.4%	0.03	-0.043	0.6%	0.37	7.3%	Negligible	0.06	1.2%	0.40	8.0%	Negligible
R28	0.07	1.4%	0.03	-0.042	0.6%	0.37	7.3%	Negligible	0.06	1.2%	0.40	8.0%	Negligible

Table B.2.6 Predicted Annual Average arsenic Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (ng/m ³)	PC as % of EAL	PC (ng/m ³)	Change (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC as % EAL	IAQM Impact	PC (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC % EAL	IAQM Impact
R01	0.04	1.3%	0.04	0.001	1.4%	0.96	32.2%	Negligible	0.07	2.3%	0.99	33.1%	Negligible
R02	0.06	2.0%	0.06	0.002	2.0%	0.98	32.8%	Negligible	0.10	3.3%	1.02	34.1%	Negligible
R03	0.07	2.2%	0.07	0.004	2.3%	0.99	33.1%	Negligible	0.13	4.3%	1.05	35.1%	Negligible
R04	0.07	2.2%	0.07	0.005	2.4%	0.99	33.2%	Negligible	0.14	4.6%	1.06	35.4%	Negligible
R05	0.05	1.7%	0.05	0.003	1.8%	0.98	32.5%	Negligible	0.12	4.0%	1.04	34.7%	Negligible
R06	0.05	1.5%	0.05	0.003	1.6%	0.97	32.4%	Negligible	0.11	3.5%	1.03	34.3%	Negligible
R07	0.04	1.2%	0.04	0.002	1.3%	0.96	32.1%	Negligible	0.08	2.8%	1.01	33.6%	Negligible
R08	0.03	1.0%	0.03	0.002	1.1%	0.96	31.9%	Negligible	0.07	2.2%	0.99	33.0%	Negligible
R09	0.02	0.6%	0.02	0.001	0.6%	0.94	31.4%	Negligible	0.04	1.3%	0.96	32.0%	Negligible
R10	0.02	0.5%	0.02	0.001	0.6%	0.94	31.4%	Negligible	0.03	1.1%	0.96	31.9%	Negligible
R11	0.01	0.4%	0.01	0.001	0.4%	0.94	31.2%	Negligible	0.02	0.7%	0.95	31.5%	Negligible
R12	0.01	0.3%	0.01	0.001	0.3%	0.93	31.1%	Negligible	0.02	0.6%	0.94	31.4%	Negligible
R13	0.01	0.4%	0.01	0.001	0.5%	0.94	31.2%	Negligible	0.03	0.9%	0.95	31.7%	Negligible
R14	0.02	0.6%	0.02	0.001	0.6%	0.94	31.4%	Negligible	0.04	1.2%	0.96	32.0%	Negligible
R15	0.02	0.7%	0.02	0.001	0.7%	0.95	31.5%	Negligible	0.05	1.5%	0.97	32.3%	Negligible
R16	0.03	1.1%	0.03	0.002	1.2%	0.96	31.9%	Negligible	0.07	2.4%	0.99	33.2%	Negligible
R17	0.02	0.7%	0.02	0.001	0.8%	0.95	31.6%	Negligible	0.05	1.5%	0.97	32.3%	Negligible
R18	0.05	1.8%	0.06	0.003	1.9%	0.98	32.7%	Negligible	0.13	4.3%	1.05	35.1%	Negligible
R18A	0.05	1.8%	0.06	0.003	1.9%	0.98	32.7%	Negligible	0.13	4.3%	1.05	35.1%	Negligible
R19	0.06	2.0%	0.06	0.004	2.1%	0.99	32.9%	Negligible	0.14	4.7%	1.06	35.5%	Negligible
R20	0.13	4.4%	0.14	0.010	4.8%	1.07	35.6%	Negligible	0.27	8.8%	1.19	39.6%	Slight adverse
R20A	0.13	4.5%	0.14	0.010	4.8%	1.07	35.6%	Negligible	0.27	8.9%	1.19	39.7%	Slight adverse
R21	0.11	3.7%	0.12	0.008	4.0%	1.04	34.8%	Negligible	0.23	7.6%	1.15	38.4%	Slight adverse
R22	0.12	4.1%	0.13	0.011	4.5%	1.06	35.3%	Negligible	0.23	7.7%	1.15	38.5%	Slight adverse
R23	0.10	3.2%	0.11	0.009	3.5%	1.03	34.3%	Negligible	0.18	6.0%	1.10	36.8%	Slight adverse
R24	0.03	1.2%	0.04	0.002	1.2%	0.96	32.0%	Negligible	0.07	2.2%	0.99	33.0%	Negligible
R25	0.04	1.3%	0.04	-0.002	1.2%	0.96	32.0%	Negligible	0.08	2.8%	1.01	33.5%	Negligible
R25A	0.04	1.4%	0.04	-0.002	1.3%	0.96	32.1%	Negligible	0.09	3.0%	1.01	33.7%	Negligible
R26	0.08	2.6%	0.08	0.005	2.8%	1.01	33.6%	Negligible	0.17	5.7%	1.09	36.5%	Slight adverse
R27	0.04	1.2%	0.03	-0.001	1.2%	0.96	31.9%	Negligible	0.08	2.6%	1.00	33.4%	Negligible
R28	0.03	1.2%	0.03	0.000	1.2%	0.96	31.9%	Negligible	0.08	2.5%	1.00	33.3%	Negligible

Table B.2.7 Predicted Annual Average chromium (VI) Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (ng/m ³)	PC as % of EAL	PC (ng/m ³)	Change (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC as % EAL	IAQM Impact	PC (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC as % EAL	IAQM Impact
R01	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0004	0.2%	0.42	207.9%	Negligible
R02	0.0003	0.2%	0.0003	<0.0001	0.2%	0.42	207.9%	Negligible	0.0005	0.3%	0.42	207.9%	Negligible
R03	0.0003	0.2%	0.0004	<0.0001	0.2%	0.42	207.9%	Negligible	0.0007	0.3%	0.42	208.0%	Negligible
R04	0.0003	0.2%	0.0004	<0.0001	0.2%	0.42	207.9%	Negligible	0.0007	0.4%	0.42	208.1%	Negligible
R05	0.0003	0.1%	0.0003	<0.0001	0.1%	0.42	207.8%	Negligible	0.0006	0.3%	0.42	208.0%	Negligible
R06	0.0002	0.1%	0.0003	<0.0001	0.1%	0.42	207.8%	Negligible	0.0005	0.3%	0.42	208.0%	Negligible
R07	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0004	0.2%	0.42	207.9%	Negligible
R08	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0003	0.2%	0.42	207.9%	Negligible
R09	0.0001	<0.1%	0.0001	<0.0001	<0.1%	0.42	207.7%	Negligible	0.0002	0.1%	0.42	207.8%	Negligible
R10	0.0001	<0.1%	0.0001	<0.0001	<0.1%	0.42	207.7%	Negligible	0.0002	0.1%	0.42	207.8%	Negligible
R11	0.0001	<0.1%	0.0001	<0.0001	<0.1%	0.42	207.7%	Negligible	0.0001	0.1%	0.42	207.8%	Negligible
R12	0.0000	<0.1%	0.0000	<0.0001	<0.1%	0.42	207.7%	Negligible	0.0001	<0.1%	0.42	207.7%	Negligible
R13	0.0001	<0.1%	0.0001	<0.0001	<0.1%	0.42	207.7%	Negligible	0.0001	0.1%	0.42	207.8%	Negligible
R14	0.0001	<0.1%	0.0001	<0.0001	<0.1%	0.42	207.7%	Negligible	0.0002	0.1%	0.42	207.8%	Negligible
R15	0.0001	0.1%	0.0001	<0.0001	0.1%	0.42	207.8%	Negligible	0.0002	0.1%	0.42	207.8%	Negligible
R16	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0004	0.2%	0.42	207.9%	Negligible
R17	0.0001	0.1%	0.0001	<0.0001	0.1%	0.42	207.8%	Negligible	0.0002	0.1%	0.42	207.8%	Negligible
R18	0.0003	0.1%	0.0003	<0.0001	0.1%	0.42	207.8%	Negligible	0.0007	0.3%	0.42	208.0%	Negligible
R18A	0.0003	0.1%	0.0003	<0.0001	0.2%	0.42	207.8%	Negligible	0.0007	0.3%	0.42	208.0%	Negligible
R19	0.0003	0.2%	0.0003	<0.0001	0.2%	0.42	207.9%	Negligible	0.0007	0.4%	0.42	208.1%	Negligible
R20	0.0007	0.3%	0.0007	0.0001	0.4%	0.42	208.1%	Negligible	0.0014	0.7%	0.42	208.4%	Moderate adverse
R20A	0.0007	0.3%	0.0007	0.0001	0.4%	0.42	208.1%	Negligible	0.0014	0.7%	0.42	208.4%	Moderate adverse
R21	0.0006	0.3%	0.0006	<0.0001	0.3%	0.42	208.0%	Negligible	0.0012	0.6%	0.42	208.3%	Moderate adverse
R22	0.0006	0.3%	0.0007	0.0001	0.4%	0.42	208.0%	Negligible	0.0012	0.6%	0.42	208.3%	Moderate adverse
R23	0.0005	0.3%	0.0006	<0.0001	0.3%	0.42	208.0%	Negligible	0.0009	0.5%	0.42	208.2%	Negligible
R24	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0003	0.2%	0.42	207.9%	Negligible
R25	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0004	0.2%	0.42	207.9%	Negligible
R25A	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0005	0.2%	0.42	207.9%	Negligible
R26	0.0004	0.2%	0.0004	<0.0001	0.2%	0.42	207.9%	Negligible	0.0009	0.4%	0.42	208.1%	Negligible
R27	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0004	0.2%	0.42	207.9%	Negligible
R28	0.0002	0.1%	0.0002	<0.0001	0.1%	0.42	207.8%	Negligible	0.0004	0.2%	0.42	207.9%	Negligible

Table B.2.8 Predicted Annual Average nickel Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (ng/m ³)	PC as % of EAL	PC (ng/m ³)	Change (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC as % EAL	IAQM Impact	PC (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC as % EAL	IAQM Impact
R01	0.35	1.8%	0.36	0.011	1.8%	1.63	8.1%	Negligible	0.61	3.0%	1.87	9.4%	Negligible
R02	0.52	2.6%	0.54	0.021	2.7%	1.81	9.0%	Negligible	0.87	4.3%	2.14	10.7%	Negligible
R03	0.59	2.9%	0.62	0.032	3.1%	1.88	9.4%	Negligible	1.13	5.7%	2.40	12.0%	Slight adverse
R04	0.59	2.9%	0.63	0.040	3.1%	1.90	9.5%	Negligible	1.23	6.1%	2.49	12.5%	Slight adverse
R05	0.44	2.2%	0.47	0.024	2.3%	1.73	8.7%	Negligible	1.04	5.2%	2.31	11.6%	Negligible
R06	0.40	2.0%	0.42	0.022	2.1%	1.69	8.5%	Negligible	0.93	4.6%	2.20	11.0%	Negligible
R07	0.33	1.6%	0.35	0.022	1.7%	1.62	8.1%	Negligible	0.74	3.7%	2.01	10.0%	Negligible
R08	0.26	1.3%	0.28	0.019	1.4%	1.55	7.7%	Negligible	0.58	2.9%	1.84	9.2%	Negligible
R09	0.15	0.8%	0.16	0.009	0.8%	1.43	7.1%	Negligible	0.33	1.7%	1.60	8.0%	Negligible
R10	0.14	0.7%	0.15	0.011	0.8%	1.42	7.1%	Negligible	0.30	1.5%	1.56	7.8%	Negligible
R11	0.10	0.5%	0.10	0.009	0.5%	1.37	6.8%	Negligible	0.20	1.0%	1.46	7.3%	Negligible
R12	0.08	0.4%	0.08	0.007	0.4%	1.35	6.7%	Negligible	0.16	0.8%	1.43	7.1%	Negligible
R13	0.11	0.6%	0.12	0.008	0.6%	1.39	6.9%	Negligible	0.24	1.2%	1.51	7.5%	Negligible
R14	0.15	0.7%	0.16	0.009	0.8%	1.42	7.1%	Negligible	0.32	1.6%	1.59	7.9%	Negligible
R15	0.19	0.9%	0.20	0.010	1.0%	1.46	7.3%	Negligible	0.40	2.0%	1.67	8.3%	Negligible
R16	0.29	1.5%	0.31	0.014	1.5%	1.57	7.9%	Negligible	0.63	3.1%	1.89	9.5%	Negligible
R17	0.20	1.0%	0.21	0.010	1.0%	1.47	7.4%	Negligible	0.40	2.0%	1.67	8.3%	Negligible
R18	0.48	2.4%	0.50	0.029	2.5%	1.77	8.9%	Negligible	1.13	5.6%	2.39	12.0%	Slight adverse
R18A	0.48	2.4%	0.51	0.029	2.6%	1.78	8.9%	Negligible	1.14	5.7%	2.41	12.0%	Slight adverse
R19	0.53	2.7%	0.57	0.036	2.8%	1.83	9.2%	Negligible	1.24	6.2%	2.50	12.5%	Slight adverse
R20	1.17	5.9%	1.26	0.087	6.3%	2.53	12.6%	Slight adverse	2.34	11.7%	3.60	18.0%	Moderate adverse
R20A	1.18	5.9%	1.27	0.088	6.3%	2.53	12.7%	Slight adverse	2.35	11.7%	3.62	18.1%	Moderate adverse
R21	0.98	4.9%	1.06	0.073	5.3%	2.32	11.6%	Negligible	2.01	10.0%	3.27	16.4%	Slight adverse
R22	1.09	5.5%	1.19	0.093	5.9%	2.45	12.3%	Slight adverse	2.03	10.2%	3.30	16.5%	Slight adverse
R23	0.86	4.3%	0.93	0.078	4.7%	2.20	11.0%	Negligible	1.58	7.9%	2.85	14.3%	Slight adverse
R24	0.31	1.5%	0.32	0.016	1.6%	1.59	7.9%	Negligible	0.58	2.9%	1.85	9.2%	Negligible
R25	0.33	1.7%	0.32	-0.016	1.6%	1.58	7.9%	Negligible	0.73	3.6%	1.99	10.0%	Negligible
R25A	0.37	1.8%	0.36	-0.014	1.8%	1.62	8.1%	Negligible	0.78	3.9%	2.05	10.2%	Negligible
R26	0.69	3.4%	0.73	0.043	3.7%	2.00	10.0%	Negligible	1.50	7.5%	2.76	13.8%	Slight adverse
R27	0.31	1.6%	0.31	-0.006	1.5%	1.57	7.9%	Negligible	0.68	3.4%	1.95	9.8%	Negligible
R28	0.31	1.5%	0.30	-0.003	1.5%	1.57	7.9%	Negligible	0.66	3.3%	1.93	9.6%	Negligible

Table B.2.9 Predicted Annual Average PAH (as BaP) Impacts from RRRF post-ROP at Receptor Locations

Receptor	Current RRRF		RRRF post-ROP						Cumulative - RRRF post ROP + REP				
	PC (ng/m ³)	PC as % of EAL	PC (ng/m ³)	Change (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC as % EAL	IAQM Impact	PC (ng/m ³)	PC as % of EAL	PEC (ng/m ³)	PEC as % EAL	IAQM Impact
R01	0.0001	0.1%	0.0003	0.0001	0.1%	0.16	64.1%	Negligible	0.0004	0.2%	0.16	64.2%	Negligible
R02	0.0002	0.1%	0.0004	0.0002	0.2%	0.16	64.2%	Negligible	0.0006	0.2%	0.16	64.2%	Negligible
R03	0.0002	0.1%	0.0004	0.0002	0.2%	0.16	64.2%	Negligible	0.0008	0.3%	0.16	64.3%	Negligible
R04	0.0002	0.1%	0.0004	0.0002	0.2%	0.16	64.2%	Negligible	0.0009	0.3%	0.16	64.3%	Negligible
R05	0.0002	0.1%	0.0003	0.0001	0.1%	0.16	64.1%	Negligible	0.0007	0.3%	0.16	64.3%	Negligible
R06	0.0002	0.1%	0.0003	0.0001	0.1%	0.16	64.1%	Negligible	0.0007	0.3%	0.16	64.3%	Negligible
R07	0.0001	0.1%	0.0002	0.0001	0.1%	0.16	64.1%	Negligible	0.0005	0.2%	0.16	64.2%	Negligible
R08	0.0001	0.0%	0.0002	0.0001	0.1%	0.16	64.1%	Negligible	0.0004	0.2%	0.16	64.2%	Negligible
R09	0.0001	0.0%	0.0001	<0.0001	0.0%	0.16	64.0%	Negligible	0.0002	0.1%	0.16	64.1%	Negligible
R10	0.0001	0.0%	0.0001	<0.0001	0.0%	0.16	64.0%	Negligible	0.0002	0.1%	0.16	64.1%	Negligible
R11	0.0000	0.0%	0.0001	<0.0001	0.0%	0.16	64.0%	Negligible	0.0001	0.1%	0.16	64.1%	Negligible
R12	<0.0001	0.0%	0.0001	<0.0001	0.0%	0.16	64.0%	Negligible	0.0001	0.0%	0.16	64.0%	Negligible
R13	<0.0001	0.0%	0.0001	<0.0001	0.0%	0.16	64.0%	Negligible	0.0002	0.1%	0.16	64.1%	Negligible
R14	0.0001	0.0%	0.0001	<0.0001	0.0%	0.16	64.0%	Negligible	0.0002	0.1%	0.16	64.1%	Negligible
R15	0.0001	0.0%	0.0001	0.0001	0.1%	0.16	64.1%	Negligible	0.0003	0.1%	0.16	64.1%	Negligible
R16	0.0001	0.0%	0.0002	0.0001	0.1%	0.16	64.1%	Negligible	0.0004	0.2%	0.16	64.2%	Negligible
R17	0.0001	0.0%	0.0001	0.0001	0.1%	0.16	64.1%	Negligible	0.0003	0.1%	0.16	64.1%	Negligible
R18	0.0002	0.1%	0.0004	0.0002	0.1%	0.16	64.1%	Negligible	0.0008	0.3%	0.16	64.3%	Negligible
R18A	0.0002	0.1%	0.0004	0.0002	0.1%	0.16	64.1%	Negligible	0.0008	0.3%	0.16	64.3%	Negligible
R19	0.0002	0.1%	0.0004	0.0002	0.2%	0.16	64.2%	Negligible	0.0009	0.3%	0.16	64.3%	Negligible
R20	0.0005	0.2%	0.0009	0.0004	0.4%	0.16	64.4%	Negligible	0.0016	0.7%	0.16	64.7%	Negligible
R20A	0.0005	0.2%	0.0009	0.0004	0.4%	0.16	64.4%	Negligible	0.0016	0.7%	0.16	64.7%	Negligible
R21	0.0004	0.2%	0.0007	0.0003	0.3%	0.16	64.3%	Negligible	0.0014	0.6%	0.16	64.6%	Negligible
R22	0.0005	0.2%	0.0008	0.0004	0.3%	0.16	64.3%	Negligible	0.0014	0.6%	0.16	64.6%	Negligible
R23	0.0004	0.1%	0.0007	0.0003	0.3%	0.16	64.3%	Negligible	0.0011	0.4%	0.16	64.4%	Negligible
R24	0.0001	0.1%	0.0002	0.0001	0.1%	0.16	64.1%	Negligible	0.0004	0.2%	0.16	64.2%	Negligible
R25	0.0001	0.1%	0.0002	0.0001	0.1%	0.16	64.1%	Negligible	0.0005	0.2%	0.16	64.2%	Negligible
R25A	0.0002	0.1%	0.0002	0.0001	0.1%	0.16	64.1%	Negligible	0.0005	0.2%	0.16	64.2%	Negligible
R26	0.0003	0.1%	0.0005	0.0002	0.2%	0.16	64.2%	Negligible	0.0010	0.4%	0.16	64.4%	Negligible
R27	0.0001	0.1%	0.0002	0.0001	0.1%	0.16	64.1%	Negligible	0.0005	0.2%	0.16	64.2%	Negligible
R28	0.0001	0.1%	0.0002	0.0001	0.1%	0.16	64.1%	Negligible	0.0005	0.2%	0.16	64.2%	Negligible