

APPENDIX H

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Area 1

Summary of Remedial targets for Groundwater

Common parameters		Distance to compliance point (m)							
		650							
		Groundwater velocity (m/d)	0.080854779						
		Groundwater travel time (d)	8039.10429						
Contaminant	Maximum concentration at source (mg/l)	Target concentration (mg/l)	Retardation factor	Contaminant velocity (m/d)	Contaminant travel time (d)	Half life (d)	Contaminant concentration at receptor (mg/l)	Attenuation factor	Target concentration at source (mg/l)
Fluoride	2.7	0.5	1	0.080854779	8039.10429	9.9E+99	1.653361507	1.63E+00	8.17E-01
sulphide	0.05	0.00025	1	0.080854779	8039.10429	9.9E+99	0.030617806	1.63E+00	4.08E-04
Ammoniacal Nitrogen	0.8	0.23	5.679096002	0.014237262	45654.84503	2190	2.56837E-06	3.11E+05	7.16E+04
Lead	0.075	0.01	295933.0151	2.7322E-07	2379036371	9.9E+99	0.045926709	1.63E+00	1.63E-02
Silver	0.057	0.00005	1	0.080854779	8039.10429	9.9E+99	0.034904298	1.63E+00	8.17E-05
Aromatic 8-10	0.0035	0.000769231	54.83919732	0.001474398	440858.0265	1830	1.20107E-36	2.91E+33	2.24E+30
Aromatic 10-12	0.0035	0.000769231	86.32937733	0.000936585	694010.8676	1830	1.00346E-47	3.49E+44	2.68E+41
Aromatic 12-16	0.0035	0.000769231	171.2544909	0.000472132	1376732.713	1830	2.27543E-70	1.54E+67	1.18E+64
Aromatic 16-21	0.0035	0.000769231	539.3919732	0.0001499	4336228.326	3650	1.86143E-90	1.88E+87	1.45E+84
Aromatic 21-35	0.0035	0.000769231	4277.599457	1.89019E-05	34388068.15	3650	1.3174E-271	2.66E+268	2.04E+265
Aliphatic 8-10	0.0035	0.000769231	1075.233215	7.51974E-05	8643911.95	1830	9.8226E-190	3.56E+186	2.74E+183
Aliphatic 10-12	0.0035	0.000769231	8533.937733	9.48224E-06	68549211.18	1830	0	NA	No impact
Aliphatic 12-16	0.0035	0.000769231	170255.4909	4.74903E-07	1368701648	1830	0	NA	No impact
Aliphatic 16-21	0.0035	0.000769231	21433771.51	3.77E-09	1.72414E+11	3650	0	NA	No impact
Bis-2-EhtylHexylPhthatate	0.042	0.01	5510.327003	1.46733E-05	44298093.44	389	0	NA	No impact

NA = No significant breakthrough at compliance point

For more information, please contact the author of this document. If you have any questions, please contact the author.

Summary of remedial targets for soils and leachates, Tiers 1-3

Contaminant	Target Conc mg/l	Max Soil Conc mg/kg	Max Leachate Conc Measured mg/l	Tier 1		Tier 2			Tier 3 Soil		
				Kd	RT	Dilution Factor	RT	LTC2	Attenuation Factor	RT	LTC3
					mg/kg		mg/kg			mg/kg	
Sulphate	250	-	1390	0	23.529412	3.77	88.68778281	942.307692	1.6330367	144.830403	1538.82303
Fluoride	0.5	-	0.8	0.00	4.71E-02	3.77	1.77E-01	1.88	1.63	2.90E-01	3.08E+00
Ammoniacal Nitrogen	0.23	9.5	16.6	0.50	1.37E-01	3.77	5.16E-01	8.67E-01	3.09E+05	1.59E+05	2.68E+05
Phosphorous	2.2	-	71.06	0.00	2.07E-01	3.77	7.80E-01	8.29	1.63	1.27E+00	1.35E+01
Selenium	0.01	-	0.012	9.55	9.64E-02	3.77	3.64E-01	3.77E-02	1.63	5.94E-01	6.16E-02
Strontium	1	748	5.96	0.00	9.41E-02	3.77	3.55E-01	3.77	1.63	5.79E-01	6.16E+00
Aromatic 8-10	0.0007692	42.3	0.1107	5.75E+00	4.54E-03	3.77	1.71E-02	2.90E-03	2.79E+33	4.78E+31	8.10E+30
Aromatic 10-12	0.0007692	42.3	0.1107	9.12	7.10E-03	3.77	2.68E-02	2.90E-03	3.30E+44	8.84E+42	9.58E+41
Aromatic 12-16	0.0007692	42.3	0.1107	18.19	0.0140716	3.77	0.053039291	0.00289941	1.424E+67	7.55E+65	4.13E+64
Aromatic 16-21	0.0007692	42.3	0.1107	57.53	0.0443286	3.77	0.167084812	0.00289941	1.705E+87	2.85E+86	4.94E+84
Aromatic 21-35	0.0007692	42.3	0.1107	457.00	3.52E-01	3.77	1.33	2.90E-03	2.01E+268	2.67E+268	5.84E+265
Aliphatic 8-10	0.0007692	42.3	0.1107	1.15E+02	0.10	3.77	3.59E-01	2.90E-03	2.93E+186	1.05E+186	8.49E+183
Aliphatic 10-12	0.0007692	42.3	0.1107	911.814763	0.7117853	3.77	2.68288315	0.00289941	NA	No impact	No impact
Aliphatic 12-16	0.0007692	42.3	0.1107	1.82E+04	14.00	3.77	5.29E+01	2.90E-03	NA	No impact	No impact
Aliphatic 16-21	0.0007692	42.3	0.1107	2290000.00	1.76E+03	3.77	6.64E+03	2.90E-03	NA	No impact	No impact
Aliphatic 21-34	0.0007692	42.3	0.1107	2290000.00	1.76E+03	3.77	6.64E+03	2.90E-03	NA	No impact	No impact
tert Butylbenzene	0.001	0.034	0.031	2.14E-01	3.30E-04	3.77	1.26E-03	3.77E-03	1.63	2.05E-03	6.16E-03
Phenol	0.01	-	0.04	0.11	1.99E-03	3.77	7.49E-03	3.77E-02	7.10E+102	5.32E+100	2.68E+101
Anthracene	1.25E-05	0	0.129	5.13E+01	6.46E-04	3.77	2.43E-03	4.71E-05	7.63E+174	1.86E+172	3.60E+170
Fluorene	1.25E-05	0	0.209	2.63E+01	3.30E-04	3.77	1.24E-03	4.71E-05	NA	No impact	No impact
Phenanthrene	1.25E-05	0.323	0.656	5.13E+01	6.42E-04	3.77	2.42E-03	4.71E-05	2.30E+05	1.933E+269	3.76E+267
Fluoranthene	1.25E-05	0.69	0.897	1.38E+02	1.73E-03	3.77	6.52E-03	4.71E-05	8.60E+301	5.61E+299	4.05E+197
Pyrene	1.25E-05	0.619	1.054	1.38E+02	1.73E-03	3.77	6.52E-03	4.71E-05	4.35E+138	2.83E+136	2.05E+134
Benzo(a)anthracene	1.25E-05	0.339	0.283	5.01E+03	6.26E-02	3.77	2.36E-01	4.71E-05	NA	No impact	No impact
Chrysene	1.25E-05	0.361	0.311	7.24E+02	9.05E-03	3.77	3.41E-02	4.71E-05	NA	No impact	No impact
2 Methyl naphthalene	1.00E-02	0	0.329	7.24	7.34E-02	3.77	2.77E-01	3.77E-02	2.06E+121	5.69E+120	7.75E+119
Bis(2-ethyl hexyl)phtala	0.01	63.063	330.288	588.71703	5.8881115	3.77	22.193651	0.03769231	NA	No impact	No impact

NA = No significant breakthrough at compliance point

Area 4

Summary of Groundwater Remedial Targets

Site	4								
Common parameters	Distance to compliance point (m)				200				
	Groundwater velocity (m/d)				0.068118075				
	Groundwater travel time (d)				2936.078267				
Contaminant	Maximum concentration at source (mg/l)	Target concentration (mg/l)	Retardation factor	Contaminant velocity (m/d)	Contaminant travel time (d)	Half life (d)	Contaminant concentration at receptor (mg/l)	Attenuation factor	Target concentration at source (mg/l)
Fluoride	1.7	0.5	1	0.0681	2936.857562	9.9E+99	1.68	1.01E+00	5.06E-01
Sulphide	0.05	0.00025	1	0.0681	2936.857562	9.9E+99	0.0494	1.01E+00	2.53E-04
Ammoniacal Nitrogen	1.5	0.23	5.679096002	0.01197605	16699.99711	2190	0.014573542	1.03E+02	2.37E+01
Phenol	0.02	0.01	1.98	0.0344	5813.953488	10	2.13E-45	9.39E+42	9.39E+40

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Area 4

Summary of remedial targets for soils and leachates, Tiers 1-3

Contaminant	Target Conc mg/l	Max Soil Conc Measured mg/kg	Max Leachate Conc Measured mg/l	Tier 1		Tier 2			Tier 3 Soil		
				Kd	RT mg/kg	Dilution Factor	RT mg/kg	LTC2 mg/l	Attenuation Factor	RT mg/kg	LTC3 mg/l
Total Cyanide	0.01	-	0.11	7.94E+09	7.94E+07	1.44E+01	1.15E+09	1.44E-01	NA	No Impact	No Impact
Fluoride	0.5	-	0.9	0.00E+00	4.71E-02	1.44E+01	6.79E-01	7.22E+00	1.01E+00	6.87E-01	7.30E+00
Ammonia as N	0.23	16.6	7	5.00E-01	1.37E-01	1.44E+01	1.98E+00	3.32E+00	1.02E+02	2.02E+02	3.40E+02
Arsenic	0.01	13.7	0.015	1.17E+02	1.18E+00	1.44E+01	1.70E+01	1.44E-01	1.01E+00	1.72E+01	1.46E-01
Nickel	0.02	-	41	0.00E+00	1.88E-03	1.44E+01	2.72E-02	2.89E-02	1.01E+00	2.75E-02	2.92E-01
Strontium	1	-	1.03	0.00E+00	9.41E-02	1.44E+01	1.36E+00	1.44E+01	1.01E+00	1.37E+00	1.46E+01
Aliphatic 8-10	0.0076923	42.3	0.0038	1.15E+02	9.53E-02	1.44E+01	1.38E+00	1.11E-02	4.66E+78	6.41E+78	5.18E+76
Aliphatic 10-12	0.0076923	42.3	0.0038	9.12E+02	7.12E-01	1.44E+01	1.03E+01	1.11E-02	4.29E+232	4.41E+234	4.77E+231
Aliphatic 12-16	0.0076923	42.3	0.0038	1.82E+04	1.40E+01	1.44E+01	2.03E+02	1.11E-02	NA	No Impact	No Impact
Aliphatic 16-21	0.0076923	42.3	0.0038	2.29E+06	1.76E+03	1.44E+01	2.54E+04	1.11E-02	NA	No Impact	No Impact
Aliphatic 21-34	0.0076923	42.3	0.0038	2.29E+06	1.76E+03	1.44E+01	2.54E+04	1.11E-02	NA	No Impact	No Impact
Aromatic 8-10	0.0076923	42.3	0.0038	5.75E+00	4.54E-03	1.44E+01	6.55E-02	1.11E-02	3.30E+13	2.16E+12	3.66E+11
Aromatic 10-12	0.0076923	42.3	0.0038	9.12E+00	7.10E-03	1.44E+01	1.02E-01	1.11E-02	1.55E+18	1.59E+17	1.72E+16
Aromatic 12-16	0.0076923	42.3	0.0038	1.82E+01	1.41E-02	1.44E+01	2.03E-01	1.11E-03	6.17E+27	1.25E+27	6.85E+25
Aromatic 16-21	0.0076923	42.3	0.0038	5.75E+01	4.43E-02	1.44E+01	6.40E-01	1.11E-03	2.15E+36	1.38E+38	2.39E+34
Aromatic 21-35	0.0076923	42.3	0.0038	4.57E+02	3.52E-01	1.44E+01	5.08E+00	1.11E-02	3.94E+113	2.00E+114	4.38E+111

NA = No significant breakthrough at compliance point

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Area 6

Summary of Groundwater Remedial Targets

Common parameters	Distance to compliance point (m)		100						
	Groundwater velocity (m/d)		0.061073999						
	Groundwater travel time (d)		1637.35799	4.4859123					
Contaminant	Maximum concentration at source (mg/l)	Target concentration (mg/l)	Retardation factor	Contaminant velocity (m/d)	Contaminant travel time (d)	Half life (d)	Contaminant concentration at receptor (mg/l)	Attenuation factor	Target concentration at source (mg/l)
Sulphide	0.05	0.00025	1	0.061073999	1637.35799	9.9E+99	0.05	1.00E+00	2.50E-04
Ammoniacal Nitrogen	0.4	0.23	5.679096002	0.010468575	9552.398345	2190	0.0269	1.49E+01	3.43E+00
Aliphatic 8-10	0.0212	0.00076923	1080	0.0000568	1760563.38	1830	4.10539E-51	5.16E+48	3.97E+45
Aliphatic 10-12	0.0212	0.00076923	8530	7.1566E-06	13973111.12	1830	5.2952E-148	4.00E+145	3.08E+142
Aliphatic 12-16	0.0212	0.00076923	170000	0.000000359	278551532	1830	0	NA	No impact
Aliphatic 16-21	0.0212	0.00076923	59000000	1.03E-09	97087378641	1830	0	NA	No impact
Aromatic 8-10	0.0212	0.00076923	54.8	0.00111	90090.09009	1830	1.64233E-10	1.29E+08	9.93E+04
Aromatic 10-12	0.0212	0.00076923	86.3	0.000707	141442.7157	1830	2.13167E-13	9.95E+10	7.65E+07
Aromatic 12-16	0.0212	0.00076923	171.2544911	0.000356627	280404.9092	1830	2.3288E-19	9.10E+16	7.00E+13
Aromatic 16-21	0.0212	0.00076923	539.3919724	0.000113227	883177.7556	1830	1.11183E-24	1.91E+22	1.47E+19
Aromatic 21-35	0.0212	0.00076923	4277.599451	1.42776E-05	7003961.638	3650	5.83663E-73	3.63E+70	2.79E+67

At solubility limit

Benzene	1780	0.001	3.000303434	0.020355941	4912.570799	720	32.0811787	5.55E+01	5.55E-02
TCE	110	0.01	5.276599458	0.011267113	8875.387898	1653	4.249859334	2.59E+01	2.59E-01
Phenol	87000	0.01	1.979712336	0.030849936	3241.49781	10	3.2292E-22	2.69E+26	2.69E+24

NA = No significant breakthrough at compliance point

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2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054, 3055, 3056, 3057, 3058, 3059, 3060, 3061, 3062, 3063, 3064, 3065, 3066, 3067, 3068, 3069, 3070, 3071, 3072, 3073, 3074, 3075, 3076, 3077, 3078, 3079, 3080, 3081, 3082, 3083, 3084, 3085, 3086, 3087, 3088, 3089, 3090, 3091, 3092, 3093, 3094, 3095, 3096, 3097, 3098, 3099, 3100, 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3114, 3115, 3116, 3117, 3118, 3119, 3120, 3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133, 3134, 3135, 3136, 3137, 3138, 3139, 3140, 3141, 3142, 3143, 3144, 3145, 3146, 3147, 3148, 3149, 3150, 3151, 3152, 3153, 3154, 3155, 3156, 3157, 3158, 3159, 3160, 3161, 3162, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3171, 3172, 3173, 3174, 3175, 3176, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3185, 3186, 3187, 3188, 3189, 3190, 3191, 3192, 3193, 3194, 3195, 3196, 3197, 3198, 3199, 3200, 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3220, 3221, 3222, 3223, 3224, 3225, 3226, 3227, 3228, 3229, 3230, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3241, 3242, 3243, 3244, 3245, 3246, 3247, 3248, 3249, 3250, 3251, 3252, 3253, 3254, 3255, 3256, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3269, 3270, 3271, 3272, 3273, 3274, 3275, 3276, 3277, 3278, 3279, 3280, 3281, 3282, 3283, 3284, 3285, 3286, 3287, 3288, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3296, 3297, 3298, 3299, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3308, 3309, 3310, 3311, 3312, 3313, 3314, 3315, 3316, 3317, 3318, 3319, 3320, 3321, 3322, 3323, 3324, 3325, 3326, 3327, 3328, 3329, 3330, 3331, 3332, 3333, 3334, 3335, 3336, 3337, 3338, 3339, 3340, 3341, 3342, 3343, 3344, 3345, 3346, 3347, 3348, 3349, 3350, 3351, 3352, 3353, 3354, 3355, 3356, 3357, 3358, 3359, 3360, 3361, 3362, 3363, 3364, 3365, 3366, 3367, 3368, 3369, 3370, 3371, 3372, 3373, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3381, 3382, 3383, 3384, 3385, 3386, 3387, 3388, 3389, 3390, 3391, 3392, 3393, 3394, 3395, 3396, 3397, 3398, 3399, 3400, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3408, 3409, 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3435, 3436, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 3464, 3465, 3466, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636,

Summary of remedial targets for soils and leachates, Tiers 1-3

Contaminant	Target Conc mg/l	Max Soil Conc mg/kg	Max Leachate Conc mg/l	Tier 1		Tier 2			Tier 3 Soil		
				Kd	RT mg/kg	Dilution Factor	RT mg/kg	LTC2 mg/l	Attenuation Factor	RT mg/kg	LTC3 mg/l
Cyanide	0.01	18.2	0.14	7943282347	79432823	3.77E+01	2991006862	0.376545	NA	No impact	No impact
Ammoniacal Nitrogen	0.23	15.7	26.8	0.50	1.37E-01	3.77E+01	5.160	8.660	1.40E+01	72	121
Arsenic	0.01	17.1	0.014	117.49	1.18E+00	3.77E+01	44.276	0.377	1.00E+00	44.2766082	0.37655341
Boron	1	0	27	0.00E+00	9.41E-02	3.77E+01	3.540	0.377	1.00E+00	3.54403208	37.7
Selenium	0.01	0	0.013	3.47E-02	1.29E-02	3.77E+01	0.049	0.038	1.00E+00	4.85E-02	0.377
strontium	1	298	1.64	0	9.41E-02	3.77E+01	3.540	37.000	1	3.54	37.7
Zinc	0.1	544	0.26	0	9.41E-04	3.77E+01	0.035	0.377	1	0.0354	0.377
aliphatic C6-8	0.00769231	-	0.077	1.45E+01	1.55E-02	3.77E+01	0.583	0.029	3.48E+25	2.03E+25	1.01E+24
Aliphatic 8-10	0.00076923	68.6	0.2043	1.15E+02	9.53E-02	3.77E+01	3.530	0.029	5.15E+48	1.8477E+49	1.4922E+47
Aliphatic 10-12	0.00076923	68.6	0.2043	9.12E+02	7.21E-01	3.77E+01	26.800	0.029	3.98E+145	1.066E+147	1.152E+144
Aliphatic 12-16	0.00076923	68.6	0.2043	1.82E+04	1.40E-01	3.77E+01	529.000	0.029	NA	No impact	No impact
Aliphatic 16-21	0.00076923	68.6	0.2043	2.29E+06	1.76E+03	3.77E+01	66400.000	0.029	NA	No impact	No impact
Aliphatic 21-34	0.00076923	68.6	0.2043	2.29E+06	1.76E+03	3.77E+01	66400.000	0.029	NA	No impact	No impact
Aromatic C7-8	0.00769231	-	0.077	9.12E-01	7.97E-04	3.77E+01	0.030	0.029	2.72E+04	815	787
Aromatic 8-10	0.00076923	68.6	0.2043	5.75E+00	4.54E-03	3.77E+01	0.171	0.029	1.29E+08	22052183.8	3737071.12
Aromatic 10-12	0.00076923	68.6	0.2043	9.12E+00	7.10E-03	3.77E+01	0.267	0.029	9.94E+10	2.6565E+10	2878791691
Aromatic 12-16	0.00076923	68.6	0.2043	1.82E+01	1.41E-02	3.77E+01	0.530	0.029	9.09E+16	4.8191E+16	2.6344E+15
Aromatic 16-21	0.00076923	68.6	0.2043	5.75E+01	1.76E+03	3.77E+01	66400.000	0.029	1.90E+22	3.179E+22	5.5164E+20
Aromatic 21-35	0.00076923	68.6	0.2043	4.57E+02	3.52E-01	3.77E+01	13.200	0.029	3.62E+70	4.7927E+71	1.0485E+69
Benzene	0.001	0	0.212	0.21374892	0.0003335	3.77E+01	0.01255631	0.037655	55.4767044	0.69658273	2.08895009
Chloroethane	0.001	0	1.003	6.46E-02	1.82E-04	3.77E+01	6.86E-03	3.77E-02	7.03E+07	482000	2650000
Chlorobenzene	0.01	0	0.033	7.94E-01	9.05E-03	3.77E+01	0.341	0.377	5.55E+07	18928337.6	20907677
Ethylbenzene	0.3	0.05	1.317	1.32E+00	4.35E-01	3.77E+01	16.400	11.296	4.12E+12	6.7487E+13	4.66E+13
Styrene	0.05	-	0.461	4.64E+00	2.37E-01	3.77E+01	8.930	0.018	2.87E+27	2.566E+28	5.4071E+27
Isopropylbenzene	0.01	0	0.088	2.14E-01	3.33E-04	3.77E+01	0.013	0.377	5.55E+01	6.97	20.8895009
Propylbenzene	0.001	0	0.056	2.14E-01	3.33E-04	3.77E+01	0.013	0.038	5.55E+01	0.697	2.08895009
Trimethyl Benzene 124	0.01	0	0.104	29.51	2.97E-01	3.77E+01	11.100	0.377	2.10E+56	2.3437E+57	7.9003E+55
Trimethyl Benzene 135	0.01	0	0.239	29.51	2.97E-01	3.77E+01	11.100	0.377	2.0981E+56	2.3437E+57	7.9003E+55
1,4 Dichlorobenzene	0.01	0	0.21	7.76	7.86E-02	3.77E+01	2.960	0.377	8.5389E+26	2.528E+27	3.2153E+26
Sec-butylbenzene	0.001	0	0.089	2.14E-01	3.33E-04	3.87E+01	0.013	0.038	5.55E+01	0.697	2.08895009
Tert-butylbenzene	0.001	0	0.096	2.14E-01	3.33E-04	3.77E+01	0.013	0.038	1.00E+00	0.0126	0.03765534
n-butylbenzene	0.001	0	0.127	2.14E-01	3.33E-04	3.77E+01	0.013	0.038	5.55E+01	0.697	2.08895009
Napthalene	0.01	0	0.467	7.24	7.34E-02	3.77E+01	2.76	3.77E-01	2.20E+31	6.08E+31	8.28E+30
Phenols	0.01	-	0.04	1.05E-01	1.99E-03	3.77E+01	0.075	0.038	2.69E+26	2.0141E+25	1.01E+26

NA = No significant breakthrough at compliance point