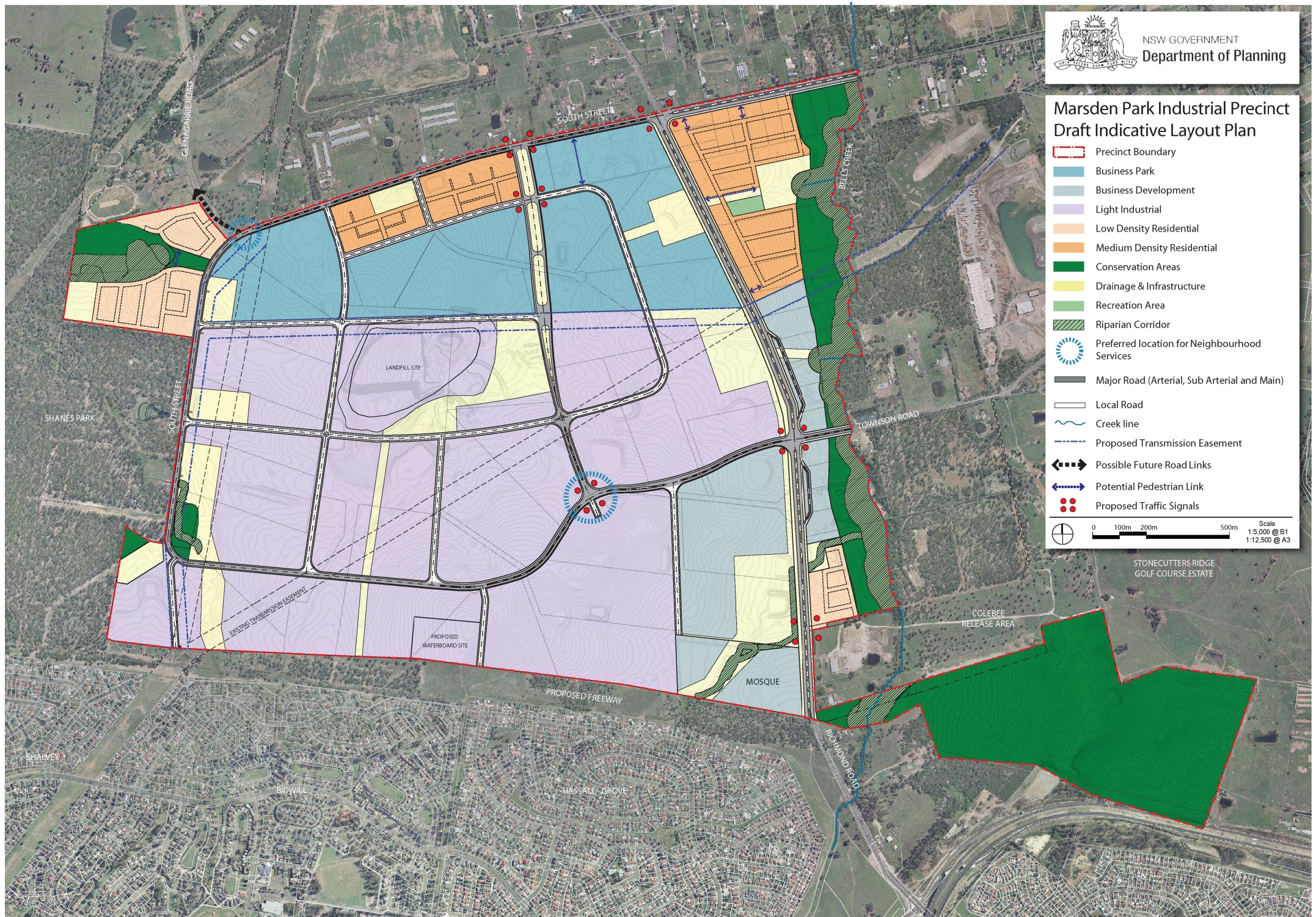


Marsden Park Industrial Precinct Draft Indicative Layout Plan





Appendix B

Summary Results Tables

**Table A - Soil Analytical Summary Results
Marsden Park Industrial Precinct**

[illegible]

Bold	Concentration reported above HIL (A) (NSW DECC 2006)
Bold	Concentration reported above HIL (E) (NSW DECC 2006)
Bold	Concentration reported above HIL (F) (NSW DECC 2006)
Bold	Concentration reported above Threshold Concentrations in Guidelines for Assessing Service Station Sites (NSW EPA 1994)
Bold	Concentration reported above PBIL (NSW DECC 2006)

Table B - Surface Water Analytical Summary Results
Marsden Park Industrial Precinct

		Metals							Lead	TPH					BTEX			PAHs			Inorganics												Biological	Organochlorine Pesticides					Organophosphorus Pesticides																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Nickel	Zinc		TPH C 6 - C 9 Fraction	TPH C10 - C14 Fraction	TPH C15 - C28 Fraction	TPH C29-C36 Fraction	TPH+C10 - C36 (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene Total	Benzo(a) pyrene	Naphthalene	PAH Total (NSW, 1999)	Calcium	Chloride	Magnesium	Potassium	Sodium	Sulphate	Alkalinity (total)	Ammonia	BOD	COD	Ionic Balance		Bicarbonate as CaCO3	Carbonate as CaCO3	Coliform	Aldrin + Dieldrin	Chlordane	DDT	Endrin	Heptachlor	Chlorpyrifos	Diazinon	Dimethoate	Ethion	Fenitrothion	Ronnel																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L

Notes

- (1) ANZECC Low Reliability Guidelines
- (2) ANZECC trigger value for faecal coliforms in water used for pasture and fodder for dairy animals and grazing animals
- (3) Guidelines refer to Arsenic (III) only
- (4) Guidelines refer to Chromium (VI) only
- (5) Aesthetic drinking water guidelines
- (6) There is no criterion for TPH C10 – C36 that has been endorsed by the NSW DECC. A screening level has therefore been derived based on average of target value (50 mg/L) and intervention value (600 mg/L) for mineral oil in groundwater, from “Environmental Quality Objectives in the Netherlands”, MHSPE 1994 (to be applied to TPH C10 – C36 detected above the PQL). This is comparable to levels of TPH that have been found to cause taste issues in drinking water.

Bold	Concentration reported above the ANZECC (2000) trigger value
Bold	Concentration reported above the Australian Drinking Water Value
Bold	Laboratory PQL above the ANZECC (2000) trigger value
Bold	Laboratory PQL above the Australian Drinking Water Value

Table C - Groundwater Analytical Summary Results
Marsden Park Industrial Precinct

		Metals							Lead	TPH					BTEX			PAH			Inorganics										Biological	Organochlorine Pesticides					Organophosphorus Pesticides					VOC								
		Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	Lead (Filtered)	TPH C 6 - C 9 Fraction	TPH C10 - C14 Fraction	TPH C15 - C28 Fraction	TPH C29-C36 Fraction	TPH+C10 - C36 (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene Total	Benzo(a) pyrene	Naphthalene	Total PAH	Calcium	Chloride	Magnesium	Potassium	Sodium	Sulphate	Alkalinity (total)	Ammonia	BOD	COD	Ionic Balance	Bicarbonate as CaCO3	Carbonate as CaCO3	Coliform	Aldrin + Dieldrin	Chlordane (cis)	DDT+DDE+DDD	Endrin	Heptachlor	Total OCPs	Chlorpyrifos	Diazinon	Dimethoate	Ethion	Fenitrothion	Ronnel	Total OPPs	Total VOCs	
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	mg/L	mg/L	cfu/100 ml	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	ug/L		
Laboratory PQL		1	0.1	1	1	0.5	1	1	1	10	50	100	100	-	1	1	1		1	1		0.03	20	0.03	0.03	0.03	5	0.1	0.1	2	50		0.1	0.1		-	0.2	-	0.2	0.2	-	0.2	0.2	0.2	0.2	0.2	0.2	-	-	
ANZECC (2000) Ecosystems Fresh Water (95%)		24 ⁽³⁾	0.2	1 ⁽⁴⁾	1.4	0.6	11	8	3.4	-	-	-	-	325 ⁽⁶⁾	950	80 ⁽³⁾	180 ⁽¹⁾	625 ⁽¹⁾	0.2	16	-	-	-	-	-	-	-	0.9	-	-	-	-	-	-	1000 ⁽²⁾	-	0.08		0.02	0.09	-	0.01	0.01	0.15	-	0.2	-	-	-	-
Australian Drinking Water Guidelines (2004)		7	2	50	2000	1	20	3000	10	-	-	-	-	-	1	300	800	600	0.01	-	-	-	-	-	-	500	-	0.5 (5)	-	-	-	-	-	-	-	0.3	0.01		-	0.05	-	10	3	50	3	10	30	-	-	
Field_ID	Sampled_Date																																																	
MW1	30/10/2008	2	0.3	<1	3	<0.5	9.8	16	<1	<10	<50	<100	<100	<250	<1	<1	4.1	<3	<1	<1	ND	300	12000	1200	61	6000	1900	700	0.5	<4	2400	-1.9	700	<0.1	140	<0.4	<0.2	<0.6	<0.2	<0.2	ND	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND	-	
MW2	30/10/2008	1.2	0.5	1.4	1.9	<0.5	37	25	<1	<10	<50	<100	<100	<250	<1	<1	1	<3	<1	<1	ND	91	4600	370	38	3200	1700	480	0.7	<4	600	0.18	480	<0.1	32000	<0.4	<0.2	<0.6	<0.2	<0.2	ND	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND	-	
MW3	30/10/2008	1.4	0.2	1.4	2.2	<0.5	240	230	<1	<10	<50	<100	<100	<250	<1	<1	<1	<3	<1	<1	ND	210	5300	400	32	3200	1500	450	0.7	<4	1000	-1.6	450	<0.1	120	<0.4	<0.2	<0.6	<0.2	<0.2	ND	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND	-	
MW4	30/10/2008	<1	0.8	1	6.6	<0.5	130	180	<1	<10	<50	<100	<100	<250	<1	<1	<1	<3	<1	<1	ND	210	10000	960	28	5500	1300	360	0.7	<4	1800	2.1	360	<0.1	80	<0.4	<0.2	<0.6	<0.2	<0.2	ND	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND	-	
Machining Shop																																																		
MW5	29/10/2008	1.4	<0.1	1.8	2.9	<0.5	1.3	11	<1	<10	<50	<100	<100	<250	<1	<1	<1	<3	<1	<1	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	
MW6	29/10/2008	1.6	0.4	1.5	5	<0.5	7.8	8.7	<1	<10	<50	<100	<100	<250	<1	<1	<1	<3	<1	<1	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND		
Sanitary Depot																																																		
MW7	29/10/2008	1.1	0.2	2.6	4.1	<0.5	2.9	12	<1	<10	<50	<100	<100	<250	<1	<1	<1	<3	<1	<1	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND		
Quality Control																																																		
QA3	29/10/2008	1.4	0.1	1.9	3.4	<0.5	1.2	11	<1	<10	<50	<100	<100	<250	<1	<1	<1	<3	<1	<1	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	

- Notes
- (1) ANZECC Low Reliability Guidelines
- (2) ANZECC trigger value for faecal coliforms in water used for pasture and fodder for dairy animals and grazing animals
- (3) Guidelines refer to Arsenic (III) only
- (4) Guidelines refer to Chromium (VI) only
- (5) Aesthetic drinking water guidelines
- (6) There is no criterion for TPH C10 – C36 that has been endorsed by the NSW DECC. A screening level has therefore been derived based on average of target value (50 mg/L) and intervention value (600 mg/L) for mineral oil in groundwater, from "Environmental Quality Objectives in the Netherlands", MHSPE 1994 (to be applied to TPH C10 – C36 detected above the PQL). This is comparable to levels of TPH that have been found to cause taste issues in drinking water.

Bold Concentration reported above the ANZECC (2000) trigger value

Bold Concentration reported above the Australian Drinking Water Value

Bold Laboratory PQL above the ANZECC (2000) trigger value

Bold Laboratory PQL above the Australian Drinking Water Value

Table D - Soil Relative Percentage Differences
Marsden Park Industrial Precinct

				SDG		23167	23167		23311	23311		23311	23311		23381	23381		23381	23381		23518	23518		23167	Interlab_D			23311	Interlab_D			23381	Interlab_D		
				Field_ID		HA7	QC1	RPD	TP2	QC3	RPD	TP10	QC5	RPD	TP26	QC8	RPD	TP29	QC9	RPD	MW5	QC10	RPD	HA12	QC2	RPD	TP16	QC6	RPD	TP21	QC7	RPD			
				Sampled_Date		1/10/2008	1/10/2008		7/10/2008	7/10/2008		8/10/2008	8/10/2008		9/10/2008	9/10/2008		10/10/2008	10/10/2008		15/10/2008	15/10/2008		10/1/2008	1/10/2008		8/10/2008	8/10/2008		9/10/2008	9/10/2008				
Chem_Group	ChemName	Units	EQL																																
BTEX	Benzene	mg/kg	0.5	<0.5	<0.5	N/C															<0.5	<0.5	N/C	<0.5	<0.2	N/C	<0.5	<0.2	N/C	<0.5	<0.2	N/C			
	Ethylbenzene	mg/kg	1	<1.0	<1.0	N/C															<1.0	<1.0	N/C	<1.0	<0.5	N/C	<1.0	<0.5	N/C	<1.0	<0.5	N/C			
	Toluene	mg/kg	0.5	<0.5	<0.5	N/C															<0.5	<0.5	N/C	<0.5	<0.5	N/C	<0.5	<0.5	N/C	<0.5	<0.5	N/C			
	Xylene (m & p)	mg/kg	2	<2.0	<2.0	N/C															<2.0	<2.0	N/C	<2.0	<1.0	N/C	<2.0	<1.0	N/C	<2.0	<1.0	N/C			
	Xylene (o)	mg/kg	1	<1.0	<1.0	N/C															<1.0	<1.0	N/C	<1.0	<0.5	N/C	<1.0	<0.5	N/C	<1.0	<0.5	N/C			
Inorganics	Ammonia	mg/kg	0.5	1.8	1.8	0									3.6	3.3	9	2.8	6.1	74															
	Moisture	%	0.1	6.8	6.8	0	15.0	17.0	13	15.0	15.0	0	9.0	9.3	3	15.0	14.0	7	12.0	14.0	15	2	0.1	183	9.7	9.0	7	7.8	7.0	11					
Lead	Lead	mg/kg	1	12.0	14.0	15	29.0	29.0	0	61.0	57.0	7	36.0	36.0	0	30.0	28.0	7	48.0	38.0	23	9	7	25	15.0	8.0	61	18.0	13.0	32					
Metals	Arsenic	mg/kg	4	4.0	5.0	22	9.0	8.0	12	8.0	7.0	13	16.0	17.0	6	5.0	5.0	0	<4.0	<4.0	N/C	<4	2	67	4.0	3.0	29	5.0	4.0	22					
	Cadmium	mg/kg	0.5	<0.5	<0.5	N/C	<0.5	<0.5	N/C	<0.5	<0.5	N/C	0.7	0.6	15	<0.5	0.6	18	<0.5	<0.5	N/C	<0.5	0.1	133	<0.5	<0.1	N/C	<0.5	<0.1	N/C					
	Chromium (III+VI)	mg/kg	1	19.0	14.0	30	22.0	19.0	15	23.0	29.0	23	20.0	23.0	14	19.0	23.0	19	14.0	15.0	7	20	20	0	42.0	41.0	2	23.0	32.0	33					
	Copper	mg/kg	1	14.0	12.0	15	25.0	30.0	18	32.0	31.0	3	18.0	19.0	5	24.0	20.0	18	18.0	17.0	6	61	54	12	42.0	29.0	37	33.0	28.0	16					
	Mercury	mg/kg	0.1	<0.1	<0.1	N/C	<0.1	0.1	0	<0.1	<0.1	N/C	<0.1	<0.1	N/C	<0.1	<0.1	N/C	<0.1	<0.1	N/C	<0.1	0.08	22	<0.1	0.09	11	<0.1	0.12	18					
	Nickel	mg/kg	1	10.0	10.0	0	8.0	10.0	22	9.0	15.0	50	13.0	14.0	7	12.0	11.0	9	12.0	12.0	0	77	82	6	68.0	66.0	3	22.0	21.0	5					
	Zinc	mg/kg	1	56.0	43.0	26	230.0	260.0	12	420.0	430.0	2	82.0	77.0	6	40.0	35.0	13	62.0	64.0	3	59	110	60	69.0	67.0	3	38.0	35.0	8					
Organochlorine	4,4-DDE	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
Pesticides	a-BHC	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Aldrin	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	b-BHC	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Chlordane (cis)	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Chlordane (trans)	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	d-BHC	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	DDD	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	DDT	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.2	N/C	<0.1	<0.2	N/C	<0.1	<0.2	N/C					
	Dieldrin	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Endosulfan I	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Endosulfan II	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Endrin	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C							<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	g-BHC (Lindane)	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05	N/C	<0.1	<0.05	N/C					
	Heptachlor	mg/kg	0.1	<0.1	<0.1	N/C							<0.1	<0.1	N/C	<0.1	<0.1	N/C				<0.1	<0.05	N/C	<0.1	<0.05									

**Table E - Surface Water Relative Percentage Differences
Marsden Park Industrial Precinct**

SDG Field_ID Sampled_Date	23167 SW1 1/10/2008	23167 QA1 1/10/2008	RPD	23167 SWS 1/10/2008	Interlab_D QA2 1/10/2008	RPD
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Chem_Group	ChemName	Units	EQL						
	Alkalinity (Hydroxide)	mg/l	0.1	<5.0	<5.0	N/C			
	Bicarbonate as CaCO3	mg/l	0.1	24.0	24.0	0			
	Bromophos-ethyl	µg/L	0.2	<0.2	<0.2	N/C			
	Carbonate as CaCO3	mg/l	0.1	<5.0	<5.0	N/C			
Biological	Coliform	CFU/100 mL		15000.0	16000.0	6			
BTEX	Benzene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Ethylbenzene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Toluene	µg/L	1	29.0	32.0	10	<1.0	<1.0	N/C
	Xylene (m & p)	µg/L	2	<2.0	<2.0	N/C	<2.0	<2.0	N/C
	Xylene (o)	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
Inorganics	Alkalinity (total)	mg/l	0.1	24.0	24.0	0			
	Ammonia	mg/l	0.1	0.7	0.6	15	<0.1	0.05	67
	BOD	mg/l	2	26.0	25.0	4	<4.0	3.0	29
	Chloride	mg/l	20	130.0	140.0	7	95.0	89.0	7
	COD	mg/l		180.0	160.0	12	80.0	76.0	5
	Ionic Balance	%		3.0	0.75	120			
	Sulphate	mg/l	5	55.0	50.0	10	12.0	14.0	15
Lead	Lead	mg/l	0.001	0.043	0.046	7	0.0032	<0.005	44
Metals	Arsenic	mg/l	0.001	0.016	0.018	12	0.0083	0.008	4
	Cadmium	mg/l	0.0001	<0.0001	0.0001	0	<0.0001	<0.0005	N/C
	Calcium	mg/l	0.03	3.2	3.1	3	11.0	10.7	3
	Chromium (III+VI)	mg/l	0.001	0.036	0.047	27	0.0024	<0.005	70
	Copper	mg/l	0.001	0.062	0.071	14	0.0088	0.006	38
	Magnesium	mg/l	0.03	8.3	8.0	4	8.7	9.3	7
	Mercury	mg/l	0.0005	<0.0005	<0.0005	N/C	<0.0005	<0.0001	N/C
	Nickel	mg/l	0.001	0.022	0.027	20	0.0029	<0.005	53
	Potassium	mg/l	0.03	15.0	15.0	0	35.0	35.3	1
	Sodium	mg/l	0.03	100.0	100.0	0	76.0	82.9	9
	Zinc	mg/l	0.001	0.1	0.12	18	0.016	0.013	21
OCP	4,4-DDE	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	a-BHC	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Aldrin	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	b-BHC	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Chlordane (cis)	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Chlordane (trans)	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	d-BHC	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	DDD	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	DDT	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<2.0	N/C
	Dieldrin	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Endosulfan I	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Endosulfan II	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Endosulfan sulphate	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Endrin	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Endrin aldehyde	µg/L	0.2	<0.2	<0.2	N/C			
	g-BHC (Lindane)	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Heptachlor	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Heptachlor epoxide	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Hexachlorobenzene	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<0.5	N/C
	Methoxychlor	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<2.0	N/C
Organophosphorus	Chlorpyrifos	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<2.0	N/C
Pesticides	Chlorpyrifos-methyl	mg/l	0.0002	<0.0002	<0.0002	N/C			
	Diazinon	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<2.0	N/C
	Dimethoate	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<2.0	N/C
	Ethion	µg/L	0.2	<0.2	<0.2	N/C			
	Fenitrothion	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<2.0	N/C
	Ronnel	µg/L	0.2	<0.2	<0.2	N/C	<0.2	<2.0	N/C

PAH/Phenols	Acenaphthene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Acenaphthylene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Anthracene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Benz(a)anthracene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Benzo(a) pyrene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Benzo(b)&(k)fluoranthene	µg/L	2	<2.0	<2.0	N/C	<2.0	<2.0	N/C
	Benzo(g,h,i)perylene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Chrysene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Dibenz(a,h)anthracene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Fluoranthene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Fluorene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Indeno(1,2,3-c,d)pyrene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Naphthalene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Phenanthrene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
	Pyrene	µg/L	1	<1.0	<1.0	N/C	<1.0	<1.0	N/C
TPH	TPH C 6 - C 9 Fraction	µg/L	10	29.0	27.0	7	<10.0	<50.0	N/C
	TPH C10 - C14 Fraction	µg/L	50	<50.0	<50.0	N/C	<50.0	<50.0	N/C
	TPH C15 - C28 Fraction	µg/L	100	140.0	140.0	0	<100.0	<200.0	N/C
	TPH C29-C36 Fraction	µg/L	100	<100.0	<100.0	N/C	<100.0	<50.0	N/C

Notes

N/C

Italics

Bold

RPD not calculated where both duplicate pairs reported concentrations <PQL

One duplicate pair reported a concentration < PQL, the PQL has been used to calculate the RPD

RPD exceeds nominally acceptable limit of 30% for inorganics or 50% for organics

**Table F - Groundwater Relative Percentage Differences
Marsden Park Industrial Precinct**

SDG	23836	23836	
Field_ID	MW5	QA3	RPD
Sampled_Date	29/10/2008	29/10/2008	

Chem_Group	ChemName	Units	EQL			
BTEX	Benzene	µg/L	1	<1.0	<1.0	N/C
	Ethylbenzene	µg/L	1	<1.0	<1.0	N/C
	Toluene	µg/L	1	<1.0	<1.0	N/C
	Xylene (m & p)	µg/L	2	<2.0	<2.0	N/C
	Xylene (o)	µg/L	1	<1.0	<1.0	N/C
Lead	Lead (Filtered)	mg/l	0.001	<0.001	<0.001	N/C
Metals	Arsenic (Filtered)	mg/l	0.001	0.0014	0.0014	0
	Cadmium (Filtered)	mg/l	0.0001	<0.0001	0.0001	0
	Chromium (III+VI) (Filtered)	mg/l	0.001	0.0018	0.0019	5
	Copper (Filtered)	mg/l	0.001	0.0029	0.0034	16
	Mercury (Filtered)	mg/l	0.0005	<0.0005	<0.0005	N/C
	Nickel (Filtered)	mg/l	0.001	0.0013	0.0012	8
	Zinc (Filtered)	mg/l	0.001	0.011	0.011	0
PAH/Phenols	Acenaphthene	µg/L	1	<1.0	<1.0	N/C
	Acenaphthylene	µg/L	1	<1.0	<1.0	N/C
	Anthracene	µg/L	1	<1.0	<1.0	N/C
	Benz(a)anthracene	µg/L	1	<1.0	<1.0	N/C
	Benzo(a) pyrene	µg/L	1	<1.0	<1.0	N/C
	Benzo(b)&(k)fluoranthene	µg/L	2	<2.0	<2.0	N/C
	Benzo(g,h,i)perylene	µg/L	1	<1.0	<1.0	N/C
	Chrysene	µg/L	1	<1.0	<1.0	N/C
	Dibenz(a,h)anthracene	µg/L	1	<1.0	<1.0	N/C
	Fluoranthene	µg/L	1	<1.0	<1.0	N/C
	Fluorene	µg/L	1	<1.0	<1.0	N/C
	Indeno(1,2,3-c,d)pyrene	µg/L	1	<1.0	<1.0	N/C
	Naphthalene	µg/L	1	<1.0	<1.0	N/C
	Phenanthrene	µg/L	1	<1.0	<1.0	N/C
	Pyrene	µg/L	1	<1.0	<1.0	N/C
TPH	TPH C 6 - C 9 Fraction	µg/L	10	<10.0	<10.0	N/C
	TPH C10 - C14 Fraction	µg/L	50	<50.0	<50.0	N/C
	TPH C15 - C28 Fraction	µg/L	100	<100.0	<100.0	N/C
	TPH C29-C36 Fraction	µg/L	100	<100.0	<100.0	N/C
VOC	1,1,1,2-tetrachloroethane	µg/L	1	<1.0	<1.0	N/C
	1,1,1-trichloroethane	µg/L	1	<1.0	<1.0	N/C
	1,1,2,2-tetrachloroethane	µg/L	1	<1.0	<1.0	N/C
	1,1,2-trichloroethane	µg/L	1	<1.0	<1.0	N/C
	1,1-dichloroethane	µg/L	1	<1.0	<1.0	N/C
	1,1-dichloroethene	µg/L	1	<1.0	<1.0	N/C
	1,1-dichloropropene	µg/L	1	<1.0	<1.0	N/C
	1,2,3-trichlorobenzene	µg/L	1	<1.0	<1.0	N/C
	1,2,3-trichloropropane	µg/L	1	<1.0	<1.0	N/C
	1,2,4-trichlorobenzene	µg/L	1	<1.0	<1.0	N/C
	1,2,4-trimethylbenzene	µg/L	1	<1.0	<1.0	N/C
	1,2-dibromo-3-chloropropane	µg/L	1	<1.0	<1.0	N/C
	1,2-dibromoethane	µg/L	1	<1.0	<1.0	N/C
	1,2-dichlorobenzene	µg/L	1	<1.0	<1.0	N/C

	1,2-dichloroethane	µg/L	1	<1.0	<1.0	N/C
	1,2-dichloropropane	µg/L	1	<1.0	<1.0	N/C
	1,3,5-trimethylbenzene	µg/L	1	<1.0	<1.0	N/C
	1,3-dichlorobenzene	µg/L	1	<1.0	<1.0	N/C
	1,3-dichloropropane	µg/L	1	<1.0	<1.0	N/C
	1,4-dichlorobenzene	µg/L	1	<1.0	<1.0	N/C
	2,2-dichloropropane	µg/L	1	<1.0	<1.0	N/C
	2-chlorotoluene	µg/L	1	<1.0	<1.0	N/C
	4-chlorotoluene	µg/L	1	<1.0	<1.0	N/C
	Bromobenzene	µg/L	1	<1.0	<1.0	N/C
	Bromochloromethane	µg/L	1	<1.0	<1.0	N/C
	Bromodichloromethane	µg/L	1	<1.0	<1.0	N/C
	Bromoform	µg/L	1	<1.0	<1.0	N/C
	Bromomethane	µg/L	10	<10.0	<10.0	N/C
	Carbon tetrachloride	µg/L	1	<1.0	<1.0	N/C
	Chlorobenzene	µg/L	1	<1.0	<1.0	N/C
	Chlorodibromomethane	µg/L	1	<1.0	<1.0	N/C
	Chloroethane	µg/L	10	<10.0	<10.0	N/C
	Chloroform	µg/L	1	<1.0	<1.0	N/C
	Chloromethane	µg/L	10	<10.0	<10.0	N/C
	cis-1,2-dichloroethene	µg/L	1	<1.0	<1.0	N/C
	cis-1,3-dichloropropene	µg/L	1	<1.0	<1.0	N/C
	Dibromomethane	µg/L	1	<1.0	<1.0	N/C
	Dichlorodifluoromethane	µg/L	10	<10.0	<10.0	N/C
	Hexachlorobutadiene	µg/L	1	<1.0	<1.0	N/C
	Isopropylbenzene	µg/L	1	<1.0	<1.0	N/C
	n-butylbenzene	µg/L	1	<1.0	<1.0	N/C
	n-propylbenzene	µg/L	1	<1.0	<1.0	N/C
	p-isopropyltoluene	µg/L	1	<1.0	<1.0	N/C
	sec-butylbenzene	µg/L	1	<1.0	<1.0	N/C
	Styrene	µg/L	1	<1.0	<1.0	N/C
	TCE	µg/L	1	<1.0	<1.0	N/C
	tert-butylbenzene	µg/L	1	<1.0	<1.0	N/C
	Tetrachloroethene	µg/L	1	<1.0	<1.0	N/C
	trans-1,2-dichloroethene	µg/L	1	<1.0	<1.0	N/C
	trans-1,3-dichloropropene	µg/L	1	<1.0	<1.0	N/C
	Trichlorofluoromethane	µg/L	10	<10.0	<10.0	N/C
	Vinyl chloride	µg/L	10	<10.0	<10.0	N/C

Notes

N/C

RPD not calculated where both duplicate pairs reported concentrations <PQL

Italics

One duplicate pair reported a concentration < PQL, the PQL has been used to calculate the RPD

Bold

RPD exceeds nominally acceptable limit of 30% for inorganics or 50% for organics



Appendix C – Available on Request

Laboratory Reports and Chain of Custody Sheets



Appendix D – Available on Request

Borehole and Groundwater Well Construction Logs



Appendix E – Available on Request

Calibration Certificates

Water quality meter

Interface meter

PID



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Document Status

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		Name	Signature	Name	Signature	Date
0	K Jones	Wendy Phillips		Wendy Phillips		5/5/9