

TABLE 1.1  
GTP Groundwater and Surface Water Chemical Monitoring Program  
2008 - 2010

Proposed 2008/2009 GTP Chemical Monitoring Program													
Plume Label	Location	Chemical Sampling Locations				Analytical Program				Comments			
		Well/ Piezometer ID	All well sample port depths (m)	Scheduled Sample Depths (m)	Shallow depths (ft app.)	VC SIM analysis sample ports	Volatile CHCs		Semivolatile CHCs				
		Quarterly	Annual (Sept 2010 etc)	Biennial (Sept 2009, Sept 2011 etc)	Quarterly	Annual (Sept 2008, Sept 2010 etc)	Biennial (Sept 2009, Sept 2011 etc)	Quarterly	Annual (Sept 2008, Sept 2010 etc)	Biennial (Sept 2009, Sept 2011 etc)			
<b>Southern Plumes</b>													
S1/S2	RailCorp	BP95	3, 6, 9, 12, 15, 18, 21	3, 6, 9, 12, 15, 18, 21	3	3	1	7	7	7	7	7	Quarterly and annual sampling of shallowest port to assess vCHC concentration against CHHRA. Biennial sampling of deeper ports to assess changes in CHC distribution in Rail Corridor and S1/S2. Upgradient of PCA. Additional annual svCHC analysis as per DECC comments August 2008. Annual sampling at 7 ports to commence in September 2009 as per Orical/DECC agreement (October 2008)
S2/S3	Block 1 Southlands	BP23	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	4, 8, 12, 16, 20				5		5		5	Biennial sampling to assess changes in CHC distribution at Block 1 Southlands. Upgradient of PCA
S1/C1	Block 1 Southlands	BP45	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	4, 8, 12, 16, 20				5		5		5	Changed to annual monitoring of vCHCs as per DECC comments August 2008
S1/C1	Block 1 Southlands	BP46	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	4, 8, 12, 16, 20				5		5		5	Biennial sampling to assess changes in CHC distribution at Block 1 Southlands. Upgradient of PCA
S1/S2	Block 1 Southlands	BP47	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	4, 8, 12, 16, 20				5		5		5	Changed to annual monitoring of vCHCs as per DECC comments August 2008
S2	Block 1 Southlands	BP48	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	4, 8, 12, 16, 20				4		4		5	Biennial sampling to assess changes in CHC distribution at Block 1 Southlands. Upgradient of PCA
S2/S3	Block 1 Southlands	BP49	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	4, 8, 12, 16, 20				4		4		5	Biennial sampling to assess changes in CHC distribution at Block 1 Southlands. Upgradient of PCA
S2/S3	Block 1 Southlands	BP50	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	6, 8, 12, 16, 20				5		5		5	Biennial sampling to assess changes in CHC distribution at Block 1 Southlands. Upgradient of PCA
S1/C1	Block 1 Southlands	WG226S	(1-4)	(1-4)				1		1			New to program. Annual sampling of shallowest well to assess vCHC concentration against CHHRA and assess shallow groundwater adjacent to Springvale Drain
S1/S2	Block 1 Southlands	WG223S	(1-4)	(1-4)				1		1			New to program. Annual sampling of shallowest well to assess vCHC concentration against CHHRA and assess shallow groundwater adjacent to Springvale Drain
S2/S3	Block 1 Southlands	WG224S	(1-4)	(1-4)				1		1			New to program. Annual sampling of shallowest well to assess vCHC concentration against CHHRA and assess shallow groundwater adjacent to Springvale Drain
S3	Block 1 Southlands	BP51	3, 6, 9, 12, 15, 18, 21	6, 9, 12, 15, 21				5		5		5	Biennial sampling to assess changes in CHC distribution at Block 1 Southlands. Upgradient of PCA
S3	Botany Road	WG23S/ WG75I	4-6, 12-15, 21	4-6, 12-15	WG23S	WG23S	1	2	2	2		2	Quarterly sampling of shallowest port to assess vCHC concentration against CHHRA. Annual sampling of deeper well to assess changes in CHC distribution on periphery of S2/S3 Plumes. Additional VC SIM analysis and annual svCHCs analysis included as per DECC comments (August 2008).
S2/S3	Discovery Cove	BP61	4, 6, 8, 10, 12, 14, 16, 18, 20	4, 8, 12, 16, 20			1	5	5	5		5	Quarterly sampling of shallowest port to assess vCHC concentration against CHHRA. Annual sampling of deeper ports to assess changes in CHC distribution. Upgradient of SCA. Additional annual svCHC analysis as per DECC comments August 2008.
S2/S3	Discovery Cove	BP114	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24	4, 6, 10, 16, 20			1	5	5	5		5	Quarterly sampling of shallowest port to assess vCHC concentration against CHHRA. Annual sampling of deeper ports to assess changes in CHC distribution on periphery of S2/S3 Plumes.
S3	Discovery Cove	BP62	4, 6, 8, 10, 12, 14, 16, 18, 20	4, 8, 12, 16, 20			3	3	3	3		3	Annual monitoring to assess changes in vCHC distribution on periphery of S3. Biennial sampling to assess changes in svCHC distribution.
S2/S3/C1	Downgradient of Foreshore Road	BP115	3,5,6,5	3,5,6,5			3	3	3	3		3	Quarterly sampling of shallowest well to assess vCHC concentration against CHHRA. Annual sampling of deeper wells to assess changes in CHC distribution. Between SCA and Botany Bay. Increase in sampling ports for quarterly program as per DECC comments August 2008 and decommissioning of other Penrhyr Estuary monitoring locations
S2/S3/C1	Downgradient of Foreshore Road	BP108	2,25,3,25,4,25	2,25,3,25,4,25									Quarterly monitoring of water quality parameters to assess salinity of groundwater. Between SCA and Botany Bay. Decommissioned in August 2008 (Port Botany expansion project)
S2/S3/C1	Downgradient of Foreshore Road	BP109	2,25,3,25,4,25	2,25,3,25,4,25									Quarterly monitoring of water quality parameters to assess salinity of groundwater. Between SCA and Botany Bay. Decommissioned in August 2008 (Port Botany expansion project)
S2/S3/C1	Downgradient of Foreshore Road	MWF15S/I/D	S, I, D	S, I, D	(/)	(/)	3	3	3	3		3	Quarterly monitoring of all wells to assess changes in vCHC distribution.
							10	43	71	0	14	64	

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<b>Central EDC Plume</b>												
C1	BIP	BP91	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30	6, 10, 16, 20, 24, 26, 28, 30				8	8	8	Annual monitoring to assess changes in CHC distribution within C1 Source Area. Upgradient of BIP line.	
C1	BIP	BP07	???	6, 8, 10, 12, 14				5	5	5	Annual monitoring to assess changes in CHC distribution within C1 Plume. Upgradient of BIP line.	
N4/N5/C1	Downgradient HCB Drum Store	BP80	3, 6, 9, 12, 15, 18, 21, 24, 27, 30	6, 15, 18, 24, 30				5	5	5	Annual monitoring to assess changes in CHC distribution within N4/N5/C1 Plume. Upgradient of BIP line.	
C1	Nant Street Tank Farm	BP06	???	6, 10, 12, 16, 18				5	5	5	Biennial monitoring to assess changes in CHC distribution within C1 Plume. Upgradient of PCA.	
C1	Block 2 Southlands	BP02	4, 6, 8, 12, 14, 16, 18, 20, 22, 24, 26	8, 12, 14, 16, 20				5	5	5	Biennial monitoring to assess changes in CHC distribution within C1 Plume at Block 2 Southlands. Upgradient of PCA. Changed to annual monitoring of vCHCs as per DECC comments August 2008.	
C1/S1	Block 2 Southlands	BP03	4, 6, 8, 12, 14, 16, 18, 20, 22, 24, 26	6, 12, 14, 16, 22, 26				6	6	6	Biennial monitoring to assess changes in CHC distribution within C1/S1 Plume at Block 2 Southlands. Upgradient of PCA. Changed to annual monitoring of vCHCs and svCHCs as per DECC comments August 2008.	
C1	Block 2 Southlands	BP33	4, 6, 8, 12, 14, 16, 18, 20	8, 12, 14, 16, 18				5	5	5	Biennial monitoring to assess changes in CHC distribution within C1 Plume at Block 2 Southlands. Upgradient of PCA. Changed to annual monitoring of vCHCs as per DECC comments August 2008.	
C1	Block 2 Southlands	BP21	4, 6, 8, 12, 14, 16, 18, 20	8, 12, 14, 16, 18				5	5	5	Biennial monitoring to assess changes in CHC distribution within C1 Plume at Block 2 Southlands. Upgradient of PCA. Changed to annual monitoring of vCHCs as per DECC comments August 2008.	
C1/S1	Block 2 Southlands	WG74S/ID	(4-7) (14-17) (27-30)	(4-7) (14-17) (27-30)				3	3	3	Biennial monitoring to assess changes in CHC distribution within C1/S1 Plumes at Block 2 Southlands. Upgradient of PCA.	
C1/N5	Greenfield Street	BP41	2, 4, 6, 8, 12, 14, 16, 18, 20	2, 4, 8, 12, 14, 16, 18	2	2	3	7	7	7	Quarterly sampling of shallowest port for comparison to CHHRA. Annual sampling of deeper ports to assess changes in C1/N5 Plume distribution. Upgradient of SCA. Additional shallow ports 4 and 8 m added to quarterly monitoring round as per DECC comments August 2008.	
C1/S1	ING Property - Botany Road	BP59	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30	4, 8, 12, 16, 18, 20, 24, 30	4	4	3	6	6	6	Quarterly sampling of shallowest port for comparison against CHHRA. Annual sampling of deeper ports to assess changes in C1/S1 Plume distribution. Upgradient of SCA. Additional shallow ports 8 and 12 m added to quarterly monitoring round as per DECC comments August 2008. Additional VC SIM analysis included as per DECC comments (August 2008).	
C1	Bayview Towers - Botany Road	BP76	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30	4, 6, 10, 14, 18, 22, 26	4	4	1	7	7	7	Quarterly sampling of shallowest port for comparison to CHHRA. Annual sampling of deeper ports to assess changes in C1 Plume distribution. Regular monitoring of locations BP59, BP60 and BP77 in vicinity. Upgradient of SCA. Additional VC SIM analysis included as per DECC comments (August 2008).	
C1/S1	Botany Golf Course	BP80	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28	4, 6, 10, 14, 18, 22, 26	4	4	1	7	7	7	Quarterly sampling of shallowest port for comparison to CHHRA. Annual sampling of deeper ports to assess changes in C1/S1 Plume distribution. Upgradient of SCA. <b>March quarterly to include sampling at all ports as per DECC comments August 2008.</b>	
S1/C1	Botany Golf Course	WG154S/ WG154D	(4-7) and (17-20)	(4-7) and (17-20)	WG154S	WG154S	1	2	2	2	Quarterly sampling of shallowest well for comparison against CHHRA. Annual sampling of deeper ports to assess changes in C1/S1 Plume distribution. Upgradient of SCA. Additional annual svCHC analysis as per DECC comments August 2008.	
C1	Botany Golf Course	BP77	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30	4, 6, 10, 14, 18, 22, 26, 28	4	4	1	7	7	7	Quarterly sampling of shallowest well for comparison against CHHRA. Annual sampling of deeper ports to assess changes in C1 Plume distribution. Upgradient of SCA. <b>March quarterly to include sampling at all ports as per DECC comments August 2008.</b>	
							10	75	85	0	8	49

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							Quarterly	Annual (Sept 2008, Sept 2010 etc)	Quarterly	Annual (Sept 2008, Sept 2010 etc) Biennial (Sept 2009, Sept 2011 etc)	
<b>Northern Plumes</b>											
-	North of Plant Site - Collins St	BP87	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33	6, 9, 15, 18, 27, 30		6			6		Biennial monitoring to assess changes in vCHC concentrations.
N1	Northwest of Plant Site - Ousey St	BP86	3, 6, 9, 12, 15, 18, 21	3, 6, 9, 12, 15, 18		3			6		Biennial monitoring to assess changes in vCHC concentrations.
-	Pagewood Public School	BP85	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39	6, 9, 12, 18, 24, 36		6			6		Biennial monitoring to assess changes in vCHC concentrations.
N1/N2	Pater Street	BP110	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42	3, 6, 12, 21, 27, 33, 39	3	3			7		Annual sampling of shallow groundwater and biennial sampling of the deeper aquifer to assess changes in vCHC distribution within the N1/N2 Plumes downgradient of BIP. Additional VC SIM analysis included as per DECC comments (August 2009).
N4	SRA/Tank Farm	WG68// WG68D	(4-7) (10.5-13.5) (26-29)	(4-7) (10.5-13.5) (26-29)					2	2	Annual sampling to assess changes in vCHC distribution within the N4/N5 Plumes downgradient of BIP.
N4	SRA/Tank Farm	WG227S	(1-4)	(1-4)	WG227S				1	1	New to program - replaces WG41S. Quarterly sampling to assess vCHC concentrations adjacent to Springvale Drain. Biennial monitoring of svCHCs.
N3	Mobil Terminal Campark	WG234S/ WG234I/ WG234D	(6-9) (15-18) (25-28)	(6-9) (15-18) (25-28)	WG234S	WG234S			3	3	New to program - replaces WG66. Quarterly monitoring of vCHCs in shallow well for comparison to CHHRA. Annual sampling of vCHCs in deeper wells to assess changes in vCHC distribution within the N3 Plume downgradient of BIP. Biennial monitoring of svCHCs.
N1	Stephen Road	WG231S/ WG231I/ WG231D	(8-11) (16-19) (28-31)	(8-11) (16-19) (28-31)	WG231S	WG231S			3	3	New to program - replaces BP76. Quarterly sampling of shallow well for comparison to CHHRA. Annual sampling of deeper wells to assess changes in vCHC distribution within the N1 Plume downgradient of BIP.
N1	Nuplex	WG229S/ WG229I/ WG229D	(8-11) (19-22) (26.5-29.5)	(8-11) (19-22) (26.5-29.5)	WG229S	WG229S			3	3	New to program - replaces BP04. Quarterly monitoring of vCHCs in shallow well for comparison to CHHRA. Annual monitoring of vCHCs in deeper wells to assess changes in vCHC distribution within the N1 Plume downgradient of BIP.
N2/N3	Nuplex	WG233S/ WG233I/ WG233D	(8-11) (19-22) (29-32)	(8-11) (19-22) (29-32)	WG233S	WG233S			3	3	New to program - replaces BP52. Quarterly monitoring of vCHCs in shallow well for comparison to CHHRA. Annual monitoring of vCHCs in deeper wells to assess changes in vCHC distribution within the N2/N3 Plumes downgradient of BIP. Additional VC SIM analysis included as per DECC comments (August 2008).
N1/N2	Nuplex	WG230S/ WG230I/ WG230D	(8-11) (18-21) (29.5-32.5)	(8-11) (18-21) (29.5-32.5)					3		New to program - replaces BP53. Biennial monitoring to assess changes in vCHC distribution within the N1/N2 Plumes downgradient of BIP. Quarterly monitoring of WG229S and WG233S considered to be sufficient to assess water quality in this area.
N1	Wiggins St/Trevelyan St (Banksmeadow PS)	BP84	3, 6, 9, 12, 15, 18, 21, 24, 27	6, 12, 21, 24, 27	6	6			5	5	Quarterly monitoring of vCHCs in shallowest port for comparison to CHHRA. Annual monitoring of vCHCs in deeper ports to assess changes in N1 Plume distribution.
N1	Banksmeadow PS	WG72S/ WG72I/ WG72D	(15-16) (21-24) (29-32)	(15-18) (21-24) (29-32)		WG72S			3	3	Annual monitoring of vCHCs to assess changes in N1 Plume distribution.
N2/N3	Australand access road (Fletcher's property) downgradient of rail corridor.	BP111	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42	3, 6, 12, 18, 24, 30, 39	3	3			1	7	Annual monitoring of vCHC in shallowest port for comparison to CHHRA. Biennial monitoring of CHCs in deeper ports to assess changes in N2/N3 Plume distribution downgradient of BIP. Additional VC SIM analysis included as per DECC comments (August 2008).
N3/N4/N5	Northern boundary of Mobil property.	BP112	2, 5, 8, 11, 14, 17	2, 8, 11, 14, 17					5	5	Biennial monitoring of CHCs to assess changes in N3/N4/N5 Plume distribution.
N3/N4/N5	Northern boundary of Mobil property.	WG236	(18.5-21.5)	(18.5-21.5)					1	1	New to program - deeper well to supplement BP112. Biennial monitoring to assess changes in CHC distribution within the N3/N4/N5 Plumes downgradient of BIP.
N3/N4/N5	Greenfield Street - downgradient Solway property McPherson Street.	BP113	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42	3, 6, 15, 18, 24, 30, 36	3	3			7	7	Quarterly monitoring of vCHCs in shallowest port for comparison against CHHRA. Annual monitoring of vCHCs in deeper ports to assess changes in N3/N4/N5 Plume distribution. Upgrading of SCA. Biennial monitoring of svCHCs. Additional annual svCHC analysis as per DECC comments August 2008.
N3	McPherson Street	BP85	3, 6, 9, 12, 15, 18, 21, 24, 27	6, 12, 18, 24, 27	6	6			1	5	Annual monitoring of vCHCs in shallowest port for comparison to CHHRA. Biennial monitoring of CHCs in deeper ports to assess changes in N3 Plume distribution in region of the west of PCA. Additional VC SIM analysis included as per DECC comments (August 2008).
N2	McPherson Street	BP86	3, 6, 9, 12, 15, 18, 21, 24, 27, 30	6, 12, 18, 24, 27					1	5	Quarterly monitoring of vCHCs in shallowest port for comparison to CHHRA. Annual monitoring of vCHCs in deeper ports to assess changes in N2 Plume distribution in region of the west of PCA. Biennial monitoring of svCHCs.

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							Quarterly	Annual (Sept 2008, Sept 2010 etc)	Biennial (Sept 2009, Sept 2011 etc)	Quarterly	Annual (Sept 2008, Sept 2010 etc)		Biennial (Sept 2009, Sept 2011 etc)
N1/N2	Stephen Road/Botany Road (Department of Defence)	BP89	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39	6, 12, 18, 21, 24, 27, 30	6	6	1	7	7			Quarterly monitoring of vCHCs in shallowest port for comparison to CHHRA. Annual monitoring of vCHCs in deeper ports to assess changes in N1/N2 Plume distribution.	
N1	Fremlin Street	BP57	3, 6, 9, 12, 15, 18, 21, 24, 27, 30	3, 6, 12, 18, 24, 27	3	3	1	6	6			Quarterly monitoring of vCHCs in shallowest port for comparison to CHHRA. Annual monitoring of vCHCs in deeper ports to assess changes in N1 Plume distribution.	
N2/N3	Botany Golf Course	BP58	3, 6, 9, 18, 24, 27	3, 6, 9, 18, 24, 27	3	3	1	6	6			Quarterly monitoring of vCHCs in shallowest port for comparison to CHHRA. Annual monitoring of vCHCs in deeper ports to assess changes in N2/N3 Plume distribution. Upgradient of SCA.	
N2/N3 N2	Botany Golf Course Offsite - Botany Golf Course	WG881 BP72	12-18m 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29	12-18m 3, 5, 9, 15, 19, 23	3	3	1	6	6			Annual monitoring of vCHCs to supplement monitoring at BP58. Upgradient of SCA Quarterly monitoring of vCHCs in shallowest port for comparison to CHHRA. Annual monitoring of vCHCs in deeper ports to assess changes in N2 Plume distribution.	
N1/N2	Foreshore Road	BP116	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39	6, 9, 15, 21, 24, 30, 36		6			7			Biennial monitoring of CHCs to assess vCHC concentrations at the periphery of the N1/N2 Plumes upgradient of Botany Bay.	
N1	Foreshore Road	WG765/ WG76D	(4-7) (27-30)	(4-7) (27-30)		WG76S			2			Biennial monitoring of CHCs to assess vCHC concentrations at the periphery of the N1 Plume upgradient of Botany Bay.	
							<b>13</b>	<b>64</b>	<b>116</b>	<b>0</b>	<b>7</b>	<b>36</b>	
<b>Other Areas</b>													
-	Chlorine Plant	MWC10S/10D	(6-9) (9-12) (18-21)	(6-9) (9-12) (18-21)		MWC10S			3			3	Biennial monitoring of CHCs.
-	McPherson St	WG30/ MCW12D	(4-7) (11-14)	(4-7) (11-14)		WG30			2			2	Biennial monitoring to assess CHC concentrations to the east of Southern Plumes.
							<b>0</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	

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<b>Penrhyn Estuary</b>													
S2/S3	Offsite – Penrhyn Estuary	BP01		0.75, 1.25, 2, 6, 10	0.75	0.75	5	5	5	5	5	5	Quarterly monitoring of vCHCs in shallowest port (0.75 m) for assessment against the CHHRA. Annual monitoring of deeper ports to assess changes in S1/S2/S3 Plume distribution. Biennial monitoring of svCHCs. Increase in sampling ports for quarterly program as per DECC comments August 2008 and decommissioning of other Penrhyn Estuary monitoring locations.
S2/S3	Central mudflat - Middle Estuary	BP42*, BP43*		0.1, 0.5, 2.0	0.1	0.1	12	18	18	18	3	3	Quarterly monitoring of vCHCs in shallowest port (0.1 m) at high/low tides for assessment against the CHHRA. Annual monitoring of 0.1, 0.5 and 2.0 m ports. Biennial monitoring of svCHCs. Due to be decommissioned August 2008 (Port Botany expansion project). BP44 was decommissioned prior to September 2008 sampling. Continued sampling of ports until locations have been removed due to the Port Botany expansion.
STC1	Northwestern mudflat - Middle Estuary	BP64*, BP65*		0.1, 0.5, 2.0	0.1	0.1	12	18	18	18	3	3	Quarterly monitoring of vCHCs in shallowest port (0.1 m) at high/low tides for assessment against the CHHRA. Annual monitoring of 0.1, 0.5 and 2.0 m ports. Biennial monitoring of svCHCs. Due to be decommissioned August 2008 (Port Botany expansion project). BP66 was decommissioned prior to September 2008 sampling. Continued sampling of ports until locations have been removed due to the Port Botany expansion.
							29	41	41	0	0	11	
<b>Surface Water</b>													
Springvale Drain	Upstream of Orica Stormwater Pipe	SW046					1	1	1	1			Quarterly monitoring of vCHCs for assessment against the CHHRA. Biennial monitoring of svCHCs.
Springvale Drain	Realignment – Springvale Drain Outlet	SW049					1	1	1	1			Quarterly monitoring of vCHCs. Biennial monitoring of svCHCs.
Springvale Drain	McPherson Street	SW005					1	1	1	1			Quarterly monitoring of vCHCs for assessment against the CHHRA. Biennial monitoring of svCHCs.
Springvale Drain	Penrhyn Estuary Outlet	SW031*					2	2	2	2			Quarterly monitoring of vCHCs for assessment against the CHHRA. Biennial monitoring of svCHCs.
Springvale Drain	Penrhyn Estuary SVD channel	SW030					1	1	1	1			Quarterly monitoring of vCHCs. Biennial monitoring of svCHCs.
Penrhyn Estuary	Old Boat Ramp	SW028*					2	2	2	2			Quarterly monitoring of vCHCs for assessment against the CHHRA. Biennial monitoring of svCHCs.
Penrhyn Estuary	Opposite Old Boat Ramp	SW060					1	1	1	1			Quarterly monitoring of vCHCs for assessment against the CHHRA. Biennial monitoring of svCHCs.
Penrhyn Estuary	New Boat Ramp	SW048*					2	2	2	2			Quarterly monitoring of vCHCs for assessment against the CHHRA. Biennial monitoring of svCHCs.
Botany Golf Course	Pond in Botany Golf Course	SW066					1	1	1	1			Biennial monitoring of vCHCs. Monitoring frequency to be reviewed pending OHC concentrations detected during first two sampling events.
Floodvale Drain	Upstream Southlands	SW052					1	1	1	1			Quarterly monitoring of vCHCs. Biennial monitoring of svCHCs.
Floodvale Drain	McPherson Street	SW053					1	1	1	1			Quarterly monitoring of vCHCs. Biennial monitoring of svCHCs.
Penrhyn Estuary	Floodvale Drain Outlet	SW029*					2	2	2	2			Quarterly monitoring of vCHCs for assessment against the CHHRA. Biennial monitoring of svCHCs.
							16	16	16	0	0	15	
							78	241	334	0	29	180	

\* Samples to be collected at both high tide and low tide  
note: vCHC = volatile chlorinated hydrocarbon compounds; svCHC = semi-volatile chlorinated hydrocarbon compounds



**TABLE 1.2**  
**GTP Quarterly Hydraulic Containment Water Level Monitoring Locations**  
**December 2008**

Location ID	Monitoring Purpose	Location Description	Well Type	Well Construction Type	MGAS6		Aquifer Shallow/Deep
					Easting	Northing	
WG117	BIP - Regional	BIP - Rosella	Monitoring Well	50 mm PVC	335234	6241958	Shallow
WG118	BIP - Regional	BIP - 1st Street	Monitoring Well	50 mm PVC	335073	6241836	Shallow
WG123D	BIP - Regional	BIP - 1st Street	Monitoring Well	50 mm PVC	334916	6242034	Deep
WG123S	BIP - Regional	BIP - 1st Street	Monitoring Well	50 mm PVC	334916	6242034	Shallow
WG124	BIP - Regional	BIP - Rosella	Monitoring Well	50 mm PVC	335358	6241770	Shallow
WG127S	BIP - Regional	BIP - Rosella	Monitoring Well	50 mm PVC	335303	6242213	Shallow
WG150D	BIP - Regional	BIP - 1st Street	Monitoring Well	50 mm PVC	335013	6241908	Deep
WG200D	BIP - Regional	HCB Waste Encapsulation	Monitoring Well	25 mm PVC	335644	6242358	Deep
WG200S	BIP - Regional	HCB Waste Encapsulation	Monitoring Well	25 mm PVC	335644	6242357	Shallow
WG202D	BIP - Regional	HCB Waste Encapsulation	Monitoring Well	25 mm PVC	335794	6242152	Deep
WG202S	BIP - Regional	HCB Waste Encapsulation	Monitoring Well	25 mm PVC	335794	6242152	Shallow
WG204D	BIP - Regional	BIP - Solvents Plant	Monitoring Well	50 mm PVC	335453	6241424	Deep
WG204S	BIP - Regional	BIP - Solvents Plant	Monitoring Well	50 mm PVC	335453	6241424	Shallow
WG205D	BIP - Regional	BIP - 2nd Street	Monitoring Well	50 mm PVC	335506	6241435	Deep
WG205S	BIP - Regional	BIP - 2nd Street	Monitoring Well	50 mm PVC	335506	6241435	Shallow
WG208D	BIP - Regional	BIP - Solvents Plant	Monitoring Well	50 mm PVC	335578	6241342	Deep
WG208S	BIP - Regional	BIP - Solvents Plant	Monitoring Well	50 mm PVC	335578	6241342	Shallow
WG218D	BIP - Regional	North-eastern extremities	Monitoring Well	50 mm PVC	336144	6241760	Deep
WG216D	BIP - Regional	North-eastern extremities	Monitoring Well	50 mm PVC	336112	6242124	Deep
WG216S	BIP - Regional	North-eastern extremities	Monitoring Well	50 mm PVC	336112	6242124	Shallow
WG217D	BIP - Regional	North-eastern extremities	Monitoring Well	50 mm PVC	336065	6242340	Deep
WG217S	BIP - Regional	North-eastern extremities	Monitoring Well	50 mm PVC	336065	6242341	Shallow
WG228D	BIP - Regional	Offsite - Pater Street	Monitoring Well	32 mm PVC	334799	6241938	Deep
WG228S	BIP - Regional	Offsite - Pater Street	Monitoring Well	32 mm PVC	334799	6241938	Shallow
WG234D	BIP - Regional	Mobil Carpark	Monitoring Well	50 mm PVC	334853	6241530	Deep
WG234I	BIP - Regional	Mobil Carpark	Monitoring Well	50 mm PVC	334853	6241530	Deep
WG234S	BIP - Regional	Mobil Carpark	Monitoring Well	50 mm PVC	334853	6241530	Shallow
WG41S	BIP - Regional	Nant St Tank Farm	Monitoring Well	50 mm PVC	335141	6241614	Shallow
WG48	BIP - Regional	BIP - Rosella	Monitoring Well	50 mm PVC	335238	6241970	Shallow
WG49	BIP - Regional	BIP - Polypropylene Plant	Monitoring Well	50 mm PVC	335406	6242115	Deep
WG68D	BIP - Regional	Nant St Tank Farm	Monitoring Well	50 mm PVC	335114	6241643	Deep
WG68I	BIP - Regional	Nant St Tank Farm	Monitoring Well	50 mm PVC	335114	6241646	Deep
WG77S	BIP - Regional	Nant St Tank Farm	Monitoring Well	50 mm PVC	335151	6241410	Shallow
WG83I	BIP - Regional	BIP - EDC Storage Tanks	Monitoring Well	50 mm PVC	335574	6241699	Deep
WG83S	BIP - Regional	BIP - EDC Storage Tanks	Monitoring Well	50 mm PVC	335575	6241699	Shallow
WG91S	BIP - Regional	BIP - Vinyls Plant	Monitoring Well	50 mm PVC	335647	6241656	Shallow
EWB02	PCA - Containment	PCA - Block 2	Extraction Well	150mm Steel	334986	6241200	Deep
EWB05	PCA - Containment	PCA - Block 2	Extraction Well	150mm Steel	334935	6241074	Deep
EWB06	PCA - Containment	PCA - Block 2	Extraction Well	150mm Steel	334885	6241109	Deep
EWB07D	PCA - Containment	PCA - Block 1	Extraction Well	150mm Stainless Steel	335276	6241018	Deep
EWB08D	PCA - Containment	PCA - Block 1	Extraction Well	150mm Stainless Steel	335239	6241024	Deep
EWB09D	PCA - Containment	PCA - Block 1	Extraction Well	150mm Stainless Steel	335198	6241031	Deep
EWB10D	PCA - Containment	PCA - Block 2	Extraction Well	150mm Stainless Steel	335130	6241042	Deep
EWB11D	PCA - Containment	PCA - Block 2	Extraction Well	150mm Stainless Steel	335105	6241047	Deep
EWB12D	PCA - Containment	PCA - Block 2	Extraction Well	150mm Stainless Steel	335045	6241057	Deep
EWB13D	PCA - Containment	PCA - Block 2	Extraction Well	150mm Stainless Steel	334992	6241066	Deep
EWB14D	PCA - Containment	PCA - Block 2	Extraction Well	150mm Stainless Steel	334965	6241166	Deep
EWB15D	PCA - Containment	PCA - Block 2	Extraction Well	150mm Stainless Steel	334859	6241088	Deep
MWB01D	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335256	6241021	Deep
MWB01I	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335256	6241021	Deep
MWB01S	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335256	6241021	Shallow
MWB02D	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335218	6241027	Deep
MWB02I	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335218	6241027	Deep
MWB02S	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335218	6241027	Shallow
MWB03D	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335174	6241034	Deep
MWB03I	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335174	6241034	Deep
MWB03S	PCA - Containment	PCA - Block 1	Monitoring Well	50 mm PVC	335174	6241034	Shallow
MWB04D	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335117	6241045	Deep
MWB04I	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335117	6241045	Deep
MWB04S	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335117	6241045	Shallow
MWB05D	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335083	6241050	Deep
MWB05I	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335083	6241050	Deep
MWB05S	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335083	6241050	Shallow
MWB06D	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335017	6241061	Deep
MWB06I	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335017	6241061	Deep
MWB06S	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	335017	6241061	Shallow
MWB07D	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334960	6241071	Deep
MWB07I	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334960	6241071	Deep
MWB07S	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334960	6241071	Shallow
MWB08D	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334901	6241086	Deep
MWB08I	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334901	6241086	Deep
MWB08S	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334901	6241086	Shallow
MWB09D	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334869	6241106	Deep
MWB09I	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334869	6241106	Deep
MWB09S	PCA - Containment	PCA - Block 2	Monitoring Well	50 mm PVC	334869	6241106	Shallow
MWB11D	PCA - Regional	Macpherson Street	Monitoring Well	50 mm PVC	334995	6241047	Deep
MWB11I	PCA - Regional	Macpherson Street	Monitoring Well	50 mm PVC	334996	6241047	Deep
MWB11S	PCA - Regional	Macpherson Street	Monitoring Well	50 mm PVC	334996	6241047	Shallow
MWB12D	PCA - Regional	PCA - Southlands Block 1	Monitoring Well	50 mm PVC	335378	6241000	Deep
MWB12S	PCA - Regional	PCA - Southlands Block 1	Monitoring Well	50 mm PVC	335378	6241000	Shallow
SL01D	PCA - Regional	Solvay	Monitoring Well	50 mm PVC	334776	6241162	Deep
WG141	PCA - Regional	Block 1 Southlands (BP24)	Monitoring Well	50 mm PVC	335355	6241162	Deep
WG146I	PCA - Regional	Southlands Block 2	Monitoring Well	50 mm PVC	335005	6241247	Deep
WG147I	PCA - Regional	Southlands Block 2	Monitoring Well	50 mm PVC	334963	6241188	Deep
WG152D	PCA - Regional	Southlands Block 2	Monitoring Well	50 mm PVC	334893	6241249	Deep
WG153D	PCA - Regional	Southlands Block 2	Monitoring Well	50 mm PVC	335045	6241126	Deep
WG162D	PCA - Regional	Block 2 Southlands	Monitoring Well	50 mm PVC	334899	6241122	Deep
WG162I	PCA - Regional	Block 2 Southlands	Monitoring Well	25 mm PVC	334899	6241123	Deep
WG162S	PCA - Regional	Block 2 Southlands	Monitoring Well	25 mm PVC	334899	6241123	Shallow
WG171I	PCA - Regional	Block 2 Southlands	Monitoring Well	25 mm PVC	335068	6241348	Deep
WG171S	PCA - Regional	Block 2 Southlands	Monitoring Well	25 mm PVC	335068	6241348	Shallow
WG21	PCA - Regional	Block 1 Southlands	Monitoring Well	50 mm PVC	335315	6241083	Shallow
WG61	PCA - Regional	Block 2 Southlands	Monitoring Well	50 mm PVC	334937	6241339	Deep
WG64	PCA - Regional	Block 2 Southlands	Monitoring Well	50 mm PVC	334940	6241340	Shallow
WG70D	PCA - Regional	Block 1 Southlands	Monitoring Well	50 mm PVC	335342	6241243	Deep
WG73D	PCA - Regional	Southlands Block 1	Monitoring Well	50 mm PVC	335252	6241031	Deep
WG73S	PCA - Regional	Southlands Block 1	Monitoring Well	50 mm PVC	335257	6241031	Shallow
WG74I	PCA - Regional	Southlands Block 2	Monitoring Well	50 mm PVC	334992	6241091	Deep
WG74S	PCA - Regional	Southlands Block 2	Monitoring Well	50 mm PVC	334990	6241091	Shallow
WG82D	PCA - Regional	Block 1 Southlands	Monitoring Well	50 mm PVC	335235	6241323	Deep
WG82S	PCA - Regional	Block 1 Southlands	Monitoring Well	50 mm PVC	335233	6241323	Shallow
MWC09D	Regional	BIP - Chlor-Alkali plant	Monitoring Well	50 mm PVC	335828	6241080	Deep
MWC09S	Regional	BIP - Chlor-Alkali plant	Monitoring Well	50 mm PVC	335829	6241081	Shallow
MWC11D	Regional	BIP - Chlor-Alkali plant	Monitoring Well	50 mm PVC	335618	6240908	Deep
MWC11S	Regional	BIP - Chlor-Alkali plant	Monitoring Well	50 mm PVC	335618	6240909	Shallow

TABLE 1.2  
GTP Quarterly Hydraulic Containment Water Level Monitoring Locations  
December 2008

Location ID	Monitoring Purpose	Location Description	Well Type	Well Construction Type	MGAS6		Aquifer Shallow/Deep
					Easting	Northing	
WG229D	Regional	Nuplex	Monitoring Well	32 mm PVC	334513	6241663	Deep
WG229S	Regional	Nuplex	Monitoring Well	32 mm PVC	334513	6241663	Shallow
WG231D	Regional	Offsite - Stephens Road	Monitoring Well	32 mm PVC	334492	6241924	Deep
WG231I	Regional	Offsite - Stephens Road	Monitoring Well	32 mm PVC	334492	6241924	Deep
WG231S	Regional	Offsite - Stephens Road	Monitoring Well	32 mm PVC	334492	6241924	Shallow
WG232I	Regional	Eastlakes Golf Course	Monitoring Well	50 mm PVC	334449	6243244	Deep
WG232S	Regional	Eastlakes Golf Course	Monitoring Well	50 mm PVC	334449	6243244	Shallow
WG235D	Regional	David Phillips Field	Monitoring Well	50 mm PVC	335733	6243970	Deep
WG235I	Regional	David Phillips Field	Monitoring Well	50 mm PVC	335736	6243978	Deep
WG235S	Regional	David Phillips Field	Monitoring Well	50 mm PVC	335735	6243974	Shallow
WG72D	Regional	Offsite - Banksmeadow PS	Monitoring Well	50 mm PVC	334380	6241482	Deep
WG72S	Regional	Offsite - Banksmeadow PS	Monitoring Well	50 mm PVC	334379	6241478	Shallow
EFW01D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334685	6240665	Deep
EFW01S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334681	6240665	Shallow
EFW02S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334665	6240668	Shallow
EFW03D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334645	6240671	Deep
EFW03S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334641	6240672	Shallow
EFW04S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334625	6240675	Shallow
EFW05D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334605	6240679	Deep
EFW05S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334601	6240680	Shallow
EFW06S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334585	6240684	Shallow
EFW07D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334565	6240688	Deep
EFW07S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334561	6240689	Shallow
EFW08S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334545	6240693	Shallow
EFW09D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334525	6240698	Deep
EFW09S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334521	6240699	Shallow
EFW10S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334505	6240704	Shallow
EFW11S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334485	6240710	Shallow
EFW12D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334465	6240716	Deep
EFW12S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334461	6240717	Shallow
EFW13S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334445	6240722	Shallow
EFW14D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334425	6240729	Deep
EFW14S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334421	6240730	Shallow
EFW15S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334405	6240736	Shallow
EFW16D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334385	6240752	Deep
EFW16S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334359	6240753	Shallow
EFW17S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334338	6240762	Shallow
EFW18D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334313	6240773	Deep
EFW18S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334309	6240774	Shallow
EFW19S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334288	6240784	Shallow
EFW20D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334263	6240796	Deep
EFW21S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334705	6240662	Shallow
EFW22D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334731	6240658	Deep
EFW22S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334727	6240659	Shallow
EFW23S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334745	6240657	Shallow
EFW24D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334765	6240655	Deep
EFW24S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334761	6240655	Shallow
EFW25S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334785	6240653	Shallow
EFW26D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334805	6240651	Deep
EFW26S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334801	6240652	Shallow
EFW27S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334825	6240652	Shallow
EFW28D	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334854	6240650	Deep
EFW28S	SCA - Containment	SCA - Foreshore Road	Extraction Well	150mm Stainless Steel	334849	6240650	Shallow
MWF01D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334673	6240667	Deep
MWF01I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334673	6240667	Deep
MWF01S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334673	6240667	Shallow
MWF02D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334633	6240674	Deep
MWF02I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334633	6240674	Deep
MWF02S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334633	6240674	Shallow
MWF03D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334593	6240682	Deep
MWF03I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334593	6240682	Deep
MWF03S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334593	6240682	Shallow
MWF04D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334553	6240691	Deep
MWF04I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334553	6240691	Deep
MWF04S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334553	6240691	Shallow
MWF05D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334513	6240702	Deep
MWF05I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334513	6240702	Deep
MWF05S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334513	6240702	Shallow
MWF06D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334475	6240713	Deep
MWF06I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334475	6240713	Deep
MWF06S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334475	6240713	Shallow
MWF07D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334436	6240725	Deep
MWF07I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334436	6240725	Deep
MWF07S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334436	6240725	Shallow
MWF08D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334384	6240744	Deep
MWF08I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334384	6240744	Deep
MWF08S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334384	6240744	Shallow
MWF09D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334326	6240767	Deep
MWF09I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334326	6240767	Deep
MWF09S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334326	6240767	Shallow
MWF10D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334275	6240790	Deep
MWF10I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334275	6240790	Deep
MWF10S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334275	6240790	Shallow
MWF11D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334696	6240663	Deep
MWF11I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334696	6240663	Deep
MWF11S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334696	6240663	Shallow
MWF12D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334753	6240656	Deep
MWF12I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334753	6240656	Deep
MWF12S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334753	6240656	Shallow
MWF13D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334793	6240652	Deep
MWF13I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334793	6240652	Deep
MWF13S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334793	6240652	Shallow
MWF14D	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334837	6240650	Deep
MWF14I	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334837	6240650	Deep
MWF14S	SCA - Containment	SCA - Foreshore Road	Monitoring Well	50 mm PVC	334837	6240650	Shallow
MWF15D	SCA - Regional	SCA - Penrhyn Estuary	Monitoring Well	50 mm PVC	334739	6240622	Deep
MWF15I	SCA - Regional	SCA - Penrhyn Estuary	Monitoring Well	50 mm PVC	334739	6240622	Deep
MWF15S	SCA - Regional	SCA - Penrhyn Estuary	Monitoring Well	50 mm PVC	334739	6240622	Shallow
WG154D	SCA - Regional	Botany Golf Course	Monitoring Well	50 mm PVC	334824	6240773	Deep
WG154S	SCA - Regional	Botany Golf Course	Monitoring Well	50 mm PVC	334823	6240768	Shallow
WG155D	SCA - Regional	Offsite - Discovery Cove	Monitoring Well	50 mm PVC	334985	6240801	Deep
WG155S	SCA - Regional	Offsite - Discovery Cove	Monitoring Well	50 mm PVC	334985	6240800	Shallow
WG23S	SCA - Regional	Cnr Botany Rd and Foreshore Dr	Monitoring Well	50 mm PVC	335049	6240694	Shallow
WG75D	SCA - Regional	Cnr Botany Rd and Foreshore Dr	Monitoring Well	50 mm PVC	335052	6240692	Deep
WG75I	SCA - Regional	Cnr Botany Rd and Foreshore Dr	Monitoring Well	50 mm PVC	335052	6240692	Deep

**TABLE 1.2**  
**GTP Quarterly Hydraulic Containment Water Level Monitoring Locations**  
**December 2008**

Location ID	Monitoring Purpose	Location Description	Well Type	Well Construction Type	Eastings	Northings	Aquifer
					MGA56		Shallow/Deep
WG88I	SCA - Regional	Botany Golf Course	Monitoring Well	50 mm PVC	334370	6240958	Deep
WG88S	SCA - Regional	Botany Golf Course	Monitoring Well	50 mm PVC	334370	6240958	Shallow
*WG224I	Springvale Drain	Nant St	Monitoring Well	50 mm PVC	335168	6241119	Deep
*WG224S	Springvale Drain	Nant St	Monitoring Well	50 mm PVC	335168	6241120	Shallow
*WG225S	Springvale Drain	Nant St	Monitoring Well	50 mm PVC	335164	6241238	Shallow
*WG226S	Springvale Drain	Nant St	Monitoring Well	50 mm PVC	335169	6241348	Shallow
*WG227S	Springvale Drain	Nant St	Monitoring Well	50 mm PVC	335132	6241586	Shallow

Notes

\*

Well not included in the Amended GTP Hydraulic Monitoring Programme but data included in the December 2008 monitoring report.

**Table 4.1**  
**Groundwater Elevations**  
**December 2008**

Bore Number	Area	shallow (1)/deep (2)	Easting	Northing	Oct-04	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
EWD01S	BIP	1	335467	6241472								4.78	4.08	2.61	3.30	1.48	3.59	3.94	3.71	4.28
EWD02I	BIP	2	335449	6241495								4.74	3.97	0.42	2.55	1.50	3.38	3.74	3.53	4.18
EWD02S	BIP	1	335451	6241492								5.06	4.11	2.25	2.07	2.32	1.19	1.99	3.55	4.17
EWD03I	BIP	2	335433	6241515								4.75	3.90	0.05	2.39	1.67	3.16	3.52	3.43	4.17
EWD03S	BIP	1	335434	6241513								4.76	4.01	2.29	1.71	1.61	1.63	1.70	3.58	4.25
EWD04I	BIP	2	335420	6241532								4.66	3.70	0.11	1.92	1.55	1.60	FT	3.18	4.03
EWD04S	BIP	1	335423	6241528								3.88	2.97	0.92	1.41	1.71	2.03	2.30	2.37	3.16
EWD05I	BIP	2	335389	6241571								4.78	3.54	0.64	1.90	2.09	2.83	3.57	2.65	4.13
EWD05S	BIP	1	335390	6241570								5.52	4.95	0.71	1.40	1.49	1.20	3.61	1.39	4.11
EWD06I	BIP	2	335364	6241603								4.76	2.15	0.81	1.27	1.09	1.51	1.97	1.19	4.04
EWD06S	BIP	1	335366	6241601								4.79	3.01	1.74	2.40	1.49	1.33	3.28	1.43	4.07
EWD07I	BIP	2	335349	6241622								4.75	2.40	0.89	2.50	2.64	1.50	3.58	1.27	3.96
EWD07S	BIP	1	335351	6241620								5.52	2.02	2.02	1.02	0.77	0.71	3.65	1.10	4.04
EWD08I	BIP	2	335327	6241650								FT	2.82	1.00	2.46	2.61	3.17	3.89	2.19	4.01
EWD08S	BIP	1	335329	6241648								4.73	2.83	2.24	2.68	2.74	3.13	3.86	2.09	3.98
EWD09I	BIP	2	335308	6241675								4.63	2.05	1.27	0.79	3.03	3.03	3.68	1.20	3.66
EWD09S	BIP	1	335310	6241673								4.79	2.46	2.28	1.89	3.29	3.25	3.90	1.74	3.88
EWD10I	BIP	2	335286	6241703								4.69	3.14	0.81	0.25	3.18	3.23	3.81	0.87	3.77
EWD10S	BIP	1	335288	6241701								4.73	2.74	2.58	0.67	1.51	3.37	3.97	1.07	2.46
EWD11D	BIP	2	335229	6241613		4.58						FT	0.77	0.26	0.67	1.02	1.10	3.14	0.94	1.56
EWD11S	BIP	1	335231	6241610		4.72						FT	1.68	1.20	2.42	2.78	2.80	3.43	2.60	2.34
EWD12D	BIP	2	335212	6241640		4.58						FT	2.03	1.63	1.88	2.14	2.22	2.94	2.07	2.44
EWD12S	BIP	1	335214	6241637		4.57						FT	2.50	1.93	1.82	2.10	2.56	2.70	2.40	2.48
EWD13I	BIP	2	335198	6241657		4.60						FT	1.94	1.66	1.97	2.21	2.29	2.82	2.09	2.48
EWD13S	BIP	1	335196	6241660		4.63						FT	1.74	1.59	2.28	2.49	2.66	3.19	2.54	2.46
EWD14D	BIP	2	335177	6241684		4.59						FT	2.13	1.81	1.87	1.16	1.43	1.90	1.54	1.91
EWD14I	BIP	2	335181	6241679		4.60						FT	2.00	1.82	1.98	2.23	2.31	2.83	2.25	2.87
EWD14S	BIP	1	335178	6241682		4.59						FT	1.97	1.74	1.88	2.10	2.17	2.70	2.24	2.89
EWD15D	BIP	2	335161	6241704		4.54						FT	1.15	1.73	1.08	1.40	1.77	2.31	2.18	2.59
EWD15I	BIP	2	335164	6241701		4.60						FT	1.54	1.22	1.24	1.61	1.81	2.87	1.80	2.73
EWD15S	BIP	1	335160	6241707		4.68						FT	2.42	2.32	2.33	2.03	2.07	2.48	2.00	3.38
EWD16D	BIP	2	335145	6241725		4.70						FT	1.70	1.49	1.53	1.98	2.61	2.97	2.08	3.39
EWD17D	BIP	2	335130	6241745		4.60						FT	1.99	1.68	2.06	2.06	2.06	2.06	FT	2.06
EWD17I	BIP	2	335132	6241742		4.61						FT	1.33	1.24	1.60	2.54	2.67	2.90	2.48	3.53
EWD18D	BIP	2	335120	6241757		4.54						FT	2.19	1.95	1.95	2.49	2.40	1.13	1.37	3.65
EWD18I	BIP	2	335122	6241755		4.63						FT	1.86	1.60	1.61	2.62	2.72	2.83	2.52	3.69
EWD19D	BIP	2	335091	6241794		4.65						FT	5.16	1.43	1.39	1.92	2.66	-0.19	2.34	3.69
EWD19I	BIP	2	335093	6241792		4.66						FT	4.44	1.09	1.12	1.60	1.75	1.93	1.78	FT
EWD20D	BIP	2	335065	6241827		4.77						FT	1.30	2.45	7.70	FT	FT	FT	FT	FT
EWD20I	BIP	2	335068	6241824		4.69						FT	2.80	2.78	2.30	2.83	3.86	3.59	4.23	FT
EWD21D	BIP	2	335045	6241853		4.75						FT	2.76	2.64	2.37	2.61	2.66	2.61	2.64	3.90
EWD21I	BIP	2	335049	6241848		4.79						2.83	2.44	2.77	2.32	2.38	2.55	2.57	2.39	4.01
EWD21S	BIP	1	335047	6241851		4.81						2.40	2.94	2.98	0.65	1.23	0.92	0.54	0.38	4.12
EWD22I	BIP	2	335018	6241887		4.86						FT	2.89	2.95	2.73	2.42	2.96	2.37	2.29	4.21
EWD22S	BIP	1	335016	6241890		4.94						1.21	1.94	3.02	1.58	2.28	1.79	2.27	1.88	4.37
EWD23I	BIP	2	334987	6241926		5.04						FT	2.61	1.36	1.72	2.39	1.82	2.31	3.29	4.23
EWD23S	BIP	1	334985	6241930		5.22						2.28	1.84	1.97	2.29	1.74	1.81	1.72	1.64	4.29
EWD24I	BIP	2	334956	6241966		5.17						FT	1.97	2.18	3.31	3.58	3.49	2.75	3.77	4.36
EWD24S	BIP	1	334954	6241969		5.51						FT	2.32	1.52	4.17	4.23	4.19	4.15	4.36	4.54
EWD25I	BIP	2	334926	6242005		5.07						FT	1.44	1.88	3.56	3.84	3.78	3.73	4.00	4.30
EWD25S	BIP	1	334923	6242009		5.43						3.16	2.45	1.84	4.81	4.80	4.77	4.84	4.96	4.71
EWD26D	BIP	2	334900	6242037		5.24						FT	1.96	1.88	3.93	4.16	4.10	4.17	4.35	4.46
EWD26I	BIP	2	334903	6242032		5.24						FT	1.49	1.56	3.95	4.16	4.09	4.15	4.32	4.33
EWD26S	BIP	1	334901	6242035		5.76						3.75	3.70	3.84	5.38	5.29	5.28	5.31	5.42	5.03
EWD27D	BIP	2	334884	6242094		5.11						1.40	2.79	2.40	4.94	5.39	5.53	5.79	6.08	6.17
EWD27I	BIP	2	334885	6242088		5.09						0.81	1.55	1.54	4.08	4.28	4.20	4.30	FT	FT
EWD27S	BIP	1	334885	6242092		6.01						4.39	2.33	2.59	5.67	5.52	5.52	5.52	5.60	5.15
EWD28I	BIP	2	334924	6242161		6.04						1.74	2.48	1.76	4.63	4.85	4.85	4.96	5.04	5.04

**Table 4.1**  
**Groundwater Elevations**  
**December 2008**

Bore Number	Area	shallow (1)/deep (2)	Easting	Northing	Oct-04	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
EWD28S	BIP	1	334926	6242162		6.41						4.67	4.13	4.22	6.18	6.08	6.04	6.26	6.23	5.73
MWD01D	BIP	2	335457	6241484				4.94	5.59	5.09	5.06	4.68	3.93	1.65	2.91	2.35	3.67	3.77	3.53	4.12
MWD01I	BIP	2	335457	6241484								4.72	3.97	1.78	3.04	2.49	3.44	3.74	3.51	4.11
MWD01S	BIP	1	335457	6241484				5.83	4.91	5.94	6.07	5.71	5.29	5.07	5.52	5.29	5.74	5.60	5.73	5.26
MWD02D	BIP	2	335426	6241523				4.97	4.89	5.14	5.13	4.66	3.76	1.22	2.48	2.18	3.10	3.21	3.32	4.12
MWD02I	BIP	2	335426	6241523								4.76	3.84	1.42	2.65	2.43	2.93	FT	FT	FT
MWD02S	BIP	1	335426	6241523				4.99	4.86	5.25	5.55	5.19	4.68	3.05	2.98	2.88	FT	FT	3.59	4.15
MWD03D	BIP	2	335379	6241583				5.03	4.91	5.22	5.22	4.68	3.28	1.73	2.29	2.48	2.94	3.39	2.61	4.07
MWD03I	BIP	2	335379	6241583								4.77	3.37	1.86	2.58	2.60	2.80	3.54	2.61	FT
MWD03S	BIP	1	335379	6241583				5.60	5.52	5.71	5.90	5.50	5.07	4.61	4.84	4.78	5.04	5.07	5.05	4.89
MWD04D	BIP	2	335338	6241636				5.07	5.02	5.41	5.42	4.82	3.16	2.04	2.54	3.03	3.21	3.81	2.37	3.96
MWD04I	BIP	2	335338	6241636								4.78	3.10	2.01	2.61	2.94	2.90	3.76	2.36	3.97
MWD04S	BIP	1	335338	6241636				5.12	5.03	5.43	5.42	4.84	3.29	2.30	2.64	3.18	3.32	2.93	2.49	3.98
MWD05D	BIP	2	335303	6241681				4.90	4.82	4.85	5.21	4.87	4.07	2.86	2.23	4.05	3.80	3.96	2.65	4.13
MWD05I	BIP	2	335303	6241681								4.69	2.84	1.95	1.96	3.07	3.07	3.77	2.09	3.73
MWD05S	BIP	1	335303	6241681				5.16	5.12	5.50	5.50	4.83	3.13	2.38	2.22	3.39	3.55	3.92	1.86	3.37
MWD06D	BIP	2	335249	6241661				4.79	4.69	5.06	5.00	4.28	2.23	1.70	1.70	2.48	2.70	3.12	1.93	2.80
MWD06I	BIP	2	335249	6241661								4.38	2.56	1.85	2.05	2.63	2.78	3.39	2.29	3.42
MWD06S	BIP	1	335249	6241661				4.84	4.74	5.16	5.10	4.41	2.87	2.30	2.37	3.00	3.17	3.48	2.54	3.34
MWD07D	BIP	2	335234	6241624		3.29		4.64	4.56	4.92	4.84	FL	1.93	1.48	1.60	2.18	2.37	3.03	1.90	2.42
MWD07I	BIP	2	335234	6241624		4.31						4.18	2.26	1.69	1.99	2.34	2.39	FT	FT	FT
MWD07S	BIP	1	335234	6241624		4.28		4.66	4.53	4.93	4.78	FL	2.70	2.13	2.41	2.90	3.11	3.42	2.53	3.00
MWD08D	BIP	2	335189	6241670		4.68		4.70	4.60	4.97	4.86	FL	1.99	1.64	1.62	2.01	2.26	2.61	1.92	2.42
MWD08I	BIP	2	335189	6241670		4.31						4.09	2.09	1.70	1.86	2.07	2.24	2.56	1.88	2.50
MWD08S	BIP	1	335189	6241670		4.43		4.71	4.63	5.00	4.92	FL	2.35	2.09	2.17	2.62	2.86	3.10	2.53	3.10
MWD09D	BIP	2	335153	6241715		4.43		4.72	4.69	5.01	4.93	3.97	1.99	1.79	1.70	2.20	2.59	2.74	2.25	3.10
MWD09I	BIP	2	335153	6241715		4.18						3.95	2.07	1.82	1.83	2.22	2.42	2.81	2.25	3.13
MWD09S	BIP	1	335153	6241715		4.40		4.78	4.72	5.08	5.02	4.13	2.58	2.52	2.32	2.65	2.91	3.10	2.55	3.67
MWD10D	BIP	2	335124	6241753		4.00		4.72	4.68	5.03	4.96	3.77	2.22	2.00	1.86	2.56	2.92	2.46	2.20	3.54
MWD10I	BIP	2	335124	6241753		4.04						3.77	2.19	1.85	1.84	2.43	2.52	2.75	2.41	3.51
MWD10S	BIP	1	335124	6241753		4.23		4.86	4.79	5.16	5.10	4.12	2.88	2.81	2.69	3.07	3.21	3.10	2.94	3.57
MWD11D	BIP	2	335079	6241809		4.12		4.74	4.73	5.08	5.00	3.41	2.56	2.40	1.88	2.48	2.86	2.80	2.58	3.77
MWD11I	BIP	2	335079	6241809		4.21						3.42	2.76	2.34	1.90	2.23	2.32	2.48	2.34	3.83
MWD11S	BIP	1	335079	6241809		4.29		4.83	4.82	5.20	5.15	3.50	3.01	3.41	2.84	3.13	3.42	3.05	2.83	3.71
MWD12D	BIP	2	335032	6241870		4.57		4.78	4.86	5.10	5.05	2.53	2.77	2.82	2.43	2.85	3.18	3.01	2.81	3.94
MWD12I	BIP	2	335032	6241870		4.88						2.43	2.92	2.89	2.60	2.68	2.79	2.74	2.97	4.32
MWD12S	BIP	1	335032	6241870		4.83		4.91	4.77	5.28	5.22	2.95	3.17	3.56	3.23	3.44	3.60	3.46	3.42	4.15
MWD13D	BIP	2	334972	6241946		4.87		5.17	5.17	NA	5.56	2.62	3.22	3.26	3.15	3.48	3.70	3.49	3.59	4.39
MWD13I	BIP	2	334972	6241946		4.82						0.66	2.22	2.12	2.77	3.26	3.28	3.06	3.55	4.24
MWD13S	BIP	1	334972	6241946		4.90		5.30	5.27	5.66	5.60	2.70	3.16	3.40	4.19	4.11	4.35	4.20	4.26	4.58
MWD14D	BIP	2	334940	6241987		5.10	5.51	5.28	5.49	NA	5.68	2.53	3.22	3.28	3.46	3.73	3.92	3.73	3.91	4.54
MWD14I	BIP	2	334940	6241987		4.88						0.72	2.24	2.32	3.46	3.71	3.64	3.46	3.92	4.34
MWD14S	BIP	1	334940	6241987		5.24	5.42	5.53	5.30	5.88	5.85	2.70	3.37	3.19	4.71	4.70	4.90	4.71	4.79	4.67
MWD15D	BIP	2	334898	6242135		5.21		5.40	5.38	5.76	5.71	1.00	2.30	2.12	4.06	4.24	6.01	4.27	4.48	4.49
MWD15I	BIP	2	334898	6242135		5.90						5.00	4.54	4.63	6.07	5.95	5.92	6.07	6.10	5.60
MWD15S	BIP	1	334898	6242135		5.99		6.16	4.63	6.45	6.46	5.02	4.52	4.62	6.04	5.91	6.14	6.03	6.08	5.54
MWD16D	BIP	2	335409	6241504				4.81	4.63	5.15	5.06	4.60	3.66	1.74	2.64	2.51	3.33	3.45	3.14	3.88
MWD16S	BIP	1	335409	6241504				5.29	5.40	5.83	6.06	5.73	5.50	5.06	5.24	4.73	5.37	5.30	5.55	5.05
WG117	BIP	1	335259	6241953	7.73	7.08	6.94	7.27	6.94	7.61	7.47	6.98	7.00	7.52	7.13	6.94	7.23	7.38	7.13	6.56
WG118	BIP	1	335073	6241836	4.98	4.88	4.75	4.94	4.73	5.08	4.97	4.58	4.46	4.39	4.59	4.58	4.84	4.74	4.81	4.58
WG123D	BIP	2	334916	6242034	5.39		5.28	5.10	5.19	5.54	5.54	1.10	1.99	2.08	3.90	4.10	4.30	5.83	4.26	4.32
WG123S	BIP	1	334916	6242034	5.40		4.86	5.66	5.58	6.14	5.90	5.19	5.07	5.23	5.74	5.48	5.89	4.08	5.99	5.21
WG124	BIP	1	335358	6241770	6.05	5.74	5.76	5.92	5.71	6.08	6.21	5.59	5.92	3.99	4.35	5.01	4.26	4.93	4.32	4.82
WG150D	BIP	2	335013	6241908	6.22	4.99	5.07	4.97	4.95	5.36	5.30	2.05	2.92	2.99	2.71	2.96	3.25	3.11	3.00	4.29
WG200D	BIP	2	335644	6242358		8.18	8.20	7.18	7.28	7.22	9.48	7.81	7.04	5.94	7.35	6.78	6.15	7.75	8.24	8.42
WG200S	BIP	1	335644	6242357		9.32	9.43	8.95	8.70	8.99	8.00	9.35	9.08	8.91	9.46	9.25	9.59	9.57	9.69	9.77
WG202D	BIP	2	335794	6242152		7.22	7.66	7.29	7.23	7.94	7.92	7.63	7.38	6.89	7.73	7.38	7.34	7.51	6.96	7.43
WG202S	BIP	1	335794	6242152		8.18	8.49	8.32		8.27	9.96	8.79	8.45	8.19	8.20	8.51	8.65	8.61	8.61	8.47

**Table 4.1**  
**Groundwater Elevations**  
**December 2008**

Bore Number	Area	shallow (1)/deep (2)	Easting	Northing	Oct-04	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	
WG205D	BIP	2	335506	6241435		4.89	4.87	4.90	4.76	5.16	5.19	4.65	4.12	2.92	3.56	3.33	4.04	4.07	3.79	4.21	
WG205S	BIP	1	335506	6241435		6.19	6.19	6.23	6.04	6.36	6.68	6.33	6.12	5.91	6.27	6.01	6.50	6.36	6.40	6.03	
WG208D	BIP	2	335578	6241342		4.84	4.81	4.89	4.20	4.99	5.12	4.66	4.30	3.84	4.07	4.27	3.98	4.27	4.03	4.22	
WG208S	BIP	1	335578	6241342		6.42	6.28	6.36	6.24	6.20	6.78	6.48	6.32	6.25	6.47	6.23	6.45	6.44	6.40	6.18	
WG41S	BIP	1	335140	6241579	4.12	3.74	3.71	3.86	3.74	4.05	3.94	3.27	3.11	1.85	2.03	2.26	2.33	2.91	2.36	2.64	
WG48	BIP	2	335238	6241970	6.13	5.74	5.71	5.90	5.70	5.88	6.22	5.75	5.51	5.23	5.30	6.31	5.30	5.44	5.29	5.28	
WG49	BIP	2	335406	6242115	7.51	7.13	7.21	7.16	7.07	7.17	7.83	7.51	7.09	6.79	7.09	6.78	6.92	6.97	6.96	6.92	
WG68D	BIP	2	335114	6241643	4.27	4.14	4.16	4.36	4.18	4.37	4.30	3.63	3.44	2.32	2.33	3.80	2.62	3.07	2.67	2.86	
WG68I	BIP	2	335114	6241646	4.40	4.30	4.31	4.52	4.33	4.60	4.53	3.81	3.68	2.33	2.41	3.89	2.73	3.04	2.62	3.16	
WG83I	BIP	2	335574	6241699	6.13	5.92	5.95	6.11	6.08	6.40	6.70	6.14	5.61	4.95	5.55	5.64	5.08	6.09	5.58	5.68	
WG83S	BIP	1	335575	6241699	6.93	6.46	6.60	6.65	6.53	6.79	7.30	6.89	6.49	6.09	6.36	6.18	6.21	5.77	5.68	5.44	
WG91S	BIP	1	335647	6241656	7.11	6.68	6.81	6.88	6.73	6.86	7.56	7.10	6.57	6.46	6.74	6.53	6.58	6.66	6.57	6.31	
WG215D	NOR	2	336144	6241760						7.73	8.20	#N/A	8.11	7.93	8.56	8.21	8.23	8.26	8.16	7.95	
WG216D	NOR	2	336112	6242124						8.72	9.16	#N/A	8.69	8.53	9.34	8.91	9.01	9.04	9.00	8.87	
WG216S	NOR	1	336112	6242124						Dry	Dry	#N/A	Dry	Dry	Dry	Dry	Dry	DRY	DRY	DRY	
WG217D	NOR	2	336065	6242340						9.32	9.50	#N/A	9.24	8.99	10.14	9.79	9.91	9.90	10.27	10.27	
WG217S	NOR	1	336065	6242341						9.30	9.97	#N/A	9.53	9.42	10.06	9.87	10.10	10.10	10.35	10.22	
WG228D	NOR	2	334799	6241938												3.49	2.91	3.46	3.31	3.02	
WG228S	NOR	1	334799	6241938												5.22	2.40	5.34	5.30	5.04	
WG229D	NOR	2	334513	6241663											2.36	2.57	3.59	2.49	2.31	2.27	
WG229S	NOR	1	334513	6241663											4.75	4.45	4.99	4.42	4.36	4.34	
WG231D	NOR	2	334492	6241924												5.24	2.98	3.16	2.99	2.72	
WG231S	NOR	1	334492	6241924												3.30	3.45	5.39	5.31	6.34	
WG232I	NOR	1	334449	6243244											9.11	8.81	9.39	9.27	9.30	9.08	
WG232S	NOR	1	334449	6243244											9.70	9.65	9.91	9.64	9.73	9.61	
WG234D	NOR	2	334853	6241530											2.13	2.49	2.77	2.67	2.47	2.63	
WG234I	NOR	2	334853	6241530											2.26	2.61	2.86	2.62	2.60	2.75	
WG234S	NOR	1	334853	6241530											2.49	2.74	3.00	2.91	2.80	2.77	
WG235D	NOR	2	335733	6243970										10.82	14.16	14.29	14.59	14.38	14.22	14.45	
WG235I	NOR	2	335736	6243978										13.75	14.49	14.31	14.82	14.70	14.91	14.72	
WG235S	NOR	1	335735	6243974										14.11	14.75	14.51	15.05	14.84	15.08	14.83	
WG72D	NOR	2	334380	6241482	2.68	2.35	2.31	3.20	2.22	2.52	2.46	2.03	1.86	2.03	2.03	2.19	2.09	2.19	2.09	2.00	
WG72S	NOR	1	334379	6241478	3.49	3.24	3.23	2.46	3.10	2.54	3.75	3.39	3.17	3.25	3.59	3.28	3.44	4.34	3.34	3.18	
EWB02	PCA	2	334986	6241200	2.97	2.34															
EWB05	PCA	2	334935	6241074			-0.57	2.87	1.96												
EWB06	PCA	2	334885	6241109			0.07	0.33	-0.34												
EWB07D	PCA	2	335276	6241018				2.86	0.92												
EWB08D	PCA	2	335239	6241024			2.67	2.79	-2.43												
EWB09D	PCA	2	335198	6241031				2.54	0.29												
EWB10D	PCA	2	335130	6241042				2.35	3.06	1.10											
EWB11D	PCA	2	335105	6241047				2.18	2.28	0.43											
EWB12D	PCA	2	335045	6241057				2.06	2.19	1.18											
EWB13D	PCA	2	334992	6241066				1.99	2.14	0.44											
EWB14D	PCA	2	334965	6241166				1.83	1.80	1.15											
EWB15D	PCA	2	334859	6241088				1.63	0.09	-1.26											
MWB01D	PCA	2	335256	6241021			2.83	2.80	2.84	1.76	2.72	1.99	1.98	1.97	2.04	1.86	2.11	2.05	2.80	1.74	2.11
MWB01I	PCA	2	335256	6241021			2.84		3.43	1.85	3.48	2.05	2.87	1.84	1.11	1.17	0.96	0.98	1.41	0.99	1.19
MWB01S	PCA	1	335256	6241021			2.83	2.82	2.89	2.77	2.74	2.32	1.95	1.90	1.95	2.06	2.34	2.93	2.24	2.11	
MWB02D	PCA	2	335218	6241027			2.85	2.74	2.83	2.25	2.46	2.10	1.98	1.87	1.82	1.81	2.12	2.05	1.85	1.63	1.98
MWB02I	PCA	2	335218	6241027			2.67		3.28	1.68	3.38	1.87	2.10	1.76	1.01	2.00	0.39	1.53	1.31	0.87	0.91
MWB02S	PCA	1	335218	6241027			2.62	2.66	2.67	2.25	2.78	2.55	2.10	2.07	1.92	2.16	1.99	2.28	3.23	2.27	2.09
MWB03D	PCA	2	335174	6241034			2.42	2.43	2.46	1.04	2.61	0.23	1.61	1.21	0.52	1.45	0.65	1.91	4.09	0.30	0.47
MWB03I	PCA	2	335174	6241034			2.39		2.86	1.67	2.97	1.07	-5.30	1.26	0.81	1.35	1.00	0.96	0.95	0.74	0.79
MWB03S	PCA	1	335174	6241034			2.40	2.42	2.39	2.02	2.56	2.30	1.88	1.79	1.77	1.92	1.82	2.15	0.84	2.00	1.85
MWB04D	PCA	2	335117	6241045			2.42	2.45	2.41	0.99	2.58	-0.53	1.40	0.78	0.13	0.57	0.58	1.54	3.06	0.29	FL
MWB04I	PCA	2	335117	6241045			2.31		2.90	1.44	2.75	0.27	-5.26	0.75	0.40	1.17	0.72	0.73	0.52	0.63	0.81
MWB04S	PCA	1	335117	6241045			2.31	2.31	2.35	1.60	2.42	1.38	1.50	1.23	1.18	1.47	1.28	1.64	2.78	1.31	1.29
MWB05D	PCA	2	335083	6241050			2.37	2.42	2.23	1.10	2.53	-0.12	1.14	0.58	0.25	0.87	0.45	0.73	2.82	0.27	FL

**Table 4.1**  
**Groundwater Elevations**  
**December 2008**

Bore Number	Area	shallow (1)/deep (2)	Easting	Northing	Oct-04	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
MWB05I	PCA	2	335083	6241050		2.25		2.27	1.19	2.43	0.48	1.22	0.72	0.64	1.02	0.68	0.76	0.35	0.25	0.43
MWB05S	PCA	1	335083	6241050		2.27	2.27	2.31	1.68	2.32	1.74	1.40	1.24	1.33	1.36	1.18	1.75	1.50	FL	1.40
MWB06D	PCA	2	335017	6241061		2.50	2.33	2.27	1.23	2.44	0.57	1.08	0.78	0.76	0.40	0.81	1.07	2.29	0.60	0.77
MWB06I	PCA	2	335017	6241061		2.46		2.18	1.00	2.40	0.37	0.42	0.13	0.87	0.97	0.70	0.93	0.54	0.67	0.74
MWB06S	PCA	1	335017	6241061		2.32	2.20	2.23	1.49	2.27	1.46	1.18	0.99	1.19	1.10	1.22	1.61	2.66	1.37	1.32
MWB07D	PCA	2	334960	6241071		2.48	2.33	2.22	1.23	2.43	1.62	1.13	0.88	0.86	0.62	0.92	1.16	2.14	0.73	0.83
MWB07I	PCA	2	334960	6241071		2.49		2.09	1.09	2.39	0.44	0.61	0.21	0.86	0.99	0.70	0.97	0.65	0.80	0.87
MWB07S	PCA	1	334960	6241071		2.34	2.11	2.14	1.40	2.27	1.30	1.17	0.94	1.08	1.01	1.09	0.00	1.01	1.13	1.08
MWB08D	PCA	2	334901	6241086		2.46	1.98	1.78	0.85	2.47	0.70	1.26	0.81	0.81	0.43	0.67	1.03	3.49	0.81	0.61
MWB08I	PCA	2	334901	6241086		2.45		1.85	0.98	2.37	0.53	1.09	0.51	0.70	0.90	0.63	0.80	0.80	0.74	0.67
MWB08S	PCA	1	334901	6241086		2.43	1.97	1.95	1.25	2.37	0.77	1.25	0.67	0.75	1.16	0.82	1.24	3.27	0.92	1.91
MWB09D	PCA	2	334869	6241106		2.26	2.15	1.28	0.57	2.43	0.91	1.36	0.91	0.91	0.45	1.00	0.99	2.57	0.95	0.55
MWB09I	PCA	2	334869	6241106		2.40		1.58	0.74	2.37	0.74	1.33	0.89	0.91	0.93	0.53	0.67	0.98	0.86	0.51
MWB09S	PCA	1	334869	6241106		2.44	1.96	1.91	1.26	2.36	0.70	1.32	0.64	0.68	1.12	0.76	1.13	2.31	0.83	0.20
MWB11D	PCA	2	334995	6241047				2.29	1.30	2.43	0.67	1.08	0.84	0.83	0.59	0.87	1.03	0.71	0.66	0.75
MWB11I	PCA	2	334996	6241047				2.32		2.29		0.17	-0.04	0.86	1.15	0.67	1.11	0.43	0.72	0.80
MWB11S	PCA	1	334996	6241047				2.15	1.40	2.15	1.34	1.09	0.93	1.14	1.10	1.17	1.53	1.27	1.22	1.20
MWB12D	PCA	2	335378	6241000				3.23	2.53	3.20	2.69	2.61	2.49	2.08	2.39	2.19	2.46	2.38	2.29	2.35
MWB12S	PCA	1	335378	6241000				3.70	3.23	3.79	3.53	3.15	3.37	3.23	3.54	3.41	3.66	3.66	3.79	3.46
SL01D	PCA	2	334776	6241162					1.63	2.20	1.61	1.61	1.35	1.30	1.34	1.40	1.76	1.59	1.48	1.43
WG141	PCA	2	335355	6241162	3.95	3.72	3.58	3.77	5.22	3.80	3.53	3.20	3.09	2.76	#N/A	3.05	0.09	2.98	2.53	2.82
WG146I	PCA	2	335005	6241247	3.39	2.77	2.71	2.88	2.30	3.21	1.64	2.27	1.59	1.09	1.81	1.17	1.82	1.54	1.36	1.52
WG147I	PCA	2	334963	6241188	3.15	2.39	2.36	2.58	1.84	2.84	0.34	1.78	0.94	0.39	0.24	0.21	1.12	0.70	0.49	0.70
WG152D	PCA	2	334893	6241249	3.80	2.91	2.46	2.61	2.05	2.95	1.62	2.00	1.41	1.13	1.59	1.26	1.82	1.58	1.46	1.51
WG153D	PCA	2	335045	6241126	2.77	2.10	2.61	2.50	1.67	2.78	1.18	1.50	1.03	0.97	0.89	0.99	1.58	2.65	1.26	1.17
WG162D	PCA	2	334899	6241122	2.90	1.81	2.15	2.08	1.40	2.54	0.88	1.11	0.66	1.52	0.27	0.88	0.89	1.13	0.67	1.35
WG162I	PCA	2	334899	6241123	2.90	2.17	2.09	2.29	0.72	2.38	0.98	1.44	0.78	1.49	0.95	1.28	1.30	0.79	1.00	1.48
WG162S	PCA	1	334899	6241123	2.91	1.88	2.25	2.15	1.46	2.52	2.21	1.14	1.43	1.93	1.43	1.63	1.67	1.45	1.48	1.53
WG171I	PCA	2	335068	6241348	3.64	3.30	3.16	3.43	2.92	3.52	3.02	2.68	2.56	2.59	2.07	0.10	2.40	2.71	2.18	2.42
WG171S	PCA	1	335068	6241348	3.59	3.30	3.14	3.42	2.91	3.48	3.06	2.67	2.55	2.71	2.18	2.79	2.37	2.82	2.32	FL
WG21	PCA	1	335315	6241083	3.09	2.76	2.61	2.85	2.23	2.89	2.60	2.15	2.15	1.88	#N/A	2.09	1.82	2.10	1.72	1.85
WG61	PCA	1	334937	6241340	3.71	3.22	3.32	3.62	3.07	3.64	2.50	2.41	2.13	2.32	1.62	2.71	1.98	2.30	1.74	1.99
WG64S	PCA	1	334941	6241340	3.99	3.85	3.46	3.84	3.27	3.91	2.88	2.34	2.30	2.58	#N/A	2.42	2.22	2.58	2.10	2.20
WG70D	PCA	2	335342	6241243	4.12	3.82	3.75	3.94	3.47	4.72	3.71	3.40	3.19	2.63	#N/A	3.41	2.73	3.07	2.53	FL
WG73D	PCA	2	335252	6241031	3.08	2.88	2.80	2.88	2.14	3.02	1.64	2.13	2.11	1.26	1.66	0.96	1.38	1.45	1.00	1.31
WG73S	PCA	1	335257	6241031	3.34	3.02	2.83	3.07	2.49	3.09	2.83	2.38	2.36	2.10	2.39	2.21	2.48	2.41	2.45	2.25
WG74I	PCA	2	334992	6241091	2.97	2.21	2.16	2.30	1.11	2.50	0.55	0.03	0.17	0.83	0.40	0.47	1.24	1.35	0.73	0.83
WG74S	PCA	1	334990	6241091	2.93	2.21	2.16	2.60	1.55	2.42	1.51	0.64	0.95	1.03	0.95	1.01	1.41	1.35	1.25	1.32
WG82D	PCA	2	335235	6241323	4.12	3.81	3.72	3.93	3.49	4.03	3.63	3.28	3.03	2.47	#N/A	3.14	2.62	1.16	2.44	2.88
WG82S	PCA	1	335233	6241323	4.22	4.03	3.78	4.03	3.58	4.17	3.87	3.46	3.29	2.57	#N/A	3.29	2.83	1.44	2.73	3.08
EWf01D	SCA	2	334685	6240665	0.77	0.00	-2.11	-2.42	0.08		-1.78	-1.75	-0.97	-1.25	-2.45	-3.23	-2.96	-2.31	-2.50	-3.19
EWf01S	SCA	1	334681	6240665		0.35	0.30	0.38	-1.85	0.09	-0.17	-0.29	0.01	-1.01	-1.01	-0.61	-0.13	-3.95	-1.00	-0.87
EWf02S	SCA	1	334665	6240668		0.25	0.30	0.35	-2.03		-1.36	-1.28	-0.76	0.18	-0.79	-0.87	-1.19	-0.75	-1.25	-1.38
EWf03D	SCA	2	334645	6240671	0.88	-1.50	-0.90	-1.10	-0.29		-0.75	-1.20	-0.22	-1.50	-0.76	-0.93	-1.56	-0.87	-0.99	-0.69
EWf03S	SCA	1	334641	6240672		0.27	0.34	-1.82		-0.27	-0.37	-0.25	0.07	-0.52	-0.52	-0.50	-0.26	-0.50	-1.14	-0.73
EWf04S	SCA	1	334625	6240675		0.25	0.26	0.27	-1.91		-0.48	-0.78	-0.33	-0.73	-0.77	-0.68	-0.30	-0.61	-1.42	-0.70
EWf05D	SCA	2	334605	6240679	0.72	-0.50	-1.86	-1.96	-2.48		-1.50	-0.92	-0.27	-0.82	0.00	-0.60	FT	FT	FT	FT
EWf05S	SCA	1	334601	6240680		0.20	0.23	0.45	-2.18		-0.26	-0.78	-0.14	0.19	-0.01	-0.08	-0.40	-0.36	-0.90	-1.07
EWf06S	SCA	1	334585	6240684		0.00	0.06	0.36	-3.00		-0.50	-1.11	-0.57	-0.41	-0.41	-0.94	-0.80	-0.81	-0.79	-1.11
EWf07D	SCA	2	334565	6240688	0.58	-0.30	-0.18	-0.23	-0.62		-0.30	-0.31	-0.22	-0.16	-0.28	-0.48	-0.20	-0.20	-0.30	-0.19
EWf07S	SCA	1	334561	6240689		0.25	0.24	0.29	-1.35		-0.31	-0.49	-0.23	-0.01	-0.63	-0.50	-0.21	-0.35	-0.53	-0.49
EWf08S	SCA	1	334545	6240693		0.20	0.18	0.19	-0.44		-0.49	-0.73	-0.25	-0.88	-0.87	-0.58	-0.16	-0.33	-0.75	-0.38
EWf09D	SCA	2	334525	6240698	0.84	-0.60	-0.45	-0.43	-0.30		-0.49	-0.49	-0.13	-0.39	-0.38	-0.58	-0.39	-0.39	-0.39	-0.30
EWf09S	SCA	1	334521	6240699		0.20	0.17	0.24	-0.30		-0.50	-0.56	-0.25	-0.12	-0.65	-0.44	-0.16	-0.21	-0.50	-0.01
EWf10S	SCA	1	334505	6240704		0.25	0.19	0.28	-0.56		-0.49	-0.61	-0.48	-0.72	-0.75	-0.46	-0.14	-0.24	-0.60	-0.38
EWf11S	SCA	1	334485	6240710		0.30	0.21	0.30	-1.09		-0.50	-0.51	-0.22	-0.07	-0.61	-0.38	0.09	0.07	-0.43	-0.28
EWf12D	SCA	2	334465	6240716		-0.30	-0.16	-0.39	-0.70		-0.70	-0.56	-0.86	-0.22	-0.66	-0.20	-0.25	-0.35	-0.25	-0.31
EWf12S	SCA	1	334461	6240717		0.25	0.18	0.29	-1.29		-0.49	-0.51	-0.48	-0.64	-0.74	-0.36	0.00	-0.13	-0.46	-0.28

**Table 4.1**  
**Groundwater Elevations**  
**December 2008**

Bore Number	Area	shallow (1)/deep (2)	Easting	Northing	Oct-04	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
EWf13S	SCA	1	334445	6240722		0.30	0.15	0.32	-0.32		-0.50	-0.49	-0.07	-0.03	-0.72	-0.41	-0.10	-0.16	-0.49	-0.30
EWf14D	SCA	2	334425	6240729		0.25	-1.93	-1.94	-1.48		-1.00	-1.00	-0.59	-1.44	-0.15	-0.99	-0.49	-0.99	0.00	0.11
EWf14S	SCA	1	334421	6240730		0.30	0.08	0.21	-1.33		-0.50	-0.51	-0.05	-0.70	-0.60	-0.35	-0.03	-0.15	-0.38	0.00
EWf15S	SCA	1	334405	6240736		0.30	0.18	0.25	-1.13		-0.49	-0.51	-0.01	-0.12	-0.65	-0.36	-0.08	-0.08	-0.36	-0.21
EWf16D	SCA	2	334363	6240752		0.25	-0.84	-0.90	-0.11		-0.36	-1.00	-0.08	-0.99	-1.20	-0.96	-0.48	-0.49	-0.56	-0.23
EWf16S	SCA	1	334359	6240753		0.35	0.34	0.46	-0.27		-0.50	-0.70	-0.31	-0.74	-0.43	-0.19	0.01	0.04	-0.24	-0.14
EWf17S	SCA	1	334338	6240762			0.35	0.44	-0.29		0.08	-0.60	-0.55	0.21	-0.41	-0.27	0.05	0.06	-0.30	-0.14
EWf18D	SCA	2	334313	6240773		0.30	0.39	0.11	-3.99		-1.50	-1.50	-0.96	0.30	-1.22	-1.86	-1.39	-1.40	-1.94	-1.33
EWf18S	SCA	1	334309	6240774		0.30	0.37	0.43	-0.13		-0.33	-0.49	0.03	FT	-0.45	-0.25	-0.01	-0.01	-0.31	-0.22
EWf19S	SCA	1	334288	6240784		0.35	0.40	0.60	-0.44		-0.03	-0.49	-0.52	FT	-0.40	-0.16	0.19	0.25	-0.16	-0.19
EWf20D	SCA	2	334263	6240796		0.50	0.45	-0.26	0.14		-1.27	-1.25	-0.67	FT	-0.88	-2.13	-2.00	0.27	0.22	0.26
EWf21S	SCA	1	334705	6240662		0.30	0.32	0.41	-0.04		0.00	-0.34	0.00	FT	0.00	-1.29	-0.75	-0.85	-0.89	-1.20
EWf22D	SCA	2	334731	6240658	1.23	-1.60	0.14	-1.66	0.09		0.04	-1.07	0.03	-0.24	0.00	-2.36	0.13	-3.27	-1.50	-2.03
EWf22S	SCA	1	334727	6240659		0.30	0.31	0.45	0.15		-0.50	-0.83	-0.64	0.64	0.00	-0.56	0.27	-1.72	-0.75	-0.23
EWf23S	SCA	1	334745	6240657		0.40	-0.38	0.51	0.24		-0.57	-1.31	-0.78	0.37	0.29	-0.67	0.15	-1.12	-0.75	-0.65
EWf24D	SCA	2	334765	6240655	1.03	-2.50	-3.19	-2.66	-3.31		-2.30	-1.92	-2.19	-2.11	-2.33	-2.11	-2.13	-2.23	-2.25	-2.57
EWf24S	SCA	1	334761	6240655			-0.04	0.46	0.21		-0.78	-0.96	-0.51	0.55	0.16	-1.20	-0.56	-1.23	-0.83	-2.26
EWf25S	SCA	1	334785	6240653		0.50	0.44	0.67	0.45		-0.75	-1.27	-0.53	-0.51	0.16	-0.79	-0.28	-0.61	-0.79	-0.83
EWf26D	SCA	2	334805	6240651		0.20	-0.49	-1.30	0.99		-0.07	-0.69	-0.07	-0.30	-2.44	-4.37	-3.20	-3.32	-3.00	-3.48
EWf26S	SCA	1	334801	6240652		0.40	0.46	0.56	0.34		-0.34	-1.32	-0.43	-0.41	-0.89	-1.15	-0.75	-1.22	-0.85	-1.04
EWf27S	SCA	1	334825	6240652		0.40	0.45	0.54	0.31		-0.51	-0.67	0.00	-0.03	-0.20	-0.12	-1.10	-0.63	-1.00	-1.00
EWf28D	SCA	2	334854	6240650		0.20	-0.23	-0.45	-0.63		-0.43	-0.65	-0.29	-2.28	-3.31	-2.94	-2.79	-3.76	-2.99	-2.81
EWf28S	SCA	1	334849	6240650			0.49	0.56	0.36		-1.34	-0.55	-0.58	-0.93	-1.02	-1.76	-1.81	-1.20	-0.89	-0.79
MWF01D	SCA	2	334673	6240667	0.80	-0.20	0.01	-0.36	-0.04	0.33	-0.07	-0.41	0.16	0.05	0.26	-0.21	0.15	0.30	0.42	0.13
MWF01I	SCA	2	334673	6240667	0.85	-0.30	-0.24	-0.18	0.01	0.38	-0.14	-0.36	0.01	0.15	0.00	-0.21	0.07	0.14	0.26	0.15
MWF01S	SCA	1	334673	6240667	0.66		0.31	0.36	-0.69	0.38	0.09	-0.13	-0.08	0.20	-0.07	-0.13	0.04	0.01	-0.21	-0.08
MWF02D	SCA	2	334633	6240674	0.90	-0.20	-0.06	-0.04	-0.15		-0.13	-0.35	0.15	-0.10	0.32	-0.50	-0.35	-0.04	-0.04	-0.18
MWF02I	SCA	2	334633	6240674	0.73	-0.20	-0.29	-0.20	-0.38	0.32	-0.06	-0.21	0.04	0.02	0.14	-0.17	0.00	0.09	0.12	0.12
MWF02S	SCA	1	334633	6240674	0.70	0.30	0.32	0.40	-0.98	0.14	-0.03	-0.25	-0.26	0.00	-0.18	-0.39	-0.01	-0.16	-0.42	-0.20
MWF03D	SCA	2	334593	6240682	0.59	-0.20	-1.02	-5.89	-5.84		-0.77	-0.58	-0.24	-0.49	-0.13	-0.70	-0.34	-0.33	-0.35	-0.30
MWF03I	SCA	2	334593	6240682	0.70	-0.20	-0.17	-0.08	1.39	0.00	-0.15	-0.32	-0.17	-0.11	0.00	-0.08	0.08	0.11	0.05	0.06
MWF03S	SCA	1	334593	6240682	0.76		0.28	0.37	-1.05	0.19	-0.13	-0.42	-0.37	0.00	-0.05	-0.11	-0.02	-0.08	-0.27	-0.14
MWF04D	SCA	2	334553	6240691	0.57	-0.10	0.02	-0.08	-0.28	0.41	-0.22	-0.29	-0.19	-0.18	-0.07	-0.18	0.00	0.00	-0.01	0.00
MWF04I	SCA	2	334553	6240691	0.63	-0.20	-0.20	-0.12	-0.48	0.21	-0.32	-0.47	-0.34	-0.29	-0.18	-0.28	-0.10	-0.09	-0.16	-0.14
MWF04S	SCA	1	334553	6240691	0.73	0.20	0.35	0.41	-0.39	0.43	-0.09	-0.31	-0.19	-0.06	-0.21	-0.14	0.06	0.00	-0.19	-0.04
MWF05D	SCA	2	334513	6240702	0.72	-0.10	0.00	2.40	-0.28	0.40	-0.19	-0.24	-0.15	-0.13	-0.07	-0.17	0.00	0.00	0.00	-0.03
MWF05I	SCA	2	334513	6240702	0.82	0.00		-3.31	-3.19		-0.33	-0.45	-0.30	-0.28	-0.27	-0.27	-0.09	-0.08	-0.13	-0.14
MWF05S	SCA	1	334513	6240702	0.71		0.34	0.44	-0.18	0.59	-0.10	-0.26	-0.16	-0.03	-0.21	-0.06	0.15	0.12	-0.14	0.06
MWF06D	SCA	2	334475	6240713	0.94	0.00	0.04	-0.07	-0.26	0.42	-0.19	-0.20	-0.17	-0.07	-0.07	-0.05	0.10	0.08	0.09	0.06
MWF06I	SCA	2	334475	6240713	0.85	0.00	-0.31	-0.17	-0.49	0.23	-0.38	-0.39	-0.42	-0.18	-0.30	-0.18	-0.06	-0.09	-0.06	-0.09
MWF06S	SCA	1	334475	6240713	0.75	0.35	0.36	0.46	-0.34	0.63	-0.01	-0.14	-0.08	0.06	-0.12	0.05	0.29	0.27	-0.02	0.12
MWF07D	SCA	2	334436	6240725	0.84	0.00	-0.01	-0.11	-0.26	0.52	0.06	-0.42	FT	0.15	0.19	FT	FT	FT	FT	FT
MWF07I	SCA	2	334436	6240725	0.95	0.00	-0.89	-0.74	-0.79	0.31	-0.86	-0.54	-0.39	-0.55	-0.15	-0.40	-0.13	-0.12	0.05	-0.35
MWF07S	SCA	1	334436	6240725	0.68		1.32	1.43	0.69	1.65	-0.43	-0.14	0.01	0.01	-0.17	0.02	0.22	0.23	-0.02	0.12
MWF08D	SCA	2	334384	6240744	0.91	0.10	-0.08	-0.15	-0.08	0.51	-0.10	-0.34	-0.03	-0.22	-0.33	-0.35	-0.16	-0.15	-0.22	-0.16
MWF08I	SCA	2	334384	6240744	0.69	0.20	-0.01	0.18	-0.05	0.40	0.00	-0.27	-0.05	0.08	-0.20	-0.18	-0.04	-0.01	-0.12	-0.15
MWF08S	SCA	1	334384	6240744	0.62	0.35	0.44	0.57	-0.06	0.74	0.22	-0.02	0.19	0.25	-0.01	0.17	0.35	0.47	0.30	0.30
MWF09D	SCA	2	334326	6240767	0.70	0.40	0.50	0.42	0.34	0.64	0.23	-0.02	0.14	0.23	0.10	0.01	0.11	0.12	0.05	-0.04
MWF09I	SCA	2	334326	6240767	0.51	0.40	0.29	0.39	-0.22	0.17	-0.19	-0.43	-0.19	0.29	-0.29	-0.36	-0.13	-0.16	-0.33	-0.22
MWF09S	SCA	1	334326	6240767	0.49	FT	0.51	0.59	0.05	0.64	0.23	-0.05	0.15	0.39	-0.01	0.12	0.28	0.31	0.10	0.15
MWF10D	SCA	2	334275	6240790	1.12	0.90	0.59	0.61	0.21	0.64	0.26	0.06	0.22	0.56	0.16	0.13	0.28	0.41	0.32	0.30
MWF10I	SCA	2	334275	6240790	0.61	0.30	0.26	0.44	0.13	0.42	0.16	-0.03	0.10	0.43	0.12	0.02	0.11	0.18	0.15	0.12
MWF10S	SCA	1	334275	6240790	0.57	0.40	1.04	1.03	0.89	1.14	0.96	0.73	0.66	0.87	0.89	0.82	0.83	0.90	0.88	0.73
MWF11D	SCA	2	334696	6240663	0.87	-0.30	0.05	-0.37	-0.02	0.31	0.27	-0.11	0.51	0.26	0.39	0.20	0.62	0.25	-0.03	0.03
MWF11I	SCA	2	334696	6240663	0.79	-0.30	-0.24	-0.16	0.04	0.35	-0.03	-0.27	0.05	1.19	0.07	-0.11	0.11	0.14	0.22	0.20
MWF11S	SCA	1	334696	6240663	0.47	0.35	0.37	0.45	-0.23	0.21	0.15	-0.07	0.01	0.30	0.05	-0.17	0.05	0.06	-0.35	-0.09
MWF12D	SCA	2	334753	6240656	1.14	-0.20	0.13	-0.29	-0.02	0.19	0.00	-0.41	0.29	0.04	0.01	-0.39	-0.02	0.00	0.03	0.04
MWF12I	SCA	2	334753	6240656	1.04	-0.20	0.06	0.11	0.09	0.36	0.18	-0.03	0.28	0.25	0.25	0.10	0.29	0.34	0.32	0.35

**Table 4.1**  
**Groundwater Elevations**  
**December 2008**

Bore Number	Area	shallow (1)/deep (2)	Easting	Northing	Oct-04	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
MWF12S	SCA	1	334753	6240656	0.71	0.40	0.22	0.48	0.22	0.29	-0.29	-0.61	-0.39	0.13	0.09	-0.20	0.06	-1.00	-0.27	-0.30
MWF13D	SCA	2	334793	6240652	0.99	0.20	0.20	-0.08	0.07	-0.09	-0.02	-0.39	0.34	0.04	-0.16	-0.22	0.08	-0.13	0.18	-0.05
MWF13I	SCA	2	334793	6240652	1.02	-0.10	0.13	0.16	0.06	0.26	0.21	0.00	-0.28	-0.40	-0.26	-0.42	-0.31	0.39	-0.42	0.41
MWF13S	SCA	1	334793	6240652	0.83		0.48	0.55	0.31	0.12	-0.02	-0.30	0.33	0.26	0.22	0.12	0.43	0.18	0.38	-0.26
MWF14D	SCA	2	334837	6240650		0.35	0.21	-0.03	-0.12	-0.22	-0.29	-0.71	0.43	-0.07	-0.32	-0.34	0.01	-0.20	0.15	-0.16
MWF14I	SCA	2	334837	6240650		0.35	0.07	-0.01	-0.15	0.00	-0.04	-0.24	0.26	0.14	0.10	0.14	0.05	0.34	0.40	0.48
MWF14S	SCA	1	334837	6240650		0.40	0.44	0.62	0.32	0.24	0.08	-0.06	0.06	0.02	0.00	0.03	-0.03	0.05	0.05	0.53
MWF15D	SCA	2	334739	6240622				1.80	0.59	0.86	0.36	0.28	0.29	0.27	0.29	0.32	0.53	0.16	0.30	FL
MWF15I	SCA	2	334739	6240622				1.14		0.35	0.11	-0.08	0.19	0.12	0.18	0.04	0.39	1.73	0.22	FL
MWF15S	SCA	1	334739	6240622				1.44	0.26	0.38	0.07	-0.07	0.12	0.27	0.16	0.09	0.51	0.12	0.27	FL
WG154D	SCA	2	334824	6240773	1.55	0.80	0.96	0.67	0.39	0.98	0.69	0.30	0.52	0.51	0.42	1.12	0.68	0.24	0.47	FL
WG154S	SCA	1	334823	6240768	1.43	0.75	0.89	0.67	0.42	0.88	0.74	0.33	0.49	FL	0.49	0.40	0.81	1.10	0.58	0.58
WG155D	SCA	2	334985	6240800																0.76
WG155S	SCA	1	334985	6240800	1.72	1.16	1.10	1.14	0.90	1.08	1.02	#N/A	0.83	0.98	0.83	0.94	0.79	0.86	0.74	0.84
WG23S	SCA	1	335049	6240694	1.45	0.96	0.92	0.97	0.78	0.98	0.95	0.61	0.75	0.69	0.79	0.72	1.01	0.79	0.82	0.75
WG75D	SCA	2	335052	6240692	1.49	1.00	1.10	0.97	0.99	1.05	0.84	0.38	FL	#N/A	0.74	0.66	1.17	1.56	0.74	FL
WG75I	SCA	2	335052	6240692	1.68	1.27	1.27	1.25	0.70	1.31	1.11	0.87	1.03	0.92	0.98	0.91	1.21	0.98	0.98	0.97
WG88I	SCA	2	334370	6240958	1.26	0.99	0.86	0.91	0.59	1.07	0.89	0.55	0.57	0.73	0.77	0.67	1.00	0.88	0.91	0.75
WG88S	SCA	1	334370	6240958	1.22	0.92	0.60	0.79	0.66	1.04	0.91	0.64	0.65	0.77	0.70	0.59	0.92	0.87	0.94	0.63
MWC09D	SOU	2	335829	6241081								4.59	4.33	4.35	4.50	4.44	4.44	4.44	4.44	5.46
MWC09S	SOU	1	335828	6241080								5.56	5.37	5.48	5.70	5.53	5.70	5.67	5.68	4.31
MWC11D	SOU	2	335618	6240909								3.38	3.19	3.25	3.25	3.25	3.25	4.48	3.27	4.48
MWC11S	SOU	1	335618	6240908								4.31	4.18	4.42	4.36	4.45	4.47	3.26	4.51	3.09
WG224S	SVD	1	335168	6241120																2.07
WG225S	SVD	1	335164	6241238																2.42
WG226S	SVD	1	335169	6241348																2.87
WG227S	SVD	1	335132	6241614																3.41
WG77S	SVD	1	335151	6241410																2.97

Notes  
#N/A Not measured  
SOU Southern areas  
NOR Northern areas  
SVD Springvale Drain  
FT Faulty transducer  
FL Faulty logger

Table 5.1  
Field Observation Data  
December 2008

Location	Depth	Date Sampled	Volume (L) Removed	DO ppm	EC (µS/cm)	pH	Er* (mV)	Temp (°C)	SWL (m)	Comments
BP41	4	10-Dec-08	3.0	1.90	1870	5.89	-54	20.8		Yellow, hydrogen sulfide odour.
		10-Dec-08	6.0	1.36	1854	5.92	-80	20.1		Yellow, hydrogen sulfide odour.
		10-Dec-08	9.0	1.08	1864	5.90	-84	20.1		Yellow, hydrogen sulfide odour.
	6	10-Dec-08	3.0	1.60	2450	5.84	-79	20.4		Clear, hydrogen sulfide odour.
		10-Dec-08	6.0	1.27	2320	5.86	-78	20.2		Clear, hydrogen sulfide odour.
		10-Dec-08	9.0	0.99	2380	5.87	-78	20.2		Clear, hydrogen sulfide odour.
	8	10-Dec-08	3.0	0.92	2370	5.78	-100	19.9		Pale yellow, hydrogen sulfide odour.
		10-Dec-08	6.0	0.71	2320	5.80	-87	20.0		Pale yellow, hydrogen sulfide odour.
		10-Dec-08	9.0	0.40	2310	5.82	-90	20.0		Pale yellow, hydrogen sulfide odour.
BP54	6	11-Dec-08	2.0	4.02	1046	4.73	174	19.2		Clear, no odour.
		11-Dec-08	4.0	3.99	1042	4.66	177	19.2		Clear, no odour.
		11-Dec-08	6.0	3.98	1044	4.63	178	19.2		Clear, no odour.
BP56	6	10-Dec-08	2.0	1.58	335	5.90	178	22.1		Clear to pale yellow, slight hydrogen sulfide odour.
		10-Dec-08	4.0	1.21	344	5.60	190	21.8		Clear to pale yellow, slight hydrogen sulfide odour.
		10-Dec-08	6.0	1.00	344	5.63	194	21.8		Clear to pale yellow, slight hydrogen sulfide odour.
BP57	3	10-Dec-08	2.0	0.68	365	6.40	186	21.9		Clear, slight hydrogen sulfide odour.
		10-Dec-08	4.0	0.49	361	6.38	187	21.8		Clear, slight hydrogen sulfide odour.
		10-Dec-08	6.0	0.47	360	6.40	185	21.8		Clear, slight hydrogen sulfide odour.
BP58	6	10-Dec-08	2.0	0.93	402	5.94	139	22.1		Clear, slight hydrogen sulfide odour.
		10-Dec-08	4.0	0.55	322	5.95	137	21.0		Clear, slight hydrogen sulfide odour.
		10-Dec-08	6.0	0.42	287	6.01	129	20.5		Clear, slight hydrogen sulfide odour.
		10-Dec-08	7.0	0.35	280	6.07	132	20.4		Clear, slight hydrogen sulfide odour.
BP59	4	11-Dec-08	3.0	0.33	5950	5.27	-42	20.5		Black, hydrogen sulfide odour.
		11-Dec-08	6.0	0.13	6080	5.18	-51	20.8		Black, hydrogen sulfide odour.
		11-Dec-08	9.0	0.11	6060	5.11	-47	20.7		Black, hydrogen sulfide odour.
	8	11-Dec-08	3.0	1.53	2440	4.62	33	20.5		Brown-grey, hydrogen sulfide odour.
		11-Dec-08	6.0	1.11	2430	4.49	-3	20.5		Brown-grey, hydrogen sulfide odour.
		11-Dec-08	9.0	0.82	2440	4.43	7	20.4		Brown-grey, hydrogen sulfide odour.
	12	11-Dec-08	3.0	0.81	2390	4.12	-22	20.6		Clear, hydrogen sulfide odour.
		11-Dec-08	6.0	0.49	2410	3.99	-42	20.6		Clear, hydrogen sulfide odour.
		11-Dec-08	9.0	0.59	2410	4.00	-31	20.5		Clear, hydrogen sulfide odour.
BP60	4	09-Dec-08	2.0	2.04	380	5.69	143	19.7		Clear, hydrogen sulfide odour.
		09-Dec-08	4.0	0.66	314	5.73	137	19.3		Clear, hydrogen sulfide odour.
		09-Dec-08	6.0	0.45	303	5.78	131	19.2		Clear, hydrogen sulfide odour.
BP61	4	09-Dec-08	2.0	0.95	1309	5.64	11	22.6		Yellow, hydrogen sulfide odour.
		09-Dec-08	4.0	0.54	1279	5.42	-26	21.5		Yellow, hydrogen sulfide odour.
		09-Dec-08	6.0	0.40	1273	5.39	-29	21.4		Yellow, hydrogen sulfide odour.
BP72	3	09-Dec-08	2.0	0.80	635	5.77	137	21.3		Pale yellow, hydrogen sulfide odour.
		09-Dec-08	4.0	0.42	608	5.71	122	20.8		Pale yellow, hydrogen sulfide odour.
		09-Dec-08	6.0	0.29	646	5.71	124	20.5		Pale yellow, hydrogen sulfide odour.
BP76	4	11-Dec-08	2.0	0.94	1017	5.15	2	19.8		Clear, hydrogen sulfide odour.
		11-Dec-08	4.0	0.40	1029	5.07	-27	19.9		Clear, hydrogen sulfide odour.
		11-Dec-08	6.0	0.15	1036	5.08	-29	20.0		Clear, hydrogen sulfide odour.
BP77	4	09-Dec-08	2.0	2.22	2560	5.54	-76	19.9		Clear to yellow, hydrogen sulfide odour.
		09-Dec-08	4.0	0.83	2590	5.53	-116	19.5		Clear to yellow, hydrogen sulfide odour.
		09-Dec-08	6.0	0.45	2590	5.55	-118	19.4		Clear to yellow, hydrogen sulfide odour.
BP89	6	11-Dec-08	2.0	2.01	553	6.24	134	20.1		Clear, slight hydrogen sulfide odour.
		11-Dec-08	4.0	2.19	543	6.18	133	20.2		Clear, slight hydrogen sulfide odour.
		11-Dec-08	6.0	2.15	542	6.23	144	20.3		Clear, slight hydrogen sulfide odour.
BP95	3	11-Dec-08	2.0	2.73	1745	5.50	50	19.6		Greenish, hydrogen sulfide odour.
		11-Dec-08	4.0	2.06	1784	5.59	23	19.4		Greenish, hydrogen sulfide odour.
		11-Dec-08	6.0	1.14	1809	5.57	-18	19.9		Greenish, hydrogen sulfide odour.
		11-Dec-08	8.0	1.02	1807	5.56	-20	19.9		Greenish, hydrogen sulfide odour.
BP111	6	09-Dec-08	2.0	1.47	462	5.37	84	23.5		Brown, slightly turbid, hydrogen sulfide odour.
		09-Dec-08	4.0	0.74	462	5.28	31	22.2		Brown, slightly turbid, hydrogen sulfide odour.
		09-Dec-08	6.0	0.41	453	5.28	4	21.5		Brown, slightly turbid, hydrogen sulfide odour.
		09-Dec-08	8.0	0.37	453	5.28	6	21.4		Brown, slightly turbid, hydrogen sulfide odour.
BP113	3	10-Dec-08	2.0	0.97	462	6.75	7	20.0		Yellow, hydrogen sulfide odour.
		10-Dec-08	4.0	0.51	458	6.73	-28	19.7		Yellow, hydrogen sulfide odour.
		10-Dec-08	6.0	0.32	457	6.72	-41	19.6		Yellow, hydrogen sulfide odour.
		09-Dec-08	2.0	0.73	1502	5.18	-28	20.6		Clear, slight hydrogen sulfide odour.
BP114	6	09-Dec-08	4.0	0.40	1540	5.08	-71	20.1		Clear, slight hydrogen sulfide odour.
		09-Dec-08	6.0	0.27	1600	5.08	-105	19.9		Clear, slight hydrogen sulfide odour.
		09-Dec-08	7.0	0.17	1631	5.08	-122	19.9		Clear, slight hydrogen sulfide odour.
		09-Dec-08	2.0	0.78	1434	4.65	-42	21.2		Clear, strong hydrogen sulfide odour.
WG23S	S	09-Dec-08	6.0	0.24	1405	4.70	-70	20.4		Clear, strong hydrogen sulfide odour.
		09-Dec-08	9.0	0.09	1382	4.72	-79	20.1		Clear, strong hydrogen sulfide odour.
		09-Dec-08	12.0	0.11	1398	4.77	-82	20.0		Clear, strong hydrogen sulfide odour.
WG154_S	S	09-Dec-08	2.0	1.14	2360	5.12	-86	20.1	2.7	Clear to yellow, hydrogen sulfide odour.
		09-Dec-08	4.0	0.64	2370	5.12	-119	19.7		Clear to yellow, hydrogen sulfide odour.
		09-Dec-08	6.0	0.47	2360	5.13	-131	19.7		Clear to yellow, hydrogen sulfide odour.
WG227_S	S	10-Dec-08	2.0	0.37	508	6.69	115	21.5	1.8	Brown, turbid, slight hydrogen sulfide odour.
		10-Dec-08	4.0	0.20	506	6.65	110	21.4		Brown, turbid, slight hydrogen sulfide odour.
		10-Dec-08	6.0	0.16	506	6.65	109	21.3		Brown, turbid, slight hydrogen sulfide odour.
WG229_S	S	10-Dec-08	2.0	0.69	1275	6.72	-76	23.0	5.8	Black to brown, turbid, hydrogen sulfide odour.
		10-Dec-08	4.0	0.19	1210	6.76	-162	22.9		Black to brown, turbid, hydrogen sulfide odour.
		10-Dec-08	6.0	0.12	1172	6.75	-172	22.8		Black to brown, turbid, hydrogen sulfide odour.
		10-Dec-08	7.0	0.06	1143	6.77	-185	22.7		Black to brown, turbid, hydrogen sulfide odour.
WG231_S	S	10-Dec-08	2.0	1.39	520	5.49	139	21.3	6.0	Yellow, strong hydrogen sulfide odour.
		10-Dec-08	4.0	0.80	535	5.36	152	20.5		Yellow, strong hydrogen sulfide odour.
		10-Dec-08	6.0	0.52	531	5.35	155	20.2		Yellow, strong hydrogen sulfide odour.
WG233_S	S	09-Dec-08	2.0	0.79	438	6.19	37	22.0	5.9	Clear to brown, solvent odour.
		09-Dec-08	4.0	0.34	446	6.11	-17	21.8		Clear to brown, solvent odour.
		09-Dec-08	6.0	0.25	445	6.10	-18	21.8		Clear to brown, solvent odour.
WG234_S	S	09-Dec-08	2.0	2.88	983	6.35	-21	21.4	0.8	Clear to brown, solvent odour.
		09-Dec-08	4.0	1.74	1029	6.28	-62	21.1		Clear to brown, solvent odour.
		09-Dec-08	6.0	0.98	1031	6.26	-71	21.0		Clear to brown, solvent odour.

Table 5.1  
Field Observation Data  
December 2008

Location	Depth	Date Sampled	Volume (L) Removed	DO ppm	EC (µS/cm)	pH	Er* (mV)	Temp (°C)	SWL (m)	Comments
<b>Penrhyn Estuary / Dunes</b>										
BP01	0.75	08-Dec-08		1.61	23700	5.71	281	25.2		Clear, hydrogen sulfide odour.
	1.25	08-Dec-08		1.87	12110	6.48	255	25.9		Clear, hydrogen sulfide odour.
	2	08-Dec-08		0.98	9940	6.49	-2	24.2		Clear, slightly turbid, hydrogen sulfide odour.
	6	08-Dec-08		1.39	7360	5.61	-26	24.0		Clear, hydrogen sulfide odour.
	10	08-Dec-08		2.79	11270	5.02	11	25.0		Clear, hydrogen sulfide odour.
BP71A	1	08-Dec-08		3.24	41800	7.89	109	27.2		Clear, no odour.
BP115	3	08-Dec-08		3.99	686	7.96	152	22.5	3.8	Clear, hydrogen sulfide odour.
	5	08-Dec-08		2.38	2140	6.34	171	26.0		Clear, strong hydrogen sulfide odour.
	6.5	08-Dec-08		0.75	11670	7.05	-9	24.8		Clear, strong hydrogen sulfide odour.
MWF15_S	S	08-Dec-08	2.0	1.45	39000	6.28	59	18.9	2.9	Clear, hydrogen sulfide odour.
		08-Dec-08	5.0	1.23	38400	5.62	50	18.7		Clear, hydrogen sulfide odour.
		08-Dec-08	8.0	1.26	38300	5.43	50	18.8		Clear, hydrogen sulfide odour.
MWF15_J	J	08-Dec-08	2.0	1.93	8330	5.83	42	19.6	2.7	Clear, hydrogen sulfide odour.
		08-Dec-08	5.0	1.51	8410	5.52	24	19.0		Clear, hydrogen sulfide odour.
		08-Dec-08	8.0	1.14	7710	5.13	28	19.0		Clear, hydrogen sulfide odour.
MWF15_D	D	08-Dec-08	2.0	2.56	1012	7.87	151	19.7	2.0	Clear to pale grey, hydrogen sulfide odour.
		08-Dec-08	5.0	0.80	2640	6.81	51	18.8		Clear to pale grey, hydrogen sulfide odour.
		08-Dec-08	8.0	0.64	2680	6.61	34	18.8		Clear to pale grey, hydrogen sulfide odour.
<b>High Tide</b>										
BP42	0.1	08-Dec-08		3.27	45700	7.45	112	21.2		Clear, slight hydrogen sulfide odour.
	0.5	08-Dec-08		2.73	46000	7.48	114	21.2		Clear, no odour.
	2	08-Dec-08		2.67	43600	7.40	86	21.3		Clear, strong hydrogen sulfide odour.
BP43	0.1	08-Dec-08		4.84	43100	7.40	86	21.2		Clear, hydrocarbon odour.
	0.5	08-Dec-08		3.85	44000	7.37	84	21.2		Clear, slight hydrogen sulfide odour.
	1	08-Dec-08		3.07	44900	7.33	79	21.2		Clear, slight hydrogen sulfide odour.
BP64	0.1	08-Dec-08		3.26	45200	7.01	172	21.1		Clear, hydrogen sulfide odour.
	0.5	08-Dec-08		3.06	42500	7.33	169	21.1		Clear, slight hydrogen sulfide odour.
	2	08-Dec-08		3.16	41200	7.20	117	21.0		Clear, strong hydrogen sulfide odour.
BP65	0.1	08-Dec-08		3.77	44900	7.11	130	21.4		Clear, slight hydrogen sulfide odour.
	0.5	08-Dec-08		3.06	45200	7.16	129	21.4		Clear, no odour.
	2	08-Dec-08		3.42	43300	7.27	113	21.3		Clear, slightly turbid, slight hydrogen sulfide odour.
<b>Low Tide</b>										
BP42	0.1	08-Dec-08		1.45	44900	6.24	73	26.5		Clear, no odour.
	0.5	08-Dec-08		2.25	45700	6.64	76	26.1		Clear, no odour.
	2	08-Dec-08		1.55	43800	6.78	71	26.0		Clear, slight hydrogen sulfide odour.
BP43	0.1	08-Dec-08		1.15	42400	6.88	72	26.7		Clear, no odour.
	0.5	08-Dec-08		1.49	44100	6.93	76	27.4		Clear, no odour.
	1	08-Dec-08		1.50	45400	6.92	75	27.5		Clear, no odour.
BP64	0.1	08-Dec-08		2.16	45300	7.02	79	29.4		Clear, no odour.
	0.5	08-Dec-08		2.21	45700	7.21	86	30.2		Clear, no odour.
	2	08-Dec-08		1.10	41400	7.20	87	30.6		Clear, no odour.
BP65	0.1	08-Dec-08		1.79	43200	7.03	93	31.5		Clear, no odour.
	0.5	08-Dec-08		1.45	43300	7.11	86	31.9		Orange, turbid, no odour.
	2	08-Dec-08		1.88	45100	7.21	84	31.7		Yellow, turbid, no odour.
<b>SURFACE WATER</b>										
<b>High Tide</b>										
SW28		08-Dec-08		5.50	43600	7.84	94	21.3		Clear, no odour.
SW29		08-Dec-08		5.25	18190	8.09	77	21.5		Clear, no odour.
SW31		08-Dec-08		5.59	10880	8.46	81	21.9		Clear to pale yellow, slight hydrogen sulfide odour.
SW48		08-Dec-08		4.91	46200	7.65	82	21.4		Clear, no odour.
<b>Low Tide</b>										
SW28		08-Dec-08		3.76	42000	7.62	85	28.6		Clear, no odour.
SW29		08-Dec-08		3.74	13500	7.84	87	28.2		Clear, no odour.
SW31		08-Dec-08		3.29	1766	7.41	81	27.9		Slightly turbid, slight sheen, no odor.
SW48		08-Dec-08		3.88	43000	7.42	115	27.7		Clear, no odour.
<b>Tide Non-specific</b>										
SW005		08-Dec-08		1.76	1513	8.16	134	24.0		Clear to pale yellow, no odour.
SW30		08-Dec-08		3.40	7280	7.80	86	28.2		Slightly turbid, no odour.
SW46		08-Dec-08		4.62	471	7.70	156	26.5		Clear to yellow, no odour.
SW49		08-Dec-08		4.49	2380	7.51	162	26.7		Clear to pale yellow, solvent odour.
SW52		08-Dec-08		3.03	712	7.58	151	21.2		Clear to pale yellow, slight hydrogen sulfide odour.
SW53		08-Dec-08		3.04	606	7.51	163	22.1		Clear to pale yellow, hydrogen sulfide odour.
SW60		08-Dec-08		3.76	38300	7.94	111	27.7		Clear, no odour.
SW66		08-Dec-08		7.26	516	7.94	184	24.3		Clear to pale brown, no odour.

Er = oxidation reduction (redox) potential as measured with a platinum electrode and silver/silver chloride reference electrode  
 Eh = redox potential relative to the standard hydrogen electrode. (Eh = Er + 199mv)  
 TDS = EC in µS x 0.6

**Table 5.2**  
**Groundwater Volatile CHCs**  
**December 2008**

Location	Sample Depth	BP01	BP01	BP01	BP01	BP01	BP41	BP41	BP41
		0.75	1.25	2.00	6.00	10.00	4.00	6.00	8.00
Date Sampled		8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	10/12/2008	10/12/2008	10/12/2008
Analyte	Unit								
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.020	< 0.020	< 0.020	< 0.005	< 0.020	< 0.020
Chloroform	mg/l	< 0.001	< 0.001	<b>6.28</b>	<b>8.49</b>	<b>3.15</b>	<b>1.71</b>	<b>2.72</b>	<b>2.82</b>
Methylene chloride	mg/l	< 0.005	< 0.005	<b>0.068</b>	<b>0.108</b>	<b>0.088</b>	<b>0.221</b>	<b>0.33</b>	<b>0.349</b>
Chloromethane	mg/l	< 0.010	< 0.010	< 0.200	< 0.200	< 0.200	< 0.050	< 0.200	< 0.200
<b>Total Chlorinated Methanes</b>		<b>&lt; 0.010</b>	<b>&lt; 0.010</b>	<b>6.348</b>	<b>8.598</b>	<b>3.238</b>	<b>1.931</b>	<b>3.05</b>	<b>3.169</b>
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.020	< 0.020	< 0.020	< 0.005	< 0.020	< 0.020
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.020	< 0.020	< 0.020	< 0.005	< 0.020	< 0.020
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	<b>5.03</b>	<b>9.75</b>	<b>4.64</b>	<b>0.105</b>	<b>0.163</b>	<b>0.19</b>
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.020	< 0.020	< 0.020	< 0.005	< 0.020	< 0.020
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	<b>5.28</b>	<b>7.33</b>	<b>2.03</b>	<b>2.1</b>	<b>3.2</b>	<b>3.3</b>
1.1-Dichloroethane	mg/l	<b>0.008</b>	<b>0.002</b>	<b>0.456</b>	<b>0.506</b>	<b>0.147</b>	<b>0.476</b>	<b>0.716</b>	<b>0.71</b>
1.2-Dichloroethane	mg/l	<b>0.008</b>	< 0.001	<b>27</b>	<b>30</b>	<b>8.29</b>	<b>5.9</b>	<b>11.6</b>	<b>11.9</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.200	< 0.200	< 0.200	< 0.050	< 0.200	< 0.200
<b>Total Chlorinated Ethanes</b>		<b>0.016</b>	<b>0.002</b>	<b>37.766</b>	<b>47.586</b>	<b>15.107</b>	<b>8.581</b>	<b>15.679</b>	<b>16.1</b>
Tetrachloroethene	mg/l	< 0.001	< 0.001	<b>0.047</b>	<b>0.806</b>	<b>2.82</b>	<b>0.042</b>	<b>0.122</b>	<b>0.118</b>
Trichloroethene	mg/l	< 0.001	< 0.001	<b>19.2</b>	<b>40.5</b>	<b>36</b>	<b>0.87</b>	<b>1.41</b>	<b>1.46</b>
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	<b>1.47</b>	<b>1.79</b>	<b>0.83</b>	<b>0.764</b>	<b>1.05</b>	<b>1.07</b>
cis-1.2-Dichloroethene	mg/l	<b>0.008</b>	< 0.001	<b>3.39</b>	<b>2.67</b>	<b>2.13</b>	<b>0.638</b>	<b>1.06</b>	<b>1.06</b>
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	<b>0.642</b>	<b>0.446</b>	<b>0.413</b>	<b>0.136</b>	<b>0.204</b>	<b>0.194</b>
Vinyl chloride	mg/l	< 0.010	< 0.010	<b>2.5</b>	<b>2.13</b>	<b>0.94</b>	<b>2.27</b>	<b>3.52</b>	<b>2.92</b>
Vinyl chloride (SIM)	mg/l	< 0.001							
<b>Total Chlorinated Ethenes</b>		<b>0.008</b>	< 0.010	<b>27.249</b>	<b>48.342</b>	<b>43.133</b>	<b>4.72</b>	<b>7.366</b>	<b>6.822</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.020	< 0.020	< 0.020	< 0.005	< 0.020	< 0.020
<b>Total Volatile CHCs</b>		<b>0.024</b>	<b>0.002</b>	<b>71.363</b>	<b>104.526</b>	<b>61.478</b>	<b>15.232</b>	<b>26.095</b>	<b>26.091</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	<b>0.036</b>	<b>0.477</b>	<b>0.482</b>	< 0.005	< 0.020	< 0.020

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.2**  
**Groundwater Volatile CHCs**  
**December 2008**

Location		BP54	BP56	BP57	BP58	BP59	BP59	BP59	BP60	BP61
Sample Depth		6.00	6.00	3.00	6.00	4.00	8.00	12.00	4.00	4.00
Date Sampled		11/12/2008	10/12/2008	10/12/2008	9/12/2008	11/12/2008	11/12/2008	11/12/2008	9/12/2008	9/12/2008
Analyte	Unit									
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.200	< 0.001	< 0.001
Chloroform	mg/l	<b>0.003</b>	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.038</b>	<b>3.32</b>	< 0.001	< 0.001
Methylene chloride	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 1.000	< 0.005	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.050	< 2.000	< 0.010	< 0.010
<b>Total Chlorinated Methanes</b>		<b>0.003</b>	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.038</b>	<b>3.32</b>	< 0.010	< 0.010
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.200	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<b>1.99</b>	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<b>1.46</b>	< 0.001	< 0.001
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<b>1.19</b>	< 0.001	< 0.001
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<b>3.48</b>	< 0.001	< 0.001
1.1-Dichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.002</b>	<b>0.021</b>	<b>0.532</b>	<b>0.001</b>	<b>0.08</b>
1.2-Dichloroethane	mg/l	< 0.001	< 0.001	< 0.001	<b>0.003</b>	<b>0.008</b>	<b>1.56</b>	<b>985</b>	< 0.001	<b>0.015</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.1</b>	< 0.050	< 2.000	< 0.010	< 0.010
<b>Total Chlorinated Ethanes</b>		< 0.010	< 0.010	< 0.010	<b>0.003</b>	<b>0.11</b>	<b>1.581</b>	<b>993.652</b>	<b>0.001</b>	<b>0.095</b>
Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.019</b>	<b>3.66</b>	<b>0.004</b>	< 0.001
Trichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.004</b>	<b>0.243</b>	<b>10.5</b>	<b>0.003</b>	<b>0.001</b>
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.046</b>	<b>1.28</b>	< 0.001	< 0.001
cis-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.908</b>	<b>2.76</b>	< 0.001	<b>0.481</b>
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.22</b>	<b>0.422</b>	< 0.001	<b>0.029</b>
Vinyl chloride	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<b>4.47</b>	<b>36.2</b>	< 0.010	<b>0.41</b>
Vinyl chloride (SIM)	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001	
<b>Total Chlorinated Ethenes</b>		< 0.010	< 0.010	< 0.010	< 0.010	<b>0.004</b>	<b>5.906</b>	<b>54.822</b>	<b>0.007</b>	<b>0.921</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.200	< 0.001	< 0.001
<b>Total Volatile CHCs</b>		<b>0.003</b>	< 0.010	< 0.010	<b>0.003</b>	<b>0.114</b>	<b>7.525</b>	<b>1051.794</b>	<b>0.008</b>	<b>1.016</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<b>0.472</b>	< 0.001	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.2**  
**Groundwater Volatile CHCs**  
**December 2008**

Location	Sample Depth	BP72	BP76	BP77	BP89	BP95	BP111	BP113	BP114
		3.00	4.00	4.00	6.00	3.00	6.00	3.00	6.00
Date Sampled		9/12/2008	11/12/2008	9/12/2008	11/12/2008	11/12/2008	9/12/2008	10/12/2008	9/12/2008
Analyte	Unit								
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.068</b>	< 0.001	< 0.001	< 0.001
Chloroform	mg/l	< 0.001	<b>0.032</b>	<b>0.006</b>	< 0.001	<b>1.58</b>	< 0.001	< 0.001	< 0.001
Methylene chloride	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	<b>0.083</b>	< 0.005	< 0.005	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.050	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Methanes</b>		< 0.010	<b>0.032</b>	<b>0.006</b>	< 0.010	<b>1.731</b>	< 0.010	< 0.010	< 0.010
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.063</b>	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.009</b>	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	mg/l	< 0.001	<b>0.027</b>	< 0.001	< 0.001	<b>0.413</b>	< 0.001	< 0.001	< 0.001
1.1-Dichloroethane	mg/l	< 0.001	<b>0.131</b>	<b>0.151</b>	< 0.001	<b>0.116</b>	< 0.001	< 0.001	<b>0.008</b>
1.2-Dichloroethane	mg/l	<b>0.017</b>	<b>0.087</b>	<b>0.012</b>	< 0.001	<b>0.44</b>	<b>0.006</b>	< 0.001	<b>0.021</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.050	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Ethanes</b>		<b>0.017</b>	<b>0.245</b>	<b>0.163</b>	< 0.010	<b>1.041</b>	<b>0.006</b>	< 0.010	<b>0.029</b>
Tetrachloroethene	mg/l	< 0.001	< 0.001	<b>0.002</b>	< 0.001	< 0.005	< 0.001	< 0.001	<b>0.001</b>
Trichloroethene	mg/l	< 0.001	<b>0.004</b>	<b>0.004</b>	< 0.001	<b>0.628</b>	<b>0.001</b>	< 0.001	< 0.001
1.1-Dichloroethene	mg/l	< 0.001	<b>0.282</b>	< 0.001	< 0.001	<b>0.026</b>	< 0.001	< 0.001	<b>0.002</b>
cis-1.2-Dichloroethene	mg/l	< 0.001	<b>0.294</b>	< 0.001	< 0.001	<b>4.12</b>	< 0.001	<b>0.005</b>	<b>0.184</b>
trans-1.2-Dichloroethene	mg/l	< 0.001	<b>0.027</b>	< 0.001	< 0.001	<b>0.206</b>	< 0.001	< 0.001	<b>0.038</b>
Vinyl chloride	mg/l	< 0.010	<b>0.9</b>	< 0.010	< 0.010	<b>7.61</b>	< 0.010	< 0.010	< 0.010
Vinyl chloride (SIM)	mg/l	< 0.001		< 0.001	< 0.001		< 0.001	< 0.001	< 0.001
<b>Total Chlorinated Ethenes</b>		< 0.010	<b>1.507</b>	<b>0.006</b>	< 0.010	<b>12.59</b>	<b>0.001</b>	<b>0.005</b>	<b>0.225</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
<b>Total Volatile CHCs</b>		<b>0.017</b>	<b>1.784</b>	<b>0.175</b>	< 0.010	<b>15.362</b>	<b>0.007</b>	<b>0.005</b>	<b>0.254</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.2**  
**Groundwater Volatile CHCs**  
**December 2008**

Location	Sample Depth	BP115	BP115	BP115	MWF15	MWF15	MWF15	WG23	WG154	WG227
		3.00	5.00	6.50	S	I	D	S	S	S
Date Sampled		8/12/2008	9/12/2008	9/12/2008	8/12/2008	8/12/2008	8/12/2008	9/12/2008	9/12/2008	10/12/2008
Analyte	Unit									
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	<b>12.6</b>	< 0.001	< 0.001	< 0.050	< 0.001
Chloroform	mg/l	< 0.001	<b>0.458</b>	< 0.001	< 0.001	<b>30.2</b>	< 0.001	<b>0.047</b>	<b>2.15</b>	< 0.001
Methylene chloride	mg/l	< 0.005	<b>0.029</b>	< 0.005	< 0.005	<b>0.086</b>	< 0.005	< 0.005	<b>1.31</b>	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.200	< 0.010	< 0.010	< 0.500	< 0.010
<b>Total Chlorinated Methanes</b>		< 0.010	<b>0.487</b>	< 0.010	< 0.010	<b>42.886</b>	< 0.010	<b>0.047</b>	<b>3.46</b>	< 0.010
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001	< 0.050	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001	< 0.050	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	<b>0.201</b>	< 0.001	< 0.001	<b>22.7</b>	<b>0.004</b>	<b>0.11</b>	<b>0.519</b>	< 0.001
1.1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001	< 0.050	< 0.001
1.1.2.1-Trichloroethane	mg/l	< 0.001	<b>0.533</b>	< 0.001	< 0.001	<b>8.66</b>	<b>0.002</b>	<b>0.011</b>	<b>2.24</b>	<b>0.001</b>
1.1-Dichloroethane	mg/l	< 0.001	<b>0.045</b>	<b>0.029</b>	< 0.001	<b>0.367</b>	< 0.001	<b>0.022</b>	<b>0.851</b>	<b>0.003</b>
1.2-Dichloroethane	mg/l	< 0.001	<b>1</b>	<b>0.008</b>	<b>0.006</b>	<b>17.1</b>	<b>0.005</b>	<b>0.026</b>	<b>92.6</b>	<b>0.001</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.200	< 0.010	< 0.010	< 0.500	< 0.010
<b>Total Chlorinated Ethanes</b>		< 0.010	<b>1.779</b>	<b>0.037</b>	<b>0.006</b>	<b>48.827</b>	<b>0.011</b>	<b>0.169</b>	<b>96.21</b>	<b>0.005</b>
Tetrachloroethene	mg/l	< 0.001	<b>0.091</b>	< 0.001	< 0.001	<b>31</b>	<b>0.003</b>	<b>0.106</b>	<b>1.54</b>	< 0.001
Trichloroethene	mg/l	< 0.001	<b>0.164</b>	<b>0.001</b>	<b>0.002</b>	<b>46.9</b>	<b>0.01</b>	<b>0.18</b>	<b>2.94</b>	<b>0.004</b>
1.1-Dichloroethene	mg/l	< 0.001	<b>0.017</b>	< 0.001	< 0.001	<b>1.7</b>	< 0.001	<b>0.025</b>	<b>2.63</b>	< 0.001
cis-1.2-Dichloroethene	mg/l	< 0.001	<b>0.845</b>	<b>0.002</b>	<b>0.003</b>	<b>2.78</b>	<b>0.003</b>	<b>1.33</b>	<b>3.93</b>	<b>0.01</b>
trans-1.2-Dichloroethene	mg/l	< 0.001	<b>0.1</b>	< 0.001	< 0.001	<b>0.735</b>	< 0.001	<b>0.174</b>	<b>0.353</b>	<b>0.009</b>
Vinyl chloride	mg/l	< 0.010	<b>2.51</b>	< 0.010	< 0.010	<b>1.34</b>	< 0.010	<b>0.46</b>	<b>10.4</b>	< 0.010
Vinyl chloride (SIM)	mg/l	< 0.001								
<b>Total Chlorinated Ethenes</b>		< 0.010	<b>3.727</b>	<b>0.003</b>	<b>0.005</b>	<b>84.455</b>	<b>0.016</b>	<b>2.275</b>	<b>21.793</b>	<b>0.023</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	<b>0.012</b>	< 0.050	< 0.001
<b>Total Volatile CHCs</b>		< 0.010	<b>5.993</b>	<b>0.04</b>	<b>0.011</b>	<b>176.168</b>	<b>0.027</b>	<b>2.491</b>	<b>121.463</b>	<b>0.028</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	<b>3.96</b>	< 0.001	< 0.001	<b>0.218</b>	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.2**  
**Groundwater Volatile CHCs**  
**December 2008**

Location		WG229	WG231	WG233	WG234
Sample Depth		S	S	S	S
Date Sampled		10/12/2008	10/12/2008	10/12/2008	10/12/2008
Analyte	Unit				
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.020
Chloroform	mg/l	< 0.001	< 0.001	< 0.001	<b>0.191</b>
Methylene chloride	mg/l	< 0.005	< 0.005	< 0.005	< 0.020
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.200
<b>Total Chlorinated Methanes</b>		<b>&lt; 0.010</b>	<b>&lt; 0.010</b>	<b>&lt; 0.010</b>	<b>0.191</b>
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.020
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.020
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.020
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.020
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	<b>0.063</b>
1.1-Dichloroethane	mg/l	< 0.001	< 0.001	< 0.001	<b>0.114</b>
1.2-Dichloroethane	mg/l	<b>0.006</b>	< 0.001	< 0.001	<b>22.9</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.200
<b>Total Chlorinated Ethanes</b>		<b>0.006</b>	<b>&lt; 0.010</b>	<b>&lt; 0.010</b>	<b>23.077</b>
Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	<b>0.015</b>
Trichloroethene	mg/l	< 0.001	< 0.001	< 0.001	<b>1.29</b>
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	<b>0.075</b>
cis-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	<b>0.415</b>
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	<b>0.117</b>
Vinyl chloride	mg/l	< 0.010	< 0.010	< 0.010	<b>1.29</b>
Vinyl chloride (SIM)	mg/l	< 0.001	< 0.001	< 0.001	
<b>Total Chlorinated Ethenes</b>		<b>&lt; 0.010</b>	<b>&lt; 0.010</b>	<b>&lt; 0.010</b>	<b>3.202</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.020
<b>Total Volatile CHCs</b>		<b>0.006</b>	<b>&lt; 0.010</b>	<b>&lt; 0.010</b>	<b>26.47</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.020

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.3**  
**Penrhyn Estuary Pore Water**  
**Volatile CHCs**  
**December 2008**

Location		BP42	BP42	BP42	BP42	BP42	BP42
Sample Depth		0.10	0.50	2.00	0.10	0.50	2.00
Tide		L	L	L	H	H	H
Date Sampled		8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008
Analyte	Unit						
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	mg/l	< 0.001	< 0.001	<b>0.002</b>	< 0.001	< 0.001	<b>0.002</b>
Methylene chloride	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Methanes</b>		< 0.010	< 0.010	<b>0.002</b>	< 0.010	< 0.010	<b>0.002</b>
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethane	mg/l	< 0.001	< 0.001	<b>0.016</b>	< 0.001	< 0.001	<b>0.015</b>
1.2-Dichloroethane	mg/l	< 0.001	< 0.001	<b>0.002</b>	< 0.001	< 0.001	<b>0.002</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Ethanes</b>		< 0.010	< 0.010	<b>0.018</b>	< 0.010	< 0.010	<b>0.017</b>
Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Vinyl chloride (SIM)	mg/l	< 0.001			< 0.001		
<b>Total Chlorinated Ethenes</b>		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<b>Total Volatile CHCs</b>		< 0.010	< 0.010	<b>0.02</b>	< 0.010	< 0.010	<b>0.019</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.3**  
**Penrhyn Estuary Pore Water**  
**Volatile CHCs**  
**December 2008**

Location		BP43	BP43	BP43	BP43	BP43	BP43
Sample Depth		0.10	0.50	1.00	0.10	0.50	1.00
Tide		L	L	L	H	H	H
Date Sampled		8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008
Analyte	Unit						
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methylene chloride	mg/l	< 0.005	< 0.005	<b>0.014</b>	< 0.005	< 0.005	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Methanes</b>		< 0.010	< 0.010	<b>0.014</b>	< 0.010	< 0.010	< 0.010
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethane	mg/l	<b>0.006</b>	<b>0.014</b>	<b>0.006</b>	<b>0.007</b>	<b>0.014</b>	<b>0.006</b>
1.2-Dichloroethane	mg/l	< 0.001	< 0.001	<b>0.003</b>	< 0.001	< 0.001	< 0.001
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Ethanes</b>		<b>0.006</b>	<b>0.014</b>	<b>0.009</b>	<b>0.007</b>	<b>0.014</b>	<b>0.006</b>
Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	<b>0.002</b>	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	mg/l	< 0.010	< 0.010	<b>0.04</b>	< 0.010	< 0.010	<b>0.02</b>
Vinyl chloride (SIM)	mg/l	< 0.001			< 0.001		
<b>Total Chlorinated Ethenes</b>		< 0.010	< 0.010	<b>0.042</b>	< 0.010	< 0.010	<b>0.02</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<b>Total Volatile CHCs</b>		<b>0.006</b>	<b>0.014</b>	<b>0.065</b>	<b>0.007</b>	<b>0.014</b>	<b>0.026</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.3**  
**Penrhyn Estuary Pore Water**  
**Volatile CHCs**  
**December 2008**

Location		BP64	BP64	BP64	BP64	BP64	BP64
Sample Depth		0.10	0.50	2.00	0.10	0.50	2.00
Tide		L	L	L	H	H	H
Date Sampled		8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008
Analyte	Unit						
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	mg/l	< 0.001	< 0.001	<b>0.002</b>	< 0.001	< 0.001	<b>0.002</b>
Methylene chloride	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Methanes</b>		< 0.010	< 0.010	<b>0.002</b>	< 0.010	< 0.010	<b>0.002</b>
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	<b>0.001</b>	< 0.001	< 0.001	<b>0.002</b>
1.1-Dichloroethane	mg/l	< 0.001	< 0.001	<b>0.007</b>	< 0.001	< 0.001	<b>0.007</b>
1.2-Dichloroethane	mg/l	< 0.001	< 0.001	<b>0.017</b>	< 0.001	< 0.001	<b>0.024</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Ethanes</b>		< 0.010	< 0.010	<b>0.025</b>	< 0.010	< 0.010	<b>0.033</b>
Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	mg/l	< 0.001	< 0.001	<b>0.001</b>	< 0.001	< 0.001	<b>0.005</b>
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	<b>0.002</b>	< 0.001	< 0.001	<b>0.003</b>
cis-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	<b>0.029</b>	< 0.001	< 0.001	<b>0.035</b>
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	<b>0.012</b>	< 0.001	< 0.001	<b>0.011</b>
Vinyl chloride	mg/l	< 0.010	< 0.010	<b>0.13</b>	< 0.010	< 0.010	<b>0.1</b>
Vinyl chloride (SIM)	mg/l	< 0.001			< 0.001		
<b>Total Chlorinated Ethenes</b>		< 0.010	< 0.010	<b>0.174</b>	< 0.010	< 0.010	<b>0.154</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<b>Total Volatile CHCs</b>		< 0.010	< 0.010	<b>0.201</b>	< 0.010	< 0.010	<b>0.189</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.3**  
**Penrhyn Estuary Pore Water**  
**Volatile CHCs**  
**December 2008**

Location		BP65	BP65	BP65	BP65	BP65	BP65	BP71A
Sample Depth		0.10	0.50	2.00	0.10	0.50	2.00	1.00
Tide		L	L	L	H	H	H	
Date Sampled		8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008
Analyte	Unit							
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.04</b>
Methylene chloride	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Methanes</b>		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.04</b>
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.026</b>
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.035</b>
1.1-Dichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.001</b>	<b>0.003</b>
1.2-Dichloroethane	mg/l	< 0.001	< 0.001	<b>0.006</b>	< 0.001	< 0.001	<b>0.008</b>	<b>0.177</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Ethanes</b>		< 0.010	< 0.010	<b>0.006</b>	< 0.010	< 0.010	<b>0.009</b>	<b>0.241</b>
Tetrachloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.041</b>
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.004</b>
cis-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	<b>0.003</b>	< 0.001	< 0.001	<b>0.004</b>	<b>0.024</b>
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.003</b>
Vinyl chloride	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.02</b>
Vinyl chloride (SIM)	mg/l	< 0.001			< 0.001			<b>0.017</b>
<b>Total Chlorinated Ethenes</b>		< 0.010	< 0.010	<b>0.003</b>	< 0.010	< 0.010	<b>0.004</b>	<b>0.109</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<b>Total Volatile CHCs</b>		< 0.010	< 0.010	<b>0.009</b>	< 0.010	< 0.010	<b>0.013</b>	<b>0.39</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.4**  
**Surface Water Volatile CHCs**  
**December 2008**

Location		SW005	SW028	SW028	SW029	SW029	SW030	SW031	SW031	SW046
Tide			L	H	L	H		L	H	
Date Sampled		8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008
Analyte	Unit									
Carbon Tetrachloride	mg/l	<b>0.004</b>	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.002</b>	<b>0.004</b>	<b>0.001</b>	< 0.001
Chloroform	mg/l	<b>0.006</b>	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.004</b>	<b>0.003</b>	<b>0.002</b>	< 0.001
Methylene chloride	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Methanes</b>		<b>0.01</b>	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.006</b>	<b>0.007</b>	<b>0.003</b>	< 0.010
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	mg/l	<b>0.026</b>	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.002</b>	<b>0.002</b>	<b>0.002</b>	<b>0.012</b>
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Ethanes</b>		<b>0.026</b>	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.002</b>	<b>0.002</b>	<b>0.002</b>	<b>0.012</b>
Tetrachloroethene	mg/l	<b>0.001</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	mg/l	<b>0.005</b>	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.004</b>	<b>0.003</b>	<b>0.002</b>	<b>0.001</b>
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	mg/l	<b>0.016</b>	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.024</b>	<b>0.011</b>	<b>0.012</b>	<b>0.001</b>
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.002</b>	< 0.001	< 0.001	< 0.001
Vinyl chloride	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.03</b>	< 0.010	<b>0.01</b>	< 0.010
Vinyl chloride (SIM)	mg/l	<b>0.005</b>	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.022</b>	< 0.001	<b>0.01</b>	< 0.001
<b>Total Chlorinated Ethenes</b>		<b>0.027</b>	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.082</b>	<b>0.014</b>	<b>0.034</b>	<b>0.002</b>
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<b>Total Volatile CHCs</b>		<b>0.063</b>	< 0.010	< 0.010	< 0.010	< 0.010	<b>0.09</b>	<b>0.023</b>	<b>0.039</b>	<b>0.014</b>
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.

**Table 5.4**  
**Surface Water Volatile CHCs**  
**December 2008**

Location		SW048	SW048	SW049	SW052	SW053	SW060	SW066
Tide		L	H					
Date Sampled		8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008
Analyte	Unit							
Carbon Tetrachloride	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	mg/l	< 0.001	< 0.001	<b>0.006</b>	< 0.001	< 0.001	< 0.001	< 0.001
Methylene chloride	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Methanes</b>		< 0.010	< 0.010	<b>0.006</b>	< 0.010	< 0.010	< 0.010	< 0.010
Pentachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethane	mg/l	< 0.001	< 0.001	< 0.001	<b>0.001</b>	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	mg/l	< 0.001	< 0.001	<b>0.028</b>	<b>0.016</b>	<b>0.008</b>	< 0.001	< 0.001
Chloroethane	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
<b>Total Chlorinated Ethanes</b>		< 0.010	< 0.010	<b>0.028</b>	<b>0.017</b>	<b>0.008</b>	< 0.010	< 0.010
Tetrachloroethene	mg/l	< 0.001	< 0.001	<b>0.001</b>	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	mg/l	< 0.001	< 0.001	<b>0.017</b>	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	<b>0.108</b>	<b>0.003</b>	<b>0.001</b>	< 0.001	< 0.001
trans-1.2-Dichloroethene	mg/l	< 0.001	< 0.001	<b>0.001</b>	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	mg/l	< 0.010	< 0.010	<b>0.04</b>	<b>0.01</b>	< 0.010	< 0.010	< 0.010
Vinyl chloride (SIM)	mg/l	< 0.001	< 0.001		<b>0.008</b>	<b>0.002</b>	< 0.001	< 0.001
<b>Total Chlorinated Ethenes</b>		< 0.010	< 0.010	<b>0.167</b>	<b>0.021</b>	<b>0.003</b>	< 0.010	< 0.010
Hexachlorobutadiene	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
<b>Total Volatile CHCs</b>		< 0.010	< 0.010	<b>0.201</b>	<b>0.038</b>	<b>0.011</b>	< 0.010	< 0.010
Carbon disulfide	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Note: Analysis of hexachlorobutadiene conducted as part of the volatile organics scan.