Appendix B: Analytical Results - Soil and Groundwater Results Compared Against Stage 3 Site Specific Target Levels (SSTLs), High Density Residential (with basement)

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO_TP01	PRIO_TP02	PRIO_TP02	PRIO_TP03	PRIO_TP03	PRIO_TP04	PRIO_TP04	PRIO_TP05	PRIO_TP05	PRIO_TP06	PRIO_TP06	PRIO_TP07	PRIO_TP07
Depth (m)	3.4	0.5	1.5	1.5	2.5	0.3	2.4	1.6	3.1	0.5	3.6	0.5	3.1
Date	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Made Ground	Made Ground	Natural	Natural	Made Ground	Natural	Natural	Natural	Made Ground	Natural	Made Ground	Natural
Above or Below Water Table	Below	Above	Below	Below	Below	Above	Below	Below	Below	Above	Below	Above	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)													

Chemical	Method Detection Limit	Units	SSTLs protective of Human Health Unsaturated Soil	[redacted]	Max Concentration													
TPH Aromatics by GC-FID																		
TPH (>EC8-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.3	nc	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	<0.1	4.7	<0.1	<0.1	<0.1	2.7	<0.1	0.27	<0.1	0.37	<0.1	0.94	<0.1
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	<0.1	17	<0.1	<0.1	<0.1	9.2	<0.1	0.56	<0.1	0.42	<0.1	2.7	0.18
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	<0.1	71	<0.1	<0.1	<0.1	70	<0.1	3.7	<0.1	3.9	<0.1	30	4.1
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	<0.1	92	<0.1	<0.1	<0.1	82	<0.1	4.5	<0.1	4.7	<0.1	34	4.3
TPH Aliphatics by GC-FID																		
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	<0.1	15	1.1	4.7	<0.1	3.9	6.4	<0.1	4.1	1.1	<0.1	<0.1	<0.1
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	<0.1	24	1.8	<0.1	<0.1	4.7	<0.1	<0.1	1.5	1.4	<0.1	<0.1	<0.1
TPH (EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	<0.1	41	0.93	<0.1	<0.1	16	<0.1	<0.1	0.63	2	<0.1	2.8	1.3
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	<0.1	80	3.8	4.7	<0.1	25	6.4	<0.1	6.1	4.5	<0.1	2.8	1.3
TPH-PRO (C4-C12)	0.01	mg/kg	nc	nc	26.164	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	<0.1	179	3.8	4.7	<0.1	110	6.4	4.5	6.1	9.2	<0.1	37	5.6
TPH Hazard Index	0	-	1	nc	0.271	0.002	0.052	0.004	0.014	0.002	0.017	0.018	0.002	0.012	0.005	0.002	0.003	0.002
TOC	0.2	%	nc	nc	8.6	0.2	7	0.3	0.7	0.7	2.6	0.3	0.7	0.3	1.1	0.3	3.4	0.6
pH	1	pH Units	nc	nc	11.73	8.41	8.34	8.52	8.4	8.4	8.33	8.41	8.44	8.46	8.36	8.23	8.32	7.78
BTEXs by GC-FID																		
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEXs by GC-MS																		
Benzene	0.009	mg/kg	0.144	IR	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-Xylene	0.014	mg/kg	16.5	nc	0.008	-	-	-	-	-	-	-	-	-	-	-	-	-
O-Xylene	0.01	mg/kg	19.9	nc	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Stockpile

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1 Total Xylene calculated as a total of M,P-Xylene and O-Xyle
sat = unacceptable risk to receptor cannot be achieved due to calcu

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO-TK10	PRIO-TK11	PRIO-TK12	PRIO-TK13	PRIO-TK14	PRIO-TK15	PRIO-TK16	PRIO-TK17	PRIO-TK18	PRIO-TK19	PRIO-TK20	PRIO_TK21	PRIO_TP01
Depth (m)	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	0.5	0.5
Date	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	19-Feb-08	24-Jan-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made ground	Made ground	Made ground	Made ground	Made ground	Natural	Natural	Natural	Natural	Natural	Natural	Made Ground	Made Ground
Above or Below Water Table	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below	Above	Above
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)													

Chemical	Method Detection Limit	Units	SSTLs protective of Human Health Unsaturated Soil	SSTLs protective of Controlled Waters	Max Concentration												
TPH Aromatics by GC-FID																	
TPH (>EC6-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.9	nc	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	<0.1	<0.1	<0.1	0.18	0.33	<0.1	<0.1	<0.1	<0.1	<0.1	2.1	1.6
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	<0.1	<0.1	<0.1	1.2	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	6.3	5.4
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	5.2	<0.1	<0.1	40	13	<0.1	<0.1	<0.1	<0.1	<0.1	31	55
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	5.2	<0.1	<0.1	41	14	<0.1	<0.1	<0.1	<0.1	<0.1	39	62
TPH Aliphatics by GC-FID																	
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	<0.1	7.3	3.3	2.3	3.5	6	5.1	7.6	5.9	<0.1	4.5	5	1.3
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	<0.1	9.6	4.3	4.1	7.4	5.3	4.9	6.8	3.9	<0.1	3.7	38	3.6
TPH (EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	3.7	6.1	6.5	18	16	7.6	7.5	8.4	<0.1	<0.1	<0.1	27	24
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	3.7	20	14	25	27	19	18	23	9.8	<0.1	8.2	70	29
TPH-PRO (C4-C12)	0.01	mg/kg	nc	nc	26.164	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	8.9	20	14	66	41	19	18	23	9.8	<0.1	8.2	110	91
TPH Hazard Index	0	-	1	nc	0.271	0.002	0.021	0.010	0.008	0.012	0.017	0.015	0.022	0.017	0.002	0.013	0.020	0.009
TOC	0.2	%	nc	nc	8.6	0.7	0.3	0.3	2.3	0.9	0.4	0.4	0.5	0.3	0.4	0.4	1.1	3.9
pH	1	pH Units	nc	nc	11.73	7.76	8.28	9.17	7.74	8.31	8.42	8.39	10.7	8.4	8.46	8.38	7.93	8.09
BTEXs by GC-FID																	
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEXs by GC-MS																	
Benzene	0.009	mg/kg	0.144	IR	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-Xylene	0.014	mg/kg	16.5	nc	0.006	-	-	-	-	-	-	-	-	-	-	-	-	-
O-Xylene	0.01	mg/kg	19.9	nc	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Sample

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1: Total Xylene calculated as a total of M,P-Xylene and O-Xyle
sat = unacceptable risk to receptor cannot be achieved due to calcu

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO_BH07	PRIO_BH08	PRIO_BH09	PRIO-TK01	PRIO-TK02	PRIO-TK03	PRIO-TK04	PRIO-TK05	PRIO-TK06	PRIO-TK07	PRIO-TK08	PRIO-TK09
Depth (m)	2.5	0.5	0.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Date	20-May-06	16-May-06	16-May-06	12-Feb-08	12-Feb-08	12-Feb-08	12-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Made ground	Made ground	Natural	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground
Above or Below Water Table	Below	Above	Above	Below	Below	Below	Below	Below	Below	Below	Below	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTL's protective of: Human Health Unsaturated Soil	SSTL's protective of: Controlled Waters	Max Concentration											
TPH Aromatics by GC-FID																
TPH (>EC6-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.3	nc	0.58	<0.01	<0.01	<0.01	0.58	0.063	0.021	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01	2.5	0.18	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.53	<0.01	<0.01	<0.01	0.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	0.101	1.041	0.311	3.7	0.18	1.2	<0.1	<0.1	<0.1	<0.1	<0.1
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	<0.1	0.364	0.149	10	0.29	5.9	0.33	<0.1	<0.1	<0.1	<0.1
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	<0.1	20.057	1.855	16	1	49	11	<0.1	<0.1	<0.1	<0.1
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	0.101	21.462	2.315	33	1.8	56	11	<0.1	<0.1	<0.1	<0.1
TPH Aliphatics by GC-FID																
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	<0.01	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01	0.52	0.036	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	<0.1	0.3	<0.1	10	1.4	0.23	3.5	4.5	5.4	7.4	9
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	<0.1	0.285	0.175	41	8	1.1	6.4	4.4	5.4	6.6	7.4
TPH (EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	<0.1	4.117	0.28	24	5.4	4.6	5.6	6.6	7.6	8.3	8.1
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	<0.1	4.702	0.455	78	15	6	15	15	18	22	25
TPH-PRO (C4-C12)	0.01	mg/kg	nc	nc	26.164	0.101	26.164	2.77	5.7	0.28	0.021	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	<0.01	<0.01	<0.01	110	17	62	27	15	18	22	25
TPH Hazard Index	0		1	nc	0.271	0.002	0.004	0.002	0.172	0.014	0.005	0.011	0.013	0.016	0.021	0.025
TOC	0.2	%	nc	nc	8.6	-	1.63	1.64	0.3	0.2	0.9		0.3	0.3	0.4	0.4
pH	1	pH Units	nc	nc	11.73		6.64	6.4	10.93	9.55	8.6		8.39	8.5	8.42	8.45
BTEXs by GC-FID																
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	0.23	0.019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	0.58	0.063	0.021	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	1.1	0.064	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	0.43	0.027	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.02	<0.02	<0.02	1.53	0.111	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEXs by GC-MS																
Benzene	0.009	mg/kg	0.144	IR	0.001		0.001	<0.001	-	-	-	-		-	-	-
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003		0.002	0.002	-							
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001	-	<0.001	<0.001	-	-	-	-		-	-	-
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014	-	0.007	0.007	-	-						
M,P-Xylene	0.014	mg/kg	16.5	nc	0.008		0.006	0.005	-							
O-Xylene	0.01	mg/kg	18.9	nc	0.002	-	0.001	0.001	-	-	-	-	-	-	-	-
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	0.007	0.006	-	-	-	-		-	-	-

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Stockpile

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1: Total Xylene calculated as a total of M,P-Xylene and O-Xyle
sat = unacceptable risk to receptor cannot be achieved due to calcu

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO_IF01	PRIO_IF03	PRIO_IF04	PRIO_BF01	PRIO-BF03	PRIO_SP01	PRIO_BH01	PRIO_BH02	PRIO_BH03	PRIO_BH04	PRIO_BH05	PRIO_BH06	PRIO_BH07
Depth (m)				-	-		2.0	0.5	3.5	1.8	3.5	1.6	0.5
Date	21-Jan-08	15-Feb-08	18-Feb-08	21-Jan-08	07-Feb-08	25-Jan-08	22-Mar-06	20-Mar-06	21-Mar-06	21-Mar-06	21-Mar-06	22-Mar-06	16-Mar-06
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media		-		-		-	Natural	Made ground	Natural	Natural	Natural	Made ground	Made ground
Above or Below Water Table	-	-	-	-	-		Above	Below	Below	Below	Below	Below	Above
Sample Fate	In situ	In situ	In situ	Ex situ	Ex situ	Ex situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement, vapour pathways only)													

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration												
TPH Aromatics by GC-FID																	
TPH (>EC6-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.3	nc	0.58	<0.01	<0.01	<0.01		0.057	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01		0.044	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.58	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	<0.1	<0.1	<0.1		<0.1	25	0.726	0.313	0.634	0.641	0.337	0.353	0.233
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	<0.1	<0.1	<0.1		4.3	68	1.29	0.357	0.153	0.112	0.371	0.265	0.366
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	<0.1	<0.1	<0.1		11	210	0.157	0.661	0.631	0.521	0.904	0.222	2.919
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	<0.1	<0.1	<0.1	-	16	300	2.173	1.331	1.418	1.274	1.612	0.84	3.518
TPH Aliphatics by GC-FID																	
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	0.017	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	<0.1	<0.1	<0.1		4.4	2.2	0.102	0.153	0.195	0.104	0.353	0.156	0.107
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	<0.1	<0.1	<0.1	-	35	3.2	<0.1	0.242	0.138	0.148	0.142	0.214	0.178
TPH (EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	<0.1	<0.1	<0.1		18	40	<0.1	1.836	<0.1	1.248	0.264	0.44	1.688
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	<0.1	<0.1	<0.1		58	46	0.102	2.231	0.333	1.5	0.759	0.81	1.973
TPH-PRO (C4-C12)	0.01	mg/kg	nc	nc	26.164	<0.01	<0.01	0.017	-	0.1	<0.01	2.275	3.562	1.751	2.774	2.371	1.65	5.491
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	<0.1	<0.1	<0.1		74	350	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Hazard Index	0	-	1	nc	0.271	0.002	0.002	0.002	-	0.017	0.05	0.003	0.002	0.003	0.002	0.003	0.002	0.002
TOC	0.2	%	nc	nc	8.6	0.4	0.4	0.4	6.4	0.4		0.27	0.63	0.47	1.89	0.44	0.37	
pH	1	pH Units	nc	nc	11.73	-	8.47	8.57	8.67	10.67		8.72	8.33	8.66	7.84	8.92	8.78	
BTEXs by GC-FID																	
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	<0.01	0.057	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	<0.01	0.044	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.01	<0.01	<0.01	<0.01	0.044	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
BTEXs by GC-MS																	
Benzene	0.009	mg/kg	0.144	IR	0.001			-	-					-	-	-	-	0.001
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003			-	-					-				0.003
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001	-	-	-	-					-			-	<0.001
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014			-	-			-	-	-			-	0.014
M,P-Xylene	0.014	mg/kg	16.5	nc	0.008			-	-					-				0.008
O-Xylene	0.01	mg/kg	19.9	nc	0.002			-	-									0.002
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	-	-						-				0.01

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Stockpile

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1: Total Xylene calculated as a total of M,P-Xylene and O-Xylene
sat = unacceptable risk to receptor cannot be achieved due to calculated saturation of vapour pathway

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO_TP14	PRIO_TP14	PRIO_TP15	PRIO_TP15	PRIO_TP16	PRIO_TP16	PRIO_TP17	PRIO_TP17	PRIO_TP18	PRIO_TP18	PRIO_TP19	PRIO_TP19	PRIO_TP20
Depth (m)	0.5	3.5	0.4	4.0	0.5	3.3	2.6	3.4	1.5	3.4	0.5	3.0	0.5
Date	28-Jan-08	28-Jan-08	28-Jan-08	28-Jan-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	18-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Natural	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground
Above or Below Water Table	Above	Below	Above	Below	Above	Below	Below	Below	Below	Below	Above	Below	Above
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)													

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration												
TPH Aromatics by GC-FID																	
TPH (>EC6-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.3	nc	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	0.88	<0.1	<0.1	<0.1	<0.1	<0.1	0.27	<0.1	0.81	1	9.2	<0.1	<0.1
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	8.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	0.17	<0.1	17	0.14	<0.1
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	63	3.4	<0.1	<0.1	0.96	<0.1	2	2.1	<0.1	<0.1	77	0.91	4
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	72	3.4	<0.1	<0.1	0.96	<0.1	2.4	2.1	0.98	1	100	1.1	4
TPH Aliphatics by GC-FID																	
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	0.75	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.7	2.3	3.9	1.8	0.71
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	2.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.4	2.9	5.4	3.5	2.9
TPH (>EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	6.2	1.8	<0.1	<0.1	<0.1	<0.1	1.6	1.8	0.92	0.26	12	2.6	1.7
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	9.8	1.8	<0.1	<0.1	<0.1	<0.1	1.6	1.8	11	5.5	21	7.9	4.7
TPH-PRO (C4-C12)	0.01	mg/kg	nc	ng	26.164	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	81	5.2	<0.1	<0.1	0.96	<0.1	4	3.8	12	6.5	120	8.9	8.7
TPH Hazard Index	0	-	1	nc	0.271	0.006	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.015	0.009	0.028	0.006	0.003
TOC	0.2	%	nc	nc	8.6	1.8	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.4	8.6	0.5	2.2
pH	1	pH Units	nc	nc	11.73	8.23	8.24	8.57	8.34	11.01	8.63	8.6	8.31	8.42	8.45	8.39	8.32	7.72
BTEXs by GC-FID																	
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEXs by GC-MS																	
Benzene	0.009	mg/kg	0.144	IR	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-Xylene	0.014	mg/kg	16.5	nc	0.008	-	-	-	-	-	-	-	-	-	-	-	-	-
O-Xylene	0.01	mg/kg	19.9	nc	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Sample

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1: Total Xylene calculated as a total of M,P-Xylene and O-Xyle
sat = unacceptable risk to receptor cannot be achieved due to calcu

xx indicates results in excess of adopted Human Health guideline
xx indicates results in excess of adopted Controlled Waters guideline

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO_TP08	PRIO_TP08	PRIO_TP09	PRIO_TP09	PRIO_TP10	PRIO_TP10	PRIO_TP11	PRIO_TP11	PRIO_TP12	PRIO_TP12	PRIO_TP13	PRIO_TP13
Depth (m)	1.5	2.7	1.9	3.5	0.4	2.8	0.5	2.5	0.5	2.0	0.7	2.5
Date	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Made Ground	Made Ground	Natural
Above or Below Water Table	Below	Below	Below	Below	Above	Below	Above	Below	Above	Below	Above	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
TPH Aromatics by GC-FID																
TPH (>EC6-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.3	nc	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	0.21	0.38	0.14	<0.1	3.4	4.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	1.7	0.61	0.67	<0.1	12	12	0.34	<0.1	0.66	<0.1	0.12
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	28	31	28	5.2	81	71	8	7	120	2.5	4.5
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	30	32	29	5.2	97	87	8.4	7	120	2.5	4.6
TPH Aliphatics by GC-FID																
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	0.87	0.67	<0.1	<0.1	2	2.1	<0.1	<0.1	0.82	<0.1	<0.1
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	1.9	2.2	<0.1	<0.1	3.6	2	<0.1	<0.1	1.6	<0.1	<0.1
TPH (EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	6.2	3.5	4.3	2.6	6.1	15	1.1	2.2	75	1.5	1.2
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	9	6.4	4.3	2.6	12	19	1.1	2.2	77	1.5	1.2
TPH PRO (C4-C12)	0.01	mg/kg	nc	nc	26.164	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	39	39	33	7.8	110	110	9.4	9.2	180	4	5.9
TPH Hazard Index	0	-	1	nc	0.271	0.004	0.004	0.002	0.002	0.014	0.015	0.002	0.002	0.005	0.002	0.002
TOC	0.2	%	nc	nc	8.6	6.5	1.1	1.8	0.6	2.3	2.3	0.8	1	2.2	0.8	0.7
pH	1	pH Units	nc	nc	11.73	7.92	7.96	7.59	8.08	7.94	7.45	8.32	7.87	8.18	8.07	8.69
BTEXs by GC-FID																
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEXs by GC-MS																
Benzene	0.009	mg/kg	0.144	IR	0.001	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001	-	-	-	-	-	-	-	-	-	-	-
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014	-	-	-	-	-	-	-	-	-	-	-
M,P-Xylene	0.014	mg/kg	16.5	nc	0.008	-	-	-	-	-	-	-	-	-	-	-
O-Xylene	0.01	mg/kg	19.9	nc	0.002	-	-	-	-	-	-	-	-	-	-	-
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	-	-	-	-	-	-	-	-	-	-

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Stockpile

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1: Total Xylene calculated as a total of M,P-Xylene and O-Xyle
sat = unacceptable risk to receptor cannot be achieved due to calcu

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO_TP27	PRIO_TP27	PRIO_TP28	PRIO_TP28	PRIO_TP29	PRIO_TP29	PRIO_TP30	PRIO_TP30	PRIO_TP31	PRIO_TP31	PRIO_TP32
Depth (m)	0.5	2.5	0.5	2.5	1.5	3.0	0.5	1.5	0.5	3.8	0.5
Date	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made Ground	Made Ground	Made Ground	Natural	Made Ground	Made Ground	Made Ground	Natural	Made Ground	Natural	Made Ground
Above or Below Water Table	Above	Below	Above	Below	Below	Below	Above	Below	Above	Below	Above
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)											

Chemical	Method Detection Limit	Units	SSTL's protective of: Human Health Unsaturated Soil	SSTL's protective of: Controlled Waters	Max Concentration											
TPH Aromatics by GC-FID																
TPH (>EC6-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.3	nc	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	<0.1	<0.1	<0.1	<0.1	<0.1	0.38	9.7	<0.1	0.3	0.55	0.46
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	4.7	2.1	2.8	2.2	<0.1	3.6	77	4.4	4.9	4	4.6
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	4.7	2.1	2.8	2.2	<0.1	4	90	4.4	5.2	4.6	5.1
TPH Aliphatics by GC-FID																
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	<0.1	<0.1	<0.1	<0.1	<0.1	2.3	<0.1	<0.1	2.2	<0.1	
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	<0.1	0.75	<0.1	<0.1	<0.1	<0.1	4.7	<0.1	<0.1	3.3	0.92
TPH (EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	8.8	5	14	<0.1	<0.1	3.5	25	2.7	1	5.1	3.2
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	8.8	5.7	14	<0.1	<0.1	3.5	32	2.7	1	11	4.1
TPH-PRO (C4-C12)	0.01	mg/kg	nc	nc	26.164	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	13	7.9	17	2.2	<0.1	7.4	120	7.1	6.2	15	9.2
TPH Hazard Index	0	-	1	nc	0.271	0.002	0.002	0.002	0.002	0.002	0.002	0.013	0.002	0.002	0.007	0.002
TOC	0.2	%	nc	nc	8.6	0.4	0.4	0.4	0.3	0.3	0.7	1.6	0.7	0.4	0.4	0.5
pH	1	pH Units	nc	nc	11.73	11.54	8.65	11.73	8.55	8.29	8.51	7.86	8.11	8.57	8.06	8.25
BTEXs by GC-FID																
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEXs by GC-MS																
Benzene	0.009	mg/kg	0.144	IR	0.001	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001	-	-	-	-	-	-	-	-	-	-	-
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014	-	-	-	-	-	-	-	-	-	-	-
M,P-Xylene	0.014	mg/kg	16.5	nc	0.008	-	-	-	-	-	-	-	-	-	-	-
O-Xylene	0.01	mg/kg	19.9	nc	0.002	-	-	-	-	-	-	-	-	-	-	-
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	-	-	-	-	-	-	-	-	-	-

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Stockpile

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1 Total Xylene calculated as a total of M,P-Xylene and O Xyle
sat = unacceptable risk to receptor cannot be achieved due to calcu

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO_TP20	PRIO_TP21	PRIO_TP21	PRIO_TP22	PRIO_TP22	PRIO_TP23	PRIO_TP23	PRIO_TP24	PRIO_TP24	PRIO_TP25	PRIO_TP25	PRIO_TP26	PRIO_TP26
Depth (m)	3.5	1.5	2.5	0.5	3.1	1.5	3.5	1.5	2.5	0.5	1.5	0.5	3.0
Date	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Natural	Natural	Made Ground	Natural	Natural	Natural	Natural	Natural	Made Ground	Made Ground	Made Ground	Natural
Above or Below Water Table	Below	Below	Below	Above	Below	Below	Below	Below	Below	Above	Below	Above	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)													

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration													
TPH Aromatics by GC-FID																		
TPH (>EC6-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.3	nc	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	36	<0.1	<0.1	0.78	8.3	9.1	<0.1
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	240	<0.1	<0.1	0.44	140	68	<0.1
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	<0.1	4	<0.1	2.6	<0.1	<0.1	190	6.1	<0.1	3.2	66	200	<0.1
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	<0.1	4.3	<0.1	2.6	<0.1	<0.1	470	6.1	<0.1	4.4	220	280	<0.1
TPH Aliphatics by GC-FID																		
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	<0.1	<0.1	<0.1	0.54	0.76	0.88	67	<0.1	<0.1	5.1	25	14	<0.1
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	<0.1	<0.1	<0.1	1.1	1.3	1.2	250	<0.1	<0.1	8.2	68	47	<0.1
TPH (EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	<0.1	1.6	<0.1	1.6	1.1	1.5	240	1.1	<0.1	110	38	57	<0.1
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	<0.1	1.6	<0.1	3.2	3.1	3.5	560	1.1	<0.1	120	130	120	<0.1
TPH-PRO (C4-C12)	0.01	mg/kg	nc	nc	26.164	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	<0.1	5.9	<0.1	5.8	3.1	3.5	1000	7.2	<0.1	130	350	400	<0.1
TPH Hazard Index	0	-	1	nc	0.271	0.002	0.002	0.002	0.003	0.003	0.004	0.271	0.002	0.002	0.017	0.105	0.064	0.002
TOC	0.2	%	nc	nc	8.6	0.3	0.5	0.3	0.4	0.5	0.4	0.4	0.5	0.3	1	0.4	2.1	0.3
pH	1	pH Units	nc	nc	11.73	8.42	8.15	8.43	8.48	8.64	8.33	8.54	8.38	8.43	8.82	8.57	9	8.37
BTEXs by GC-FID																		
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEXs by GC-MS																		
Benzene	0.009	mg/kg	0.144	IR	0.001	-	-	-	-						-	-	-	
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003									-	-	-	-	-
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001										-	-		
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014	-	-	-	-	-	-	-	-	-	-	-	-	
M,P-Xylene	0.014	mg/kg	16.5	nc	0.008			-							-	-	-	-
O-Xylene	0.01	mg/kg	19.9	nc	0.002			-							-	-		
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	-	-							-	-		

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Stockpile

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1: Total Xylene calculated as a total of M,P-Xylene and O-Xyle
sat = unacceptable risk to receptor cannot be achieved due to calcu

XX indicates results in excess of adopted Human Health guideline
XX indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_IF01	PR10_IF03	PRIO_IF04	PRIO_BF01	PRIO-BF03	PRIO_SP01	PRIO_BH01	PRIO_BH02	PRIO_BH03	PRIO_BH04	PRIO_BH05	PRIO_BH06
Depth (m)	-	-	-	-	-	-	2.0	0.5	3.5	1.8	3.5	1.6
Date	21-Jan-08	15-Feb-08	18-Feb-08	21-Jan-08	07-Feb-08	25-Jan-08	22-Mar-06	20-Mar-06	21-Mar-06	21-Mar-06	21-Mar-06	22-Mar-06
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	-	-	-	-	-	-	Natural	Made ground	Natural	Natural	Natural	Made ground
Above or Below Water Table	-	-	-	-	-	-	Above	Below	Below	Below	Below	Below
Sample Fate	In situ	In situ	In situ	Ex situ	Ex situ	Ex situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
Acenaphthene	0.014	mg/kg	7,340	IR	6.6	0.067	<0.014	0.036	0.04	<0.014	6.6	0.086	0.099	0.108	0.056	0.089	0.057
Acenaphthylene	0.005	mg/kg	617	IR	0.36	<0.005	<0.005	<0.005	<0.005	<0.005	0.36	0.028	0.022	0.048	0.01	0.046	0.019
Anthracene	0.009	mg/kg	sat	IR	4.5	<0.009	<0.009	0.05	0.012	0.019	4.5	0.009	0.103	0.011	<0.009	<0.009	<0.009
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	<0.012	0.014	0.13	0.037	0.067	0.64	<0.012	0.336	<0.012	<0.012	0.018	<0.012
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	<0.012	<0.012	0.058	0.028	0.055	6.4	<0.012	0.292	<0.012	<0.012	<0.012	<0.012
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	<0.016	<0.016	0.14	0.052	0.072	11	<0.016	0.251	<0.016	<0.016	<0.016	<0.016
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	<0.01	<0.01	0.024	0.032	0.032	3.7	<0.01	0.16	<0.01	<0.01	<0.01	<0.01
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	<0.025	<0.025	0.036	0.033	0.055	3	<0.025	0.258	<0.025	<0.025	<0.025	<0.025
Chrysene	0.01	mg/kg	sat	IR	7.9	<0.01	<0.01	0.17	0.072	0.068	7.9	<0.01	0.469	<0.01	<0.01	0.018	<0.01
Coronene	2	mg/kg	sat	nc	<2	-	-	-	<2	<2	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	<0.008	<0.008	0.009	0.01	0.011	0.64	<0.008	0.055	<0.008	<0.008	<0.008	<0.008
Fluoranthene	0.025	mg/kg	sat	IR	18	<0.025	<0.025	0.29	0.089	0.12	18	<0.025	0.772	<0.025	<0.025	<0.025	<0.025
Fluorene	0.012	mg/kg	sat	IR	4.4	0.024	<0.012	0.046	0.024	<0.012	4.4	0.062	0.066	0.075	0.037	0.045	0.047
Indeno(1,2,3-cd)pyrene	0.011	mg/kg	sat	nc	3	<0.011	<0.011	0.02	0.022	0.028	3	<0.011	0.141	<0.011	<0.011	<0.011	<0.011
Naphthalene	0.01	mg/kg	11.1	IR	12	0.38	0.044	0.061	0.089	0.019	12	0.651	1.053	1.674	0.316	1.358	0.33
Phenanthrene	0.021	mg/kg	sat	IR	28	0.021	<0.021	0.25	0.081	0.06	28	0.044	0.288	0.049	0.034	0.042	0.044
Pyrene	0.022	mg/kg	sat	IR	16	<0.022	<0.022	0.25	0.074	0.098	16	<0.022	0.647	<0.022	<0.022	<0.022	<0.022
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	0.5	0.058	1.6	0.7	0.7	130	0.88	5.012	1.965	0.453	1.616	0.497

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to calculated saturation of vapour pathway

XX indicates results in excess of adopted Human Health guideline
XX indicates results in excess of adopted Controlled Waters guideline

Table 1
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil TPH

Field Identification	PRIO_TP32	PRIO_TP33	PRIO_TP33	PRIO_TP34	PRIO_TP34	PRIO_DUP01	PRIO_TP35	PRIO_TP35	PRIO_TP36	PRIO_TP36	PRIO_TP37	PRIO_TP37
Depth (m)	2.5	2.0	3.0	1.5	2.5	0.5	0.5	3.7	2.0	3.7	0.5	4.0
Date	19-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Duplicate of	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Made Ground	Natural	Natural	Natural	Made Ground	Natural
Above or Below Water Table	Below	Below	Below	Below	Below	Above	Above	Below	Below	Below	Above	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
TPH Aromatics by GC-FID																
TPH (>EC5-7) aromatic	0.01	mg/kg	52.6	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC7-8) aromatic	0.01	mg/kg	59.3	nc	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aromatic	0.01	mg/kg	23.5	nc	2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aromatic	0.01	mg/kg	130	nc	0.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aromatic	0.1	mg/kg	724	nc	36	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1
TPH (>EC16-21) aromatic	0.1	mg/kg	sat	nc	240	<0.1	<0.1	<0.1	<0.1	<0.1	0.31	<0.1	<0.1	2.1	<0.1	<0.1
TPH (>EC21-35) aromatic	0.1	mg/kg	sat	nc	210	2.6	<0.1	<0.1	30	<0.1	15	37	<0.1	53	<0.1	36
Total Aromatics (C6-C35)	0.1	mg/kg	nc	nc	470	2.6	<0.1	<0.1	30	<0.1	16	37	<0.1	55	<0.1	36
TPH Aliphatics by GC-FID																
TPH (>EC5-6) aliphatic	0.01	mg/kg	sat	nc	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC6-8) aliphatic	0.01	mg/kg	sat	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC8-10) aliphatic	0.01	mg/kg	45.3	nc	0.52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC10-12) aliphatic	0.01	mg/kg	84.4	nc	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (>EC12-16) aliphatic	0.1	mg/kg	sat	nc	67	3.5	<0.1	<0.1	0.3	<0.1	2.5	1	0.31	<0.1	0.22	<0.1
TPH (>EC16-21) aliphatic	0.1	mg/kg	sat	nc	250	4.4	<0.1	0.67	0.97	<0.1	6.2	2.7	0.81	<0.1	0.89	1.9	<0.1
TPH (EC21-35) aliphatic	0.1	mg/kg	sat	nc	240	7.6	<0.1	0.28	26	<0.1	30	27	0.55	<0.1	0.61	33	<0.1
Total Aliphatics (C5-C35)	0.1	mg/kg	nc	nc	560	15	<0.1	0.95	28	<0.1	38	31	1.7	<0.1	1.5	35	<0.1
TPH PRO (C4-C12)	0.01	mg/kg	nc	nc	26.164	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C5-C35)	0.1	mg/kg	nc	IR	1000	19	<0.1	0.95	57	<0.1	54	68	1.7	55	1.5	71	<0.1
TPH Hazard Index	0	-	1	nc	0.271	0.011	0.003	0.002	0.003	0.002	0.009	0.005	0.002	0.002	0.002	0.003	0.002
TOC	0.2	%	nc	nc	8.6	0.4	0.6	0.5	1.1	0.3	1.8	1.2	0.4	0.5	0.4	0.3	0.4
pH	1	pH Units	nc	nc	11.73	7.94	9.29	8.46	8.5	8.41	8.2	8.34	8.54	11.42	8.74	8.61	8.66
BTEXs by GC-FID																
Benzene	0.01	mg/kg	0.144	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.01	mg/kg	35.9	IR	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl tert butyle ether (MTBE)	0.01	mg/kg	136	IR	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.01	mg/kg	11.2	IR	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
M,P-Xylene	0.01	mg/kg	16.5	nc	1.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O-Xylene	0.01	mg/kg	19.9	nc	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Xylene	0.01	mg/kg	16.5	IR	1.53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEXs by GC-MS																
Benzene	0.009	mg/kg	0.144	IR	0.001	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	0.004	mg/kg	35.9	IR	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyle ether (MTBE)	0.011	mg/kg	136	IR	<0.001	-	-	-	-	-	-	-	-	-	-	-	-
Toluene (Methyl benzene)	0.005	mg/kg	11.2	IR	0.014	-	-	-	-	-	-	-	-	-	-	-	-
M,P-Xylene	0.014	mg/kg	16.5	nc	0.008	-	-	-	-	-	-	-	-	-	-	-	-
O-Xylene	0.01	mg/kg	19.9	nc	0.002	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylene	0.014	mg/kg	16.5	IR	0.01	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
IR = Insignificant Risk
SP = Stockpile

SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1: Total Xylene calculated as a total of M,P-Xylene and O-Xyle
sat = unacceptable risk to receptor cannot be achieved due to calcu

XX indicates results in excess of adopted Human Health guideline
XX indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO-TK09	PRIO-TK10	PRIO-TK11	PRIO-TK12	PRIO-TK13	PRIO-TK14	PRIO-TK15	PRIO-TK16	PRIO-TK17	PRIO-TK18	PRIO-TK19	PRIO-TK20
Depth (m)	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
Date	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Natural	Natural	Natural	Natural	Natural	Natural
Above or Below Water Table	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters*	Max Concentration											
Acenaphthene	0.014	mg/kg	7,360	IR	6.6	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Acenaphthylene	0.005	mg/kg	617	IR	0.36	0.014	0.015	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	0.009	mg/kg	sat	IR	4.5	0.015	<0.009	<0.009	<0.009	0.02	0.021	<0.009	<0.009	<0.009	<0.009	<0.009
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	0.048	0.018	0.02	0.025	0.096	0.1	0.013	0.02	0.023	0.016	0.013	0.016
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	0.03	<0.012	<0.012	<0.012	0.076	0.064	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	0.042	<0.016	<0.016	<0.016	0.077	0.11	<0.016	<0.016	0.028	<0.016	<0.016	0.023
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	0.023	<0.01	<0.01	<0.01	0.058	0.058	<0.01	<0.01	0.013	<0.01	<0.01	<0.01
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	0.03	<0.025	<0.025	<0.025	0.067	0.082	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chrysene	0.01	mg/kg	sat	IR	7.9	0.057	<0.01	0.012	0.015	0.1	0.11	0.022	0.026	0.042	0.019	0.023	0.034
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-	<2	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	0.008	<0.008	<0.008	<0.008	0.016	0.018	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Fluoranthene	0.025	mg/kg	sat	IR	18	0.093	<0.025	<0.025	<0.025	0.13	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Fluorene	0.012	mg/kg	sat	IR	4.4	0.034	0.042	0.014	<0.012	0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012
Indeno[1,2,3-cd]pyrene	0.011	mg/kg	sat	nc	3	0.016	<0.011	<0.011	<0.011	0.041	0.038	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Naphthalene	0.01	mg/kg	11.1	IR	12	0.097	0.15	0.026	0.016	0.028	0.033	0.024	0.025	0.022	0.015	0.017	0.021
Phenanthrene	0.021	mg/kg	sat	IR	28	0.12	0.026	0.028	0.024	0.083	0.092	0.032	0.035	0.063	0.023	0.028	0.037
Pyrene	0.022	mg/kg	sat	IR	16	0.053	<0.022	<0.022	<0.022	0.12	0.15	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	0.65	0.25	0.1	0.08	0.93	1	0.091	0.11	0.19	0.073	0.081	0.13

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to c.

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_BH07	PRIO_BH07	PRIO_BH08	PRIO_BH09	PRIO-TK01	PRIO-TK02	PRIO-TK03	PRIO-TK04	PRIO-TK05	PRIO-TK06	PRIO-TK07	PRIO-TK08
Depth (m)	0.5	2.5	0.5	0.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Date	16-May-06	20-May-06	16-May-06	16-May-06	12-Feb-08	12-Feb-08	12-Feb-08	12-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made ground	Natural	Made ground	Made ground	Natural	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground
Above or Below Water Table	Above	Below	Above	Above	Below	Below	Below	Below	Below	Below	Below	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
Acenaphthene	0.014	mg/kg	7,380	IR	6.6	<0.014	0.02	0.029	<0.014	<0.014	<0.014	0.021	0.024	<0.014	<0.014	<0.014	<0.014
Acenaphthylene	0.005	mg/kg	617	IR	0.36	0.017	<0.005	0.042	0.013	0.005	<0.005	0.017	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	0.009	mg/kg	sat	IR	4.5	0.028	0.018	0.068	0.015	<0.009	<0.009	0.096	0.049	<0.009	<0.009	<0.009	<0.009
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	0.075	0.046	0.428	0.032	0.025	0.015	0.56	0.11	0.016	0.021	0.017	0.017
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	0.055	0.027	0.478	0.032	<0.012	<0.012	0.75	0.074	<0.012	<0.012	<0.012	<0.012
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	0.052	0.027	0.378	0.027	0.02	<0.016	0.93	0.1	<0.016	<0.016	<0.016	<0.016
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	0.08	0.02	0.365	0.042	<0.01	<0.01	0.48	0.04	<0.01	<0.01	<0.01	<0.01
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	0.048	0.027	0.146	<0.025	<0.025	<0.025	0.36	0.058	<0.025	<0.025	<0.025	<0.025
Chrysene	0.01	mg/kg	sat	IR	7.9	0.083	0.046	0.492	0.033	0.026	<0.01	0.57	0.11	0.015	0.013	0.033	0.024
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-	-	-	-	-	-	-	<2	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	0.026	0.01	0.142	0.011	<0.008	<0.008	0.12	0.008	<0.008	<0.008	<0.008	<0.008
Fluoranthene	0.025	mg/kg	sat	IR	18	0.069	0.071	0.698	0.051	0.025	<0.025	1	0.21	<0.025	<0.025	<0.025	<0.025
Fluorene	0.012	mg/kg	sat	IR	4.4	0.036	0.02	0.047	0.03	0.015	<0.012	0.016	0.029	<0.012	<0.012	<0.012	0.016
Indeno(1,2,3-cd)pyrene	0.011	mg/kg	sat	nc	3	0.061	<.011	0.306	0.03	<0.011	<0.011	0.43	0.04	<0.011	<0.011	<0.011	<0.011
Naphthalene	0.01	mg/kg	11.1	IR	1.2	0.375	0.052	0.657	0.186	0.066	0.019	0.034	0.02	0.032	0.024	0.042	0.036
Phenanthrene	0.021	mg/kg	sat	IR	28	0.204	0.08	0.249	0.08	0.059	<0.021	0.25	0.2	0.039	0.023	0.048	0.038
Pyrene	0.022	mg/kg	sat	IR	16	0.064	0.062	0.669	0.046	0.029	<0.022	0.92	0.15	<0.022	<0.022	<0.022	<0.022
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	1.273	0.526	5.194	0.628	0.27	0.034	6.5	1.2	0.1	0.081	0.14	0.13

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to c

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_TP06	PRIO_TP07	PRIO_TP07	PRIO_TP08	PRIO_TP08	PRIO_TP09	PRIO_TP09	PRIO_TP10	PRIO_TP10	PRIO_TP11	PRIO_TP11	PRIO_TP12
Depth (m)	3.6	0.5	3.1	1.5	2.7	1.9	3.5	0.4	2.8	0.5	2.5	0.5
Date	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25 Jan-08	25-Jan-08	25-Jan-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground
Above or Below Water Table	Below	Above	Below	Below	Below	Below	Below	Above	Below	Above	Below	Above
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
Acenaphthene	0.014	mg/kg	7,380	IR	6.6	<0.014	0.019	<0.014	0.029	0.017	<0.014	<0.014	0.45	0.71	<0.014	0.024	0.03
Acenaphthylene	0.005	mg/kg	617	IR	0.36	<0.005	0.04	<0.005	0.071	0.032	0.016	<0.005	0.083	0.017	0.013	<0.005	0.034
Anthracene	0.009	mg/kg	sat	IR	4.5	<0.009	0.096	0.012	0.14	0.053	0.028	<0.009	0.84	0.77	0.045	<0.009	0.08
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	0.025	0.49	0.053	0.66	0.25	0.12	0.026	2.6	1.5	0.19	0.026	0.23
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	<0.012	0.63	0.031	0.62	0.29	0.12	<0.012	2.5	1.3	0.18	<0.012	0.27
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	<0.016	0.67	0.037	0.79	0.36	0.15	<0.016	2.4	1.4	0.23	<0.016	0.25
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	<0.01	0.38	0.019	0.33	0.13	0.061	<0.01	1.4	0.75	0.11	<0.01	0.16
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	<0.025	0.36	<0.025	0.31	0.16	0.09	<0.025	1.1	0.58	0.11	<0.025	0.16
Chrysene	0.01	mg/kg	sat	IR	7.9	0.021	0.59	0.042	0.7	0.31	0.14	0.016	2.3	1.4	0.2	0.012	0.27
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	<0.008	0.1	<0.008	0.091	0.036	0.011	<0.008	0.66	0.3	0.019	<0.008	0.035
Fluoranthene	0.025	mg/kg	sat	IR	18	<0.025	0.87	0.067	1.2	0.37	0.23	<0.025	5	3.5	0.3	<0.025	0.37
Fluorene	0.012	mg/kg	sat	IR	4.4	<0.012	0.024	<0.012	0.037	0.017	<0.012	<0.012	0.35	0.38	0.012	<0.012	0.032
Indeno[1,2,3-cd]pyrene	0.011	mg/kg	sat	nc	3	<0.011	0.29	0.016	0.32	0.11	0.056	<0.011	1.3	0.63	0.095	<0.011	0.13
Naphthalene	0.01	mg/kg	11.1	IR	12	0.011	0.041	0.014	0.1	0.13	0.026	0.011	0.24	0.25	0.038	<0.01	0.12
Phenanthrene	0.021	mg/kg	sat	IR	20	<0.021	0.32	0.062	0.5	0.15	0.098	0.021	3	3.5	0.17	0.024	0.27
Pyrene	0.022	mg/kg	sat	IR	16	<0.022	0.73	0.054	0.95	0.43	0.19	<0.022	4	2.9	0.25	<0.022	0.32
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	0.057	5.7	0.41	6.8	2.8	1.3	0.074	28	20	2	0.086	2.8

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to c

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_TK2¹	PRIO_TP01	PRIO_TP01	PRIO_TP02	PRIO_TP02	PRIO_TP03	PRIO_TP03	PRIO_TP04	PRIO_TP04	PRIO_TP05	PRIO_TP05	PRIO_TP06
Depth (m)	0.5	0.5	3.4	0.5	1.5	1.5	2.5	0.3	2.4	1.6	3.1	0.5
Date	19-Feb-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	25-Jan-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made Ground	Made Ground	Natural	Made Ground	Made Ground	Natural	Natural	Made Ground	Natural	Natural	Natural	Made Ground
Above or Below Water Table	Above	Above	Below	Above	Below	Below	Below	Above	Below	Below	Below	Above
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
Acenaphthene	0.014	mg/kg	7,380	IR	6.6	<0.014	0.049	<0.014	0.016	<0.014	<0.014	<0.014	0.081	<0.014	<0.014	<0.014	<0.014
Acenaphthylene	0.005	mg/kg	617	IR	0.36	<0.005	0.073	<0.005	0.02	<0.005	0.008	<0.005	0.046	<0.005	<0.005	<0.005	<0.005
Anthracene	0.009	mg/kg	sat	IR	4.5	<0.009	0.19	<0.009	<0.067	<0.009	<0.018	0.013	0.25	<0.009	0.009	<0.009	0.019
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	0.048	1.2	0.022	0.37	0.02	0.11	0.075	1.3	0.027	0.05	0.024	0.093
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	0.022	1.3	<0.012	0.31	<0.012	0.084	0.068	1.2	0.019	0.033	<0.012	0.069
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	0.034	1	<0.016	0.38	<0.016	0.12	0.071	1.5	0.025	0.048	<0.016	0.074
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	0.015	1	0.01	0.41	<0.01	0.053	0.038	0.82	0.017	0.03	0.01	0.054
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	<0.025	0.92	<0.025	0.23	<0.025	0.068	0.052	0.95	<0.025	0.028	<0.025	0.052
Chrysene	0.01	mg/kg	sat	IR	7.9	0.033	1.3	<0.01	0.45	0.011	0.094	0.068	1.2	0.037	0.056	<0.01	0.098
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	<0.008	0.28	<0.008	0.076	<0.008	0.019	0.012	0.22	0.009	0.012	<0.008	0.011
Fluoranthene	0.025	mg/kg	sat	IR	18	0.033	2	<0.025	0.53	<0.025	0.15	0.071	2.3	<0.025	0.06	<0.025	0.11
Fluorene	0.012	mg/kg	sat	IR	4.4	<0.012	0.052	<0.012	0.049	<0.012	<0.012	<0.012	0.062	<0.012	<0.012	<0.012	<0.012
Indeno[1,2,3-cd]pyrene	0.011	mg/kg	sat	nc	3	<0.011	0.83	<0.011	0.19	<0.011	0.045	0.035	0.71	0.012	0.021	<0.011	0.034
Naphthalene	0.01	mg/kg	11.1	IR	1	0.019	0.089	0.012	0.057	0.013	0.012	0.011	0.041	0.016	0.047	0.013	0.055
Phenanthrene	0.021	mg/kg	sat	IR	28	0.047	0.68	<0.021	0.73	<0.021	0.068	0.048	0.96	0.035	0.074	<0.021	0.15
Pyrene	0.022	mg/kg	sat	IR	16	0.033	1.7	<0.022	0.44	<0.022	0.13	0.061	1.9	<0.022	0.053	<0.022	0.093
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	0.28	13	0.044	4.3	0.044	0.98	0.62	14	0.2	0.52	0.047	0.91

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to c

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_TP18	PRIO_TP19	PRIO_TP19	PRIO_TP20	PRIO_TP20	PRIO_TP21	PRIO_TP21	PRIO_TP22	PRIO_TP22	PRIO_TP23	PRIO_TP23	PRIO_TP24
Depth (m)	3.4	0.5	3.0	0.5	3.5	1.5	2.5	0.5	3.1	1.5	3.5	1.5
Date	15-Feb-08	15-Feb-08	15-Feb-08	16-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Made Ground	Natural	Made Ground	Natural	Natural	Natural	Made Ground	Natural	Natural	Natural	Natural
Above or Below Water Table	Below	Above	Below	Above	Below	Below	Below	Above	Below	Below	Below	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
Acenaphthene	0.014	mg/kg	7,380	IR	6.6	<0.014	0.26	<0.014	<0.014	<0.014	0.048	<0.014	<0.014	<0.014	<0.014	0.067	<0.014
Acenaphthylene	0.005	mg/kg	617	IR	0.36	<0.005	0.028	<0.005	0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	0.077	<0.005
Anthracene	0.009	mg/kg	sat	IR	4.5	0.02	0.69	0.027	0.011	<0.009	0.035	<0.009	<0.009	<0.009	<0.009	0.099	<0.009
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	0.062	1.4	0.071	0.063	0.032	0.069	0.029	0.031	0.021	0.022	0.058	0.021
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	5.4	0.036	0.95	0.053	0.041	<0.012	0.058	<0.012	<0.012	<0.012	<0.012	0.016	<0.012
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	0.054	1	0.071	0.053	0.018	0.091	<0.016	0.017	0.018	0.017	0.032	<0.016
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	0.041	0.49	0.034	0.041	<0.01	0.032	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	0.038	0.66	0.042	0.028	<0.025	0.033	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chrysene	0.01	mg/kg	sat	IR	7.9	0.059	1.4	0.088	0.06	0.019	0.083	0.016	0.015	0.021	0.02	0.046	<0.01
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	0.008	0.21	0.012	0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Fluoranthene	0.025	mg/kg	sat	IR	18	0.067	2.8	0.13	0.069	<0.025	0.15	<0.025	<0.025	<0.025	<0.025	0.063	<0.025
Fluorene	0.012	mg/kg	sat	IR	4.4	0.023	0.31	0.013	0.086	<0.012	0.037	<0.012	0.015	<0.012	0.036	2	<0.012
Indeno[1,2,3-cd]pyrene	0.011	mg/kg	sat	nc	3	0.018	0.42	0.026	0.027	<0.011	0.026	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Naphthalene	0.01	mg/kg	11.1	IR	12	0.19	0.93	0.039	0.044	0.021	0.088	0.015	0.013	0.022	0.021	3.1	0.012
Phenanthrene	0.021	mg/kg	sat	IR	28	0.13	2.6	0.15	0.077	0.035	0.23	<0.021	0.024	0.033	<0.021	0.39	<0.021
Pyrene	0.022	mg/kg	sat	IR	16	0.068	2.1	0.11	0.061	<0.022	0.13	<0.022	<0.022	<0.022	<0.022	0.1	<0.022
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	0.82	16	0.86	0.67	0.13	1.1	0.06	0.12	0.12	0.12	6.1	0.033

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to c

XX indicates results in excess of adopted Human Health guideline
XX indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_TP12	PRIO_TP13	PRIO_TP13	PRIO_TP14	PRIO_TP14	PRIO_TP15	PRIO_TP15	PRIO_TP16	PRIO_TP16	PRIO_TP17	PRIO_TP17	PRIO_TP18
Depth (m)	2.0	0.7	2.5	0.5	3.5	0.4	4.0	0.5	3.3	2.6	3.4	1.5
Date	25-Jan-08	25-Jan-08	25-Jan-08	28-Jan-08	28-Jan-08	28-Jan-08	28-Jan-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made Ground	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Natural	Natural	Made Ground
Above or Below Water Table	Below	Above	Below	Above	Below	Above	Below	Above	Below	Below	Below	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
Acenaphthene	0.014	mg/kg	7,380	IR	6.6	<0.014	<0.014	0.024	0.085	0.024	0.023	0.018	<0.014	<0.014	<0.014	<0.014	<0.014
Acenaphthylene	0.005	mg/kg	617	IR	0.36	<0.005	<0.005	<0.005	0.04	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	0.009	mg/kg	sat	IR	4.5	<0.009	0.013	<0.009	0.21	<0.009	<0.009	0.03	0.029	<0.009	0.022	<0.009	0.01
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	0.030	0.047	0.017	1.1	0.017	0.023	0.12	0.11	<0.012	0.064	0.024	0.037
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	0.017	0.034	<0.012	1.2	<0.012	<0.012	0.1	0.088	<0.012	0.041	<0.012	0.022
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	0.022	0.026	<0.016	1.1	<0.016	<0.016	0.13	0.096	<0.016	0.05	0.018	0.026
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	0.013	0.025	<0.01	0.63	<0.01	<0.01	0.067	0.04	<0.01	0.024	<0.01	0.014
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	<0.025	0.025	<0.025	0.86	<0.025	<0.025	0.047	0.061	<0.025	0.036	<0.025	<0.025
Chrysene	0.01	mg/kg	sat	IR	7.9	0.028	0.046	0.012	1.2	<0.01	0.016	0.13	0.11	<0.01	0.06	0.024	0.029
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	<0.008	<0.008	<0.008	0.14	<0.008	<0.008	0.033	0.012	<0.008	0.008	<0.008	<0.008
Fluoranthene	0.025	mg/kg	sat	IR	18	0.026	0.058	<0.025	2.1	<0.025	<0.025	0.21	0.2	<0.025	0.096	<0.025	0.043
Fluorene	0.012	mg/kg	sat	IR	4.4	<0.012	<0.012	<0.012	0.062	<0.012	<0.012	0.017	<0.012	<0.012	<0.012	<0.012	0.029
Indeno[1,2,3-cd]pyrene	0.011	mg/kg	sat	nc	3	<0.011	0.016	<0.011	0.62	<0.011	<0.011	0.052	0.036	<0.011	0.018	<0.011	<0.011
Naphthalene	0.01	mg/kg	11.1	IR	7	0.03	0.016	<0.01	0.059	<0.01	<0.01	0.017	0.016	0.036	0.052	0.037	0.026
Phenanthrene	0.021	mg/kg	sat	IR	28	0.066	0.075	<0.021	0.91	<0.021	0.022	0.15	0.1	0.035	0.099	0.041	0.073
Pyrene	0.022	mg/kg	sat	IR	16	0.023	0.053	<0.022	1.7	<0.022	<0.022	0.18	0.16	<0.022	0.074	<0.022	0.038
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	0.26	0.43	0.053	12	0.041	0.084	1.3	1.1	0.071	0.64	0.14	0.35

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to c

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_TP30	PRIO_TP31	PRIO_TP31	PRIO_TP32	PRIO_TP32	PRIO_TP33	PRIO_TP33	PRIO_TP34	PRIO_TP34	PRIO_DUP01	PRIO_TP35	PRIO_TP35
Depth (m)	1.5	0.5	3.8	0.5	2.5	2.0	3.0	1.5	2.5	0.5	0.5	3.7
Date	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	PRIO_35	Primary	Primary
Sample Media	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Made Ground	Natural
Above or Below Water Table	Below	Above	Below	Above	Below	Below	Below	Below	Below	Above	Above	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration											
Acenaphthene	0.014	mg/kg	7,360	IR	6.6	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Acenaphthylene	0.005	mg/kg	617	IR	0.36	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005
Anthracene	0.009	mg/kg	sat	IR	4.5	0.021	<0.009	<0.009	<0.009	0.033	<0.009	<0.009	0.015	<0.009	<0.009	0.02	<0.009
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	0.079	0.038	0.026	0.028	0.024	0.021	0.029	0.092	0.028	0.15	0.098	0.016
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	0.059	0.023	0.014	0.013	0.013	<0.012	0.013	0.079	0.015	0.14	0.085	<0.012
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	0.071	0.019	0.023	0.018	0.039	<0.016	0.034	0.11	0.019	0.2	0.12	<0.016
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	0.03	<0.01	0.013	<0.01	0.012	<0.01	0.011	0.063	0.012	0.093	0.062	<0.01
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	0.048	<0.025	<0.025	<0.025	0.041	<0.025	<0.025	0.04	<0.025	<0.025	0.044	<0.025
Chrysene	0.01	mg/kg	sat	IR	7.9	0.079	0.028	0.034	0.017	0.029	0.015	0.048	0.1	0.017	0.18	0.11	0.026
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.014	<0.008	<0.008	0.013	<0.008
Fluoranthene	0.025	mg/kg	sat	IR	18	0.11	<0.025	<0.025	<0.025	<0.025	<0.025	0.042	0.13	0.029	0.29	0.16	<0.025
Fluorene	0.012	mg/kg	sat	IR	4.4	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	0.013	<0.012	<0.012	<0.012	<0.012	<0.012
Indeno[1,2,3-cd]pyrene	0.011	mg/kg	sat	nc	3	0.024	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.037	<0.011	0.058	0.038	<0.011
Naphthalene	0.01	mg/kg	11.1	IR	13	0.03	0.026	0.062	0.032	0.061	0.026	0.078	0.081	0.033	0.18	0.09	0.059
Phenanthrene	0.021	mg/kg	sat	IR	28	0.098	0.025	0.034	0.032	0.033	0.022	0.066	0.1	0.025	0.27	0.14	0.025
Pyrene	0.022	mg/kg	sat	IR	16	0.086	<0.022	<0.022	<0.022	<0.022	<0.022	0.041	0.11	0.022	0.23	0.15	<0.022
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	0.73	0.16	0.21	0.14	0.29	0.084	0.39	0.98	0.2	1.8	1.1	0.13

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to c

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_TP24	PRIO_TP25	PRIO_TP25	PRIO_TP26	PRIO_TP26	PRIO_TP27	PRIO_TP27	PRIO_TP28	PRIO_TP28	PRIO_TP29	PRIO_TP29	PRIO_TP30
Depth (m)	2.5	0.5	1.5	0.5	3.0	0.5	2.5	0.5	2.5	1.5	3.0	0.5
Date	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Made Ground	Made Ground	Made Ground	Natural	Made Ground	Made Ground	Made Ground	Natural	Made Ground	Made Ground	Made Ground
Above or Below Water Table	Below	Above	Below	Above	Below	Above	Below	Above	Below	Below	Below	Above
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)												

Chemical	Method Detection Limit	Units	SSTL protective of: Human Health Unsaturated Soil	SSTL protective of: Controlled Waters	Max Concentration											
Acenaphthene	0.014	mg/kg	7,160	IR	6.6	<0.014	<0.014	0.022	0.72	<0.014	<0.014	<0.014	0.018	<0.014	0.025	0.023	0.17
Acenaphthylene	0.005	mg/kg	617	IR	0.36	<0.005	<0.005	0.029	0.069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.037
Anthracene	0.009	mg/kg	sat	IR	4.5	<0.009	<0.009	0.04	1.6	0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	0.32
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	0.022	0.061	0.035	4.1	0.044	0.041	0.034	0.025	0.015	0.015	0.04	1.5
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	<0.012	0.027	<0.012	3.6	0.027	0.03	0.021	<0.012	<0.012	<0.012	0.015	1.4
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	<0.016	0.047	0.02	5.1	0.048	0.029	0.021	<0.016	<0.016	<0.016	<0.016	1.3
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	<0.01	0.023	<0.01	1.9	0.014	0.018	0.011	<0.01	<0.01	<0.01	0.014	0.81
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	<0.025	<0.025	<0.025	1.2	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.75
Chrysene	0.01	mg/kg	sat	IR	7.9	<0.01	0.074	0.022	4.5	0.045	0.036	0.025	0.026	<0.01	<0.01	0.029	1.5
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	<0.008	<0.008	<0.008	0.83	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.2
Fluoranthene	0.025	mg/kg	sat	IR	18	<0.025	0.052	0.033	9.4	0.065	0.031	<0.025	<0.025	<0.025	<0.025	<0.025	2.9
Fluorene	0.012	mg/kg	sat	IR	4.4	<0.012	0.018	1.6	0.87	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	0.12
Indeno(1,2,3-cd)pyrene	0.011	mg/kg	sat	nc	3	<0.011	<0.011	<0.011	1.8	0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.74
Naphthalene	0.01	mg/kg	11.1	IR	12	0.015	0.27	0.59	0.49	0.023	0.013	0.017	0.026	0.02	0.013	<0.01	0.051
Phenanthrene	0.021	mg/kg	sat	IR	9	<0.021	0.26	0.28	6.4	0.06	0.032	<0.021	0.054	<0.021	<0.021	<0.021	1.3
Pyrene	0.022	mg/kg	sat	IR	16	<0.022	0.035	0.035	7.3	0.058	0.029	<0.022	<0.022	<0.022	<0.022	<0.022	2.4
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	0.037	0.67	2.7	50	0.4	0.26	0.13	0.15	0.035	0.053	0.12	16

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to c

XX indicates results in excess of adopted Human Health guideline
XX indicates results in excess of adopted Controlled Waters guideline

Table 3
AGB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil Heavy Metals

Field Identification	PRIO_IF01	PR10_IF03	PRIO_IF04	PRIO_BF01	PRIO-BF03	PRIO_SP01	PRIO_BH01	PRIO_BH02	PRIO_BH03	PRIO_BH04	PRIO_BH05	PRIO_BH06	PRIO_BH07	PRIO_BH07	PRIO_BH08
Depth (m)	-	-	-	-	-	-	2.0	0.5	3.5	1.8	3.5	1.5	0.5	2.5	0.5
Date	21-Jan-08	15-Feb-08	18-Feb-08	21-Jan-08	07-Feb-08	25-Jan-08	22-Mar-06	20-Mar-06	21-Mar-06	21-Mar-06	21-Mar-06	22-Mar-06	16-May-06	20-May-06	16-May-06
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	-	-	-	-	-	-	Natural	Made ground	Natural	Natural	Natural	Made ground	Made ground	Natural	Made ground
Above or Below Water Table					-	-	Above	Below	Below	Below	Below	Below	Above	Below	Above
Sample Fate	In situ	In situ	In situ	Ex situ	Ex situ	Ex situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement, vapour pathways only)															

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration														
Arsenic	3	mg/kg	no path	IR	47	4	<3	<3	6	4	7	5	2	8	9	6	9	20	43	6
Beryllium	0.4	mg/kg	no path	IR	1	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<1	<1	1	<1	<1	<1	1	<1
Cadmium	0.3	mg/kg	no path	0.3	10	0.7	0.4	0.5	0.9	0.8	1	<1	<1	2	2	<1	1	1	2	1
Chromium	4.5	mg/kg	no path	IR	35	9.4	6.9	8.1	35	7.7	12	24	12	20	26	18	18	17	25	19
Copper	6	mg/kg	no path	IR	69	9	8	11	22	8	18	12	10	18	10	15	12	25	21	24
Lead	2	mg/kg	no path	IR	690	6	<2	3	32	12	53	26	110	26	27	23	24	134	30	77
Mercury (inorganic compounds)	0.6	mg/kg	no path	IR	0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<1	<1	<1	<1	<1	<1	<1.2	<1.2	<1.2
Nickel	0.9	mg/kg	no path	IR	63	12	14	11	36	11	18	25	16	34	21	29	25	63	36	27
Vanadium	1.5	mg/kg	no path	IR	51	8.5	8.7	9.6	34	12	18	17	12	25	31	21	22	29	32	28
Zinc	2.5	mg/kg	no path	79	2800	30	27	36	77	45	79	85	54	111	96	84	80	110	113	113

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR= Insignificant Risk
no path = no pathway considered viable
SSTL = Site specific target level
nc = No Stage 3 SSTL available

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 2
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil PAH

Field Identification	PRIO_TP36	PRIO_TP36	PRIO_TP37	PRIO_TP37
Depth (m)	2.0	3.7	0.5	4.0
Date	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Sample Type	Primary	Primary	Primary	Primary
Sample Media	Natural	Natural	Made Ground	Natural
Above or Below Water Table	Below	Below	Above	Below
Sample Fate	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)				

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration				
Acenaphthene	0.014	mg/kg	7,380	IR	6.6	0.2	<0.014	<0.014	<0.014
Acenaphthylene	0.005	mg/kg	617	IR	0.36	0.019	<0.005	0.016	<0.005
Anthracene	0.009	mg/kg	sat	IR	4.5	0.45	<0.009	0.064	<0.009
Benzo[a]anthracene	0.012	mg/kg	sat	IR	4.1	1	0.027	0.53	0.016
Benzo[a]pyrene	0.012	mg/kg	3,350	IR	6.4	0.75	<0.012	0.47	<0.012
Benzo[b]fluoranthene	0.016	mg/kg	sat	nc	11	1	0.02	0.65	<0.016
Benzo[g,h,i]perylene	0.01	mg/kg	sat	nc	3.7	0.41	<0.01	0.24	<0.01
Benzo[k]fluoranthene	0.025	mg/kg	sat	nc	3	0.39	<0.025	0.23	<0.025
Chrysene	0.01	mg/kg	sat	IR	7.9	0.94	0.026	0.49	0.018
Coronene	2	mg/kg	sat	nc	<2	-	-	-	-
Dibenzo[a,h]anthracene	0.008	mg/kg	sat	IR	0.83	0.15	<0.008	0.061	<0.008
Fluoranthene	0.025	mg/kg	sat	IR	18	2.2	<0.025	0.6	<0.025
Fluorene	0.012	mg/kg	sat	IR	4.4	0.19	<0.012	<0.012	<0.012
Indeno[1,2,3-cd]pyrene	0.011	mg/kg	sat	nc	3	0.35	<0.011	0.22	<0.011
Naphthalene	0.01	mg/kg	11.1	IR	17	0.021	0.04	0.029	0.041
Phenanthrene	0.021	mg/kg	sat	IR	28	1.3	0.034	0.14	<0.021
Pyrene	0.022	mg/kg	sat	IR	16	1.5	<0.022	0.54	<0.022
Total PAH (Sum of 16)	0.025	mg/kg	nc	nc	130	11	0.15	4.3	0.075

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to ci

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 3
ABD - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil Heavy Metals

Field Identification	PRIO_TK14	PRIO_TK15	PRIO_TK16	PRIO_TK17	PRIO_TK18	PRIO_TK19	PRIO_TK20	PRIO_TK21	PRIO_TP01	PRIO_TP01	PRIO_TP02	PRIO_TP02	PRIO_TP03	PRIO_TP03	PRIO_TP04
Depth (m)	2.0	4.0	4.0	4.0	4.0	4.0	4.0	0.5	0.5	3.4	0.5	1.5	1.5	2.5	0.3
Date	13-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	19-Feb-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08	24-Jan-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made ground	Natural	Natural	Natural	Natural	Natural	Natural	Made Ground	Made Ground	Natural	Made Ground	Made Ground	Natural	Natural	Made Ground
Above or Below Water Table	Below	Below	Below	Below	Below	Below	Below	Above	Above	Below	Above	Below	Below	Below	Above
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)															

Chemical	Method Detection Limit	Units	SSTL's protective of: Human Health Unsaturated Soil	SSTL's protective of: Controlled Waters	Max Concentration														
Arsenic	3	mg/kg	no path	IR	47	8	14	5	8	12	8	7	14	13	4	6	7	8	7	15
Beryllium	0.4	mg/kg	no path	IR	1	0.6	<0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	0.9	<0.4	0.5	<0.4	<0.4	0.5	0.6
Cadmium	0.3	mg/kg	no path	0.3	10	1.7	1.6	1.3	1.8	2	1.6	2.2	1.7	1.1	1.3	1.9	0.8	1.5	1.5	1.4
Chromium	4.5	mg/kg	no path	IR	35	12	14	15	16	8.9	15	15	16	19	13	15	15	16	20	18
Copper	6	mg/kg	no path	IR	69	21	38	25	22	13	20	18	15	61	13	17	25	18	18	45
Lead	2	mg/kg	no path	IR	690	60	19	14	18	10	17	24	32	160	14	19	120	20	30	120
Mercury (inorganic compounds)	0.6	mg/kg	no path	IR	0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	0.9	mg/kg	no path	IR	63	22	33	32	33	21	29	30	20	31	27	35	25	33	24	34
Vanadium	1.5	mg/kg	no path	IR	51	15	22	24	23	26	23	23	26	34	24	22	25	24	29	29
Zinc	2.5	mg/kg	no path	79	2600	98	90	89	100	70	87	93	81	140	73	76	98	86	99	170

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR= Insignificant Risk
no path = no pathway considered viable
SSTL = Site specific target level
nc = No Stage 3 SSTL available

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 3
AB8 - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil Heavy Metals

Field Identification	PRIO_BH09	PRIO_TK01	PRIO_TK02	PRIO_TK03	PRIO_TK04	PRIO_TK05	PRIO_TK06	PRIO_TK07	PRIO_TK08	PRIO_TK09	PRIO_TK10	PRIO_TK11	PRIO_TK12	PRIO_TK13
Depth (m)	0.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Date	16-May-06	12-Feb-08	12-Feb-08	12-Feb-08	12-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08	13-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made ground	Natural	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground	Made ground
Above or Below Water Table	Above	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use: High Density Residential (Basement; vapour pathways only)														

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration													
Arsenic	3	mg/kg	no path	IR	47	9	5	7	9	6	6	7	5	8	7	5	8	9	8
Beryllium	0.4	mg/kg	no path	IR	1	<1	<0.4	<0.4	0.5	<0.4	<0.4	0.4	<0.4	<0.4	0.5	0.8	0.4	0.4	0.6
Cadmium	0.3	mg/kg	no path	0.3	10	<1	1.1	0.8	1.1	1.1	1.4	1.8	1.4	1.5	1	0.8	1.7	1.7	1.4
Chromium	4.5	mg/kg	no path	IR	35	13	19	8.3	16	12	22	10	9.4	15	12	15	14	15	15
Copper	6	mg/kg	no path	IR	69	8	15	8	19	10	17	18	17	21	15	10	20	20	22
Lead	2	mg/kg	no path	IR	690	40	26	7	78	11	14	22	14	21	64	11	16	18	35
Mercury (inorganic compounds)	0.6	mg/kg	no path	IR	0.6	<1.2	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	0.9	mg/kg	no path	IR	63	16	18	11	21	15	35	29	25	33	17	16	31	34	23
Vanadium	1.5	mg/kg	no path	IR	51	17	18	12	24	20	24	14	13	23	19	20	22	22	24
Zinc	2.5	mg/kg	no path	79	2600	56	80	43	120	42	94	90	71	91	60	57	86	93	82

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR= Insignificant Risk
no path = no pathway considered viable
SSTL = Site specific target level
nc = No Stage 3 SSTL available

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 3
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil Heavy Metals

Field Identification	PRIO_TP12	PRIO_TP12	PRIO_TP13	PRIO_TP13	PRIO_TP14	PRIO_TP14	PRIO_TP15	PRIO_TP15	PRIO_TP16	PRIO_TP16	PRIO_TP17	PRIO_TP17	PRIO_TP18	PRIO_TP18	PRIO_TP19
Depth (m)	0.5	2.0	0.7	2.5	0.5	3.5	0.4	4.0	0.5	3.3	2.6	3.4	1.5	3.4	0.5
Date	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	28-Jan-08	28-Jan-08	28-Jan-08	28-Jan-08	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08	15 Feb 08	15-Feb-08	15-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made Ground	Made Ground	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Natural	Natural	Made Ground	Natural	Made Ground
Above or Below Water Table	Above	Below	Above	Below	Above	Below	Above	Below	Above	Below	Below	Below	Below	Below	Above
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement: vapour pathways only)															

Chemical	Method Detection Limit	Units	SSTLs protective of Human Health Unsaturated Soil	SSTLs protective of Controlled Waters	Max Concentration														
Arsenic	3	mg/kg	no path	IR	47	13	20	19	15	14	8	11	8	5	7	6	7	8	7	26
Beryllium	0.4	mg/kg	no path	IR	1	<0.4	0.7	0.6	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.7
Cadmium	0.3	mg/kg	no path	0.3	10	1.5	1.8	1.4	0.9	1.4	1	0.6	1.7	1.2	1.5	1.2	1.4	1.5	1.4	1.6
Chromium	4.5	mg/kg	no path	IR	35	17	23	14	16	19	10	13	16	12	16	13	14	16	15	22
Copper	6	mg/kg	no path	IR	69	23	17	22	11	26	10	11	23	12	22	20	19	18	23	62
Lead	2	mg/kg	no path	IR	690	86	31	45	17	690	14	35	24	17	17	30	17	22	21	410
Mercury (Inorganic compounds)	0.6	mg/kg	no path	IR	0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	0.9	mg/kg	no path	IR	63	26	30	40	14	28	19	14	36	17	34	27	27	28	31	32
Vanadium	1.5	mg/kg	no path	IR	51	32	33	22	18	29	18	18	23	15	23	21	21	26	22	43
Zinc	2.5	mg/kg	no path	79	2600	110	95	83	41	130	52	54	98	62	90	100	71	75	98	870

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR= Insignificant Risk
no path = no pathway considered viable
SSTL = Site specific target level
nc = No Stage 3 SSTL available

XX Indicates results in excess of adopted Human Health guideline
Indicates results in excess of adopted Controlled Waters guideline

Table 3
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil Heavy Metals

Field Identification	PRIO_TP04	PRIO_TP05	PRIO_TP05	PRIO_TP06	PRIO_TP06	PRIO_TP07	PRIO_TP07	PRIO_TP08	PRIO_TP08	PRIO_TP09	PRIO_TP09	PRIO_TP10	PRIO_TP10	PRIO_TP11	PRIO_TP11
Depth (m)	2.4	1.6	3.1	0.5	3.6	0.5	3.1	1.5	2.7	1.9	3.5	0.4	2.8	0.5	2.5
Date	24-Jan-08	24-Jan-08	24-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25 Jan-08	25-Jan-08	25-Jan-08	25-Jan-08	25 Jan-08	25-Jan-08	25 Jan 08	25 Jan 08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Natural	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural
Above or Below Water Table	Below	Below	Below	Above	Below	Above	Below	Below	Below	Below	Below	Above	Below	Above	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)															

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration														
Arsenic	3	mg/kg	no path	IR	47	6	5	3	15	9	47	7	16	11	10	12	13	10	15	17
Beryllium	0.4	mg/kg	no path	IR	1	<0.4	<0.4	<0.4	0.5	<0.4	0.6	0.6	<0.4	<0.4	<0.4	0.6	0.4	0.7	<0.4	0.6
Cadmium	0.3	mg/kg	no path	0.3	10	1.2	0.7	1.9	1.5	1.6	2.8	0.8	1.2	1.2	1.5	1.6	1.4	1.5	1.3	1.7
Chromium	4.5	mg/kg	no path	IR	35	14	12	12	19	16	29	29	19	21	18	20	19	17	17	18
Copper	6	mg/kg	no path	IR	69	12	11	12	18	17	27	10	26	29	18	16	31	27	16	14
Lead	2	mg/kg	no path	IR	690	16	29	13	130	30	160	22	160	81	48	22	150	45	57	25
Mercury (inorganic compounds)	0.6	mg/kg	no path	IR	0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	0.9	mg/kg	no path	IR	63	24	14	23	28	29	39	29	26	26	28	33	31	31	22	28
Vanadium	1.5	mg/kg	no path	IR	51	20	18	18	28	22	51	29	30	35	26	32	28	28	24	28
Zinc	2.5	mg/kg	no path	79	2600	70	54	63	90	78	200	65	98	83	66	86	140	100	89	83

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR= Insignificant Risk
no path = no pathway considered viable
SSTL = Site specific target level
nc = No Stage 3 SSTL available

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 3
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil Heavy Metals

Field Identification	PRIO_TP19	PRIO_TP20	PRIO_TP20	PRIO_TP21	PRIO_TP21	PRIO_TP22	PRIO_TP22	PRIO_TP23	PRIO_TP23	PRIO_TP24	PRIO_TP24	PRIO_TP25	PRIO_TP25	PRIO_TP26	PRIO_TP26
Depth (m)	3.0	0.5	3.5	1.5	2.5	0.5	3.1	1.5	3.5	1.5	2.5	0.5	1.5	0.5	3.0
Date	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18 Feb 08	18 Feb 08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08	18-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Made Ground	Natural	Natural	Natural	Made Ground	Natural	Natural	Natural	Natural	Natural	Made Ground	Made Ground	Made Ground	Natural
Above or Below Water Table	Below	Above	Below	Below	Below	Above	Below	Below	Below	Below	Below	Above	Below	Above	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)															

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration														
Arsenic	3	mg/kg	no path	IR	47	7	10	6	9	7	8	7	7	7	7	7	7	7	11	6
Beryllium	0.4	mg/kg	no path	IR	1	<0.4	<0.4	<0.4	<0.4	0.5	0.4	0.5	<0.4	<0.4	0.7	0.4	<0.4	<0.4	<0.4	<0.4
Cadmium	0.3	mg/kg	no path	0.3	10	1.6	1	1.4	1.2	2.4	1.3	8.4	1.4	1.7	1.4	1.6	1.2	1.7	1	1.3
Chromium	4.5	mg/kg	no path	IR	35	13	14	15	17	15	17	16	15	17	19	14	16	14	17	14
Copper	6	mg/kg	no path	IR	69	21	25	22	18	20	17	23	19	62	17	21	18	28	35	18
Lead	2	mg/kg	no path	IR	690	20	210	17	23	19	25	17	35	26	16	16	21	21	110	19
Mercury (Inorganic compounds)	0.6	mg/kg	no path	IR	0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	0.9	mg/kg	no path	IR	63	26	22	34	26	33	25	35	27	36	25	32	26	28	25	29
Vanadium	1.5	mg/kg	no path	IR	51	20	23	22	25	24	25	29	22	23	24	22	28	22	25	22
Zinc	2.5	mg/kg	no path	79	2800	80	70	95	75	68	67	100	72	68	79	85	71	90	110	79

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR= Insignificant Risk
no path = no pathway considered viable
SSTL = Site specific target level
nc = No Stage 3 SSTL available

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 3
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil Heavy Metals

Field Identification	PRIO_TP27	PRIO_TP27	PRIO_TP28	PRIO_TP28	PRIO_TP29	PRIO_TP29	PRIO_TP30	PRIO_TP30	PRIO_TP31	PRIO_TP31	PRIO_TP32	PRIO_TP32	PRIO_TP33	PRIO_TP33	PRIO_TP34
Depth (m)	0.5	2.5	0.5	2.5	1.5	3.0	0.5	1.5	0.5	3.8	0.5	2.5	2.0	3.0	1.5
Date	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	19-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Made Ground	Made Ground	Made Ground	Natural	Made Ground	Made Ground	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground	Natural	Made Ground
Above or Below Water Table	Above	Below	Above	Below	Below	Below	Above	Below	Above	Below	Above	Below	Below	Below	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement; vapour pathways only)															

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration															
Arsenic	3	mg/kg	no path	IR	47	6	7	5	8	8	12	11	8	7	7	14	8	14	11	20
Beryllium	0.4	mg/kg	no path	IR	1	<0.4	<0.4	<0.4	<0.4	<0.4	0.9	<0.4	<0.4	0.4	0.6	0.6	<0.4	0.6	<0.4	<0.4
Cadmium	0.3	mg/kg	no path	0.3	10	1.2	1.3	1.4	1.7	1.6	1.9	1.1	1.2	0.9	1.6	1.4	1.8	1.4	1.8	1.1
Chromium	4.5	mg/kg	no path	IR	35	13	14	13	16	14	21	16	17	13	14	18	15	18	16	27
Copper	6	mg/kg	no path	IR	69	11	18	13	22	19	25	22	17	14	19	17	23	19	22	18
Lead	2	mg/kg	no path	IR	690	22	17	13	17	14	35	240	19	19	14	19	16	36	27	130
Mercury (inorganic compounds)	0.6	mg/kg	no path	IR	0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	0.9	mg/kg	no path	IR	63	17	27	15	39	32	35	23	28	19	30	26	35	27	35	25
Vanadium	1.5	mg/kg	no path	IR	51	18	21	25	25	22	35	23	25	19	39	28	23	21	17	15
Zinc	2.5	mg/kg	no path	79	2800	55	75	50	68	83	120	100	78	60	86	82	90	97	100	80

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR= Insignificant Risk
no path = no pathway considered viable
SSTL = Site specific target level
nc = No Stage 3 SSTL available

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 3
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Soil Heavy Metals

Field Identification	PRIO_TP34	PRIO_DUP01	PRIO_TP35	PRIO_TP35	PRIO_TP36	PRIO_TP36	PRIO_TP37	PRIO_TP37
Depth (m)	2.5	0.5	0.5	3.7	2.0	3.7	0.5	4.0
Date	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Sample Type	Primary	Duplicate of PRIO_35	Primary	Primary	Primary	Primary	Primary	Primary
Sample Media	Natural	Made Ground	Made Ground	Natural	Natural	Natural	Made Ground	Natural
Above or Below Water Table	Below	Above	Above	Below	Below	Below	Above	Below
Sample Fate	In situ	In situ	In situ	In situ	In situ	In situ	In situ	In situ
Land Use : High Density Residential (Basement, vapour pathways only)								

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health Unsaturated Soil	SSTLs protective of: Controlled Waters	Max Concentration								
Arsenic	3	mg/kg	no path	IR	47	13	13	15	12	14	12	7	13
Beryllium	0.4	mg/kg	no path	IR	1	<0.4	<0.4	0.6	<0.4	0.4	<0.4	<0.4	<0.4
Cadmium	0.3	mg/kg	no path	0.3	1.9	1.7	1.1	1.3	1.0	1.8	1.8	0.8	1.9
Chromium	4.5	mg/kg	no path	IR	35	15	20	19	16	15	16	11	15
Copper	6	mg/kg	no path	IR	68	14	20	20	17	69	18	9	18
Lead	2	mg/kg	no path	IR	690	21	160	160	18	68	17	18	16
Mercury (inorganic compounds)	0.6	mg/kg	no path	IR	0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	0.9	mg/kg	no path	IR	63	29	26	28	32	22	37	18	36
Vanadium	1.5	mg/kg	no path	IR	51	18	18	21	18	21	16	11	18
Zinc	2.5	mg/kg	no path	79	2800	98	94	94	2800	85	98	72	120

LEGEND
BH = Borehole
TP = Trial Pit
TK = Tank Pull
- = Not Analysed
SP = Stockpile

IR= Insignificant Risk
no path = no pathway considered viable
SSTL = Site specific target level
nc = No Stage 3 SSTL available

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 4
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 : Analytical Results : Water TPH

Field Identification	PRIO_MW01	PRIO_MW02	PRIO_MW03	PRIO_MW04	PRIO_MW06	PRIO_DUP	PRIO_MW05	PRIO_MW07	PRIO_MW09	PRIO_DUP01	PRIO_MW08	PRIO_TRIP
Date	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30 Mar-06	26-May-06	26-May-06	26 May 06	26-May-06	26-May-06
Sample Type	Primary	Primary	Primary	Primary	Primary	Duplicate of MW06	Primary	Primary	Primary	Duplicate of MW09	Primary	Primary
Well Status	Present	Present	Present	Present	Present	-	Present	Present	Present	-	Present	-
Land Use : High Density Residential (Basement, vapour												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health	SSTLs protective of: Controlled Waters	Max Concentration												
TPH Aromatics by GC-FID																	
TPH (>EC6-7) aromatic	10	µg/l	5,650	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (>EC7-8) aromatic	10	µg/l	4,910	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (>EC8-10) aromatic	10	µg/l	1,520	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (>EC10-12) aromatic	10	µg/l	5,720	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (>EC12-16) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC16-21) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC21-35) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total Aromatics (C6-C35)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH Aliphatics by GC-FID																	
TPH (>EC5-6) aliphatic	10	µg/l	1,710	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (>EC6-8) aliphatic	10	µg/l	1,210	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (>EC8-10) aliphatic	10	µg/l	46	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (>EC10-12) aliphatic	10	µg/l	33.7	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (>EC12-16) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC16-21) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (EC21-35) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total Aliphatics (C5-C35)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH-PRO (C4-C12)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C5-C35)	10	µg/l	nc	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH Hazard Index	0	-	1	nc	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
BTEXs by GC-FID																	
Benzene	10	µg/l	60	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	µg/l	8,470	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert butyle ether (MTBE)	10	µg/l	405,000	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	µg/l	3,910	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
M,P-Xylene	10	µg/l	3,850	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
O-Xylene	10	µg/l	4,840	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Xylene	10	µg/l	3,850	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BTEXs by GC-MS																	
Benzene	1	µg/l	60	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Ethylbenzene	1	µg/l	8,470	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Methyl tert butyle ether (MTBE)	1	µg/l	405,000	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Toluene	1	µg/l	3,910	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
M,P-Xylene	1	µg/l	3,850	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
O-Xylene	1	µg/l	4,840	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Total Xylene	2	µg/l	3,850	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1: Total Xylene calculated as a total of M,P-Xylene and O-Xylene
sat = unacceptable risk to receptor cannot be achieved due to calculated saturation of vapour pathway

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 4
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Water TPH

Field Identification	PRIO_MW01	PRIO_DUP01	PRIO_MW02	PRIO_MW03	PRIO_MW04	PRIO_MW05	PRIO_MW06	PRIO_MW07	PRIO_MW08	PRIO_MW09	PRIO_TRIP BLANK	PRIO_TRIP02
Date	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	28-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	28-Jan-08
Sample Type	Primary	Duplicate of	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Well Status	Present		Present	Present	Present	Present	Present	Present	Present	Present		Present
Land Use : High Density Residential (Basement; vapour												

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health	SSTLs protective of: Controlled Waters	Max Concentration												
TPH Aromatics by GC-FID																	
TPH (>EC6-7) aromatic	10	µg/l	5,650	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC7-8) aromatic	10	µg/l	4,910	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC8-10) aromatic	10	µg/l	1,620	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC10-12) aromatic	10	µg/l	5,720	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC12-16) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC16-21) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC21-35) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Total Aromatics (C6 C35)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH Aliphatics by GC-FID																	
TPH (>EC5-6) aliphatic	10	µg/l	1,710	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC6-8) aliphatic	10	µg/l	1,210	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC8-10) aliphatic	10	µg/l	46	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC10-12) aliphatic	10	µg/l	33.7	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC12-16) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (>EC16-21) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (EC21-35) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Total Aliphatics (C5-C35)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH PRO (C4-C12)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH (C5-C35)	10	µg/l	nc	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
TPH Hazard Index	0		1	nc	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	-	-
BTEXs by GC-FID																	
Benzene	10	µg/l	60	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Ethylbenzene	10	µg/l	8,470	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Methyl tert butyle ether (MTBE)	10	µg/l	405,000	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Toluene	10	µg/l	3,910	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
M,P-Xylene	10	µg/l	3,850	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
O-Xylene	10	µg/l	4,840	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Total Xylene	10	µg/l	3,850	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
BTEXs by GC-MS																	
Benzene	1	µg/l	60	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	µg/l	8,470	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert butyle ether (MTBE)	1	µg/l	405,000	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	µg/l	3,910	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
M,P Xylene	1	µg/l	3,850	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
O-Xylene	1	µg/l	4,840	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylene	2	µg/l	3,850	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1 Total Xylene calculated as a total of M,P-Xylene and O-Xyl
sat = unacceptable risk to receptor cannot be achieved due to calc

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 4
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Water TPH

Field Identification	PRIO_MW01	PRIO_DUP01	PRIO_MW02	PRIO_MW03	PRIO_MW04	PRIO_MW05	PRIO_MW06	PRIO_MW07	PRIO_MW08	PRIO_MW09	TRIP BLANK
Date	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08
Sample Type	Primary	Duplicate of MW01	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Trip Blank
Well Status	Present		Present	Present	Present	Present	Present	Present	Present	Present	-
Land Use : High Density Residential (Basement; vapour											

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health	SSTLs protective of: Controlled Waters	Max Concentration											
TPH Aromatics by GC-FID		µg/l														
TPH (>EC6-7) aromatic	10	µg/l	5,650	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC7-8) aromatic	10	µg/l	4,910	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC8-10) aromatic	10	µg/l	1,520	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC10-12) aromatic	10	µg/l	5,720	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC12-16) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC16-21) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC21-35) aromatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total Aromatics (C6-C35)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH Aliphatics by GC-FID																
TPH (>EC5-6) aliphatic	10	µg/l	1,710	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC6-8) aliphatic	10	µg/l	1,210	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC8-10) aliphatic	10	µg/l	46	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC10-12) aliphatic	10	µg/l	39.7	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC12-16) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (>EC16-21) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (EC21-35) aliphatic	10	µg/l	sat	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total Aliphatics (C5-C35)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH-PRO (C4-C12)	10	µg/l	nc	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH (C5 C35)	10	µg/l	nc	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
TPH Hazard Index	0	-	1	nc	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	-
BTEXs by GC-FID																
Benzene	10	µg/l	60	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Ethylbenzene	10	µg/l	8,470	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Methyl tert butyle ether (MTBE)	10	µg/l	405,000	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Toluene	10	µg/l	3,910	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
M,P Xylene	10	µg/l	3,850	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
O-Xylene	10	µg/l	4,840	nc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total Xylene	10	µg/l	3,850	IR	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
BTEXs by GC-MS																
Benzene	1	µg/l	60	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	µg/l	8,470	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert butyle ether (MTBE)	1	µg/l	405,000	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	µg/l	3,910	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
M,P-Xylene	1	µg/l	3,850	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
O-Xylene	1	µg/l	4,840	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylene	2	µg/l	3,850	IR	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

IR = Insignificant Risk
SSTL = Site specific target level
nc = No Stage 3 SSTL available
Note 1 Total Xylene calculated as a total of M,P-Xylene and O-Xyl
sat = unacceptable risk to receptor cannot be achieved due to calc

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 5
ABB - Priory Service Station, Rathfarnam, Dublin
Stage 3 - Analytical Results - Water PAH

Field Identification	PRIO_MW01	PRIO_MW02	PRIO_MW03	PRIO_MW04	PRIO_MW05	PRIO_MW06	PRIO_DUP
Date	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate of MW06
Well Status	Present	Present	Present	Present	Present	Present	-
Land Use : High Density Residential (Basement; vapour							

			SSTLs protective of:								
Chemical	Method Detection Limit	Units	Human Health	Controlled Waters	Max Concentration						
Acenaphthene	0.015	µg/l	sat	IR	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	0.011	µg/l	10,800	IR	<0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	0.015	µg/l	sat	IR	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[a]anthracene	0.017	µg/l	sat	IR	<0.017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[a]pyrene	0.009	µg/l	251	IR	<0.009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[b]fluoranthene	0.023	µg/l	sat	IR	<0.023	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[g,h,i]perylene	0.016	µg/l	sat	IR	<0.016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[k]fluoranthene	0.027	µg/l	sat	IR	<0.027	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	0.013	µg/l	sat	IR	<0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Coronene		µg/l	nc	nc	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo[a,h]anthracene	0.016	µg/l	sat	IR	<0.016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	0.017	µg/l	sat	IR	<0.017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	0.014	µg/l	sat	IR	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno[1,2,3-cd]pyrene	0.014	µg/l	sat	IR	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	0.1	µg/l	1,060	IR	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	0.022	µg/l	sat	IR	<0.022	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	0.015	µg/l	sat	IR	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH (Sum of 16)	0.1	µg/l	nc	nc	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to calculated saturation of vapour pathway
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 5
ABB - Priory Service Station, Rathfarnam, Dublin
Stage 3 - Analytical Results - Water PAH

Field Identification	PRIO_MW07	PRIO_MW08	PRIO_MW09	PRIO_DUP01	PRIO_TRIP	PRIO_MW01	PRIO_DUP01
Date	26-May-06	26-May-06	26-May-06	26-May-06	26-May-06	21-Jan-08	21-Jan-08
Sample Type	Primary	Primary	Primary	Duplicate of	Primary	Primary	Duplicate of MW01
Well Status	Present	Present	Present	-	-	Present	-
Land Use : High Density Residential /Basement; vapour							

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health	SSTLs protective of: Controlled Waters	Max Concentration						
Acenaphthene	0.015	µg/l	sat	IR	<0.015	<0.01	<0.01	<0.01	<0.01	-	<0.015	<0.015
Acenaphthylene	0.011	µg/l	10,800	IR	<0.011	<0.01	<0.01	<0.01	<0.01	-	<0.011	<0.011
Anthracene	0.015	µg/l	sat	IR	<0.015	<0.01	<0.01	<0.01	<0.01	-	<0.015	<0.015
Benzo[a]anthracene	0.017	µg/l	sat	IR	<0.017	<0.01	<0.01	<0.01	<0.01	-	<0.017	<0.017
Benzo[a]pyrene	0.009	µg/l	251	IR	<0.009	<0.01	<0.01	<0.01	<0.01	-	<0.009	<0.009
Benzo[b]fluoranthene	0.023	µg/l	sat	IR	<0.023	<0.01	<0.01	<0.01	<0.01	-	<0.023	<0.023
Benzo[g,h,i]perylene	0.016	µg/l	sat	IR	<0.016	<0.01	<0.01	<0.01	<0.01	-	<0.016	<0.016
Benzo[k]fluoranthene	0.027	µg/l	sat	IR	<0.027	<0.01	<0.01	<0.01	<0.01	-	<0.027	<0.027
Chrysene	0.013	µg/l	sat	IR	<0.013	<0.01	<0.01	<0.01	<0.01	-	<0.013	<0.013
Coronene		µg/l	nc	nc	-	<0.01	<0.01	<0.01	<0.01	-	-	-
Dibenzo[a,h]anthracene	0.016	µg/l	sat	IR	<0.016	<0.01	<0.01	<0.01	<0.01	-	<0.016	<0.016
Fluoranthene	0.017	µg/l	sat	IR	<0.017	<0.01	<0.01	<0.01	<0.01	-	<0.017	<0.017
Fluorene	0.014	µg/l	sat	IR	<0.014	<0.01	<0.01	<0.01	<0.01	-	<0.014	<0.014
Indeno[1,2,3-cd]pyrene	0.014	µg/l	sat	IR	<0.014	<0.01	<0.01	<0.01	<0.01	-	<0.014	<0.014
Naphthalene	0.1	µg/l	1,060	IR	<0.1	<0.01	<0.01	<0.01	<0.01	-	<0.1	<0.1
Phenanthrene	0.022	µg/l	sat	IR	<0.022	<0.01	<0.01	<0.01	<0.01	-	<0.022	<0.022
Pyrene	0.015	µg/l	sat	IR	<0.015	-	-	-	-	-	<0.015	<0.015
Total PAH (Sum of 16)	0.1	µg/l	nc	nc	<0.1	<0.01	<0.01	<0.01	<0.01	-	<0.1	<0.1

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to ca
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 5
ABB - Priory Service Station, Rathfarnam, Dublin
Stage 3 - Analytical Results - Water PAH

Field Identification	PRIO_MW02	PRIO_MW03	PRIO_MW04	PRIO_MW05	PRIO_MW06	PRIO_MW08	PRIO_MW09
Date	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Well Status	Present	Present	Present	Present	Present	Present	Present
Land Use : High Density Residential (Basement; vapour							

			SSTLs protective of:									
Chemical	Method Detection Limit	Units	Human Health	Controlled Waters	Max Concentration							
Acenaphthene	0.015	µg/l	sat	IR	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Acenaphthylene	0.011	µg/l	10,800	IR	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Anthracene	0.015	µg/l	sat	IR	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Benzo[a]anthracene	0.017	µg/l	sat	IR	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Benzo[a]pyrene	0.009	µg/l	251	IR	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
Benzo[b]fluoranthene	0.023	µg/l	sat	IR	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
Benzo[g,h,i]perylene	0.016	µg/l	sat	IR	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
Benzo[k]fluoranthene	0.027	µg/l	sat	IR	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027
Chrysene	0.013	µg/l	sat	IR	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Coronene		µg/l	nc	nc	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.016	µg/l	sat	IR	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
Fluoranthene	0.017	µg/l	sat	IR	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Fluorene	0.014	µg/l	sat	IR	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Indeno[1,2,3-cd]pyrene	0.014	µg/l	sat	IR	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Naphthalene	0.1	µg/l	1,060	IR	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	0.022	µg/l	sat	IR	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
Pyrene	0.015	µg/l	sat	IR	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Total PAH (Sum of 16)	0.1	µg/l	nc	nc	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to ca
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 5
ABB - Priory Service Station, Rathfarnam, Dublin
Stage 3 - Analytical Results - Water PAH

Field Identification	PRIO_MW07	PRIO_TRIP02	PRIO_MW01	PRIO_DUP01	PRIO_MW02	PRIO_MW03	PRIO_MW04
Date	28-Jan-08	28-Jan-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08
Sample Type	Primary	Primary	Primary	Duplicate of MW01	Primary	Primary	Primary
Well Status	Present	-	Present	-	Present	Present	Present
Land Use : High Density Residential (Basement; vapour							

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health	Controlled Waters	Max Concentration							
Acenaphthene	0.015	µg/l	sat	IR	<0.015	<0.015	-	<0.015	<0.015	<0.015	<0.015	<0.015
Acenaphthylene	0.011	µg/l	10,800	IR	<0.011	<0.011	-	<0.011	<0.011	<0.011	<0.011	<0.011
Anthracene	0.015	µg/l	sat	IR	<0.015	<0.015	-	<0.015	<0.015	<0.015	<0.015	<0.015
Benzo[a]anthracene	0.017	µg/l	sat	IR	<0.017	<0.017	-	<0.017	<0.017	<0.017	<0.017	<0.017
Benzo[a]pyrene	0.009	µg/l	251	IR	<0.009	<0.009	-	<0.009	<0.009	<0.009	<0.009	<0.009
Benzo[b]fluoranthene	0.023	µg/l	sat	IR	<0.023	<0.023	-	<0.023	<0.023	<0.023	<0.023	<0.023
Benzo[g,h,i]perylene	0.016	µg/l	sat	IR	<0.016	<0.016	-	<0.016	<0.016	<0.016	<0.016	<0.016
Benzo[k]fluoranthene	0.027	µg/l	sat	IR	<0.027	<0.027	-	<0.027	<0.027	<0.027	<0.027	<0.027
Chrysene	0.013	µg/l	sat	IR	<0.013	<0.013	-	<0.013	<0.013	<0.013	<0.013	<0.013
Coronene		µg/l	nc	nc	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.016	µg/l	sat	IR	<0.016	<0.016	-	<0.016	<0.016	<0.016	<0.016	<0.016
Fluoranthene	0.017	µg/l	sat	IR	<0.017	<0.017	-	<0.017	<0.017	<0.017	<0.017	<0.017
Fluorene	0.014	µg/l	sat	IR	<0.014	<0.014	-	<0.014	<0.014	<0.014	<0.014	<0.014
Indeno[1,2,3-cd]pyrene	0.014	µg/l	sat	IR	<0.014	<0.014	-	<0.014	<0.014	<0.014	<0.014	<0.014
Naphthalene	0.1	µg/l	1,060	IR	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	0.022	µg/l	sat	IR	<0.022	<0.022	-	<0.022	<0.022	<0.022	<0.022	<0.022
Pyrene	0.015	µg/l	sat	IR	<0.015	<0.015	-	<0.015	<0.015	<0.015	<0.015	<0.015
Total PAH (Sum of 16)	0.1	µg/l	nc	nc	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to ca
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 5
ABB - Priory Service Station, Rathfarnam, Dublin
Stage 3 - Analytical Results - Water PAH

Field Identification	PRIO_MW05	PRIO_MW06	PRIO_MW07	PRIO_MW08	PRIO_MW09	TRIP BLANK
Date	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Trip Blank
Well Status	Present	Present	Present	Present	Present	-
Land Use : High Density Residential (Basement; vapour						

			SSTLs protective of:								
Chemical	Method Detection Limit	Units	Human Health	Controlled Waters	Max Concentration						
Acenaphthene	0.015	µg/l	sat	IR	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	-
Acenaphthylene	0.011	µg/l	10,800	IR	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-
Anthracene	0.015	µg/l	sat	IR	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	-
Benzo[a]anthracene	0.017	µg/l	sat	IR	<0.017	<0.017	<0.017	<0.017	0.041	<0.017	-
Benzo[a]pyrene	0.009	µg/l	251	IR	<0.009	<0.009	<0.009	<0.009	0.035	<0.009	
Benzo[b]fluoranthene	0.023	µg/l	sat	IR	<0.023	<0.023	<0.023	<0.023	0.058	<0.023	
Benzo[g,h,i]perylene	0.016	µg/l	sat	IR	<0.016	<0.016	<0.016	<0.016	0.037	<0.016	
Benzo[k]fluoranthene	0.027	µg/l	sat	IR	<0.027	<0.027	<0.027	<0.027	0.037	<0.027	-
Chrysene	0.013	µg/l	sat	IR	<0.013	<0.013	<0.013	<0.013	0.045	<0.013	
Coronene		µg/l	nc	nc	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	0.016	µg/l	sat	IR	<0.016	<0.016	<0.016	<0.016	0.017	<0.016	
Fluoranthene	0.017	µg/l	sat	IR	<0.017	<0.017	<0.017	<0.017	0.018	<0.017	
Fluorene	0.014	µg/l	sat	IR	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	-
Indeno[1,2,3-cd]pyrene	0.014	µg/l	sat	IR	<0.014	<0.014	<0.014	<0.014	0.025	<0.014	
Naphthalene	0.1	µg/l	1,060	IR	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Phenanthrene	0.022	µg/l	sat	IR	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	-
Pyrene	0.015	µg/l	sat	IR	<0.015	<0.015	<0.015	<0.015	0.021	<0.015	-
Total PAH (Sum of 16)	0.1	µg/l	nc	nc	<0.1	<0.1	<0.1	<0.1	0.33	<0.1	-

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
sat = unacceptable risk to receptor cannot be achieved due to ca
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 6
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Water Heavy Metals

Field Identification	PRIO_MW01	PRIO_MW02	PRIO_MW03	PRIO_MW04	PRIO_MW05	PRIO_MW06	PRIO_DUP
Date	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06	30-Mar-06
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate of MW06
Well Status	Present	Present	Present	Present	Present	Present	-
Land Use : High Density Residential (Basement; vapour pathways only)							

Chemical	Method Detection Limit	Units	SSTLs protective of: Human Health	SSTLs protective of: Controlled Waters	Max Concentration							
Arsenic	1	µg/l	no path	IR	3	3	<1	<1	2	<1	1	<1
Beryllium	1	µg/l	no path	IR	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	0.4	µg/l	no path	IR	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	1	µg/l	no path	IR	9	<1	<1	1	<1	9	6	<1
Copper	1	µg/l	no path	IR	7	<1	<1	<1	<1	<1	<1	<1
Lead	1	µg/l	no path	IR	2	<1	<1	<1	<1	<1	<1	<1
Mercury	0.01	µg/l	no path	IR	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05
Nickel	1	µg/l	no path	IR	61	3	2	4	2	6	5	3
Vanadium	1	µg/l	no path	IR	3	<1	<1	<1	2	<1	1	<1
Zinc	3	µg/l	no path	IR	29	13	8	8	<3	5	4	<3

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
no path = no pathway considered viable
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 6
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Water Heavy Metals

Field Identification	PRIO_MW07	PRIO_MW08	PRIO_MW09	PRIO_DUP01	PRIO_TRIP	PRIO_MW01	PRIO_DUP01
Date	26-May-06	26-May-06	26-May-06	26-May-06	26-May-06	21-Jan-08	21-Jan-08
Sample Type	Primary	Primary	Primary	Duplicate of MW09	Primary	Primary	Duplicate of MW01
Well Status	Present	Present	Present	-	-	Present	-
Land Use : High Density Residential (Basement; vapour pathways only)							

			SSTLs protective of:								
Chemical	Method Detection Limit	Units	Human Health	Controlled Waters	Max Concentration						
Arsenic	1	µg/l	no path	IR	3	2	3	3	3	-	<1	<1
Beryllium	1	µg/l	no path	IR	<1	<1	<1	<1	<1	-	<1	<1
Cadmium	0.4	µg/l	no path	IR	<0.4	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4
Chromium	1	µg/l	no path	IR	9	2	<1	1	<1	-	<1	<1
Copper	1	µg/l	no path	IR	7	2	<1	<1	2	-	<1	<1
Lead	1	µg/l	no path	IR	2	<1	<1	<1	<1	-	<1	<1
Mercury	0.01	µg/l	no path	IR	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.01	<0.01
Nickel	1	µg/l	no path	IR	61	5	6	3	61	-	3	2
Vanadium	1	µg/l	no path	IR	3	2	<1	3	<1	-	1	2
Zinc	3	µg/l	no path	IR	29	29	19	12	21	-	<3	<3

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
no path = no pathway considered viable
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 6
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Water Heavy Metals

Field Identification	PRIO_MW02	PRIO_MW03	PRIO_MW04	PRIO_MW05	PRIO_MW06	PRIO_MW08	PRIO_MW09
Date	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08	21-Jan-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Well Status	Present	Present	Present	Present	Present	Present	Present
Land Use : High Density Residential (Basement; vapour pathways only)							

			SSTLs protective of:									
Chemical	**Method Detection Limit**	**Units**	**Human Health**	**Controlled Waters**	**Max Concentration**							
Arsenic	1	µg/l	no path	IR	3	<1	<1	2	<1	<1	3	<1
Beryllium	1	µg/l	no path	IR	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	0.4	µg/l	no path	IR	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	1	µg/l	no path	IR	9	2	<1	<1	<1	<1	1	<1
Copper	1	µg/l	no path	IR	7	<1	<1	<1	<1	<1	4	7
Lead	1	µg/l	no path	IR	2	<1	<1	<1	<1	<1	2	1
Mercury	0.01	µg/l	no path	IR	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	1	µg/l	no path	IR	61	2	2	2	<1	2	2	2
Vanadium	1	µg/l	no path	IR	3	1	<1	2	1	1	3	2
Zinc	3	µg/l	no path	IR	29	<3	<3	<3	<3	<3	<3	<3

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
no path = no pathway considered viable
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 6
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Water Heavy Metals

Field Identification	PRIO_MW07	PRIO_TRIP02	PRIO_MW01	PRIO_DUP01	PRIO_MW02	PRIO_MW03	PRIO_MW04
Date	28-Jan-08	28-Jan-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08
Sample Type	Primary	Primary	Primary	Duplicate of MW01	Primary	Primary	Primary
Well Status	Present	-	Present	-	Present	Present	Present
Land Use : High Density Residential (Basement; vapour pathways only)							

			SSTLs protective of:									
Chemical	**Method Detection Limit**	**Units**	**Human Health**	**Controlled Waters**	**Max Concentration**							
Arsenic	1	µg/l	no path	IR	3	2	-	1	<1	<1	<1	6
Beryllium	1	µg/l	no path	IR	<1	<1	-	<1	<1	<1	<1	<1
Cadmium	0.4	µg/l	no path	IR	<0.4	<0.4	-	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	1	µg/l	no path	IR	9	2	-	3	2	4	2	2
Copper	1	µg/l	no path	IR	7	<1	-	<1.6	<1.6	<1.6	1.9	<1.6
Lead	1	µg/l	no path	IR	2	<1	-	<0.5	0.7	0.7	1.8	<0.5
Mercury	0.01	µg/l	no path	IR	<0.05	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	1	µg/l	no path	IR	61	3	-	5.1	3.6	2.5	2.2	2.8
Vanadium	1	µg/l	no path	IR	3	2	-	<1	<1	<1	<1	2
Zinc	3	µg/l	no path	IR	29	18	-	<5	<5	<5	<5	<5

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
no path = no pathway considered viable
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline

Table 6
ABB - Priory Service Station, Rathfarnham, Dublin
Stage 3 - Analytical Results - Water Heavy Metals

Field Identification	PRIO_MW05	PRIO_MW06	PRIO_MW07	PRIO_MW08	PRIO_MW09	TRIP
Date	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08	4-Mar-08
Sample Type	Primary	Primary	Primary	Primary	Primary	Trip Blank
Well Status	Present	Present	Present	Present	Present	-
Land Use : High Density Residential (Basement; vapour pathways only)						

			SSTLs protective of:								
Chemical	**Method Detection Limit**	**Units**	**Human Health**	**Controlled Waters**	**Max Concentration**						
Arsenic	1	µg/l	no path	IR	3	1	<1	1	2	<1	-
Beryllium	1	µg/l	no path	IR	<1	<1	<1	<1	<1	<1	-
Cadmium	0.4	µg/l	no path	IR	<0.4	<0.5	<0.5	<0.5	<0.5	<0.5	-
Chromium	1	µg/l	no path	IR	9	2	2	4	3	5	-
Copper	1	µg/l	no path	IR	7	4.8	<1.6	<1.6	3.1	3.5	-
Lead	1	µg/l	no path	IR	2	2.8	<0.5	<0.5	<0.5	0.6	-
Mercury	0.01	µg/l	no path	IR	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	-
Nickel	1	µg/l	no path	IR	61	1.6	3.1	1.7	3.5	3.4	-
Vanadium	1	µg/l	no path	IR	3	<1	<1	<1	3	2	-
Zinc	3	µg/l	no path	IR	29	<5	<5	<5	<5	8	-

LEGEND
MW = Monitoring Well
Dup = Duplicate Sample
- = Not Analysed

SSTL = Site specific target level
nc = No Stage 3 SSTL available
no path = no pathway considered viable
IR = Insignificant Risk

XX Indicates results in excess of adopted Human Health guideline
XX Indicates results in excess of adopted Controlled Waters guideline