Appendix F.2

Atkins probability, consequence and risk classifications

Tables of Probability and Consequence

The descriptions of the classified risks as given in R&D 66 are as follows:

Table F.1 - Risk Estimation: Classification of Probability

Classification	Definition of the Probability of Harm/Pollution Occurring
High Likelihood	The pollutant linkage exists and it is very likely to result in harm/pollution in the short term, and/or will almost inevitably result in harm/pollution in the long term, and/or there is current evidence of harm/pollution. Likelihood is defined as more likely than not.
Likely	The source, pathway and receptor exist for the pollutant linkage and it is probable that harm/pollution will occur. Circumstances are such that harm/pollution is not inevitable, but possible in the short term and likely over the long term. Likelihood is defined as reasonably possible.
Low Likelihood	The source, pathway and receptor exist and it is possible that harm/pollution could occur. Circumstances are such that harm/pollution is by no means certain in the long term and less likely in the short term.
Unlikely	The source, pathway and receptor exist for the pollutant linkage but it is improbable that harm/pollution will occur even in the long term.

Risk estimation adapted from R&D 66 for each of the receptors identified.

Table F.2 – Risk Estimation: Classification of Consequence

Classification	Definition of Consequence
Human Health Receptors – Site End Users	
Severe	Acute damage to human health based on the effects on the critical human health receptor. Exposure to radioactivity giving rise to doses that are equal to or exceed doses specified in Part 2A of EPA 1990. Concentrations of contaminants above appropriate site specific assessment criteria.
Medium	Chronic damage to human health based on the effects on the critical human health receptor. Concentrations of contaminants above appropriate site specific assessment criteria.
Mild	No appreciable impact on human health based on the potential effects on the critical human health receptor. Concentrations of contaminants above generic assessment criteria but below appropriate site specific assessment criteria.
Minor	No appreciable impact on human health based on the effects on the critical human health receptor. Concentrations of contaminants below appropriate generic assessment criteria.
Controlled Water Receptors	
Severe	Pollution of a major aquifer within a source protection zone or potable supply characterised by a breach of drinking water standards. Pollution of a surface water course characterised by a breach of an EQS at a statutory monitoring location or resulting in a change in GQA grade of river reach. Discharge of a List I or List II substance to groundwater.
Medium	Pollution of a major aquifer outside a source protection zone or a minor aquifer characterised by a breach of drinking water standards. Pollution of an industrial groundwater abstraction or irrigation supply that impairs its function. Substantial pollution but insufficient to result in a change in the GQA grade of river reach.

Classification	Definition of Consequence
Mild	Low levels of pollution of a major aquifer outside a source protection zone or an industrial abstraction, or pollution of a minor aquifer. Low levels of pollution insufficient to result in a change in the GQA grade of river reach, pollution of a surface water course without a quality classification.
Minor	No appreciable pollution, or pollution of a low sensitivity receptor such as a non-aquifer or a surface water course without a quality classification
Property Receptors – Buildings, Foundations and Services	
Severe	Catastrophic damage to buildings, such as explosion. Catastrophic failure of foundations and services. Substantial damage to a Scheduled Ancient Monument significantly impairing the historic, architectural, traditional, artistic or archaeological interest by reason of which the monument is scheduled.
Medium	Substantial damage to buildings and foundations rendering the structures unsafe. Substantial damage to services impairing their function. Significant damage to a Scheduled Ancient Monument significantly impairing the historic, architectural, traditional, artistic or archaeological interest by reason of which the monument is scheduled.
Mild	Significant damage to buildings and foundations but not resulting in them being unsafe for occupation. Damage to services but not sufficient to impair their function. Damage to a Scheduled Ancient Monument but no significant impairment to the historic, architectural, traditional, artistic or archaeological interest by reason of which the monument is scheduled.
Minor	Easily repairable damage to buildings, foundations and services.

Table F.3 – Description of the Risk Classification

Classification	Description
Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.
High risk	Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.
Low risk	It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.
Very low risk	It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.
No potential risk	There is no potential risk if no pollution linkage has been established.

Appendix F.3

Derivation of the human health generic screening

Information supporting the Generic Quantitative Risk Assessment

Human Health

Introduction

The National Planning Policy Framework (NPPF) (Ref. 1) which was implemented at the end of March 2012 replaces Planning Policy Statement 23 (PPS23) (Ref. 2). The NPPF details that "*to prevent unacceptable risks from pollution and land instability, planning policies and decisions should ensure that new development is appropriate for its location. The effects (including cumulative effects) of pollution on health, the natural environment or general amenity, and the potential sensitivity of an area or proposed development to adverse effects from pollution, should be taken into account. Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner."*

Land affected by contamination is defined as *"All cases where the actual or suspected presence of substances in, on or under the land may cause risks to people, property, human activities or the environment, regardless of whether or not the land meets the statutory definition of Contaminated Land*".

The assessment of contamination and its effects is assessed through the identification and assessment of risk presented by potential pollutant linkages, i.e. Source – Pathway – Receptor relationships. These potential pollutant linkages form the Conceptual Site Model. Guidance provided by the Environment Agency in CLR11 (Ref. 3) and the Guiding Principles for Land Contamination (GPLC) documents (Ref.4) provides the technical framework for the development of such Conceptual Site Models and the application of risk assessment (qualitative or quantitative) to consider whether potential pollutant linkages are significant and hence require management or mitigation.

The basic approach to risk assessment reported in this chapter follows the principles given in CLR11 and GPLC, i.e. that decisions regarding a site may be informed by:

- Tier 1 preliminary risk assessment - typically a desk study review and site walkover inspection to develop the preliminary conceptual site model (PCSM), with an assessment of risk considering the likelihood and severity of the potential consequences associated with the pollutant linkage(s);
- Tier 2 generic quantitative risk assessment - a review of site investigation and monitoring data, the development of a CSM with an assessment of risk using precautionary, generic assessment criteria (GACs) relevant to the pollutant linkage(s) that represent minimal or tolerable risk; or
- Tier 3 detailed quantitative risk assessment - an assessment of risk based on the use of detailed site investigation and monitoring data to develop a CSM and using site specific assessment criteria (SSACs) relevant to the pollutant linkage(s) to identify the likelihood of unacceptable risk.

For this site a Tier 2 generic quantitative risk assessment has been carried out for the potential human health pollutant linkages, based on the screening of soil contamination data against relevant GACs.

1 Communities and Local Government. March 2012. National Planning Policy Framework.

2 Office of the Deputy Prime Minister. 2004. Planning Policy Statement 23: Planning and Pollution Control.

3 Defra and the Environment Agency. 2004. Model procedures of the management of Contaminated Land. R&D Publication CLR11, Bristol, Environment Agency.

4 Environment Agency, March 2010, Guiding Principles for Land Contamination (GPLC1, 2 and 3).

Human Health Risk Assessment - Background to Screening Criteria

The Atkins' Soil Screening Values (SSVs) have been derived using the Environment Agency's software CLEA v1.06. The generic assumptions included with the SSVs are those specified in the CLEA Model as follows:

- The chemical is present from the soil surface downwards and is uniformly distributed, the concentration being fixed over the exposure duration.
- The soil properties are assumed to be a sandy loam soil with a soil organic matter of 6%.
- Reasonable worse-case assumptions are made with regards to exposure pathways and receptor physiological and behavioural characteristics.

The receptors considered are as follows:

Parks – are a large grassed area used by receptors for activities such as sunbathing, picnics and casual sports. There is often a children's play area (with some hardstanding), and there may be features such as flower beds, paddling pool and duck pond. The receptor is assumed to spend 1.5 hours per day at a park for 260 days a year. The critical receptor is a female child aged between zero and 6 years.

The following pathways are considered. These include:

- ingestion of soil and soil-derived dust;
- dermal contact with soil outdoors;
- inhalation of soil-derived vapours in outdoor air; and
- inhalation of soil-derived dust outdoors.

The exception to this is for total petroleum hydrocarbon fractions greater than C16 where the vapour inhalation pathways are not included as the technical guidance (TPHCWG) indicates that fractions >C16 are not volatile.

The potential pathways not included in the CLEA Model and the Atkins SSVs are:

- Inhalation of vapours, dermal contact and ingestion associated with groundwater, surface water courses or other contaminated water source such as impacted water supplies.
- Consumption of poultry, meat, eggs, fish or other produce other than fruit and vegetables.

At the time of issue of this report, the generic assessment criteria available are as given here: The GACs are liable to change as new policy and technical guidance, including toxicological data, is published by the Environment Agency and other authoritative sources.

Site Specific Assessment

The SSVs for parks have been chosen for this assessment, as precautionary criteria based on the PCSM. A site specific comparison has been undertaken between the Parks Conceptual Exposure Model (CEM) and the Newtown Bypass CEM. The comparison is detailed in Table 1 below.

Although the CEM is not a good match, it is considered to be a better match than the other CEMs.

Overall the comparison suggests that the SSVs are likely to be overly conservative for the actual site conditions.

At the time of issue of this report, the generic assessment criteria available are as given here.

Table 1: Comparison of the Parks CEM and the Newtown Bypass CEM

CEM Feature	Parks Standard Scenario CEM	Actual Site Conditions	Good Match	Likely to be Conservative	Likely to be under Conservative	Comments
Critical receptor	0-6 year old female	Scheme is primarily in Greenfield agricultural land. Critical receptor likely to be users of fields e.g. agricultural workers (16-65 year old).		✓		This is also protective of site trespassers who may be children.
Location of the site	Parks are assumed to be located in towns, in close vicinity to residential housing and offices (<500m).	Primarily Greenfield agricultural land. Commercial and residential properties are located within 250 m of the Scheme.		✓		
Ingestion of soils	Receptors observed eating on site. Additionally young children observed crawling on the ground	Agricultural land with the critical receptor likely to be 16-65 years old and unlikely to eat on site.		✓		
Dermal contact with soils	Receptors observed crawling, playing, running and sitting on grass	Agricultural land so unlikely to have receptors crawling, playing, running or sitting on grass.		✓		.
Soil type	Sand soil	Silty sandy gravelly soil with limited extents of Made Ground. Where present, Made Ground comprised slightly gravelly silt/clay with angular gravel and cobbles.			✓	
Soil organic matter	6%	2.18%		✓		
Exposure duration	Assumed 260 days per year with 1.5 hours per day spent on site	Undefined exposure duration but it is likely to be infrequent.		✓		Site users may spend longer on site per day but may spend a smaller number of days on site.

CEM Feature	Parks Standard Scenario CEM	Actual Site Conditions	Good Match	Likely to be Conservative	Likely to be under Conservative	Comments
Activities	Observed cycling, running, playing and sitting on grass. These are activities that result in active respiration.	Active respiration likely to take place on site from agricultural workers.	✓			
Inhalation of vapour in outdoor air	Assumes 1 hour active respiration and 0.5 hours passive (1.5 hours/day) e.g. 0.5 hours sitting and 1 hour undertaking exercise or vigorous activity	Active respiration likely to take place on site from agricultural workers.		✓		Maintenance worker likely to involve active respiration over a number of hours but less visits per year.

Soil Organic Matter

Soil Organic Matter (SOM) is defined as *'the fraction of the soil composed of organic matter. It consists of plant and animal remains in varying stages of decomposition'*. The presence of SOM is important in determining the fate and behaviour of a number of organic contaminants such as PAHs and chlorinated solvents. The mobility of these contaminants decreases with increasing SOM. Generally the greater the SOM content the greater the sorptive capacity of the soil.

The SSVs have been calculated assuming that the SOM is at 6% and that the soil is a sandy loam soil.

SSVs derived using CLEA for 6% SOM and sandy loam soil type, Parks land use

Table.A.2 - SSVs derived using CLEA for 6% SOM and sandy loam soil type, Parks land use

Compound	SSV mg/kg
1,1,1-Trichloroethane	53200
1,1,1,2-Tetrachloroethane	441
1,1,2,2-Tetrachloroethane	483
1,1,2-Trichloroethane	314
1,1-Dichloroethane	1330
1,1-Dichloroethene	1330
1,2-Dichloroethane	6.13
1,2,4-Trimethylbenzene	85.9
1,2-Dichloropropane	68.1
2,4-Dichloro-o-cresol	2300
2,4-Dimethylphenol	2040
2,4-Dinitrotoluene	203
2,6-bis(1,1-dimethyl)-4-(1-methylpropyl)-phenol	92.5

2,6-Dinitrotoluene	103
2-Chloronaphthalene	639
2-Methylphenol	
3-Methylphenol	
4-Methylphenol	
Acenaphthene	5810
Anthracene	29400
Antimony	831
Arsenic	41.4
Barium	1570
Benzene	23.9
Benzo(a)anthracene	12.2
Benzo(a)pyrene	1.34
Benzo(b)fluoranthene	13.0
Benzo(g,h,i)perylene	154
Benzo(k)fluoranthene	137
Beryllium	277
Biphenyl	3810
Bis (2-ethylhexyl) phthalate	3440
Bromobenzene	779
Bromodichloromethane	17.6
Bromoform	1110
Butyl benzyl phthalate	53100
Cadmium	
Carbon disulphide	1110
Carbon tetrachloride	71.6
Chlorobenzene	4750
Chloroethane	278000
Chloroform / Trichloromethane	652
Chloromethane	39.8
Chromium III	22500

Chromium VI	239
Chrysene	1160
Cis-1,2-dichloroethene	232
Copper	12300
Cyanide	34.0
DDD	52.6
Dibenz(a,h)anthracene	1.42
Dibromochloromethane	65.4
Dichloromethane	315
Diethyl Phthalate	19800
Di-n-butyl phthalate	538
Di-n-octyl phthalate	4100
Dinoseb	8.38
Ethylbenzene	10000
Fluoranthene	3910
Fluorene	3900
Formaldehyde	53.3
Hexachloroethane	43.4
Indeno(1,2,3-c,d)pyrene	12.7
Iso-propylbenzene	9840
Lead	477
Mercury (elemental)	25.8
Mercury (inorganic)	303
Mercury (methyl)	20.1
Methyl tert-butyl ether	24800
Molybdenum	786
m-Xylene	13200
Naphthalene	509
Nickel	922
Nicotine	22.0
o-Xylene	14900

Phenol	789
Prochloraz	366
Propylbenzene	10300
p-Xylene	13600
Pyrene	2930
Selenium	696
Styrene	1260
Sum of PCDDs, PCDFs and dioxin-like PCBs	
Tetrachloroethene	1150
Toluene	23500
Total Methylphenols	10200
TPH aliphatic C10-C12	6490
TPH aliphatic C12-C16	6520
TPH aliphatic C16-C35	177000
TPH aliphatic C5-C6	324000
TPH aliphatic C6-C8	326000
TPH aliphatic C8-C10	6420
TPH aromatic C10-C12	2410
TPH aromatic C12-C16	2520
TPH aromatic C16-C21	1610
TPH aromatic C21-C35	1610
TPH aromatic C5-C7	23.9
TPH aromatic C7-C8	23500
TPH aromatic C8-C10	2130
Trans-1,2-dichloroethene	607
Tributyl tin oxide	11.5
Trichloroethene	246
Trichloromethylbenzene	0.0516
Vanadium	422
Vinyl chloride	1.14
Zinc	54800

Approach to Ground Borne Gas Risk Assessment

Methane and Carbon Dioxide

There are a number of approaches to gas risk assessment which have been developed by various bodies and organisations, the principal guidance documents being:

- Assessing Risks Posed by Hazardous Ground Gases to Buildings. CIRIA C665 (Ref. 5)
- The Local Authority Guide to Ground Gas issued by the Chartered Institute of Environmental Health
- Guidance on Evaluation of Development Proposals on Sites where Methane and Carbon Dioxide are Present. NHBC (Ref. 6)
- Code of Practice for the Characterisation and Remediation from Ground Gas in Affected Developments. BS 8486:2007 (Ref. 7)

The National House-Building Council (NHBC) guidance has been developed specifically for the assessment of risk to properties from ground gas as opposed to landfill gas, and also assumes a clear ventilated sub-floor void beneath the property.

The assessment methodology adopted combines a number of approaches recommended in the above guidance. The gas monitoring data have been assessed through implementation of the following steps:

- A Tier 1 Preliminary screening of methane and carbon dioxide concentrations against values recommended in the CIEH report (Ref. 2). The screening threshold values adopted are for a residential properties end-use:

  Methane: 1% Carbon dioxide: 5%

- A Tier 2 assessment comprises the calculation of Gas Screening Values (GSVs) where gas flow rates are available, using the approach given consistently in all guidance documents. Further detail on this is given below.
- Using the GSVs and maximum gas concentrations, each borehole has been assessed in terms of recommended building protection measures appropriate for mitigating potential ground borne gas risk. The two approaches adopted are the modified Wilson & Card methodology detailed within CIRIA C6655 and the NHBC guidance6; these are discussed in further detail below.

Calculation of Gas Screening Values

Gas screening values are calculated by multiplying borehole gas concentrations (% v/v) by borehole flow rates (litres / hour). In order to calculate the worst-case scenario for the site, the maximum gas concentration and flow rates for each borehole have been selected irrespective of whether they are from the same monitoring visit. The GSVs are calculated using the following formula:

GSV = Borehole flow rate (l/h) x Gas concentration (% v/v) / 100

Wilson & Card Characteristic Situations

The assessment approach developed by Wilson & Card and incorporated into the CIRIA C665 guidance5 uses GSVs and maximum gas concentrations in order to classify a site's gas regime in terms of potential risks posed by gas generation. The Tier 2 assessment will follow the methodology required by Situation A as described in CIRIA C6655, Situation A is appropriate to high rise housing and housing with ground bearing slabs or rafts. The Situation A approach has

5 CIRIA, 2007. Assessing Risks Posed by Hazardous Ground Gases to Buildings. CIRIA C665

6 National House-Building Council, March 2007. Guidance on Evaluation of Development Proposals on Sites Where Methane and Carbon Dioxide are Present.

7 British Standard BS 8486:2007. Code of Practice for the Characterisation and Remediation from Ground Gas in Affected Developments. October 2007

been selected in preference to Situation B as the primary assessment methodology, as Situation B (the NHBC 'traffic light' system) assumes an under floor ventilated void as a minimum level of protection and this has not been proven in any of the residential properties.

The modified Wilson & Card characteristic situations are shown in the table below:

Table A.1 – Modified Wilson & Card Characteristic Situations

Characteristic Situation	Risk Classification	GSV (CH_4 or CO_2) l/hr	Additional Factors	Typical Source of Generation
1	Very low	< 0.07	Typically CH_4 ≤ 1% and/or CO_2 ≤ 5%. Otherwise consider increase to Situation 2.	Natural soils with low organic content; 'typical' Made Ground.
2	Low	0.07 – 0.7	Borehole air flow rate not to exceed 70 l/h. Otherwise consider increase to Situation 3.	Natural soil, high peat/organic content; 'typical' Made Ground.
3	Moderate	0.7 – 3.5	-	Old landfill, inert waste; flooded mineworking.
4	Moderate to high	3.5 – 15	Quantitative risk assessment required to evaluate scope of protective measures.	Mineworking susceptible to flooding; completed landfill.
5	High	15 – 70	-	Unflooded, inactive shallow mineworking.
6	Very high	> 70	-	Recent landfill.

Hydrogen Sulphide and Carbon Monoxide

Most of the environmental benchmarks available in risk assessment for the release to air of hydrogen sulphide and carbon monoxide are based on the occupational exposure data (Ref. 8).

[8] Health and Safety Executive. EH40/2005 Workplace Exposure Limits

Appendix F.4

Soil and Water Screening Data Assessment

Newtown Bypass
Soil Screening

Parks Land Use - 6% SOM
Metals

Exceedances of the guideline value

Sample Location	Depth (mbgl)	Lab Sample Number(s)	Coordinates x	Coordinates y	Determinand Units	Arsenic mg/kg	Boron mg/kg	Cadmium mg/kg	Chromium (hexavalent) mg/kg	Chromium mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	Selenium mg/kg	Vanadium mg/kg	Zinc mg/kg	pH pH Units	Total Cyanide mg/kg	Free Cyanide mg/kg	Total Sulphate as SO4 mg/kg	Sulphide mg/kg	Total Chloride mg/kg	Organic Matter %	Total Phenols (HPLC) µg/kg
					Method Detection Limit	1	0.2	0.2	4	1	1	2	0.3	2	1	1	2	N/A	1	1	100	1	5	0.1	7
BH014	0.05	**302356**				15	1.6	< 0.2	< 4.0	25	64	58	0.6	18	< 1.0	25	110	5.7	< 1	< 1	1900	< 1.0	110	20	-
TP025	0.3	**302357**				9	0.5	< 0.2	< 4.0	36	25	28	< 0.3	31	< 1.0	39	110	6.3	< 1	< 1	770	2.3	6	2.5	< 2.0
TP025	2	**302358**				11	< 0.2	< 0.2	< 4.0	32	40	24	< 0.3	48	< 1.0	23	120	6.6	< 1	< 1	300	< 1.0	5	1.6	< 2.0
BH047	0.2	**302352**				8.6	< 0.2	< 0.2	< 4.0	31	21	21	< 0.3	35	< 1.0	28	98	7.9	< 1	< 1	600	1.7	14	1.4	< 2.0
TP023	2	**302353**				11	< 0.2	< 0.2	< 4.0	30	37	24	< 0.3	50	< 1.0	23	120	7.8	< 1	< 1	1800	< 1.0	31	0.2	< 2.0
TP115	0.1	**302104**				12	< 0.2	0.3	< 4.0	36	33	98	< 0.3	44	< 1.0	30	190	7.6	< 1	< 1	710	< 1.0	18	1.3	< 2.0
TP115	1.2	**302105**				11	0.4	< 0.2	< 4.0	33	33	32	< 0.3	42	< 1.0	28	130	7.4	< 1	< 1	330	< 1.0	21	0.3	< 2.0
TP001	0.2	**302106**				12	1	0.8	< 4.0	34	37	180	< 0.3	42	< 1.0	29	210	6.7	< 1	< 1	720	< 1.0	83	1.9	-
TP106	1	**302107**				8.4	< 0.2	< 0.2	< 4.0	27	37	18	< 0.3	43	< 1.0	23	110	7.3	< 1	< 1	310	< 1.0	21	0.3	< 2.0
TP168	0.5	**302108**				8.5	0.6	< 0.2	< 4.0	34	28	20	< 0.3	40	< 1.0	25	98	6.5	< 1	< 1	510	< 1.0	18	1.5	-
TP003	0.5	**302109**				9.2	0.3	< 0.2	< 4.0	31	24	34	< 0.3	32	< 1.0	25	110	6.2	< 1	< 1	620	< 1.0	12	3	-
TP002	0.8	**302110**				9.6	< 0.2	< 0.2	< 4.0	30	40	24	< 0.3	49	< 1.0	21	100	7.4	< 1	< 1	370	< 1.0	10	0.4	-
TP019	2	**302111**				11	< 0.2	< 0.2	< 4.0	31	43	21	< 0.3	47	< 1.0	25	100	7.3	< 1	< 1	270	< 1.0	6	0.1	< 2.0
TP021	0.1	**302112**				11	< 0.2	< 0.2	< 4.0	35	30	28	< 0.3	30	< 1.0	36	110	6.9	< 1	< 1	790	< 1.0	20	2.9	< 2.0
TP067	0.1	**287271**				11	< 0.2	< 0.2	< 4.0	42	28	52	< 0.3	36	< 1.0	53	150	7.6	< 1	< 1	600	< 1.0	10	3.7	-
TP067	1	**287272**				7.1	< 0.2	< 0.2	< 4.0	31	15	21	< 0.3	31	< 1.0	31	91	7.8	< 1	< 1	170	< 1.0	22	0.7	< 7.0
TP072	0.5	**287273**				6.3	< 0.2	< 0.2	< 4.0	33	17	21	< 0.3	26	< 1.0	33	100	7.8	< 1	< 1	280	< 1.0	17	1	< 7.0
TP072	0.8	**287274**				7.6	< 0.2	< 0.2	< 4.0	35	20	18	< 0.3	36	< 1.0	28	77	7.7	< 1	< 1	170	< 1.0	29	0.8	< 7.0
TP073	0.1	**287275**				8.4	0.3	< 0.2	< 4.0	50	24	31	< 0.3	30	< 1.0	55	100	7.2	< 1	< 1	830	1	8	6.3	-
BH035	0.2	**287223**				17	< 0.2	< 0.2	< 4.0	34	43	22	< 0.3	54	< 1.0	26	120	8.3	< 1	< 1	180	< 1.0	13	0.7	
TP076	0.1	**287224**				9.3	1.9	0.2	< 4.0	34	23	50	< 0.3	32	< 1.0	37	110	7.5	< 1	< 1	1300	3.5	34	7.3	
BH036	0.3	**287225**				9	< 0.2	< 0.2	< 4.0	36	25	21	< 0.3	37	< 1.0	28	79	7.7	< 1	< 1	160	< 1.0	37	1.5	
BH055	0.2	**289564**				11	0.3	< 0.2	< 4.0	32	14	30	< 0.3	27	< 1.0	36	100	6.5	< 1	< 1	640	< 1.0	17	4.1	< 2.0
TP079	0.1	**289565**				11	1.1	< 0.2	< 4.0	35	25	38	< 0.3	32	< 1.0	42	130	6.2	< 1	< 1	1200	1.4	27	9.5	-
TP099	1	**289566**				13	< 0.2	< 0.2	< 4.0	30	39	25	< 0.3	54	< 1.0	23	110	6.5	< 1	< 1	110	63	7	0.5	-
TP100	0.3	**289567**				8.1	< 0.2	< 0.2	< 4.0	32	16	20	< 0.3	26	< 1.0	32	110	6.4	< 1	< 1	320	< 1.0	9	1.7	< 2.0
TP098	0.5	**289568**				6	< 0.2	< 0.2	< 4.0	30	17	17	< 0.3	23	< 1.0	32	100	6.2	< 1	< 1	400	< 1.0	7	2.2	-
BH054	0.5	**289569**				9.7	< 0.2	< 0.2	< 4.0	32	30	19	< 0.3	45	< 1.0	27	94	6.3	< 1	< 1	230	< 1.0	8	0.7	< 2.0
TP063	0.5	**289570**				8	< 0.2	< 0.2	< 4.0	33	22	18	< 0.3	46	< 1.0	27	110	6.3	< 1	< 1	190	< 1.0	10	0.6	-
TP094	0.1	**289571**				11	< 0.2	< 0.2	< 4.0	35	21	41	< 0.3	29	< 1.0	39	120	6.2	< 1	< 1	590	1.8	13	3.8	-
TP091	0.3	**289572**				9.6	< 0.2	< 0.2	< 4.0	33	24	29	< 0.3	39	< 1.0	29	120	6.1	< 1	< 1	400	< 1.0	13	2.2	-
TT018	1	**289573**				11	< 0.2	< 0.2	< 4.0	35	30	25	< 0.3	52	< 1.0	25	84	6.2	< 1	< 1	< 100	< 1.0	8	0.8	-
BH032	0.2	**289574**				10	< 0.2	< 0.2	< 4.0	37	26	32	< 0.3	34	< 1.0	37	110	5.8	< 1	< 1	550	< 1.0	16	2.9	-
BH060	0.2	**289575**				9.8	< 0.2	< 0.2	< 4.0	36	21	42	< 0.3	28	< 1.0	40	130	6	< 1	< 1	730	3.5	56	5.6	-
TP082	0.3	**289576**				9.4	< 0.2	< 0.2	< 4.0	32	21	27	< 0.3	36	< 1.0	29	100	5.9	< 1	< 1	430	< 1.0	13	2.6	-
TP090	0.1	**289577**				12	6.4	0.3	< 4.0	28	16	49	< 0.3	23	< 1.0	33	100	6	< 1	< 1	2200	2.8	31	11	-
TP089	0.3	**289578**				7.7	< 0.2	< 0.2	< 4.0	32	17	28	< 0.3	27	< 1.0	32	94	6.3	< 1	< 1	480	1.4	9	2.1	< 2.0
TP080	0.05	**291842**				11	1	< 0.2	< 4.0	31	16	38	< 0.3	28	< 1.0	37	110	8.4	< 1	< 1	900	< 1.0	16	4.4	-
BH061	1	**291843**				11	< 0.2	< 0.2	< 4.0	30	32	29	< 0.3	43	< 1.0	25	110	8.4	< 1	< 1	280	< 1.0	9	0.6	-
TP065	0.4	**291844**				11	< 0.2	< 0.2	< 4.0	31	33	25	< 0.3	42	< 1.0	26	110	7.9	< 1	< 1	190	< 1.0	9	2.3	< 2.0
TP065	0.9	**291845**				10	< 0.2	< 0.2	< 4.0	31	25	29	< 0.3	35	< 1.0	26	80	7.8	< 1	< 1	310	< 1.0	9	1	< 2.0
TP096	1	**291846**				7.5	< 0.2	< 0.2	< 4.0	32	28	34	< 0.3	48	< 1.0	25	94	7.7	< 1	< 1	290	< 1.0	11	1.2	-
TP064	0.1	**291847**				9.9	0.2	< 0.2	< 4.0	30	28	160	< 0.3	33	< 1.0	33	120	7.4	< 1	< 1	710	< 1.0	83	2.9	-
BH053	0.5	**292302**				10	< 0.2	< 0.2	< 4.0	36	35	32	< 0.3	45	< 1.0	35	150	7.2	< 1	< 1	320	< 1.0	< 5	2	
TP055A	0.2	**292304**				9.6	< 0.2	< 0.2	< 4.0	32	27	20	< 0.3	46	< 1.0	26	110	7.1	< 1	< 1	170	1	8	0.7	< 2.0
TP055A	0.7	**292305**				9.1	< 0.2	< 0.2	< 4.0	31	23	23	< 0.3	40	< 1.0	27	100	6.6	< 1	< 1	420	< 1.0	6	0.6	< 2.0
TP057	1.9	**292525**				9.8	0.5	< 0.2	< 4.0	32	31	20	< 0.3	49	< 1.0	25	110	8	< 1	< 1	< 100	< 1.0	33	0.6	
TP056	0.5	**292526**				10	0.7	< 0.2	< 4.0	35	35	19	< 0.3	43	< 1.0	27	100	7.6	< 1	< 1	190	5.6	12	0.8	
TP060A	0.5	**292527**				9.5	0.7	< 0.2	< 4.0	32	31	18	< 0.3	39	< 1.0	26	92	7.7	< 1	< 1	< 100	< 1.0	10	0.6	
TP060	0.1	**292528**				11	1.2	< 0.2	< 4.0	38	25	34	< 0.3	32	< 1.0	41	120	7.4	< 1	< 1	760	1.2	11	4.8	
TP060	2.8	**292529**				12	0.5	< 0.2	< 4.0	33	34	22	< 0.3	53	< 1.0	26	110	7.4	< 1	< 1	< 100	< 1.0	11	0.2	
BH062	0.5	**292530**				9.9	1.3	< 0.2	< 4.0	34	29	31	< 0.3	33	< 1.0	31	120	7.8	< 1	< 1	390	< 1.0	32	1.9	
BH038	1	**295504**				10	< 0.2	< 0.2	< 4.0	32	33	20	< 0.3	46	< 1.0	25	100	8	< 1	< 1	270	< 1.0	13	1.2	< 2.0
TP157	2	**295505**				9.4	< 0.2	< 0.2	< 4.0	29	31	20	< 0.3	46	< 1.0	22	99	6.8	< 1	< 1	200	< 1.0	17	0.6	< 2.0
TP158	0.5	**295506**				11	< 0.2	< 0.2	< 4.0	32	34	24	< 0.3	50	< 1.0	26	120	6.8	< 1	< 1	190	< 1.0	20	0.5	< 2.0
TP055	0.1	**295507**				12	< 0.2	< 0.2	< 4.0	34	40	36	< 0.3	40	< 1.0	31	140	6.8	< 1	< 1	460	< 1.0	6	2.2	< 2.0
TT014	0.5	**295515**				11	< 0.2	< 0.2	< 4.0	33	28	23	< 0.3	39	< 1.0	26	97	7.5	< 1	< 1	110	< 1.0	8	1	< 2.0
TT014	2	**295516**				11	< 0.2	< 0.2	< 4.0	30	33	21	< 0.3	50	< 1.0	23	110	7.4	< 1	< 1	210	< 1.0	7	0.7	< 2.0
TT015	0.1	**295517**				11	< 0.2	< 0.2	< 4.0	33	25	23	< 0.3	38	< 1.0	30	120	7.3	< 1	< 1	340	< 1.0	12	1.8	< 2.0
BH043	0.2	**295518**				14	0.8	< 0.2	< 4.0	34	24	69	< 0.3	32	< 1.0	38	130	7.1	< 1	< 1	800	< 1.0	90	3.6	< 2.0
TP034	0.5	**297625**				14	0.9	< 0.2	< 4.0	28	34	35	< 0.3	42	< 1.0	26	140	7.7	< 1	< 1	670	3.7	20	5.1	< 2.0
BH074	1.2	**297626**				14	< 0.2	< 0.2	< 4.0	32	37	27	< 0.3	45	< 1.0	28	160	7.8	< 1	< 1	300	< 1.0	20	0.9	< 2.0
BH007	0.3	**297627**				12	0.4	< 0.2	< 4.0	30	23	24	< 0.3	33	< 1.0	26	100	7.5	< 1	< 1	430	< 1.0	25	0.9	-
TP050	0.3	**297634**				9.5	0.3	< 0.2	< 4.0	36	29	31	< 0.3	44	< 1.0	47	97	7.4	< 1	< 1	420	< 1.0	23	1.1	< 2.0
BH034A	0.3	**297635**				11	< 0.2	< 0.2	< 4.0	31	24	28	< 0.3	41	< 1.0	27	100	7.2	< 1	< 1	390	1.7	66	1.6	< 2.0
BH034A	1.2	**297636**				11	< 0.2	< 0.2	< 4.0	31	24	28	< 0.3	41	< 1.0	27	100	7.1	< 1	< 1	290	1.8	38	1.3	<2.0
BH044	0.5	**297645**				12	0.4	< 0.2	< 4.0	32	19	31	< 0.3	28	< 1.0	34	110	6.8	< 1	< 1	650	1.9	33	2.3	-
TP046	0.1	**297646**				14	< 0.2	< 0.2	< 4.0	37	17	34	< 0.3	35	< 1.0	36	110	7	< 1	< 1	610	< 1.0	50	3.3	-
BH071	0.30-0.50	**297647**				15	< 0.2	< 0.2	< 4.0	35	33	48	< 0.3	46	< 1.0	34	150	7.1	< 1	< 1	520	< 1.0	31	2.1	< 2.0
TP167	0.2	**297648**				12	< 0.2	< 0.2	< 4.0	36	30	29	< 0.3	43	< 1.0	36	110	6.9	< 1	< 1	640	< 1.0	24	2.9	< 2.0
TP167	1	**297649**				13	< 0.2	< 0.2	< 4.0	32	35	29	< 0.3	48	< 1.0	26	120	7	< 1	< 1	260	< 1.0	83	0.8	< 2.0
TP159	0.5	**297650**				10	< 0.2	< 0.2	< 4.0	35	27	30	< 0.3	41	< 1.0	35	130	7.3	< 1	< 1	620	< 1.0	44	2.7	< 2.0
TP159	1.6	**297651**				7.9	< 0.2	< 0.2	< 4.0	31	22	23	< 0.3	40	< 1.0	26	140	6.9	< 1	< 1	590	4	170	2	< 2.0
BH067	0.2	**297933**				12	< 0.2	< 0.2	< 4.0	34	34	30	< 0.3	49	< 1.0	30	110	7.4	< 1	< 1	540	< 1.0	36	1.2	-
TP051	0.1	**297934**				7.4	< 0.2	< 0.2	< 4.0	35	23	19	< 0.3	41	< 1.0	30	110	7.2	< 1	< 1	400	< 1.0	7	1.3	-
BH066	0.2	**297935**				9.8	< 0.2	< 0.2	< 4.0	35	36	26	< 0.3	46	< 1.0	31	110	7.5	< 1	< 1	320	< 1.0	10	1.3	< 2.0
BH066	1	**297936**				8.1	< 0.2	< 0.2	< 4.0	34	42	22	< 0.3	48	< 1.0	26	99	7.5	< 1	< 1	210	< 1.0	19	0.3	< 2.0
TP053	0.1	**297937**				11	< 0.2	< 0.2	< 4.0	36	33	43	< 0.3	46	< 1.0	31	110	7.1	< 1	< 1	640	< 1.0	20	2.5	< 2.0
TP053	0.5	**297938**				8.4	< 0.2	< 0.2	< 4.0	35	38	29	< 0.3	52	< 1.0	27	110	7.2	< 1	< 1	420	< 1.0	8	1.1	< 2.0
BH070	0.2	**297940**				9.7	0.5	< 0.2	< 4.0	33	36	45	< 0.3	41	< 1.0	35	140	6.3	< 1	< 1	820	< 1.0	31	2.9	< 2.0
TP032	0.2	**297941**				8.7	0.6	< 0.2	< 4.0	32	27	26	< 0.3	31	< 1.0	29	96	3.8	< 1	< 1	710	< 1.0	60	3.4	< 2.0
TP028	0.2	**297942**				8.2	0.3	< 0.2	< 4.0	35	25	22	< 0.3	41	< 1.0	32	86	5.2	< 1	< 1	480	< 1.0	47	1.8	< 2.0
TP103	1.8	**297943**				9.2	< 0.2	< 0.2	< 4.0	32	36	21	< 0.3	49	< 1.0	27	99	5.6	< 1	< 1	210	< 1.0	56	0.3	< 2.0
TP110	0.1	**297944**				11	0.6	< 0.2	< 4.0	39	30	49	< 0.3	38	< 1.0	47	150	5.3	< 1	< 1	1000	< 1.0	33	4.8	< 2.0
TP110	0.5	**297945**				7.3	< 0.2	< 0.2	< 4.0	31	26	23	< 0.3	34	< 1.0	30	100	5.6	< 1	< 1	610	< 1.0	20	2.1	< 2.0
TP113	0.1	**297946**				10	0.6	< 0.2	< 4.0	36	30	39	< 0.3	38	< 1.0	43	120	5.7	< 1	< 1	1000	< 1.0	20	4.5	-
TP116	0.1	**297947**				15	0.4	0.3	< 4.0	38	55	68	< 0.3	46	< 1.0	44	170	5.5	< 1	< 1	780	< 1.0	30	3.2	< 2.0
TP116	0.5	**297948**				10	< 0.2	< 0.2	< 4.0	43	31	< 0.3	57	< 1.0	27	110	5.7	< 1	< 1	320	< 1.0	16	0.4	< 2.0
BH034	1	306795			[redacted]	12	0.6	< 0.2	< 4.0	33	44	28	< 0.3	43	< 1.0	32	140	6.4	< 1	< 1	140	< 1.0	13	0.9	< 2.0
TP005	0.3	306796				8.7	1	< 0.2	< 4.0	40	26	39	< 0.3	41	< 1.0	50	140	6.3	< 1	< 1	840	< 1.0	< 5	3.1	-
TP011	0.5	306797				7.9	0.3	< 0.2	< 4.0	36	25	21	< 0.3	54	< 1.0	31	120	6.6	< 1	< 1	470	< 1.0	28	1.4	< 2.0
TP011	2	306798				10	< 0.2	< 0.2	< 4.0	38	35	20	< 0.3	66	< 1.0	30	110	6.8	< 1	< 1	240	< 1.0	28	0.2	< 2.0
TP010	1	306799				19	< 0.2	< 0.2	< 4.0	30	72	48	< 0.3	53	< 1.0	31	190	6.8	< 1	< 1	< 100	< 1.0	14	0.2	-
TP011A	0.5	306800				9.7	< 0.2	< 0.2	< 4.0	38	28	20	< 0.3	58	< 1.0	31	120	6.6	< 1	< 1	260	< 1.0	37	0.8	< 2.0
TP011A	2	306801				9.5	< 0.2	< 0.2	< 4.0	36	35	20	< 0.3	54	< 1.0	27	99	6.6	< 1	< 1	120	< 1.0	< 5	0.3	< 2.0
TP006	0.3	306802				9.7	1.2	< 0.2	< 4.0	37	26	36	< 0.3	42	< 1.0	41	130	6.3	< 1	< 1	740	< 1.0	62	2	< 2.0
TP009	0.3	306803				10	0.7	< 0.2	< 4.0	39	29	33	< 0.3	52	< 1.0	40	110	6	< 1	< 1	730	< 1.0	< 5	3.2	-
TP007	0.2	306804				9.5	0.6	< 0.2	< 4.0	36	41	42	< 0.3	36	< 1.0	42	130	6.2	< 1	< 1	590	< 1.0	10	3.8	-
TP011C	0.3	306805				9.1	< 0.2	< 0.2	< 4.0	32	32	25	< 0.3	52	< 1.0	28	120	6.5	< 1	< 1	230	< 1.0	17	0.7	-
TP011B	2	306806				13	< 0.2	< 0.2	< 4.0	34	56	28	< 0.3	63	< 1.0	29	150	6.9	< 1	< 1	< 100	< 1.0	< 5	0.2	-
TP011D	0.5	306807				13	0.4	< 0.2	< 4.0	34	39	34	< 0.3	55	< 1.0	29	140	6.8	< 1	< 1	270	< 1.0	25	1.3	-
TP014	1	306808				11	< 0.2	< 0.2	< 4.0	32	51	31	< 0.3	59	< 1.0	28	140	6.8	< 1	< 1	170	< 1.0	7	0.1	< 2.0
BH013	0.5	306788				5.2	< 0.2	< 0.2	< 4.0	31	17	16	< 0.3	40	< 1.0	34	120	6.8	< 1	< 1	230	< 1.0	20	1.3	-
BH010	0.8	306785				7.3	0.2	< 0.2	< 4.0	32	35	22	< 0.3	45	< 1.0	28	130	6.3	< 1	< 1	200	< 1.0	< 5	1.9	-
BH003	0.0-0.5	308755				8.60	1.50	<0.2	< 4.0	39	21	35	< 0.3	34	< 1.0	42	130	7.20	< 1	< 1	850.00	< 1.0	5.00	3.10	-
BH004	0.5-1.0	308756				8.20	1.70	<0.2	< 4.0	35	22	26	< 0.3	39	< 1.0	33	110	7.00	< 1	< 1	990.00	< 1.0	25.00	3.10	-
BH008	0.3	308757				6.30	0.90	<0.2	< 4.0	31	30	22	< 0.3	35	< 1.0	24	120	7.20	< 1	< 1	520.00	< 1.0	20.00	1.70	-
Number of samples						**107**	**107**	**107**	**107**	**107**	**106**	**107**	**107**	**107**	**107**	**107**	**107**	**107**	**107**	**107**	**107**	**107**	**107**	**107**	**57**
Minimum value						**5.2**	**0.2**	**0.2**	**4.0**	**25.0**	**14.0**	**16.0**	**0.3**	**18.0**	**1.0**	**21.0**	**77.0**	**3.8**	**1.0**	**1.0**	**100.0**	**1.0**	**5.0**	**0.1**	**2.0**
Maximum value						**19.0**	**6.4**	**0.8**	**4.0**	**50.0**	**72.0**	**180.0**	**0.6**	**66.0**	**1.0**	**55.0**	**210.0**	**8.4**	**1.0**	**1.0**	**2200.0**	**63.0**	**170.0**	**20.0**	**7.0**
Second highest value						**17.0**	**1.9**	**0.3**	**4.0**	**42.0**	**64.0**	**160.0**	**0.3**	**63.0**	**1.0**	**53.0**	**190.0**	**8.4**	**1.0**	**1.0**	**1900.0**	**5.6**	**110.0**	**11.0**	**7.0**
Range						**5.2- 19**	**0.2- 6.4**	**0.2- 0.8**	**4- 4**	**25- 50**	**14- 72**	**16- 180**	**0.3- 0.6**	**18- 66**	**1- 1**	**21- 55**	**77- 210**	**3.8- 8.4**	**1- 1**	**1- 1**	**100- 2200**	**1- 63**	**5- 170**	**0.1- 20**	**2- 7**
Average concentration (mg/kg)						**10.3**	**0.5**	**0.2**	**4.0**	**33.5**	**30.3**	**32.6**	**0.3**	**41.2**	**1.0**	**31.2**	**116.3**	**6.9**	**1.0**	**1.0**	**492.6**	**1.8**	**24.3**	**2.2**	**2.3**
Number of exceedances						**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% above assessment criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Assessment criteria for Parks (mg/kg)						**41.4**	**-**	**83.6**	**239.0**	**22500.0**	**12300.0**	**477.0**	**20.1**	**922.0**	**696.0**	**422.0**	**54800.0**	**-**	**34.0**	**34.0**	**-**	**-**	**-**	**-**	**789.00**
Source of assessment criteria						**SSV**	**-**	**SSV***	**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**-**	**ssv**	**ssv**	**-**	**-**	**-**	**-**	**ssv**

es resi without

Newtown Bypass
Soil Screening
Parks Land Use - 6% SOM
PAHs

Exceedences of the guideline value

Sample Location	Depth (mbgl)	Lab Sample	Coordinates x	Coordinates y	Determinand	Speciated Total EPA-16 PAHs	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(ghi)perylene	Catechol	Resorcinol	Butyl Phenols	Cresols	Naphthols	Phenol	Trimethylphenol
					Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
					Method Detection Limit	1.6	0.05	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.05	0.1	0.2	0.1	0.2	0.2	0.05	1	1	1	1	1	0.1	1
BH014	0.05	**302356**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP025	0.3	**302357**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP025	2	**302358**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH047	0.2	**302352**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP023	2	**302353**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP115	0.1	**302104**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP115	1.2	**302105**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP001	0.2	**302106**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP106	1	**302107**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP168	0.5	**302108**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP003	0.5	**302109**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP002	0.8	**302110**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP019	2	**302111**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP021	0.1	**302112**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP067	0.1	**287271**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP067	1	**287272**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	< 1.0
TP072	0.5	**287273**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	< 1.0
TP072	0.8	**287274**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	< 1.0
TP073	0.1	**287275**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH035	0.2	**287223**			[redacted]		-																						
TP076	0.1	**287224**			[redacted]		-																						
BH036	0.3	**287225**			[redacted]		-																						
BH055	0.2	**289564**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP079	0.1	**289565**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP099	1	**289566**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP100	0.3	**289567**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP098	0.5	**289568**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
BH054	0.5	**289569**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP063	0.5	**289570**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP094	0.1	**289571**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP091	0.3	**289572**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TT018	1	**289573**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
BH032	0.2	**289574**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
BH060	0.2	**289575**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP082	0.3	**289576**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP090	0.1	**289577**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP089	0.3	**289578**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP080	0.05	**291842**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
BH061	1	**291843**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP065	0.4	**291844**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP065	0.9	**291845**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP096	1	**291846**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP064	0.1	**291847**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
BH053	0.5	**292302**			[redacted]		-																						
TP055A	0.2	**292304**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP055A	0.7	**292305**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP057	1.9	**292525**			[redacted]		-																						
TP056	0.5	**292526**			[redacted]		-																						
TP060A	0.5	**292527**			[redacted]		-																						
TP060	0.1	**292528**			[redacted]		-																						
TP060	2.8	**292529**			[redacted]		-																						
BH062	0.5	**292530**			[redacted]		-																						
BH038	1	**295504**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP157	2	**295505**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP158	0.5	**295506**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP055	0.1	**295507**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TT014	0.5	**295515**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TT014	2	**295516**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TT015	0.1	**295517**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH043	0.2	**295518**			[redacted]	1.1	< 0.05	< 0.20	0.47	0.35	2.2	0.5	2	1.8	0.75	0.98	0.63	0.47	0.43	< 0.20	< 0.20	< 0.05							
TP034	0.5	**297625**			[redacted]	7.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	1.9	1.7	0.83	1	1	0.51	0.69	< 0.20	< 0.20	< 0.05							
BH074	1.2	**297626**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH007	0.3	**297627**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP050	0.3	**297634**			[redacted]	81	< 0.05	< 0.20	0.58	0.55	13	2.1	18	15	6.8	5.6	6	4.1	4.1	2.2	0.38	3							
BH034A	0.3	**297635**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH034A	1.2	**297636**			[redacted]	<1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH044	0.5	**297645**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP046	0.1	**297646**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
BH071	0.30-0.50	**297647**			[redacted]	9.4	< 0.05	< 0.20	< 0.10	< 0.20	0.68	0.14	1.6	1.4	0.83	0.88	0.88	0.56	0.73	0.31	< 0.20	0.31							
TP167	0.2	**297648**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP167	1	**297649**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP159	0.5	**297650**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP159	1.6	**297651**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH067	0.2	**297933**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP051	0.1	**297934**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
BH066	0.2	**297935**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH066	1	**297936**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP053	0.1	**297937**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP053	0.5	**297938**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH070	0.2	**297940**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP032	0.2	**297941**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP028	0.2	**297942**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP103	1.8	**297943**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP110	0.1	**297944**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP110	0.5	**297945**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP113	0.1	**297946**			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP116	0.1	**297947**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP116	0.5	**297948**			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH034	1	306795			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP005	0.3	306796			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP011	0.5	306797			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP011	2	306798			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP010	1	306799			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP011A	0.5	306800			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP011A	2	306801			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP006	0.3	306802			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
TP009	0.3	306803			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP007	0.2	306804			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP011C	0.3	306805			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP011B	2	306806			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP011D	0.5	306807			[redacted]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TP014	1	306808			[redacted]	< 1.6	< 0.05	< 0.20	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.05	< 0.10	< 0.20	< 0.10	< 0.20	< 0.20	< 0.05							
BH013	0.5	306788																											
BH010	0.8	306785																											
BH003	0.0-0.5	308755																											
BH004	0.5-1.0	308756																											
BH008	0.3	308757																											
					Number of samples	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	3	3	3	3	3	3	3
					Minimum value	1.60	0.05	0.05	0.10	0.10	0.20	0.10	0.10	0.20	0.20	0.05	0.05	0.10	0.10	0.10	0.20	0.05	1.00	1.00	1.00	1.00	1.00	0.10	1.00
					Maximum value	81.00	0.05	0.20	0.58	0.55	13.00	2.10	18.00	15.00	6.80	5.60	6.00	4.10	4.10	2.20	0.38	3.00	1.00	1.00	1.00	1.00	1.00	0.10	1.00
					Second highest value	11.00	0.05	0.20	0.47	0.35	2.20	0.50	2.30	1.80	0.83	1.00	1.00	0.56	0.73	0.31	0.20	0.31	1.00	1.00	1.00	1.00	1.00	0.10	1.00
					Range	1.6- 81	0.05- 0.05	0.05- 0.2	0.1- 0.58	0.1- 0.55	0.2- 13	0.1- 2.1	0.1- 18	0.2- 15	0.2- 6.8	0.05- 5.6	0.05- 6	0.1- 4.1	0.1- 4.1	0.1- 2.2	0.2- 0.38	0.05- 3	1- 1	1- 1	1- 1	1- 1	1- 1	0.1- 0.1	1- 1
					Average concentration (mg/kg)	3.38	0.05	0.18	0.13	0.20	0.47	0.16	0.59	0.54	0.35	0.21	0.24	0.27	0.21	0.22	0.20	0.11	1.00	1.00	1.00	1.00	1.00	0.10	1.00
					Number of exceedances	35	0	0	0	0	35	0	0	0	0	0	0	0	1	0	0	0	2	2	2	2	2	0	2
					% above assessment criteria	61.40	0.00	0.00	0.00	0.00	61.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.00	66.67	66.67	66.67	66.67	66.67	0.00	66.67
					Assessment criteria for Parks (mg/kg)	-	509.00		5810.00	3900.00	-	29400.00	3910.00	2930.00	12.20	1160.00	13.00	137.00	1.34	12.70	1.42	154.00	-	-	-	-	-	789.00	-
					Source of assessment criteria	-	ssv	-	ssv	ssv	-	ssv	ssv	ssv	ssv	ssv	ssv	ssv	ssv	ssv	ssv	ssv	-	-	-	-	-	ssv	-

Newtown Bypass
Soil Screening
Parks Land Use - 6% SOM
TPH

Exceedences of the guideline value

Sample Location	Depth (mbgl)	Lab Sample Number(s)	Coordinates x	Coordinates y	Determinand	TPH-CWG - Aliphatic >EC5 - EC6	TPH-CWG - Aliphatic >EC6 - EC8	TPH-CWG - Aliphatic >EC8 - EC10	TPH-CWG - Aliphatic >EC10 - EC12	TPH-CWG - Aliphatic >EC12 - EC16	TPH-CWG - Aliphatic >EC16 - EC21	TPH-CWG - Aliphatic >EC21 - EC35	TPH-CWG - Aliphatic (EC5 - EC35)	TPH-CWG - Aromatic >EC5 - EC7	TPH-CWG - Aromatic >EC7 - EC8	TPH-CWG - Aromatic >EC8 - EC10	TPH-CWG - Aromatic >EC10 - EC12	TPH-CWG - Aromatic >EC12 - EC16	TPH-CWG - Aromatic >EC16 - EC21	TPH-CWG - Aromatic >EC21 - EC35	TPH-CWG - Aromatic (EC5 - EC35)
					Method Detection Limit	0.1	0.1	0.1	1	2	8	8	10	0.1	0.1	0.1	1	2	10	10	10
BH014	0.05	**302356**																			
TP025	0.3	**302357**				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP025	2	**302358**				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH047	0.2	**302352**				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP023	2	**302353**				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP115	0.1	302104				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP115	1.2	302105				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP001	0.2	302106																			
TP106	1	**302107**				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	29	29
TP168	0.5	302108																			
TP003	0.5	302109																			
TP002	0.8	302110																			
TP019	2	302111				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP021	0.1	302112				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP067	0.1	287271																			
TP067	1	287272				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP072	0.5	287273				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP072	0.8	287274				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP073	0.1	287275																			
BH035	0.2	287223																			
TP076	0.1	287224																			
BH036	0.3	287225																			
BH055	0.2	289564				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP079	0.1	289565																			
TP099	1	289566																			
TP100	0.3	289567				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP098	0.5	289568																			
BH054	0.5	289569				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP063	0.5	289570																			
TP094	0.1	289571																			
TP091	0.3	289572																			
TT018	1	289573																			
BH032	0.2	289574																			
BH060	0.2	289575																			
TP082	0.3	289576																			
TP090	0.1	289577																			
TP089	0.3	289578				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP090	0.05	291842																			
BH061	1	291843																			
TP065	0.4	291844				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP065	0.9	291845				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP096	1	291846																			
TP064	0.1	291847																			
BH053	0.5	292302																			
TP055A	0.2	292304				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP055A	0.7	292305				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP057	1.9	292525																			
TP056	0.5	292526																			
TP060A	0.5	292527																			
TP060	0.1	292528																			
TP060	2.8	292529																			
BH062	0.5	292530																			
BH038	1	295504				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP157	2	295505				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP158	0.5	295506				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP055	0.1	295507				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TT014	0.5	295515				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TT014	2	295516				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TT015	0.1	295517				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH043	0.2	295518				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	2.8	10	< 10	13
TP034	0.5	297625				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	16	16	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	28	28
BH074	1.2	297626				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH007	0.3	297627																			
TP050	0.3	297634				< 0.1	< 0.1	< 0.1	< 1.0	2.9	9.7	140	150	< 0.1	< 0.1	< 0.1	< 1.0	3.1	60	440	500
BH034A	0.3	297635				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH034A	1.2	297636				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH044	0.5	297645																			
TP046	0.1	297646																			
BH071	0.30-0.50	297647				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP167	0.2	297648				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP167	1	297649				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP159	0.5	297650				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP159	1.6	297651				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH067	0.2	297933																			
TP051	0.1	297934																			
BH066	0.2	297935				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH066	1	297936				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP053	0.1	297937				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP053	0.5	297938				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH070	0.2	297940				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP032	0.2	297941				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP028	0.2	297942				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP103	1.8	297943				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP110	0.1	297944				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP110	0.5	297945				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP113	0.1	297946																			
TP116	0.1	297947				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP116	0.5	297948				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH034	1	306795				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP005	0.3	306796																			
TP011	0.5	306797				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	5.2	< 10	< 10	< 10
TP011	2	306798				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	2.5	< 10	11	13
TP010	1	306799																			
TP011A	0.5	306800				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP011A	2	306801				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP006	0.3	306802				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
TP009	0.3	306803																			
TP007	0.2	306804																			
TP011C	0.3	306805																			
TP011B	2	306806																			
TP011D	0.5	306807																			
TP014	1	306808				< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 8.0	< 8.0	< 10	< 0.1	< 0.1	< 0.1	< 1.0	< 2.0	< 10	< 10	< 10
BH013	0.5	306788																			
BH010	0.8	306785																			
BH003	0.0-0.5	308755																			
BH004	0.5-1.0	308756																			
BH008	0.3	308757																			
Number of samples						**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**	**57**
Minimum value						**0.1**	**0.1**	**0.1**	**1.0**	**2.0**	**8.0**	**8.0**	**10.0**	**0.1**	**0.1**	**0.1**	**0.1**	**1.0**	**2.0**	**10.0**	**10.0**
Maximum value						**0.1**	**0.1**	**0.1**	**1.0**	**2.9**	**9.7**	**140.0**	**150.0**	**0.1**	**0.1**	**0.1**	**1.0**	**3.1**	**60.0**	**440.0**	**500.0**
Second highest value						**0.1**	**0.1**	**0.1**	**1.0**	**2.0**	**8.0**	**16.0**	**16.0**	**0.1**	**0.1**	**0.1**	**1.0**	**2.8**	**10.0**	**29.0**	**29.0**
Range						**0.1- 0.1**	**0.1- 0.1**	**0.1- 0.1**	**1.- 1**	**2- 2.9**	**8- 9.7**	**8- 140**	**10- 150**	**0.1- 0.1**	**0.1- 0.1**	**0.1- 0.1**	**0.1- 1**	**1- 3.1**	**2- 60**	**10- 440**	**10- 500**
Average concentration (mg/kg)						**0.1**	**0.1**	**0.1**	**1.0**	**2.0**	**8.0**	**10.5**	**12.6**	**0.1**	**0.1**	**0.1**	**0.9**	**1.9**	**10.0**	**18.2**	**19.3**
Number of exceedances						**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% above assessment criteria						**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Assessment criteria for Parks (mg/kg)						324000.0	326000.0	6420.0	6490.0	6520.0	-	-	-	23.9	23500.0	2130.0	2410.0	2520.0	1610.0	1610.0	-
Source of assessment criteria						**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**-**	**-**	**-**	**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**ssv**	**-**

Newtown Bypass
Soil Screening
Parks Land Use - 6% SOM
VOCs and BTEX

Exceedences of the guideline value

Sample Location	Depth (m/sy1)	Lab Sample Number(s)	Coordinates x	y	Determinnand Units	Benzene ug/Kg	Toluene ug/Kg	Ethylbenzene ug/Kg	p & m-xylene ug/Kg	o-xylene ug/Kg	MTBE (Methyl Tertiary Butyl Ether) ug/Kg	
					Method Detection Limit	1	1	1	1	1	1	
BH014	0.05	362356										
TP025	0.3	362357				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP025	2	362358				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH047	0.2	362352				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH047	1	362353				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP115	0.1	362104				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP115	1.2	362105				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP001	0.2	362106				-	-	-	-	-	-	
TP106	1	362107				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP168	0.5	362108				-	-	-	-	-	-	
TP002	0.3	362109				-	-	-	-	-	-	
TP085	0.8	362110				-	-	-	-	-	-	
TP019	2	362111				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP021	0.1	362112				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP067	0.1	287271				-	-	-	-	-	-	
TP067	1	287272				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP072	0.5	287273				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP072	0.8	287274				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP073	0.1	287275				-	-	-	-	-	-	
BH035	0.2	287223				-	-	-	-	-	-	
TP076	0.1	287224				-	-	-	-	-	-	
BH036	0.3	287225				-	-	-	-	-	-	
BH055	0.2	289564				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH055	0.5	289565				-	-	-	-	-	-	
TP099	1	289566				-	-	-	-	-	-	
TP100	0.3	289567				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP098	0.5	289568				-	-	-	-	-	-	
BH094	0.5	289569				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP063	0.5	289570				-	-	-	-	-	-	
TP094	0.1	289571				-	-	-	-	-	-	
TP094	0.3	289572				-	-	-	-	-	-	
TT016	1	289573				-	-	-	-	-	-	
BH032	0.2	289574				-	-	-	-	-	-	
BH060	0.2	289575				-	-	-	-	-	-	
TP082	0.3	289576				-	-	-	-	-	-	
TP090	0.1	289577				-	-	-	-	-	-	
TP089	0.3	289578				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP089	0.05	289579				-	-	-	-	-	-	
BH061	1	291643				-	-	-	-	-	-	
TP065	0.4	291644				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP065	0.9	291645				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP096	1	291646				-	-	-	-	-	-	
TP097	0.1	291647				-	-	-	-	-	-	
TP063	0.5	292303				-	-	-	-	-	-	
TP055A	0.2	292304				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP055A	0.7	292305				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP057	1.9	292525										
TP098	0.5	292526										
TP060A	0.5	292527										
TP060	0.3	292528										
TP060	0.8	292529										
BH062	0.5	292530										
BH038	1	295564				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP157	2	295605				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP158	0.5	295606				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP058	0.1	295607				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP155	0.1	295613				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TT014	2	295614				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TT015	0.1	295617				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH049	0.2	295518				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP034	0.5	297625				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP034	0.9	297626				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH007	0.2	297627				-	-	-	-	-	-	
TP090	0.3	297634				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH034A	0.3	297635				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH034A	1.2	297636				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH044	0.5	297645				-	-	-	-	-	-	
TP046	0.1	297646				-	-	-	-	-	-	
TP046	0.3+0.50	297647				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP147	0.2	297648				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP167	1	297649				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP159	0.5	297650				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP159	1.6	297651				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH067	0.2	297533				-	-	-	-	-	-	
TP051	0.1	297534				-	-	-	-	-	-	
TP051	0.3	297535				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH066	1	297536				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP053	0.1	297937				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP053	0.5	297938				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH070	0.2	297940				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP032	0.2	297941				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP028	0.2	297942				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP028	0.5	297943				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP110	0.1	297944				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP110	0.5	297945				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP113	0.1	297946				-	-	-	-	-	-	
TP116	0.1	297947				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP116	0.5	297948				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH004	0.1	306795				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH004	0.3	306796				-	-	-	-	-	-	
TP011	0.5	306797				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP011	2	306798				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP010	1	306799				-	-	-	-	-	-	
TP011A	0.5	306800				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP011A	2	306801				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP009	0.3	306802				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TP009	0.3	306803				-	-	-	-	-	-	
TP007	0.2	306804				-	-	-	-	-	-	
TP011C	0.3	306805				-	-	-	-	-	-	
TP011B	2	306806				-	-	-	-	-	-	
TP011D	0.5	306807				-	-	-	-	-	-	
TP008	1	306808				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
BH013	0.5	306759				-	-	-	-	-	-	
BH013	0.8	306765				-	-	-	-	-	-	
BH003	0.0-0.5	306755				-	-	-	-	-	-	
BH004	0.5-1.0	306756				-	-	-	-	-	-	
BH008	0.3	306757				-	-	-	-	-	-	

Number of samples	57	57	57	57	57	57	57	0
Minimum value	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Maximum value	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Second highest value	1.00	1.00	1.00	1.00	1.00	1.00	1.00	#NUM!
Range	1-1	1- 1	1 -1	1 -1	1 -1	1 -1	1 -1	0- 0
Average concentration (mg/kg)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Number of exceedances	38	38	38	38	38	38	38	0
% above assessment criteria	66.67	66.67	66.67	66.67	66.67	66.67	66.67	#DIV/0!
Assessment criteria for Parks (ug/kg)	-	-	-	-	-	-	-	-
Source of assessment criteria	-	-	-	-	-	-	-	-

Newtown Bypass
Surface Water Screening

Metals

Exceedances of the guideline value

Sample Location	Depth (mbgl)	Lab Sample Number(s)	Coordinates x	Coordinates y	Determinand Units	Determinand Method Detection Limit	Aluminium µg/l 1	Arsenic µg/l 1	Boron µg/l 10	Cadmium µg/l 0.08	mium (hexav µg/l 5	hromium µg/l 0.4	Copper µg/l 0.7	Lead µg/l 1	Mercury µg/l 0.5	Nickel µg/l 0.3	Selenium µg/l 4	Vanadium µg/l 1.7	Zinc µg/l 6.7	Calcium µg/l 0.012	Magnesium µg/l 0.005	pH pH Units N/A	otal Cyanic µg/l 10	Free Cyanide µg/l 10	Sulphate as SO4 ug/l 45	Sulphide µg/l 5	Chloride mg/l 0.15	Fluoride µg/l 50	Ammoniacal Nitrogen as N µg/l 15	Total Organic Carbon (TOC) mg/l 0.1	Nitrate as N mg/l 1	Nitrate as NO3 mg/l 5	Hardness - Total mg(CaCO3)/l 1	Total Phenols (monohydric) µg/l 1
SW1		291838					34	4.6	44	< 0.08	< 5.0	< 0.4	5.1	< 1.0	< 0.5	1.4	< 4.0	< 1.7	6.7	7100	2500	7.6	< 10	< 10	9180	< 5.0	15	70	< 15	3	< 1.0	< 5.0	28.1	< 10
SW2		291839					59	3.8	< 10	< 0.08	< 5.0	< 0.4	8.1	< 1.0	< 0.5	0.4	< 4.0	< 1.7	2.6	37000	7800	7.6	< 10	< 10	21700	< 5.0	18	73	< 15	4.7	< 1.0	< 5.0	124	< 10
SW4		291840					51	4	25	< 0.08	< 5.0	< 0.4	3.3	< 1.0	< 0.5	0.7	< 4.0	4.2	1.1	60000	2500	7.8	< 10	< 10	24300	< 5.0	26	89	< 15	4.5	1.1	< 5.0	192	< 10
SW5		291841					750	4.9	27	< 0.08	< 5.0	0.9	3.9	< 1.0	< 0.5	1.2	< 4.0	< 1.7	1.3	67000	7800	7.8	< 10	< 10	28100	< 5.0	25	97	410	8.9	1.2	5.5	219	< 10
																					2500													
SW1		306789	Results invalid due to delay				1600	5.9	81	< 0.08	< 5.0	7.5	3.9	3.9	< 0.5	1.1	< 4.0	19	15	49000	7800	9.5	< 10	< 10	18000	< 5.0	19	160	< 15	3.8	1.1	4.8	130	< 10
SW2		306790	Results invalid due to delay				200	3	22	< 0.08	< 5.0	0.8	2.2	1.7	< 0.5	1.1	< 4.0	8.9	1.7	27000	2500	8.1	< 10	< 10	18900	< 5.0	18	120	< 15	4.6	0.7	3.2	95.1	< 10
SW4		306792	Results invalid due to delay				28	3.7	24	< 0.08	< 5.0	< 0.4	2.6	1.9	< 0.5	0.6	< 4.0	5.1	< 0.4	67000	7800	7.7	< 10	< 10	23000	< 5.0	20	130	< 15	4.2	1.6	6.9	148	< 10
SW5		306793	Results invalid due to delay				26	3.1	26	< 0.08	< 5.0	< 0.4	1.3	1.4	< 0.5	0.4	< 4.0	2.2	< 0.4	48000	2500	7.5	< 10	< 10	28400	< 5.0	20	130	< 15	4.2	1.7	7.6	170	< 10
SW6		306794	Results invalid due to delay				48	4.4	26	< 0.08	< 5.0	< 0.4	2	2.1	< 0.5	1	< 4.0	5.6	< 0.4	29000	7800	7.4	< 10	< 10	15300	< 5.0	12	130	< 15	4.9	0.7	2.9	97.5	< 10
																					2500													
SW1		313727					1700	< 1.0	< 10	< 0.08	< 5.0	2.5	5.3	4.4	< 0.5	3.2	< 4.0	13	11	67000	7800	7.9	< 10	< 10	6980	< 5.0	14	120	< 15	2.8	1.5	6.8	29.2	< 10
SW2		313730					570	< 1.0	< 10	< 0.08	< 5.0	0.5	3.4	< 1.0	< 0.5	1.6	< 4.0	12	6.2	16000	2500	7.9	< 10	< 10	11100	< 5.0	17	78	< 15	3	1.9	8.5	53.9	< 10
SW3		313731					410	< 1.0	< 10	< 0.08	< 5.0	0.5	4.4	< 1.0	< 0.5	1.7	< 4.0	13	7.3	37000	7800	7.8	< 10	< 10	13000	< 5.0	54	85	< 15	2.8	4.3	19	95.4	< 10
SW4		313732					850	1.4	11	< 0.08	< 5.0	1.1	3.7	< 1.0	< 0.5	2.1	< 4.0	8.2	5.1	23000	2500	7.8	< 10	< 10	13000	< 5.0	29	94	< 15	3.2	3	13	77.4	< 10
SW5		313286					100	< 1.0	18	< 0.08	< 5.0	0.4	3.9	< 1.0	< 0.5	0.4	< 4.0	< 1.7	3.7	67000	7800	7.7	< 10	< 10	12500	< 5.0	20	83	< 15	3.2	4.3	19	106	< 10
SW6		313733					65	2.3	17	< 0.08	< 5.0	< 0.4	4.5	< 1.0	< 0.5	1.4	< 4.0	15	9	20000	2500	8.1	< 10	< 10	9980	< 5.0	12	100	< 15	2.9	1.7	7.6	65.9	< 10
BH004A		313728					2000	3.1	37	< 0.08	< 5.0	5.5	5.3	9.2	< 0.5	3.9	< 4.0	9.7	6.8	37000	7800	7.7	< 10	< 10	35500	< 5.0	16	190	50	6.4	7.3	32	122	< 10
BH004B		313729					720	2.3	22	< 0.08	< 5.0	1	9	< 1.0	< 0.5	1.7	< 4.0	2.7	1	41000	2500	7.7	< 10	< 10	22100	< 5.0	15	79	< 15	1.7	7.1	31	142	< 10
BH12		313281					3100	1.3	24	< 0.08	< 5.0	3.9	2.8	19	< 0.5	2.9	< 4.0	5.5	18	67000	7800	8.1	< 10	< 10	19400	< 5.0	44	130	< 15	2.9	1.8	7.9	146	< 10
BH12		313282					2100	< 1.0	19	< 0.08	< 5.0	2.7	4	< 1.0	< 0.5	5.6	< 4.0	< 1.7	7.9	16000	2500	7.7	< 10	< 10	20700	< 5.0	52	68	< 15	2.8	1.8	7.8	73.7	< 10
BH34		313278					3500	2.5	37	< 0.08	< 5.0	3.6	9.2	23	< 0.5	9.5	< 4.0	5.4	19	37000	7800	7.2	< 10	< 10	14900	< 5.0	15	120	< 15	6.6	3.1	14	105	< 10
BH34		313279					1500	< 1.0	47	< 0.08	< 5.0	9.8	6.6	3.4	< 0.5	9.4	< 4.0	14	5	63000	2500	7.3	< 10	< 10	22600	< 5.0	13	130	< 15	3.6	1.6	7.2	202	< 10
BH34A		313275					3500	13	190	< 0.08	< 5.0	5.5	9.1	26	< 0.5	10	< 4.0	5.3	4.3	67000	7800	8	< 10	< 10	478000	< 5.0	52	900	< 15	19	< 0.3	< 1.1	88.4	< 10
BH34A		313277					1700	4.3	120	< 0.08	< 5.0	2.5	2	< 1.0	< 0.5	2.6	< 4.0	< 1.7	2.6	72000	2500	7.2	< 10	< 10	22400	< 5.0	48	210	310	2.7	< 0.3	< 1.1	221	< 10
BH35		313280					10000	6.2	210	< 0.08	< 5.0	20	8.8	11	< 0.5	7.1	< 4.0	29	29	3500	7800	10.3	< 10	< 10	68900	< 5.0	11	190	130	3.7	0.4	1.6	32.1	< 10
BH53		313283					760	< 1.0	22	< 0.08	< 5.0	2.3	6.3	11	< 0.5	7.4	< 4.0	5.3	99	21000	2500	7.4	< 10	< 10	10500	< 5.0	17	72	< 15	4.5	5.9	26	74.4	< 10
BH53		313284					3000	4.3	46	< 0.08	< 5.0	7.5	6.4	15	< 0.5	7	< 4.0	19	31	41000	7800	7.2	< 10	< 10	10400	< 5.0	15	73	< 15	3.7	5.4	24	134	< 10
BH55		313285					740	1.8	37	< 0.08	< 5.0	1	1.8	< 1.0	< 0.5	2	< 4.0	< 1.7	0.8	140000	2500	7.5	< 10	< 10	116000	< 5.0	23	130	130	2.4	0.3	1.2	420	< 10
BH060A		313736					1900	2.9	16	< 0.08	< 5.0	1.5	11	11	< 0.5	7.6	< 4.0	14	5.9	53000	7800	7.3	< 10	< 10	33500	< 5.0	83	140	< 15	4.1	< 0.3	< 1.1	201	< 10
BH060B		313737					380	3	15	< 0.08	< 5.0	0.5	4.7	< 1.0	< 0.5	6.7	< 4.0	10	1.6	49000	2500	7.2	< 10	< 10	30500	< 5.0	120	340	< 15	4.1	< 0.3	< 1.1	200	< 10
BH066A		313735					2000	6.8	140	< 0.08	28	40	41	7.3	< 0.5	4.6	< 4.0	22	43	12000	7800	12.1	< 10	< 10	104000	< 5.0	16	140	660	15	1.6	6.9	31	< 10
BH074A		313734					330	< 1.0	21	< 0.08	< 5.0	< 0.4	1.4	1.2	< 0.5	3.4	< 4.0	8.9	4.2	23000	2500	8.1	< 10	< 10	11800	< 5.0	19	230	< 15	1.1	1.7	7.5	74.4	< 10
SW1		323795					20	< 1.0	30	< 0.08	< 5.0	< 0.4	0.9	< 1.0	< 0.5	0.7	< 4.0	3.5	10	6200	2700	8	< 10	< 10	7240	< 5.0	16	76	< 15	2	1.4	6.2	26.6	< 10
BH034A/A		323796					2400	11	110	< 0.08	< 5.0	5.7	1.9	28	< 0.5	4.9	< 4.0	6.5	32	12000	2900	8.1	< 10	< 10	147000	< 5.0	35	930	< 15	11	0.3	1.5	41	< 10
BH034A/B		323797					150	3.9	3.9	110	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	1.1	< 4.0	4.8	< 0.4	44000	8900	7.7	< 10	< 10	32600	< 5.0	36	380	54	1.2	0.5	2	146	< 10
SW4		323798					12	< 1.0	11	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	< 0.3	< 4.0	6.8	< 0.4	21000	5600	7.9	< 10	< 10	14200	< 5.0	19	110	< 15	2.3	2.3	10	76.5	< 10
SW2		323799					42	1.7	< 10	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	0.7	< 4.0	4.4	2.9	12000	4100	8	< 10	< 10	11200	< 5.0	16	84	< 15	2.2	1.6	6.9	47.6	< 10
SW3		323800					51	< 1.0	< 10	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	0.5	< 4.0	6.5	2.1	19000	5700	8	< 10	< 10	13700	< 5.0	40	91	< 15	2.5	2.9	13	71.6	< 10
BH012/A		323801					150	1.6	< 10	< 0.08	< 5.0	1.4	< 0.7	6.9	< 0.5	2.4	< 4.0	2.7	41	20000	9000	7.8	< 10	< 10	17600	< 5.0	45	94	< 15	2	3	13	87.2	< 10
BH012/B		323802					140	1.9	< 10	< 0.08	< 5.0	0.4	2.1	6.3	< 0.5	3.4	< 4.0	2.4	63	19000	8700	7.7	< 10	< 10	17500	< 5.0	45	93	91	2.6	2.9	13	83.8	< 10
BH074/A		323803					640	2.8	< 10	< 0.08	< 5.0	0.6	< 0.7	< 1.0	< 0.5	0.9	< 4.0	3	0.8	12000	3200	7.5	< 10	< 10	8190	< 5.0	11	89	< 15	0.7	3.5	15	42.1	< 10
SW6		323804					22	1.4	< 10	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	0.8	< 4.0	6.8	0.6	15000	4100	7.8	< 10	< 10	9080	< 5.0	13	96	< 15	2.9	1.2	5.2	54.4	< 10
BH066A		323805					760	7.4	16	< 0.08	< 5.0	12	9.3	8.5	< 0.5	1.8	27	< 1.7	18	6100	1300	10.4	< 10	< 10	78200	< 5.0	12	160	79	7.9	2.3	10	20.8	< 10
BH060/A		323806					220	< 1.0	< 10	< 0.08	< 5.0	0.5	1.3	2.6	< 0.5	5.4	< 4.0	2.8	200	21000	20000	8.3	< 10	< 10	24300	< 5.0	180	130	< 15	3.5	0.4	1.9	135	< 10
BH060/B		323807					230	2.9	< 10	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	5.1	< 4.0	4.7	0.5	25000	21000	7.7	< 10	< 10	24900	< 5.0	260	120	< 15	3.8	0.4	1.6	148	< 10
BH055/A		323808					33	5.2	< 10	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	0.6	< 4.0	3.2	< 0.4	91000	16000	7.6	< 10	< 10	78900	< 5.0	25	150	< 15	0.9	0.4	1.8	293	< 10
BH053/A		323809					880	< 1.0	< 10	< 0.08	< 5.0	1.1	2.5	4.8	< 0.5	5.6	< 4.0	< 1.7	120	10000	4400	7.8	< 10	< 10	11900	< 5.0	14	98	< 15	3.7	4.7	21	44.1	< 10
BH053/B		323810					1400	< 1.0	< 10	< 0.08	< 5.0	1.9	< 0.7	2.9	< 0.5	3.5	< 4.0	4	3.4	17000	5700	7.6	< 10	< 10	8860	< 5.0	16	100	< 15	1.6	5.6	25	66.2	< 10
BH052/A		323811					1100	5.4	13	< 0.08	< 5.0	6.8	14	25	< 0.5	2.5	< 4.0	7.9	19	4000	7000	9.6	< 10	< 10	36500	< 5.0	11	150	620	4.1	0.4	1.6	38.6	< 10
BH024/A		323812					240	2.5	< 10	< 0.08	< 5.0	0.4	12	3.4	< 0.5	2.3	< 4.0	4.6	17	21000	5600	8.7	< 10	< 10	15700	< 5.0	11	130	< 15	4.6	2	8.9	74.3	< 10
BH034/B		323813					550	1	< 10	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	3.5	< 4.0	3.9	< 0.4	47000	10000	8.2	< 10	< 10	21800	< 5.0	11	150	< 15	2.2	1.6	7.1	159	< 10
BH004/A		323814					450	2.8	15	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	1	< 4.0	3	< 0.4	25000	9600	8.1	< 10	< 10	28600	< 5.0	15	310	< 15	2.3	6.8	30	101	< 10
BH004/B		323815					150	1.8	< 10	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	< 0.3	< 4.0	8.5	< 0.4	42000	11000	8	< 10	< 10	16900	< 5.0	13	120	< 15	1.1	5.2	23	152	< 10
SW5		323816					12	1.6	< 10	< 0.08	< 5.0	< 0.4	< 0.7	< 1.0	< 0.5	< 0.3	< 4.0	3.8	< 0.4	23000	7600	8	< 10	< 10	17400	< 5.0	20	100	< 15	2.2	3.5	16	89.9	< 10
BH4a		342329					310	3	44	< 0.08	< 5.0	< 0.4	2.2	< 1.0	< 0.5	2.2	< 4.0	< 1.7	< 0.4	53000	9700	7.7	< 10	< 10	82400	< 5.0	13	270	110	2.53	3.7	16	172	< 10
BH4b		342330					670	2	22	< 0.08	< 5.0	0.8	3.5	< 1.0	< 0.5	1.9	< 4.0	< 1.7	14	49000	7800	7.3	< 10	< 10	14100	< 5.0	11	76	< 15	1.67	4.9	22	155	< 10
BH12a		342331					2100	1.3	19	< 0.08	< 5.0	1.8	7.3	10	< 0.5	4	< 4.0	3.1	18	39000	8500	7.3	< 10	< 10	27900	< 5.0	29	120	< 15	5.62	2.5	11	133	< 10
BH12b		342332					3400	2.1	14	< 0.08	< 5.0	4.1	2.7	2.2	< 0.5	6.6	< 4.0	6.7	7.2	15000	7200	7.3	< 10	< 10	24300	< 5.0	48	85	< 15	14.1	1.6	6.9	66.6	< 10
BH34a		342333					1100	2.1	25	< 0.08	< 5.0	2	17	6.5	< 0.5	4.7	< 4.0	3.2	12	33000	3700	7.2	< 10	< 10	17000	< 5.0	6	110	< 15	9.63	1.7	7.5	97.1	< 10
BH34Aa		342334					790	< 1.0	180	< 0.08	< 5.0	2.2	18	11	< 0.5	5.5	< 4.0	6.6	18	12000	3100	8.5	< 10	< 10	3260000	< 5.0	45	1100	110	20	0.4	1.6	42.2	< 10
BH34Ab		342335					2100	3.8	140	< 0.08	< 5.0	2.1	0.8	3	< 0.5	2.4	< 4.0	6.3	2.4	51000	9300	7.9	< 10	< 10	42300	< 5.0	39	320	49	1.46	< 0.3	< 1.1	165	< 10
BH35a		342336					2000	11	23	< 0.08	12	18	27	19	< 0.5	3.7	< 4.0	17.5	19	13000	510	12.3	< 10	< 10	46200	< 5.0	18	360	1200	10.2	< 0.3	< 1.1	35.3	< 10
BH53a		342337					500	3	30	< 0.08	< 5.0	< 0.4	1.8	22	< 0.5	2.5	< 4.0	2.6	13	42000	6700	9.1	< 10	< 10	15500	< 5.0	15	120	< 15	1.98	2.8	13	132	< 10
BH53b		342338					620	1.4	17	< 0.08	< 5.0	0.7	2.2	2.3	< 0.5	2.9	< 4.0	1.9	< 0.4	30000	4300	7.7	< 10	< 10	10200	< 5.0	5	22	< 15	4.79	5	22	93.7	< 10
BH55a		342339					1300	3.4	16	< 0.08	< 5.0	0.9	< 0.7	2.1	< 0.5	2.4	< 4.0	2.2	4.4	100000	14000	7.6	< 10	< 10	84000	< 5.0	19	140	< 15	0.77	0.8	3.5	311	< 10
BH60a		342340					3000	3.7	25	0.37	< 5.0	2.4	5.1	6	< 0.5	9.1	< 4.0	6.4	7.9	91000	24000	7.2	< 10	< 10	32500	< 5.0	260	130	< 15	2.85	0.4	1.9	326	< 10
BH60b		342341					2700	4.4	20	< 0.08	< 5.0	2.4	3.6	2.9	< 0.5	8.5	< 4.0	< 1.7	3.5	39000	16000	6.9	< 10	< 10	37600	< 5.0	180	150	< 15	4.04	< 0.3	< 1.1	162	< 10
BH66a		342342					240	2.1	26	< 0.08	16	20	9.3	8.9	< 0.5	0.4	9.3	3.1	2.2	7500	110	12.2	< 10	< 10	68800	< 5.0	19	180	340	3.07	0.3	1.5	19.1	< 10
BH74a		342343					4100	3.1	20	< 0.08	< 5.0	3.1	3.1	4	< 0.5	3.2	< 4.0	7.7	9.3	21000	4100	8.3	< 10	< 10	10300	< 5.0	10	70	< 15	0.6	4.1	18	69.3	< 10
SW1		342344					190	< 1.0	< 10	< 0.08	< 5.0	< 0.4	3	1.8	< 0.5	1.2	< 4.0	2.3	9.2	7700	2400	8.5	< 10	< 10	6730	< 5.0	11	50	< 15	3.65	1	4.3	29.1	< 10
SW2		342345					280	2.2	< 10	< 0.08	< 5.0	< 0.4	4.2	2.8	< 0.5	1.6	< 4.0	< 1.7	2.3	16000	3500	8.3	< 10	< 10	10000	< 5.0	11	63	< 15	4.72	0.9	3.9	54	< 10
SW3		342346					320	3.7	13	< 0.08	< 5.0	< 0.4	3.6	1.2	< 0.5	1	< 4.0	< 1.7	< 0.4	31000	4800	8.2	< 10	< 10	10200	< 5.0	19	76	< 15	5.29	1.9	8.6	97.5	< 10
SW4		342347					250	2.1	13	< 0.08	< 5.0	< 0.4	2.8	2.1	< 0.5	1	< 4.0	< 1.7	1.3	30000	4400	8.2	< 10	< 10	11200	< 5.0	13	79	< 15	3.98	1.6	7.3	93.9	< 10
SW5		342348					150	2.7	16	< 0.08	< 5.0	< 0.4	2.8	1.4	< 0.5	0.9	< 4.0	< 1.7	< 0.4	37000	6300	8	< 10	< 10	14700	< 5.0	14	85	22	5.34	1.8	8	118	< 10
SW6		342349					340	2.1	23	< 0.08	< 5.0	< 0.4	4.1	1.9	< 0.5	1.5	< 4.0	< 1.7	2.6	24000	4300	7.9	< 10	< 10	8720	< 5.0	8.6	86	< 15	4.12	0.6	2.6	77.1	< 10
BH34 b		342948					81	< 1.0	25	< 0.08	< 5.0	< 0.4	5.8	< 1.0	< 0.5	5.9	< 4.0	< 1.7	2.6	79000	14600	7.3	< 10	< 10	39900	< 5.0	11	170	230	4.38	1.3	5.8	253	< 10
						Number of samples	75	75	75	75	75	75	75	75	75	75	75	75	75	3500.0	76	75	75	75	75	75	75	75	75	75	75	75	75	75	75
						Minimum value	12.0	1.0	10.0	0.1	5.0	0.4	0.7	1.0	0.5	0.3	4.0	1.7	0.4	3500.0	110.0	6.9	10.0	10.0	6730.0	5.0	6.0	50.0	15.0	0.6	0.3	1.1	19.1	10.0
						Maximum value	10000.0	13.0	210.0	0.4	28.0	40.0	41.0	28.0	0.5	10.0	27.0	29.0	200.0	140000.0	24000.0	12.3	10.0	10.0	478000.0	5.0	260.0	1100.0	1200.0	20.0	7.3	32.0	420.0	10.0
						Second highest value	4100.0	11.0	190.0	0.1	16.0	20.0	27.0	26.0	0.5	9.5	9.3	22.0	120.0	100000.0	21000.0	12.2	10.0	10.0	326000.0	5.0	260.0	930.0	660.0	19.0	7.1	31.0	326.0	10.0
						Range	12- 10000	1- 13	10- 210	0.08- 0.37	5- 28	0.4- 40	0.7- 41	1- 28	0.5- 0.5	0.3- 10	4- 27	1.7- 29	0.4- 200	3500- 140000	110- 24000	6.9- 12.3	10- 10	10- 10	6730- 478000	5- 5	6- 260	50- 1100	15- 1200	0.6- 20	0.3- 7.3	1.1- 32	19.1- 420	10- 10
						Average concentration	1085.5	3.0	34.0	0.1	5.5	3.0	5.0	5.1	0.5	3.1	4.4	6.0	13.8	35948.0	6547.6	8.1	10.0	10.0	38099.5	5.0	34.0	165.4	72.9	4.4	2.1	9.2	114.7	10.0
						Number of exceedances	53	3	0	0	0	0	0	13	0	0	1	0	0	0	0	0	0	0	0	0	2	0	3	0	0	0	0	75
						% above assessment criteria	70.67	4.00	0.00	0.00	0.00	0.00	0.00	17.33	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	4.00	0.00	0.00	0.00	0.00	100.00
						Assessment criteria	200.0	10.0	1000.0	5.0	-	50.0	2000.0	10.0	1.0	20.0	10.0	-	-	-	-	-	50.0	-	-	-	250.0	1500.0	500.0	-	-	50.0	-	1.0
						Source of assessment criteria	DWS	DWS	DWS	DWS		DWS	DWS	DWS	DWS	DWS	DWS	-	-	-	-	-	DWS	-	-	-	DWS	DWS	DWS	-	-	DWS	-	DWS*

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Newtown Bypass
Surface Water Screening
0
PAHs

Exceedences of the guideline value

Sample Location	Depth (mbgl)	Lab Sample	Coordinates x	Coordinates y	Determinand	Total EPA-16 PAHs	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracen	Benzo(ghi)perylene
					Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
					Method Detection Limit	0.2	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	0.01	0.01
SW1		291838				< 0.20	<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	< 0.01	< 0.01
SW2		291839				< 0.20	< 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	< 0.01	< 0.01
SW4		291840				< 0.20	< 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	< 0.01	< 0.01
SW5		291841				< 0.20	< 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	< 0.01	< 0.01
SW1		306789	Results invalid due to delay in l			< 0.20	< 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	< 0.01	< 0.01
SW2		306790	Results invalid due to delay in l			< 0.20	< 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	< 0.01	< 0.01
SW4		306792	Results invalid due to delay in l			< 0.20	< 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	< 0.01	< 0.01
SW5		306793	Results invalid due to delay in l			< 0.20	< 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	< 0.01	< 0.01
SW6		306794	Results invalid due to delay in l			1.78	1.8	< 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	< 0.01
SW1		313727				< 0.20	< 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	< 0.01	< 0.01
SW2		313730				< 0.20	< 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	< 0.01	< 0.01
SW3		313731				< 0.20	< 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	< 0.01	< 0.01
SW4		313732				< 0.20	< 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	< 0.01	< 0.01
SW5		313286				< 0.20	< 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	< 0.01	< 0.01
SW6		313733				< 0.20	< 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	< 0.01	< 0.01
BH004A		313728				< 0.20	< 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	< 0.01	< 0.01
BH004B		313729				< 0.20	< 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	< 0.01	< 0.01
BH12		313281				< 0.20	< 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	< 0.01	< 0.01
BH12		313282				< 0.20	< 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	< 0.01	< 0.01
BH34		313278				< 0.20	< 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	< 0.01	< 0.01
BH34		313279				< 0.20	< 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	< 0.01	< 0.01
BH34A		313276				< 0.20	< 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	< 0.01	< 0.01
BH34A		313277				< 0.20	< 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	< 0.01	< 0.01
BH35		313280				< 0.20	< 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	< 0.01	< 0.01
BH53		313283				< 0.20	< 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	< 0.01	< 0.01
BH53		313284				< 0.20	< 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	< 0.01	< 0.01
BH55		313285				< 0.20	< 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	< 0.01	< 0.01
BH060A		313736				< 0.20	< 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	< 0.01	< 0.01
BH060B		313737				< 0.20	< 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	< 0.01	< 0.01
BH066A		313735				< 0.20	< 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	< 0.01	< 0.01
BH074A		313734				< 0.20	< 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	< 0.01	< 0.01
SW1		323795				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH034A/A		323796				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH034A/B		323797				< 0.20	< 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	< 0.001	< 0.01	< 0.001
SW4		323798				< 0.20	< 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	< 0.001	< 0.01	< 0.001
SW2		323799				< 0.20	< 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	< 0.001	< 0.01	< 0.001
SW3		323800				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH012/A		323801				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH012/B		323802				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH074/A		323803				< 0.20	< 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	< 0.001	< 0.01	< 0.001
SW6		323804				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH066/A		323805				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH060/A		323806				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH060/B		323807				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH055/A		323808				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH053/A		323809				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH053/B		323810				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH035/A		323811				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH034/A		323812				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH034/B		323813				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH004/A		323814				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH004/B		323815				< 0.20	< 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	< 0.001	< 0.01	< 0.001
SW5		323816				< 0.20	< 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	< 0.001	< 0.01	< 0.001
BH4a		342329				< 0.20	< 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	< 0.01	< 0.01
BH4b		342330				< 0.20	< 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	< 0.01	< 0.01
BH12a		342331				< 0.20	< 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	< 0.01	< 0.01
BH12b		342332				< 0.20	< 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	< 0.01	< 0.01
BH34a		342333				< 0.20	< 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	< 0.01	< 0.01
BH34Aa		342334				< 0.20	< 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	< 0.01	< 0.01
BH34Ab		342335				< 0.20	< 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	< 0.01	< 0.01
BH35a		342336				< 0.20	< 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	< 0.01	< 0.01
BH53a		342337				< 0.20	< 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	< 0.01	< 0.01
BH53b		342338				< 0.20	< 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	< 0.01	< 0.01
BH55a		342339				< 0.20	< 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	< 0.01	< 0.01
BH60a		342340				< 0.20	< 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	< 0.01	< 0.01
BH60b		342341				< 0.20	< 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	< 0.01	< 0.01
BH66a		342342				< 0.20	< 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	< 0.01	< 0.01
BH74a		342343				< 0.20	< 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	< 0.01	< 0.01
SW1		342344				< 0.20	< 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	< 0.01	< 0.01
SW2		342345				< 0.20	< 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	< 0.01	< 0.01
SW3		342346				< 0.20	< 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	< 0.01	< 0.01
SW4		342347				< 0.20	< 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	< 0.01	< 0.01
SW5		342348				< 0.20	< 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	< 0.01	< 0.01
SW6		342349				< 0.20	< 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	< 0.01	< 0.01
BH34 b		342948				< 0.20	< 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	< 0.01	< 0.01
Number of samples						**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**
Minimum value						**0.20**	**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**	**0.00**	**0.01**	**0.00**
Maximum value						**1.78**	**1.80**	**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**	**0.01**
Second highest value						**0.20**	**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**	**0.01**	**0.01**
Range						**0.2- 1.78**	**0.01- 1.8**	**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**	**0.01- 0.01**	**0.01- 0.01**	**0.01- 0.01**	**0.01- 0.01**	**0.01- 0.01**	**0.001- 0.01**	**0.01- 0.01**	**0.001- 0.01**
Average concentration (µg/l)						**0.22**	**0.03**	**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**	**0.01**
Number of exceedances						**75**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**75**	**0**	**0**	**53**
% above assessment criteria						**100.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**100.00**	**0.00**	**0.00**	**70.67**
Assessment Criteria (µg/l)						**0.10**	**10.00**	**-**	**-**	**-**	**-**	**-**	**0.10**	**-**	**-**	**-**	**0.03**	**0.03**	**0.01**	**-**	**-**	**0.002**
Source of assessment criteria						**DWS**	**EQS**	**-**	**-**	**-**	**-**	**-**	**EQS**	**-**	**-**	**-**	**EQS**	**EQS**	**DWS**	**-**	**-**	**EQS**

Newtown Bypass
Surface Water Screening
0
TPH

Exceedences of the guideline value

Sample Location	Depth (mbgl)	Lab Sample Number(s)	Coordinates x	Coordinates y	Determinand	TPH-CWG - Aliphatic >C5 - C6	TPH-CWG - Aliphatic >C6 - C8	TPH-CWG - Aliphatic >C8 - C10	TPH-CWG - Aliphatic >C10 - C12	TPH-CWG - Aliphatic >C12 - C16	TPH-CWG - Aliphatic >C16 - C21	TPH-CWG - Aliphatic >C21 - C35	TPH-CWG - Aliphatic (C5 - C35)	TPH-CWG - Aromatic >C5 - C7	TPH-CWG - Aromatic >C7 - C8	TPH-CWG - Aromatic >C8 - C10	TPH-CWG - Aromatic >C10 - C12	TPH-CWG - Aromatic >C12 - C16	TPH-CWG - Aromatic >C16 - C21	TPH-CWG - Aromatic >C21 - C35	TPH-CWG - Aromatic (C5 - C35)
					Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
					Method Detection Limit	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
SW1		291838			[redacted]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW2		291839				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW4		291840				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW5		291841				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW1		306789	Results invalid due to delay			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW2		306790	Results invalid due to delay			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW4		306792	Results invalid due to delay			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW5		306793	Results invalid due to delay			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW6		306794	Results invalid due to delay			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW1		313727				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW2		313730				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW3		313731				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW4		313732				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW5		313286				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW6		313733				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH004A		313728				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH004B		313729				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH12		313281				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH12		313282				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH34		313278				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH34		313279				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH34A		313276				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH34A		313277				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH35		313280				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH53		313283				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH53		313284				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH55		313285				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH060A		313736				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH060B		313737				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH066A		313735				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH074A		313734				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW1		323795				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH034A/A		323796				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH034A/B		323797				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW4		323798				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW2		323799				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW3		323800				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH012/A		323801				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH012/B		323802				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH074/A		323803				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW6		323804				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH066/A		323805				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH060/A		323806				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH060/B		323807				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH055/A		323808				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH053/A		323809				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH053/B		323810				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH035/A		323811				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH034/A		323812				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH034/B		323813				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH004/A		323814				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH004/B		323815				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW5		323816				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH4a		342329				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH4b		342330				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH12a		342331				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH12b		342332				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH34a		342333				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH34Aa		342334				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH34Ab		342335				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH35a		342336				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH53a		342337				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH53b		342338				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH55a		342339				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH60a		342340				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH60b		342341				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH66a		342342				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH74a		342343				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW1		342344				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW2		342345				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW3		342346				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW4		342347				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW5		342348				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SW6		342349				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BH34 b		342948				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
					Number of samples	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
					Minimum value	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
					Maximum value	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
					Second highest value	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
					Range	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10	10- 10
					Average concentration (µg/l)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
					Number of exceedances	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
					% above assessment criteria	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	0.00	1.33	0.00
					Assessment criteria (µg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Source of assessment criteria																

Newtown Bypass
Surface Water Screening

0

VOCs and BTEX

Exceedences of the guideline value

Sample Location	Depth (mbgl)	Lab Sample Number(s)	Coordinates x	y	Determinand Units	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	p & m-xylene ug/l	o-xylene ug/l	MTBE (Methyl Tertiary Butyl Ether) ug/l
					Method Detection Limit	1	1	1	1	1	1
SW1		291839				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW2		291839				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW4		291840				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW5		291841				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW1		306789				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW2		306790				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW4		306792				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW5		306793				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW6		306794				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW1		312727				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW2		312730				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW3		312731				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW4		312732				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW5		312286				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW6		312733				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH05AA		312728				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH04AB		312729				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH12		312261				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH17		312262				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34		312278				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34		312279				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34		312280				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH04A		312277				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH35		312280				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH53		312263				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH53		312264				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH52		312265				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH05A		312739				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH06B		312737				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH06A		312735				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH07AA		312734				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW3		323795				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH03AA		323796				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH03AB		323797				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW1		323798				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW2		323799				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW3		323800				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH11A		323801				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH11B		323802				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH07AA		323803				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW4		323804				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH06A		323805				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH06A		323806				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH06B		323807				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH05A		323808				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH53A		323809				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH53B		323810				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34A		323811				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34A		323812				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34B		323813				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH04A		323814				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH04B		323815				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW5		323816				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH4a		342329				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH4b		342330				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH12a		342331				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH12b		342332				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34a		342333				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34Aa		342334				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34Ab		342335				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH35A		342336				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH53a		342337				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH53b		342338				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH55a		342339				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH60a		342340				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH60b		342341				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH61a		342342				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH74a		342343				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW1		342344				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW2		342345				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW3		342346				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW4		342347				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW5		342348				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW6		342349				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SH34 b		342348				< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
					Number of samples	75	75	75	75	75	75
					Minimum value	1.00	1.00	1.00	1.00	1.00	1.00
					Maximum value	1.00	1.00	1.00	1.00	1.00	1.00
					Second highest value	1.00	1.00	1.00	1.00	1.00	1.00
					Range	1- 1	1- 1	1- 1	1- 1	1- 1	1- 1
					Average concentration (mg/l)	1.00	1.00	1.00	1.00	1.00	1.00
					Number of exceedences	75	75	0	0	0	0
					% above assessment criteria	100.00	100.00	0.00	0.00	0.00	0.00
					Assessment Criteria (ug/l)	1.00	0.50	20.00	30.00	30.00	-
					Source of assessment criteria	DWS	UK proto-col-n of SW Quality	NON STAT EQS	EQS	EQS	-

Newtown Bypass
Leachate Screening 10:1

Metals

Exceedances of the guideline value

Sample Location	Depth (mbgl)	Lab Sample Number(s)	Coordinates x	Coordinates y	Determinand	Arsenic	Cadmium	Chromium	Lead	Mercury	Selenium	Copper	Nickel	Zinc	Hexavalent Chrom	Vanadium	Boron	Phosphate as S	Chloride	Dissolved Organic Ca	Sulphide	Cyanide (total)	Cyanide (free)	Nitrate as NO3	Ammonical Nitrogen
					Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
					Method Detection Limit	0.05	0.002	0.005	0.02	0.01	0.04	0.002	0.005	0.004	0.05	0.05	0.05	1	15	0.5	0.05	0.05	0.05	0.05	0.05
BH047	0.2	302354				< 0.050	< 0.0020	0.016	0.024	< 0.010	< 0.040	0.025	0.014	0.047	< 0.050	< 0.050	0.85	14	< 15	66	< 0.050	< 0.050	< 0.050	5.4	< 0.050
TP023	2	302355				< 0.050	< 0.0020	0.018	< 0.020	< 0.010	< 0.040	0.012	0.009	0.028	< 0.050	< 0.050	0.97	22	< 15	38	< 0.050	< 0.050	< 0.050	3.6	92
TP003	0.5	**302113**				< 0.050	< 0.0020	0.023	0.057	< 0.010	< 0.040	0.045	0.024	0.071	< 0.050	< 0.050	0.88	19	< 15	84	< 0.050	< 0.050	< 0.050	7.9	< 0.050
TP002	0.8	**302114**				< 0.050	< 0.0020	0.063	0.023	< 0.010	< 0.040	0.045	0.043	0.083	< 0.050	< 0.050	1.1	10	< 15	41	< 0.050	< 0.050	< 0.050	2	< 0.050
TP019	2	**302115**				< 0.050	< 0.0020	0.041	0.027	< 0.010	< 0.040	0.033	0.022	0.051	< 0.050	< 0.050	0.96	11	< 15	41	< 0.050	< 0.050	< 0.050	4.7	< 0.050
BH035	0.2	**287226**				0.065	< 0.0020	0.13	0.083	< 0.010	< 0.040	0.15	0.11	0.28	< 0.050	0.16	0.28	4	< 15	36	< 0.050	< 0.050	< 0.050	3.1	< 0.050
TP067	0.1	**287276**				0.09	< 0.0020	0.094	0.22	< 0.010	< 0.040	0.087	0.049	0.2	< 0.050	0.2	0.14	14	< 15	90	< 0.050	< 0.050	< 0.050	5.7	< 0.050
TP072	0.5	**287277**				< 0.050	< 0.0020	0.041	0.022	< 0.010	< 0.040	0.01	0.021	0.069	< 0.050	0.11	0.13	27	< 15	78	< 0.050	< 0.050	< 0.050	1.4	< 0.050
TP099	1	**289579**				< 0.050	< 0.0020	0.089	0.034	< 0.010	< 0.040	0.054	0.073	0.14	< 0.050	0.1	0.11	3.7	< 15	38	< 0.050	< 0.050	< 0.050	4.8	< 0.050
TP098	0.5	**289580**				< 0.050	0.0021	0.15	0.054	< 0.010	< 0.040	0.049	0.05	0.29	< 0.050	0.18	0.15	12	< 15	69	< 0.050	< 0.050	< 0.050	3.6	< 0.050
BH054	0.5	**289581**				< 0.050	< 0.0020	0.063	< 0.020	< 0.010	< 0.040	0.025	0.03	0.072	< 0.050	0.071	0.18	55	< 15	38	< 0.050	< 0.050	< 0.050	4.7	< 0.050
TP063	0.5	**289582**				< 0.050	< 0.0020	0.11	0.028	< 0.010	< 0.040	0.04	0.068	0.17	< 0.050	0.13	0.12	7.3	< 15	37	< 0.050	< 0.050	< 0.050	3.5	< 0.050
TP091	0.3	**289583**				< 0.050	< 0.0020	0.058	0.073	< 0.010	< 0.040	0.072	0.038	0.15	< 0.050	0.12	0.082	11	< 15	73	< 0.050	< 0.050	< 0.050	4.6	0.19
TT018	1	**289584**				< 0.050	< 0.0020	0.12	0.051	< 0.010	< 0.040	0.068	0.067	0.13	< 0.050	0.12	0.15	8.4	< 15	37	< 0.050	< 0.050	< 0.050	3.6	< 0.050
TP089	0.3	**289585**				0.058	< 0.0020	0.087	0.058	< 0.010	< 0.040	0.042	0.036	0.16	< 0.050	0.17	0.19	24	< 15	79	< 0.050	< 0.050	< 0.050	7.4	< 0.050
TP080	0.05	**291848**				< 0.050	< 0.0020	0.045	0.16	< 0.010	< 0.040	0.07	0.043	0.097	< 0.050	0.058	0.2	45	< 15	140	< 0.050	< 0.050	< 0.050	11	< 0.050
TP065	0.4	**291849**				< 0.050	< 0.0020	0.067	0.041	< 0.010	< 0.040	0.09	0.05	0.14	< 0.050	0.097	0.12	27	< 15	76	< 0.050	< 0.050	< 0.050	3.6	< 0.050
BH053	0.5	**292303**				< 0.050	< 0.0020	0.03	0.08	< 0.010	< 0.040	0.08	0.021	0.14	< 0.050	0.12	0.09	7	< 15	74	< 0.050	< 0.050	< 0.050	2.7	< 0.050
TP055A	0.2	**292306**				< 0.050	< 0.0020	0.024	0.09	< 0.010	< 0.040	0.052	0.024	0.12	< 0.050	0.051	< 0.050	5.3	< 15	58	< 0.050	< 0.050	< 0.050	4.2	0.15
TP057	1.9	**292531**				< 0.050	< 0.0020	0.052	0.026	< 0.010	< 0.040	0.044	0.029	0.082	< 0.050	0.15	0.099	9.4	33	38	< 0.050	< 0.050	< 0.050	1.4	0.16
TP056	0.5	**292532**				< 0.050	< 0.0020	0.12	0.055	< 0.010	< 0.040	0.073	0.056	0.18	< 0.050	0.16	0.18	22	< 15	45	< 0.050	< 0.050	< 0.050	3.8	< 0.050
TP060A	0.5	**292533**				< 0.050	< 0.0020	0.055	0.025	< 0.010	< 0.040	0.029	0.027	0.07	< 0.050	0.085	0.26	27	< 15	41	< 0.050	< 0.050	< 0.050	0.45	< 0.050
TP060	2.8	**292534**				< 0.050	< 0.0020	0.0093	< 0.020	< 0.010	< 0.040	0.014	< 0.0050	0.019	< 0.050	< 0.050	< 0.050	7.5	< 15	26	< 0.050	< 0.050	< 0.050	0.54	< 0.050
BH038	1	**295508**				< 0.050	< 0.0020	0.013	< 0.020	< 0.010	< 0.040	0.028	0.0099	< 0.0040	< 0.050	< 0.050	< 0.050	35	< 15	37	< 0.050	< 0.050	< 0.050	1.1	< 0.050
TP157	2	**295509**				< 0.050	< 0.0020	0.017	< 0.020	< 0.010	< 0.040	0.034	0.011	< 0.0040	< 0.050	< 0.050	< 0.050	13	< 15	47	< 0.050	< 0.050	< 0.050	0.73	0.5
TP158	0.5	**295510**				< 0.050	< 0.0020	0.047	< 0.020	< 0.010	< 0.040	0.038	0.024	< 0.0040	< 0.050	0.097	0.064	24	< 15	49	< 0.050	< 0.050	< 0.050	0.6	0.22
TT014	2	**295519**				< 0.050	< 0.0020	0.023	< 0.020	< 0.010	< 0.040	0.03	0.02	0.033	< 0.050	< 0.050	< 0.050	16	< 15	40	< 0.050	< 0.050	< 0.050	1.1	0.71
TP034	0.5	**297628**				< 0.050	< 0.0020	0.0091	0.053	< 0.010	< 0.040	0.049	0.033	0.07	< 0.050	< 0.050	0.17	43	< 15	120	< 0.050	< 0.050	< 0.050	8.6	1.7
BH007	0.3	**297629**				< 0.050	< 0.0020	0.012	0.041	< 0.010	< 0.040	0.03	0.02	0.034	< 0.050	< 0.050	0.096	20	< 15	120	< 0.050	< 0.050	< 0.050	6.1	1.2
TP050	0.3	**297637**				< 0.050	< 0.0020	0.011	0.036	< 0.010	< 0.040	0.012	0.02	0.03	< 0.050	< 0.050	0.057	12	< 15	93	< 0.050	< 0.050	< 0.050	1	< 0.050
BH034A	0.3	**297638**				< 0.050	< 0.0020	0.052	0.068	< 0.010	0.057	0.075	0.044	0.076	< 0.050	< 0.050	0.43	120	36	130	< 0.050	< 0.050	< 0.050	4.1	2.4
BH034A	1.2	**297639**				< 0.050	< 0.0020	0.036	0.097	< 0.010	< 0.040	0.096	0.042	0.077	< 0.050	< 0.050	0.38	86	17	120	< 0.050	< 0.050	< 0.050	2	17
BH071	0.30-0.50	**297652**				< 0.050	< 0.0020	0.039	0.096	< 0.010	< 0.040	0.091	0.048	0.12	< 0.050	< 0.050	0.18	14	< 15	110	< 0.050	< 0.050	< 0.050	6.1	0.54
TP167	0.2	**297653**				< 0.050	< 0.0020	0.025	0.062	< 0.010	< 0.040	0.06	0.03	0.088	< 0.050	< 0.050	0.12	17	< 15	110	< 0.050	< 0.050	< 0.050	13	0.74
TP167	1	**297654**				< 0.050	< 0.0020	0.025	< 0.020	< 0.010	0.063	0.04	0.021	0.055	< 0.050	< 0.050	0.17	13	18	87	< 0.050	< 0.050	< 0.050	3.7	1.8
TP159	0.5	**297655**				< 0.050	< 0.0020	0.02	0.092	< 0.010	< 0.040	0.15	0.032	0.088	< 0.050	< 0.050	0.16	32	< 15	120	< 0.050	< 0.050	< 0.050	11	0.88
TP159	1.6	**297656**				< 0.050	< 0.0020	0.012	0.048	< 0.010	0.048	0.065	0.034	0.046	< 0.050	< 0.050	0.24	310	< 15	130	< 0.050	< 0.050	< 0.050	3.8	15
BH066	1	**297939**				< 0.050	< 0.0020	0.021	0.03	< 0.010	< 0.040	0.09	0.02	0.063	< 0.050	< 0.050	0.098	11	< 15	29	< 0.050	< 0.050	< 0.050	1.7	< 0.050
TP032	0.2	**297949**				< 0.050	0.0026	0.016	0.021	< 0.010	< 0.040	0.085	0.028	0.13	< 0.050	< 0.050	0.1	61	54	120	< 0.050	< 0.050	< 0.050	5.7	0.079
TP103	1.8	**297950**				< 0.050	< 0.0020	0.014	< 0.020	< 0.010	< 0.040	0.04	0.0054	0.03	< 0.050	< 0.050	0.086	9	< 15	33	< 0.050	< 0.050	< 0.050	1.4	< 0.050
					Number of samples	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
					Minimum value	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	3.7	15.0	26.0	0.1	0.1	0.1	0.5	0.1
					Maximum value	0.1	0.0	0.2	0.2	0.0	0.1	0.2	0.1	0.3	0.1	0.2	1.1	310.0	54.0	140.0	0.1	0.1	0.1	13.0	92.0
					Second highest value	0.1	0.0	0.1	0.2	0.0	0.1	0.2	0.1	0.3	0.1	0.2	1.0	120.0	36.0	130.0	0.1	0.1	0.1	11.0	17.0
					Range	0.05- 0.09	.002- 0.002	0.0091- 0.15	0.02- 0.22	0.01- 0.01	.04- 0.06	0.01- 0.15	0.005- 0.11	.004- 0.2	0.05- 0.05	0.05- 0.2	0.05- 1.1	3.7- 310	15- 54	26- 140	0.05- 0.05	0.05- 0.05	0.05- 0.05	0.45- 13	0.05- 92
					Average concentration (mg/kg)	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.2	30.7	17.1	71.0	0.1	0.1	0.1	4.1	3.4
					Number of exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
					% above assessment criteria	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00
					Assessment criteria	0.2	10.0	1000.0	5.0	-	50.0	2000.0	10.0	1.0	20.0	10.0	-	-	-	-	-	50.0	-	-	0.5
					Source of assessment criteria	DWS	DWS	DWS	DWS		DWS	DWS	DWS	DWS	DWS	DWS	-	-	-	-	-	DWS	-	-	DWS

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CAT-WASTE SOIL

Classification Assessment Tool of Soil Wastes - Hazard Summary Sheet

McArdle ATKINS

Site Name	Newtown Bypass
Location	Newtown
Site ID	F1
Job Number	F1
Date	1/13/2014 10:28:15 AM
User Name	fiona.mcmillan@atkinsglobal.com
Company Name	Atkins

Hole ID	Sample Depth	Hazardous Waste Y/N	H1	H2	H3A	H3B	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15
BH013		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH010		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH014		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP025		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP025		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH047		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP023		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP115		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP115		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP001		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP106		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP168		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP003		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP002		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP019		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP021		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP067		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP067		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP072		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP072		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP073		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH035		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP076		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH036		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH055		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP079		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP099		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP100		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP098		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH054		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP063		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP094		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP091		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TT018		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH032		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH060		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP082		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP090		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP089		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP080		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH061		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP065		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP065		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP096		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP064		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH053		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP055A		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP055A		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP057		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP056		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP060A		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP060		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP060		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH062		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH038		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP157		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP158		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP055		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TT014		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TT014		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TT015		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH043		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP034		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH074		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH007		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP050		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH034A		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH034A		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH044		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP046		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH071	0.30-0.50	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP167		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP167		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP159		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP159		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH067		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP051		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH066		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH066		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP053		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP053		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH070		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP032		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP028		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP103		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP110		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP110		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP113		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP116		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP116		N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

CAT-WASTE SOIL

Classification Assessment Tool of Soil Wastes - Hazard Summary Sheet

McArdle ATKINS

Site Name	Newtown Bypass
Location	Newtown
Site ID	F1
Job Number	F1
Date	1/13/2014 10:28:35 AM
User Name	fiona.mcmillan@atkinsglobal.com
Company Name	Atkins

Hole ID	Sample Depth	Hazardous Waste Y/N	H1	H2	H3A	H3B	H4	H5	H6	H7	H8
BH034	1m	N	No	No	No	No	No	No	No	No	No
TP005	0.3m	N	No	No	No	No	No	No	No	No	No
TP011	0.5m	N	No	No	No	No	No	No	No	No	No
TP011	2m	N	No	No	No	No	No	No	No	No	No
TP010	1m	N	No	No	No	No	No	No	No	No	No
TP011A	0.5m	N	No	No	No	No	No	No	No	No	No
TP011A	2m	N	No	No	No	No	No	No	No	No	No
TP006	0.3m	N	No	No	No	No	No	No	No	No	No
TP009	0.3m	N	No	No	No	No	No	No	No	No	No
TP007	0.2m	N	No	No	No	No	No	No	No	No	No
TP011C	0.3m	N	No	No	No	No	No	No	No	No	No
TP011B	2m	N	No	No	No	No	No	No	No	No	No
TP011D	0.5m	N	No	No	No	No	No	No	No	No	No
TP014	1m	N	No	No	No	No	No	No	No	No	No

CAT-WASTE SOIL

Classification

McArdle ATKINS

McArdle ATKINS

Site Name	Newtown Bypass
Location	Newtown
Site ID	F1
Job Number	F1
Date	1/13/2014 10:28:35 AM
User Name	fiona.mcmillan@atkinsglobal.com
Company Name	Atkins

Hole ID	Sample Depth	Hazardous Waste Y/N	H9	H10	H11	H12	H13	H14	H15
BH034	1m	N	No	No	No	No	No	No	No
TP005	0.3m	N	No	No	No	No	No	No	No
TP011	0.5m	N	No	No	No	No	No	No	No
TP011	2m	N	No	No	No	No	No	No	No
TP010	1m	N	No	No	No	No	No	No	No
TP011A	0.5m	N	No	No	No	No	No	No	No
TP011A	2m	N	No	No	No	No	No	No	No
TP006	0.3m	N	No	No	No	No	No	No	No
TP009	0.3m	N	No	No	No	No	No	No	No
TP007	0.2m	N	No	No	No	No	No	No	No
TP011C	0.3m	N	No	No	No	No	No	No	No
TP011B	2m	N	No	No	No	No	No	No	No
TP011D	0.5m	N	No	No	No	No	No	No	No
TP014	1m	N	No	No	No	No	No	No	No

Appendix F.5

CSM Risk Assessments

Table F1: Land Contamination CSM and Risk Assessment during the Baseline, Construction and Operation Phases.

Source	Receptor	Pathway	Baseline			Construction			Operation		
			Probability	Consequence	Risk	Probability	Consequence	Risk	Probability	Consequence	Risk
ON SITE **Railway Land**	**Controlled Waters** Secondary Undifferentiated Superficial Aquifer Secondary B Bedrock Aquifer	Leaching of contaminants to groundwater in underlying aquifers.	Low likelihood	Minor	Very low risk	Likely	Minor	Low risk	Low likelihood	Minor	Very low risk
		Migration of contaminated water through preferential pathways (such as piling) to groundwater in underlying aquifers.	Unlikely	Minor	Very low risk	Likely	Minor	Low risk	Low likelihood	Minor	Very low risk
	Controlled Waters River Severn	Lateral migration of contaminated groundwater with discharge to surface water as base flow.	Low likelihood	Minor	Very low risk	Likely	Minor	Low risk	Low likelihood	Minor	Very low risk
		Discharge of contaminants entrained in surface water runoff followed by overland flow and discharge.	Low likelihood	Minor	Very low risk	Likely	Minor	Low risk	Low likelihood	Minor	Very low risk
ON SITE Agricultural Land	**Controlled Waters** Secondary A and Secondary Undifferentiated Superficial Aquifers Secondary B Bedrock Aquifer	Leaching of contaminants to groundwater in underlying aquifers.	Low likelihood	Minor	Very low risk	Likely	Minor	Low risk	Low likelihood	Minor	Very low risk
		Migration of contaminated water through preferential pathways (such as piling) to groundwater in underlying aquifers.	Unlikely	Minor	Very low risk	Low likelihood	Minor	Low risk	Unlikely	Minor	Very low risk
	Controlled Waters River Severn Mochre Brook	Lateral migration of contaminated groundwater with discharge to surface water as base flow.	Low likelihood	Minor	Very low risk	Likely	Minor	Low risk	Low likelihood	Minor	Very low risk

Source	Receptor	Pathway	Baseline			Construction			Operation		
			Probability	Consequence	Risk	Probability	Consequence	Risk	Probability	Consequence	Risk
	Dolfor Brook Unnamed streams	Discharge of contaminants entrained in surface water runoff followed by overland flow and discharge.	Low likelihood	Minor	Very low risk	Likely	Minor	Low risk	Low likelihood	Minor	Very low risk