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Site 1

Site 1 – Tier 1 Screening Assessment

Source Assessment	Score Matrix	Score	Rational/Comments
Leachate	1a	0.5	0.8ha C&D (Source: WCC and Atkins)
Gas	1b	0.5	0.8ha C&D (Source: WCC and Atkins)
Leachate Migration Pathway Assessment	Score Matrix	Score	Rational
Vertical Pathway (Aquifer Vulnerability)	2a	2	High
Horizontal Pathway (Groundwater Flow Regime)	2b	2	Lg Locally important sand/gravel aquifers
Surface Water Pathway	2c	2	possible direct linkage - to be mapped
Gas Migration Pathway Assessment	Score Matrix	Score	Rational
Assuming lateral migration (assuming receptor within 250m of source)	2d	3	GLs (graciofluvial sands and gravels). Farm shutding located c.270m from site boundary
Vertical migration (assuming receptor located above source)	2e	on puropired	No receptors located above source
Receptor Assessment	Score Matrix	Score	Rational
Residential dwellings with potential for private water supply	3a copyright	1	Nearest domestic dwelling located c.300m from site
Protected Areas	Consent 3b	3	SAC located within 50m
Aquifer	3c	3	Lg Locally important sand/gravel aquifers
Public Water Supplies	3d	0	No public water supplies within 1km of the site (Source: WCC)
Surface Water Bodies	3e	2	County Brook River located c.100m to north of site
Buildings and enclosed spaces used by humans or livestock	3f	0	Farm building located c.270m from site boundary

Site 1 – Tier 1 Risk Classification

	Source	Pathway	Receptor	% Score	Risk Classification
SPR1			(3e) Surface Water body	2	Low
SPR2		(2a,b&c) Groundwater and Surface Water migration	(3b) Protected Area (Surface Water dependent terrestrial ecosystem)	3	Low
SPR3	1		(3a) Private Well	1	Low
SPR4	(1a)	(2a&b) Groundwater	(3b) Protected Area (Groundwater dependent terrestrial ecosystem)	3	Low
SPR5	Leachate	Migration	(3c) Aquifer	2	Low
SPR6			(3d) Public Water Supply	0	No linkage
SPR7			(3e) Surface Water body	2	Low
SPR8			(3e) Surface Water body	3	Low
SPR9		(2c) Surface Water Migration	(3b) Protected Area (Surface Water dependent terrestrial ecosystem)	5	Low
SPR10	(1b) Landfill	(2d) Lateral migration in subsoil	(3f) Human Presence (Buildings, enclosed spaces)	0	Low
SPR11	Gas	(2e) Vertical Migration in subsoil	enclosed spaces)	0	No linkage

	Risk Classification
High	≥70% for any individual SPR linkage
Moderate	Between 40-70% for any individual SPR linkage
Low	≤40% for any individual SPR linkage

SITE RISK CLASSIFICATION	LOW

Site 2

Site 2 - Tier 1 Screening Assessment

Source Assessment	Score Matrix	Score	Rational/Comments
Leachate	1a	7	4.6ha MSW (Source: Muir, WCC and Atkins)
Gas	1b	7	4.6ha MSW (Source: Muir, WCC and Atkins)
Leachate Migration Pathway Assessment	Score Matrix	Score	Rational
Vertical Pathway (Aquifer Vulnerability)	2a	2	High
Horizontal Pathway (Groundwater Flow Regime)	2b	2	Lg Locally important sand/gravel aquifers
Surface Water Pathway	2 c	2	possible direct linkage - to be mapped
Gas Migration Pathway Assessment	Score Matrix	Score	Rational
Assuming lateral migration (assuming receptor within 250m of source)	2d	3	GLs (glacofluvial sands and gravels). Building located 50m from site boundary
Vertical migration (assuming receptor located above source)	2e	O PUR	No buildings located above source
Receptor Assessment	Score Matrix	or in the ore	Rational
Residential dwellings with potential for private water supply	3a consent of	2	Nearest domestic dwelling located c.70m from site
Protected Areas	3b	3	SAC located within 50m
Aquifer	3c	3	Lg Locally important sand/gravel aquifers
Public Water Supplies	3d	0	No public water supply within 1km of site (Source: WCC)
Surface Water Bodies	3e	3	County Brook River located c.50 from the site
Buildings and enclosed spaces used by humans or livestock	3f	5	Building located <50m from site boundary

Site 2 Tier 1 Risk Classification

	Source	Pathway	Receptor	% Score	Risk Classification
SPR1			(3e) Surface Water body	42	Moderate
SPR2		(2a,b&c) Groundwater and Surface Water migration	(3b) Protected Area (Surface Water dependent terrestrial ecosystem)	42	Moderate
SPR3		. 1	(3a) Private Well	23	Low
SPR4	(1a)	(2a&b) Groundwater	(3b) Protected Area (Groundwater dependent terrestrial ecosystem)	35	Low
SPR5	- Leachate	Migration	(3c) Aquifer	21	Low
SPR6		2	(3d) Public Water Supply	0	No linkage
SPR7			(3e) Surface Water body	35	Low
SPR8	1		(3e) Surface Water body	70	High
SPR9	(2c) Surface Water Migration		(3b) Protected Area (Surface Water dependent terrestrial ecosystem)	70	High
SPR10	(1b) Landfill	(2d) Lateral migration in subsoil	(37) Human Presence (Buildings,	70	High
SPR11	Gas	(2e) Vertical Migration in subsoil	enclosed spaces)	0	No linkage

1.	RiskClassification
High	≥70% forany individual SPR linkage
Moderate	Between 40-70% for any individual SPR linkage
Low	≤40% for any individual SPR linkage

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SITE RISK CLASSIFICATION	HIGH

Site 3A

Site 3A – Tier 1 Screening Assessment

Source Assessment	Score Matrix	Score	Rational/Comments
Leachate	1a	7	2ha, MSW (source WCC)
Gas	1b	7	2ha, MSW (source WCC)
Leachate Migration Pathway Assessment	Score Matrix	Score	Rational
Vertical Pathway (Aquifer Vulnerability)	2a	2	High
Horizontal Pathway (Groundwater Flow Regime)	2b	2	Lg Locally important sand/gravel aquifers
Surface Water Pathway	2c	2	possible direct linkage - to be mapped
Gas Migration Pathway Assessment	Score Matrix	Score	Rational
Assuming lateral migration (assuming receptor within 250m of source)	2d	3 off of any	GLs (glaciofluvial sands and gravels)
Vertical migration (assuming receptor located above source)	2e	A Puttledig Score	No receptors located above source
Receptor Assessment	Score Matrix	Score Score	Rational
Residential dwellings with potential for private water supply	For While	2	Nearest domestic dwellings located 175m and 230m from site (source: WCC)
Protected Areas	3b	3	SAC located within 50m
Aquifer	3с	3	Lg Locally important sand/gravel aquifers
Public Water Supplies	3d	0	No public water supplies within 1km
Surface Water Bodies	3e	2	County Brook River located c.70m to north of site (Source: WCC)
Buildings and enclosed spaces used by humans or livestock	3f	3	Enniskerry FC located 130m from site boundary

Site 3A – Tier 1 Risk Classification

	Source	Pathway	Receptor	% Score	Risk Classification
SPR1			(3e) Surface Water body	28	Low
SPR2	-	(2a,b&c) Groundwater and Surface Water migration	(3b) Protected Area (Surface Water dependent terrestrial ecosystem)	42	Moderate
SPR3		12	(3a) Private Well	23	Low
SPR4	(1a)	(2a&b) Groundwater	(3b) Protected Area (Groundwater dependent terrestrial ecosystem)	35	Low
SPR5	Leachate	Migration	(3c) Aquifer	21	Low
SPR6]		(3d) Public Water Supply	0	No linkage
SPR7			(3e) Surface Water body	23	Low
SPR8]		(3e) Surface Water body	47	Moderate
SPR9	(2c) Surface Water Migration		(3b) Protected Area (Surface Water dependent terrestrial ecosystem)	70	High
SPR10	(1b) Landfill	(2d) Lateral migration in subsoil	ecosystem) (3f) Human Presence (Bulldings, enclosed spaces)	42	Moderate
SPR11	Gas	(2e) Vertical Migration in subsoil	enclosed spaces)	0	No linkage

	Risk Classification
High	≥70% for any individual SPR linkage
Moderate	Between 40-70% for any individual SPR linkage
Low	≤40% for any individual SPR linkage

SITE RISK CLASSIFICATION	HIGH

Site 3B

Site 3B – Tier 1 Screening Assessment

Source Assessment	Score Matrix	Score	Rational/Comments
Leachate	1a	5	0.9ha, MSW (Source WCC, EPA)
Gas	1b	5	0.9ha, MSW (Source WCC, EPA)
Leachate Migration Pathway Assessment	Score Matrix	Score	Rational
Vertical Pathway (Aquifer Vulnerability)	2 a	2	High
Horizontal Pathway (Groundwater Flow Regime)	2b	2	Lg Locally important sand/gravel aquifers
Surface Water Pathway	2 c	0	No direct linkage
Gas Migration Pathway Assessment	Score Matrix	Score	Rational
Assuming lateral migration (assuming receptor within 250m of source)	2ď	3 off of any	GLs (glaciofluvial sands and gravels)
Vertical migration (assuming receptor located above source)	2e	Bruther Score	No receptors located above source
Receptor Assessment	Score Matrix	Score	Rational
Residential dwellings with potential for private water supply	Consessa Consessa	2	Nearest domestic dwelling c.100m from site boundary. Farm buildings and Enniskerry FC c.100m from site boundary
Protected Areas	3b	1	SAC located c.300m
Aquifer	3с	3	Lg Locally important sand/gravel aquifers
Public Water Supplies	3d	0	No public water supplies within 1km
Surface Water Bodies	3e	1	County Brook River located c.350m to north of site. Glencullen River located c.600m
Buildings and enclosed spaces used by humans or livestock	3f	3	Buildings located c.100m from site boundary

Site 3B - Tier 1 Risk Classification

	Source	Pathway	Receptor	% Score	Risk Classification
SPR1			(3e) Surface Water body	7	Low
SPR2		(2a,b&c) Groundwater and Surface Water migration	(3b) Protected Area (Surface Water dependent terrestrial ecosystem)	7	Low
SPR3	Leachate		(3a) Private Well	17	Low
SPR4		(2a&b) Groundwater	(3b) Protected Area (Groundwater dependent terrestrial ecosystem)	8	Low
SPR5		Migration	(3c) Aquifer	15	Low
SPR6			(3d) Public Water Supply	0	No linkage
SPR7			(3e) Surface Water body	8	Low
SPR8			(3e) Surface Water body	0	No linkage
SPR9		(2c) Surface Water Migration	(3b) Protected Area (Surface Water dependent terrestrial ecosystem) (3f) Human Presence (Buildings,	0	No linkage
SPR10	(1b) Landfill	(2d) Lateral migration in subsoil	(3F) Human Presence (Buildings,	30	Low
SPR11	Gas	(2e) Vertical Migration in enclosed spaces) subsoil		0	No linkage

	Risk Classification
High	≥70% fotany individual SPR linkage
Moderate	Between 40-70% for any individual SPR linkage
Low	≤40% for any individual SPR linkage

SITE RISK CLASSIFICATION	LOW

Site 3C

Site 3C - Tier 1 Screening Assessment

Source Assessment	Score Matrix	Score	Rational/Comments
Leachate	1a	5	07ha, MSW (Source: WCC)
Gas	1b	5	07ha, MSW (Source: WCC)
Leachate Migration Pathway Assessment	Score Matrix	Score	Rational
Vertical Pathway (Aquifer Vulnerability)	2a	2	High
Horizontal Pathway (Groundwater Flow Regime)	2b	2	Lg Locally important sand/gravel aquifers
Surface Water Pathway	2c	2	possible direct linkage - to be mapped
Gas Migration Pathway Assessment	Score Matrix	Score	Rational ෙ
Assuming lateral migration (assuming receptor within 250m of source)	2d	R Pullose South and	Official Sands and gravels)
Vertical migration (assuming receptor located above source)	2e	Rairouite tot	No receptors located above source
Receptor Assessment	Score Matrix	Score	Rational
Residential dwellings with potential for private water supply	For press	3	Nearest domestic dwelling c.70m from site boundary. Farm buildings c.50m from site boundary
Protected Areas	3b	3	SAC located within 50m
Aquifer	3с	3	Lg Locally important sand/gravel aquifers
Public Water Supplies	3d	0	No public water supplies within 1km
Surface Water Bodies	3e	3	County Brook River located c.50m to north of site (Source: WCC)
Buildings and enclosed spaces used by humans or livestock	3f	5	Farm buildings located c.50m from site boundary

Site 3C - Tier 1 Risk Classification

÷ <u> </u>	Source	Pathway	Receptor	% Score	Risk Classification
SPR1		p =	(3e) Surface Water body	30	Low
SPR2		(2a,b&c) Groundwater and Surface Water migration	(3b) Protected Area (Surface Water dependent terrestrial ecosystem)	30	Low
SPR3	(1a) Leachate	31 .	(3a) Private Well	25	Low
SPR4		(2a&b) Groundwater	(3b) Protected Area (Groundwater dependent terrestrial ecosystem)	25	Low
SPR5		Migration	(3c) Aquifer	15	Low
SPR6			(3d) Public Water Supply	0	No linkage
SPR7			(3e) Surface Water body	25	Low
SPR8		(2c) Surface Water Migration	(3e) Surface Water body	50	Moderate
SPR9			(3b) Protected Area (Surface Water dependent terrestrial ecosystem) (3f) Human Presence (Buildings,	50	Moderate
SPR10	(1b) Landfill	(2d) Lateral migration in subsoil	(3F) Human Presence (Buildings,	50	Moderate
SPR11	Gas	(2e) Vertical Migration in subsoil	enclosed spaces)	0	No linkage

	Risk Classification
High	≥70% focany individual SPR linkage
Moderate	Between 40-70% for any individual SPR linkage
Low	≤40% for any individual SPR linkage

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SITE RISK CLASSIFICATION	MODERATE