APPENDIX of the and other use. Tier 1 Risk Screening and Prioritisation Conserver considered Consent of copyright owner required for any other use.

<u>Site 1</u>

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 (glaciofluvial sands and gravels). Farm sbuilding located c.270m from site boundary |
| Vertical migration (assuming receptor located above source) | Ze | on puto oseried | No receptors located above source |
| Receptor Assessment | Score Matrix | ownscore | Rational |
| Residential dwellings with potential for private water supply | Sa copyris | 1 | Nearest domestic dwelling located c.300m from site |
| Protected Areas | Conserts 3b | 3 | SAC located within 50m |
| Aquifer | Зс | 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 |

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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 | | | (3a) Private Well | 1 | Low |
| SPR4 | (1a) | (2a&b) Groundwater | (3b) Protected Area (Groundwater dependent terrestrial ecosystem) | 3 | Low |
| SPR5 | | 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 | (3) Human Presence (Buildings, | 0 | Low |
| SPR11 | Gas | (2e) Vertical Migration in subsoil جوم ج | enclosed spaces) | 0 | Nolinkage |
| | | LON CON | | 2 | |

| | RiskClassification |
|----------|---|
| 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 |
|--------------------------|-----|
| | |

<u>Site 2</u>

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 | 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 (glaciofluvial sands and gravels). Building located 50m from site boundary |
| Vertical migration (assuming receptor located above source) | 2e | 0 pup | No buildings located above source |
| Receptor Assessment | Score Matrix | or institute | 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 | Зе | 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 | | | (3a) Private Well | 23 | Low |
| SPR4 | (1a) Leachate | (2a&b) Groundwater | (3b) Protected Area (Groundwater dependent terrestrial ecosystem) | 35 | Low |
| SPR5 | | Migration | (3c) Aquifer | 21 | Low |
| SPR6 | | ÷ | (3d) Public Water Supply | 0 | No linkage |
| SPR7 | | | (3e) Surface Water body | 35 | Low |
| SPR8 | | | (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 | (3) Human Presence (Buildings, | 70 | High |
| SPR11 | Gas | (2e) Vertical Migration in subsoil | enclosed spaces) | 0 | Nolinkage |

| 1 | RiskClassification |
|----------|---|
| 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 |
|--------------------------|------|
| | |

<u>Site 3A</u>

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 only any | GLs (glaciofluvial sands and gravels) |
| Vertical migration (assuming receptor located above source) | 2e | a purpose red | No receptors located above source |
| Receptor Assessment | Score Matrix | Score | Rational |
| Residential dwellings with potential for private water supply | 34 COPYINE | 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

| SPR1(3e) Surface Water body28LoSPR2(2a,b&c) Groundwater and Surface Water migration(3b) Protected Area (Surface Water dependent terrestrial ecosystem)42ModSPR3(1a) Leachate(2a&b) Groundwater (2a&b) Groundwater (2a&b) Groundwater(3b) Protected Area (3b) Protected Area (Groundwater dependent terrestrial ecosystem)35Lo | erate |
|---|--------|
| SPR2 (2a,b&c) Groundwater and Surface Water migration (3b) Protected Area (Surface Water dependent terrestrial ecosystem) 42 Mod SPR3 (3a) Private Well 23 Log SPR4 (1a) Logobate (2a&b) Groundwater (2a&b) Groundwater (3b) Protected Area (Groundwater dependent terrestrial ecosystem) 35 Log | erate |
| SPR3 (3a) Private Well 23 Lo SPR4 (1a) (2a&b) Groundwater (Groundwater dependent terrestrial ecosystem) 35 Lo | |
| SPR4 (1a) (2a&b) Groundwater (3b) Protected Area (Groundwater dependent 35 Loc | w |
| | w |
| SPR5 Migration (3c) Aquifer 21 Le | w |
| SPR6 (3d) Public Water Supply 0 No li | nkage |
| SPR7 (3e) Surface Water body 23 Lo | ow |
| SPR8 (3e) Surface Water body 47 Mod | lerate |
| SPR9 (2c) Surface Water Migration (3b) Protected Area Surface Water dependent terrestrial 70 H | igh |
| SPR10 (2d) Lateral migration in (1b) Landfill (2d) Lateral migration in subsoil (3f) Homan Presence (Buildings, 42 | lerate |
| SPR11 Gas (2e) Vertical Migration in Sector enclosed spaces) 0 No li subsoil subsoil Sector enclosed spaces) 0 No li | |

| | 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 |
|--------------------------|------|
| | |

<u>Site 3B</u>

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) | 2a | 2 | High | |
| Horizontal Pathway (Groundwater Flow Regime) | 2b | 2 | Lg Locally important sand/gravel aquifers | |
| Surface Water Pathway | 2c | 0 | No direct linkage | |
| Gas Migration Pathway Assessment | Score Matrix | Score | Rational | |
| Assuming lateral migration (assuming receptor within 250m of source) | 2d | 3 offy any | GLs (glaciofluvial sands and gravels) | |
| Vertical migration (assuming receptor located above source) | 2e | n purpose ited | No receptors located above source | |
| Receptor Assessment | Score Matrix of Score | | Rational | |
| Residential dwellings with potential for private water supply | Consensal copyris | 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 | Зc | 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 | Зf | 3 | Buildings located c.100m from site boundary | |

Site 3B – Tier 1 Risk Classification

| SPR1 | a second s | | | A PROPERTY | Classification |
|--|---|---|---|------------|----------------|
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | (2a,b&c) Groundwater and Surface Water migration | (3e) Surface Water body | 7 | Low |
| SPR2 | | | (3b) Protected Area (Surface Water dependent terrestrial ecosystem) | 7 | Low |
| SPR3 | | | (3a) Private Well | 17 | Low |
| SPR4 | (1a) Leachate | (1a) achate (2a&b) Groundwater Migration (2c) Surface Water Migration | (3b) Protected Area (Groundwater dependent terrestrial ecosystem) | 8 | Low |
| SPR5 | Leudinute | | (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 | | | (3b) Protected Area (Surface Water dependent terrestrial ecosystem) | 0 | No linkage |
| SPR10 (1 | 1b) Landfill | (2d) Lateral migration in subsoil | (3) Human Presence (Buildings, | 30 | Low |
| SPR11 | Gas | (2e) Vertical Migration in subsoil جرمہ | enclosed spaces) | 0 | No linkage |

| | RiskClassification |
|----------|---|
| High | ≥70% fociny 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 | 3 only any | GLs (glaciofluvial sands and gravels) | |
| Vertical migration (assuming receptor located above source) | 2e | a putpose uted | No receptors located above source | |
| Receptor Assessment | Score Matrix | Score | Rational | |
| Residential dwellings with potential for private water supply | FO NTE | 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 | Зе | 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 | |

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Site 3C – Tier 1 Risk Classification

| | Source | Pathway | Receptor | % Score | Risk Classification | |
|-------|---|--|---|--------------------------|------------------------|------------|
| SPR1 | | ran () a series of a series of the series o | (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 | | 30 g | (3a) Private Well | 25 | Low | |
| SPR4 | (1a) Leachate (2a&b) Groundwate Migration | (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 | | | (3e) Surface Water body | 50 | Moderate | |
| SPR9 | | (2c) Surface Water Migration | (3b) Protected Area Surface Water dependent terrestrial ecosystem) | 50 | Moderate | |
| SPR10 | (1b) Landfill | (2d) Lateral migration in subsoil | (j) Human Presence (Buildings, | 50 | Moderate | |
| SPR11 | Gas | (2e) Vertical Migration in subsoil | enclosed spaces) | O | No linkage | |

| ^c ost | | |
|------------------|---|--|
| | RiskClassification | |
| High | ≥70% fo€any individual SPR linkage | |
| Moderate | Between 40-70% for any individual SPR linkage | |
| Low | ≤40% for any individual SPR linkage | |

| SITE RISK CLASSIFICATION | MODERATE |
|--------------------------|----------|
| | |