Former Lossie Green Gasworks, Elgin

Location: Lossie Wynd, ELGIN
Estimated Area: 0.46 ha
National Grid Reference: 321597, 863204 (approximate centre point)
Current Use: Car park, northern part is amenity ground.

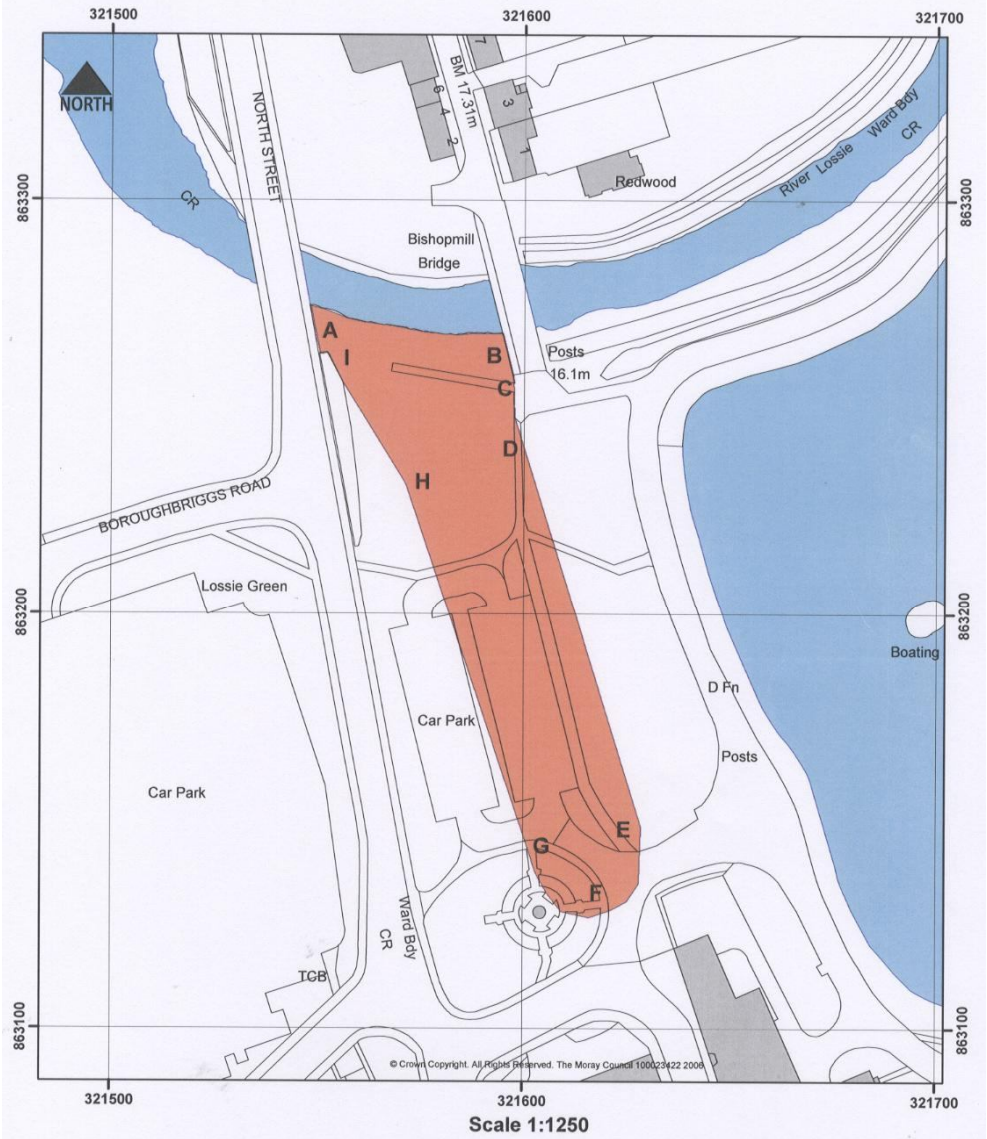
Pollutant Linkages

Linkage 1	Source: Arsenic leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 2	Source: Chromium leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 3	Source: Copper leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 4	Source: Zinc leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 5	Source: Iron leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 6	Source: Lead leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 7	Source: Nickel leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 8	Source: Total cyanide leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor:Drift (shallow) groundwater beneath the site
Linkage 9	Source: Complex cyanide leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 10	Source: Ammonium (total) leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 11	Source: Phenols leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 12	Source:Polycyclic aromatic hydrocarbons (total) leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor:Drift (shallow) groundwater beneath the site
Linkage 13	Source: Chloride leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 14	Source: Total petroleum hydrocarbons leaching from soils into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Drift (shallow) groundwater beneath the site
Linkage 17	Source: Copper in soils and drift groundwater beneath the site Pathway: Downward migration via groundwater Receptor: Devonian sandstone aquifer beneath the site
Linkage 18	Source: Zinc in soils and drift groundwater beneath the site Pathway: Downward migration via groundwater Receptor: Devonian sandstone aquifer beneath the site
Linkage 19	Source: Iron in soils and drift groundwater beneath the site Pathway: Downward migration via groundwater Receptor: Devonian sandstone aquifer beneath the site
Linkage 26	Source:Total polycyclic aromatic hydrocarbons in soils and drift groundwater beneath the site Pathway: Downward migration via groundwater Receptor:Devonian sandstone aquifer beneath the site
Linkage 33	Source:Iron in soils and drift groundwater beneath the site Pathway: Lateral migration via groundwater Receptor: River Lossie

Status
Remediation undertaken on northern part of site.

Former Lossie Green Gas Works, Lossie Wynd, Elgin

Appendix 1



Scale 1:1250

Grid References;
Site (Centre Point) - 321597, 863204
A - 321548, 863274 B - 321594, 863268
C - 321597, 863256 D - 321597, 863247
E - 321628, 863149 F - 321618, 863129
G - 321601, 863144 H - 321573, 863229
I - 321552, 863263

Former Elgin City Sawmills Site, Elgin

Site Address: Edgar Road, ELGIN
Estimated Area: 3.85ha
National Grid Reference: 321514 862022 (approximate centre point)
Current Use: Retail and car park, commercial premises.

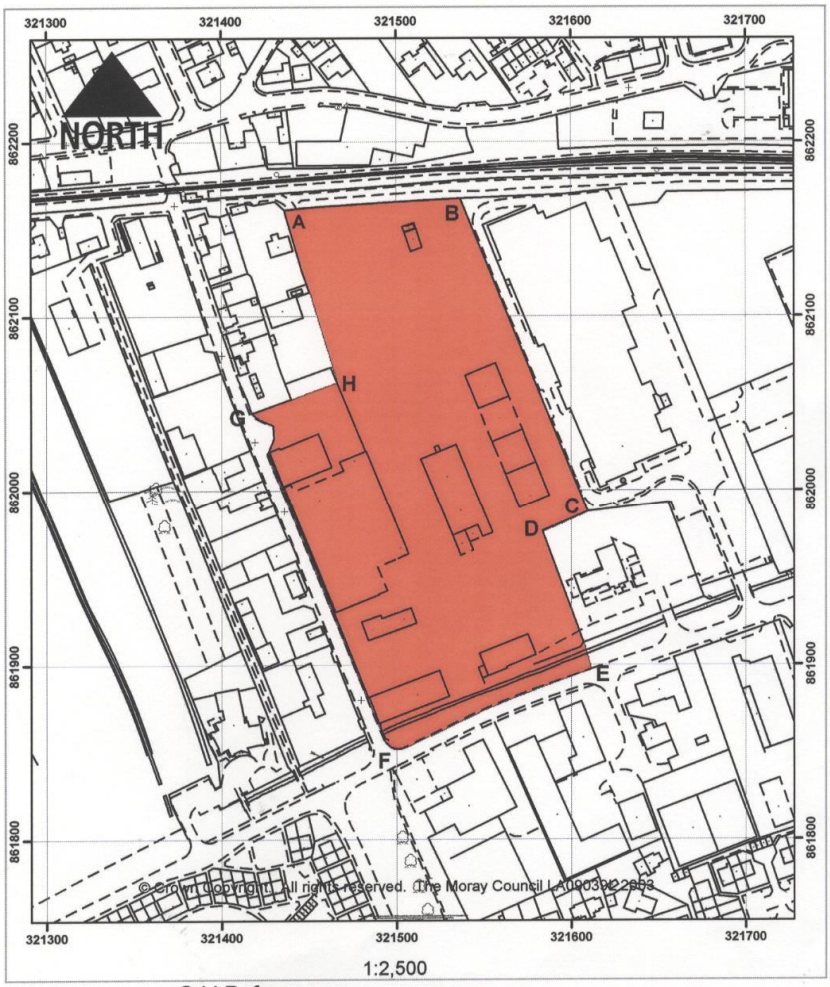
Pollutant Linkages

Linkage 1	Source: Dieldrin leaching from soil into porewater Pathway: Vertical and horizontal migration of porewater/leachate Receptor: Groundwater beneath the site
Linkage 2	Source: Dieldrin in groundwater beneath site Pathway: Lateral migration of groundwater, groundwater migration via drains on site (internal and external) Receptor: Tyock Burn

Status
Remediation undertaken, monitoring ongoing.

Appendix 1

Former Elgin City Sawmills site
The Wards, Elgin



Grid References
Site (Centre Point) 321514,862022

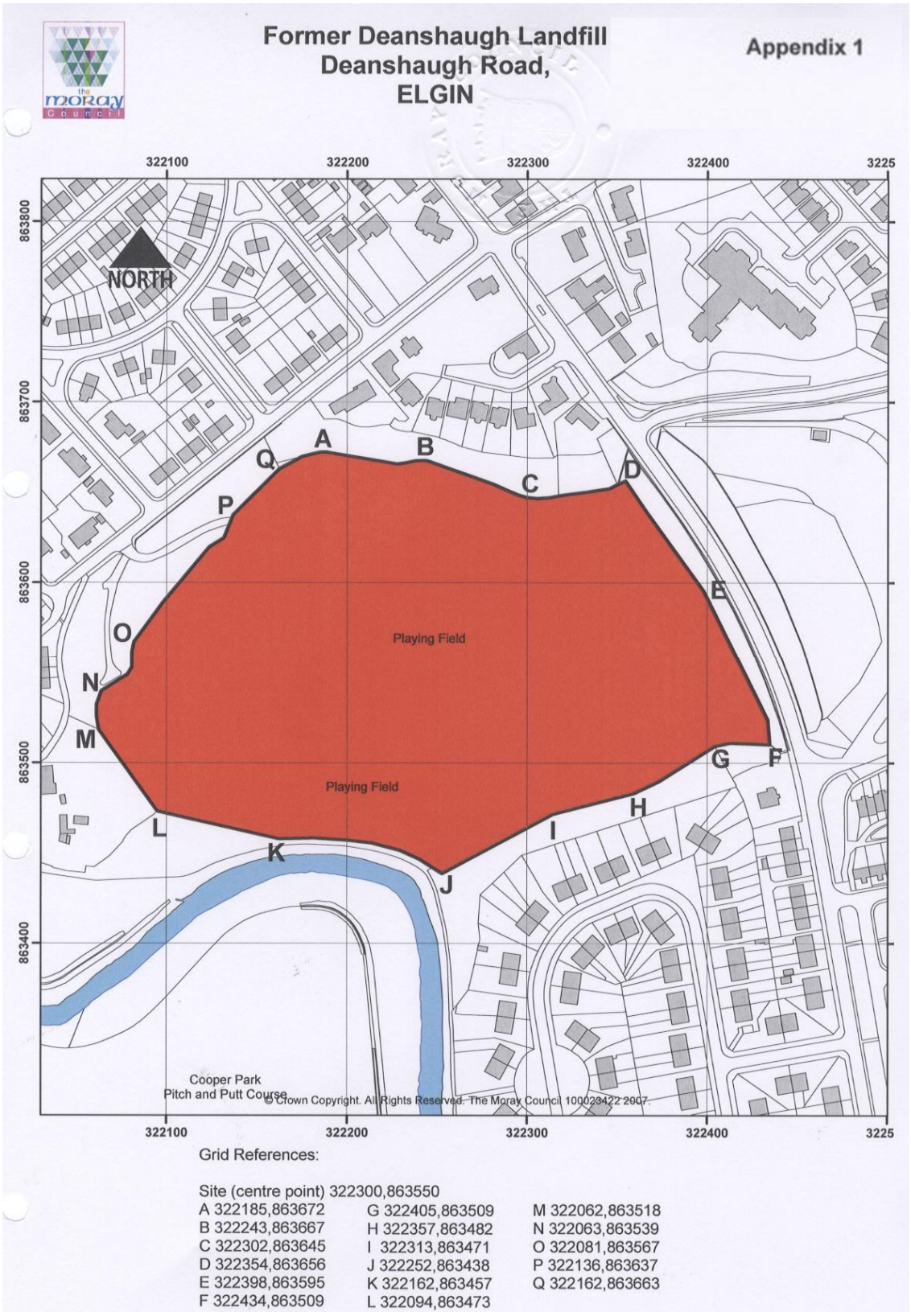
A 321435,862160	B 321536,862167
C 321609,861987	D 321583,861976
E 321609,861906	F 321502,861852
G 321417,862044	H 321469,862061

Former Landfill at Deanshaugh, Elgin

Location: Deanshaugh Road, ELGIN
Estimated Area: 7.5 ha
National Grid Reference: 322300, 863550 (approximate centre point)
Current Use: Recreational.

Pollutant Linkages

Linkage 1	**Source:** Ammoniacal nitrogen present in landfill leachate as a result of the biodegradation of organic nitrogen. **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 2	**Source:** Chloride leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 3	**Source:** Iron leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Shallow groundwater beneath the site (within drift deposits)
Linkage 4	**Source:** Manganese leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 5	**Source:** Potassium leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 6	**Source:** Phenol (total) leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 7	**Source:** Polycyclic aromatic hydrocarbons (total) leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 8	**Source:** Total petroleum hydrocarbons leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 9	**Source:** Copper leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 10	**Source:** Sodium leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 11	**Source:** Nickel leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 12	**Source:** Zinc leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 13	**Source:** Chromium leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 14	**Source:** Cyanide leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 15	**Source:** Lead leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Drift (shallow) groundwater beneath the site
Linkage 16	**Source:** Ammoniacal nitrogen present in landfill leachate as a result of the biodegradation of organic nitrogen **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Shallow groundwater beneath the site (within drift deposits)
Linkage 17	**Source:** Manganese leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Deep groundwater beneath the site (within bedrock)
Linkage 18	**Source:** Potassium leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Deep groundwater beneath the site (within bedrock)
Linkage 19	**Source:** Phenols leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Deep groundwater beneath the site (within bedrock)
Linkage 20	**Source:** Polycyclic aromatic hydrocarbons leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Deep groundwater beneath the site (within bedrock)
Linkage 21	**Source:** Total petroleum hydrocarbons leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** Deep groundwater beneath the site (within bedrock)
Linkage 22	**Source:** Polycyclic aromatic hydrocarbons leaching from waste mass **Pathway:** Vertical and horizontal migration of porewater/leachate **Receptor:** River Lossie



Status

Remediation completed.