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| **CDM 2015**  **E**conomy **T**ransport & **E**nvironment | Annex A - Preconstruction Information |

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| **Project Name** | Osbourne’s Pond – Reservoir – Ground Investigation |

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| **Scheme Number** | **PLACE009** |

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| **Date completed** | **Completed by** | **Signature** |
| 30 July 2021 | C J Beech | C J Beech |
| **Attachments:** | | |
| See contract documents for PLACE009 Osbourne’s Pond – Reservoir – Ground Investigation | | |

Derbyshire County Council,

Place Department,

County Hall

Matlock,

Derbyshire DE4 3AG

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| **1. Details of Project** | |
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| Description of project: | |
| Osbourne’s Pond is a classified **Category ‘B’** **Reservoir** as defined by the Floods & Reservoir Safety Guide 4th Edition published by the ICE. Seismic Categorisation for the dam is advised as **Hazard Category ll** based upon BRE Report ‘An engineering guide to the seismic risk to dams in the UK’ dated 1991.  Following inspection and site visits as recorded and reported by Richard Robson, a Member of the ICE All Reservoir Panel of Qualified Civil Engineers, there is a time constrained legal requirement to undertake both an intrusive geotechnical investigation, subsequent embankment stability analyses and, depending upon outcomes, potential for the design, supervision and recording of improvement works for the existing earth dam,  The ground investigation (GI) aims to establish the properties of the material within the core of and forming the profile of the existing Osbourne’s Pond embankment dam, together with establishing the geology of underlaying natural soils and ground strata at the site of the dam, in particular, the composition and condition of the embankment core (if any), the composition and condition of made ground comprising the (part steeply sloping) downstream face of the dam, the presence/elevation of any seepage profile(s) within the embankment, the existence or otherwise of any piping within the embankment profile which could develop further and lead to future embankment failure (which could in turn lead to breach of the dam), and the composition of any underlaying bedrock, including its elevation, composition and condition. Contract work will include installation of monitoring instrumentation intended to inform subsequent design of embankment stabilisation and ‘improvement’ works. | |
| Location: | |
| The site is located at Osbourne’s Pond Reservoir, Shipley Country Park, Shipley, Heanor, Derbyshire. Ordnance Survey NGR: SK 438 449.  Access to the investigation site shall be made ONLY from Shipley, off the A6007 (Hassock Lane North) and via ‘The Field’ (a narrow lane extending west from it’s junction with the A6007) to meet with Shipley Lane at the site boundary as shown on plan). Access to parts of the site is restricted by fencing which will need to be carefully taken down and replaced on completion of investigative works. | |
| Post code: | |
| DE75 7DB | |
| Grid reference: | |
| NGR: 443814, 344993 (OS Sheet SK4344 refers) | |
| Client details and contact numbers: | |
| R Bonner – Assistant Head of Derbyshire Countryside Service – contact number to be provided on award. | |
| Principal Designer details and contact numbers: | |
| Derbyshire County Council, Station Road, Darley Dale DE4 2EQ | |
| Designer(s) details: | |
| Designers representative: C J Beech | |
| Contractor(s) details and contact numbers: | |
| To be confirmed on award | |
| Other Consultants | |
| N/A | |
| Key Dates of the construction phase: | |
| GI works to be completed and fully reported factually by end of December 2021 | |
| Planned start date: | October 2021 |
| Expected duration of works: | 6 Weeks |
| Minimum time to be allowed between appointment of the Principal Contractor and the instruction to commence work: | 4 weeks |
| Relevant information from existing Health and Safety File. | |
| Client advises that No previous H&S records are available | |

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| **2. Client’s Brief** |
| N/A |

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| **3. Planning and management of the project** |
| To be agreed at tender award |

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| **4. Arrangements for cooperation and coordination between duty holders** |
| To be agreed at tender award |

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| **5. Safety hazards of the site** |
| Narrow, linear site in close proximity to pedestrian, cycle and vehicular traffic users with potential for vehicle strike - both contractor and public risk.  Working adjacent to open water – potential for falls into water / drowning  Working in close proximity to the public – risk of unauthorised public access into the work area leading to; risk of vehicle strike, risk of slips, trips and falls, risk of confrontation.  Uneven / sloping / saturated ground - risk of slips, trips and falls  Working on potentially saturated / unstable ground – risk of ground collapse  Unexpected/unanticipated services and utilities:  The work site is restricted to the crest and sloping embankment and immediately adjacent land as identified on the contract drawings. A separate area is identified for use as a contractor’s site compound should this be required for the duration of the proposed investigative works. There are NO known public services or utilities located within the proposed works or compound area. Utility drawings are provided but these show NO mains, services or utilities information. |

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| **6. Health hazards of the site** |
| Working in or near water – risk of Weil's disease  No evidence suggests that elevated levels of contamination will be present over and above levels which would normally be associated with any coalfield investigation site. The embankment investigation has been categorised as yellow (amber) for purpose of drilling, sample recovery, storage and analysis as it consists significant made ground for which physical and chemical composition has not yet been determined.  Risk from passing traffic and risk to members of the public unless site access is well signed and well managed. Except for a maximum two week closure of Shipley Lane (which will be arranged by the client following request by the contractor as advised below), all highways and footpaths must remain open at all times for public pedestrian, cycle, equestrian and vehicular uses. |

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| **7. Temporary Traffic Management Arrangements**  *(Discussed with contractor through early contractor involvement)* |
| The dam crest roadway provides for all vehicular access to both Shipley Hall and Home Farm. Public Footpaths follow the line of the dam crest roadway. Arrangements will be made to facilitate ‘daytime only’ closure of the dam crest roadway to ALL public use between the hours of 8am and 5pm Monday to Friday only, and for up to two weeks total duration, to enable drilling of boreholes along the crest of the dam. The contractor shall be permitted no more than two weeks to complete his works within ‘Area A’. At any time during the contract period before enaction of the two week ‘daytime only’ closure, beyond the extents of the working day (8am to 5pm), and following expiry of the two week permitted closure timeframe, the contractor shall be permitted the use of ‘Area A’ but is required to share the space with all types of public users. The contractor MUST ensure that the road and footpath space is kept clear of any obstruction and that it is maintained in a safe condition for public use. Fencing of the footway will be permitted to identify public user routes through the site and ensure the safety of members of the public if this option is proffered by the contractor. |

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| **8. Environmental restrictions and existing on-site risks** |
| The site falls under supervision of the Environment Agency in terms of reservoir Enforcement however it is not anticipated that the works require consent from the Agency.  Timing of the works falls outside periods of restriction from an environmental impact perspective, though it is appreciated that the timing of the works in late autumn will complicate the physical undertaking of the intrusive investigation work itself. Care will be needed when working on the steeply sloping faces of the dam and access onto the slope shall be made only from the toe of the dam. |

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| **9. Significant design and construction hazards** |
| Design of all temporary works will be the Contractors responsibility.  Risk of working immediately alongside large body of water.  Risk of accident or collision with pedestrian and private traffic passing through the site. |

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| **10. The health and safety file** |
| The contactor will maintain records of all boreholes and testing undertaken during the investigative works and shall provide a factual report detailing findings of the investigation as specified in the contract documentation. Details of standpipe / standpipe piezometer installations and records of ground water levels shall be provided weekly to the Investigation Supervisor and all monitoring records shall be included in the final factual report  The contractors completed file shall be handed over to the Investigation Supervisor at the end of the contract. |