**Product / Service:** Outsourced Science Services (e.g. Diagnostic Services, Clinical Trials)

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|  | **Negative Impacts / Risks** |  | **Positive Opportunities** |
| **Environmental** | * Production of consumables – high carbon production process, including non-recyclable & non-renewable materials & water (impact on biodiversity / mining impacts) * Samples / consumables may be hazardous by nature and result in hazardous waste (expensive to transport, store & dispose of) * Energy use of storage equipment (carbon impact) e.g. refrigerators * Vehicle fuel & emissions (carbon impact) – high pick-up & delivery frequency (small volumes) e.g. samples / consumables * Samples / consumables may be transported in excessive packaging | * Computer modelling techniques in research may avoid use * Energy efficient storage equipment (e.g. EnergyStar) * Consolidated orders, pick-ups & delivery * Low CO2 vehicles for pick-ups & delivery * Greater use of electronic results delivery (to avoid physical deliveries) * Reduction in, or use of recycled materials, in packaging (where this does not introduce health and safety risks in transit/storage) |
| **Social** | * International supply chains (potential for issues such as child labour / poor pay & working conditions / health and safety breaches) * Frequency & timing of pick-ups & deliveries – congestion & noise impacting residents * Health & safety risks when transporting & storing hazardous samples / consumables | * Potential investment in apprenticeships * Consolidated orders, pick-ups & deliveries (including shared contracts) * Potential benefit to society in identifying solutions to medical problems |
| **Economic** | * Potential duplication of purchases across multiple sites - disconnected orders / multiple delivery charges * Cost of energy used by equipment e.g. cold storage samples * Waste disposal costs of samples / consumables (may be hazardous by nature) | * Rationalise suppliers & deliveries * Energy efficient equipment (e.g. EnergyStar) – reduce energy bills * Spend supports investment in new products / medical research by suppliers |

**RELATED PROC HE:** DH / LLZ