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## **Analytical Report Number : 25-040879**

|                             |                 |                                                        |            |
|-----------------------------|-----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Knowsley        | <b>Samples received on:</b>                            | 01/08/2025 |
| <b>Your job number:</b>     |                 | <b>Samples instructed on/<br/>Analysis started on:</b> | 01/08/2025 |
| <b>Your order number:</b>   |                 | <b>Analysis completed by:</b>                          | 06/08/2025 |
| <b>Report Issue Number:</b> | 1               | <b>Report issued on:</b>                               | 06/08/2025 |
| <b>Samples Analysed:</b>    | 5 water samples |                                                        |            |



**Signed:**

Anna Goc  
PL Head of Reporting Team  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

|                                                                                    |           |                                 |
|------------------------------------------------------------------------------------|-----------|---------------------------------|
| Standard sample disposal times, unless otherwise agreed with the laboratory, are : | soils     | - 4 weeks from reporting        |
|                                                                                    | leachates | - 2 weeks from reporting        |
|                                                                                    | waters    | - 2 weeks from reporting        |
|                                                                                    | asbestos  | - 6 months from reporting       |
|                                                                                    | air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

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Project / Site name: Knowsley

|                                          |               |                            |                              |               |               |
|------------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                        | 633682        | 633683                     | 633684                       | 633685        | 633686        |
| Sample Reference                         | GJR1          | GJR2                       | GJR3                         | GJR4          | GJR5          |
| Sample Number                            | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Water Matrix                             | Other water   | Other water                | Other water                  | Other water   | Other water   |
| Depth (m)                                | 1.90          | 3.95                       | 1.78                         | 4.37          | 3.70          |
| Date Sampled                             | 31/07/2025    | 31/07/2025                 | 31/07/2025                   | 31/07/2025    | 31/07/2025    |
| Time Taken                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

#### VOCs

|                                       |      |   |      |       |       |       |       |       |
|---------------------------------------|------|---|------|-------|-------|-------|-------|-------|
| Chloromethane                         | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chloroethane                          | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromomethane                          | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Vinyl Chloride                        | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trichlorofluoromethane                | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloroethene                    | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trans 1,2-dichloroethylene            | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| MTBE (Methyl Tertiary Butyl Ether)    | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloroethane                    | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 2,2-Dichloropropane                   | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chloroform                            | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | 19.3  | < 3.0 |
| 1,1,1-Trichloroethane                 | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dichloroethane                    | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1-Dichloropropene                   | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Cis-1,2-dichloroethene                | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Benzene                               | µg/l | 1 | NONE | < 1.0 | < 1.0 | < 1.0 | 2.5   | < 1.0 |
| Carbontetrachloride                   | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dichloropropane                   | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trichloroethene                       | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Dibromomethane                        | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromodichloromethane                  | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Cis-1,3-dichloropropene               | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Trans-1,3-dichloropropene             | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Toluene                               | µg/l | 1 | NONE | < 1.0 | < 1.0 | 59.2  | 11.2  | < 1.0 |
| 1,1,2-Trichloroethane                 | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3-Dichloropropane                   | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Dibromochloromethane                  | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Tetrachloroethene                     | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2-Dibromoethane                     | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Chlorobenzene                         | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | 132   | < 3.0 |
| 1,1,1,2-Tetrachloroethane             | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Ethylbenzene                          | µg/l | 1 | NONE | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene                          | µg/l | 1 | NONE | < 1.0 | < 1.0 | 24.8  | 1.8   | < 1.0 |
| Styrene                               | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromoform                             | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| o-xylene                              | µg/l | 1 | NONE | < 1.0 | < 1.0 | 22.7  | 1.1   | < 1.0 |
| Isopropylbenzene                      | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,1,2,2-Tetrachloroethane             | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Bromobenzene                          | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| n-Propylbenzene                       | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 2-Chlorotoluene                       | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 4-Chlorotoluene                       | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3,5-Trimethylbenzene                | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| tert-Butylbenzene                     | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,2,4-Trimethylbenzene                | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| sec-Butylbenzene                      | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 1,3-Dichlorobenzene                   | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| p-Isopropyltoluene                    | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |

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| Lab Sample Number                        |       |                            |                              | 633682        | 633683        | 633684             | 633685        | 633686        |
|------------------------------------------|-------|----------------------------|------------------------------|---------------|---------------|--------------------|---------------|---------------|
| Sample Reference                         |       |                            |                              | GJR1          | GJR2          | GJR3               | GJR4          | GJR5          |
| Sample Number                            |       |                            |                              | None Supplied | None Supplied | None Supplied      | None Supplied | None Supplied |
| Water Matrix                             |       |                            |                              | Other water   | Other water   | Other water        | Other water   | Other water   |
| Depth (m)                                |       |                            |                              | 1.90          | 3.95          | 1.78               | 4.37          | 3.70          |
| Date Sampled                             |       |                            |                              | 31/07/2025    | 31/07/2025    | 31/07/2025         | 31/07/2025    | 31/07/2025    |
| Time Taken                               |       |                            |                              | None Supplied | None Supplied | None Supplied      | None Supplied | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |                    |               |               |
| 1,4-Dichlorobenzene                      | µg/l  | 3                          | NONE                         | < 3.0         | < 3.0         | < 3.0              | < 3.0         | < 3.0         |
| 1,2-Dichlorobenzene                      | µg/l  | 3                          | NONE                         | < 3.0         | < 3.0         | 6420 <sup>9%</sup> | 132           | < 3.0         |
| Butylbenzene                             | µg/l  | 3                          | NONE                         | < 3.0         | < 3.0         | < 3.0              | < 3.0         | < 3.0         |
| 1,2-Dibromo-3-chloropropane              | µg/l  | 3                          | NONE                         | < 3.0         | < 3.0         | < 3.0              | < 3.0         | < 3.0         |
| 1,2,4-Trichlorobenzene                   | µg/l  | 3                          | NONE                         | < 3.0         | < 3.0         | < 3.0              | < 3.0         | < 3.0         |
| Hexachlorobutadiene                      | µg/l  | 3                          | NONE                         | < 3.0         | < 3.0         | < 3.0              | < 3.0         | < 3.0         |
| 1,2,3-Trichlorobenzene                   | µg/l  | 3                          | NONE                         | < 3.0         | < 3.0         | < 3.0              | < 3.0         | < 3.0         |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                            | Analytical Method Description                                                                            | Analytical Method Reference         | Method number | Wet / Dry Analysis | Accreditation Status |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------|---------------|--------------------|----------------------|
| BTEX and/or Volatile Organic Compounds in water | Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW, PW, GW | In-house method based on USEPA 8260 | L073B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\$%- Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.