

11-06-2026

Addendum 1

## **RE: Former Contract Chemicals, Penrhyn Road, Knowsley – Groundwater Monitoring**

The final set of groundwater monitoring has been undertaken following an increased monitoring frequency.

The main source of contamination within the groundwater was located at GJR03 with 2 further boreholes in close proximity; GJW201 and BH103. As the impacted soil was found next to boreholes GJR03 and BH103 these sampling locations were decommissioned, and the impacted soil material was removed for bioremediation.

The voids created from the excavation/remediation process accumulated groundwater and surface water runoff, which was tested in cells 2, 3 and 4. The results confirmed the presence of 1,2 Dichlorobenzene; hence the cells were dewatered, and the effluent was passed through a filter system prior to being discharge into the foul sewer under a discharge consent. Cell 1 did not contain any water as it was backfilled following receipt of the validation testing.

As the source of the contamination was contained within the soil matrix, this has been treated to achieve the target level of 41mg/kg for 1,2 Dichlorobenzene, this has interlinked with a direct and significant reduction in 1,2 Dichlorobenzene within the local groundwater regime.

The table below has been updated with the most recent groundwater sampling results, to allow a comparison with the previous results. This shows the higher starting values and a slight increase during the remediation works in some boreholes accounted for by the disturbance within the locally impacted ground. Post remediation monitoring shows that the removal of the source material has achieved an improvement within the local groundwater regime with many samples at or below level of detection for 1,2 Dichlorobenzene, apart from GJW201. Therefore, betterment has been achieved within this site.

As GJW201 has risen at the end of the monitoring it is likely that the on going compaction works with a vibrating roller and foundation piling are likely to have been a factor in the most recent result, with GJW201 acting as a sump to collect 1,2 Dichlorobenzene. As prior the to groundworker starting the amounts of 1,2 Dichlorobenzene being recorded had continued a downward trend.

### Dealing With:

- ✓ Remediation
- ✓ Water Treatment
- ✓ Material Recycling
- ✓ Knot Weed
- ✓ Asbestos

Head Office:  
Holly Farm  
Whitepits Lane  
Portway  
Birmingham  
B48 7HP

Tel 01564 826303  
Fax 01564 826474

| 1,2 Dichlorobenzene Results                                                       |        |        |            |          |          |          |            |
|-----------------------------------------------------------------------------------|--------|--------|------------|----------|----------|----------|------------|
| Location                                                                          | GJR01  | GJR02  | GJR03      | GJR04    | GJR05    | GJW201   | BH103      |
| 17/12/2025                                                                        | <3ug/l | <3ug/l | 93,500ug/l | <3ug/l   | <3ug/l   | 108ug/l  | 5,920ug/l  |
| 07/01/2026                                                                        | <3ug/l | <3ug/l | 21,300ug/l | 132ug/l  | 23.8ug/l | 88.5ug/l | 5,870ug/l  |
| 22/01/2026                                                                        | <3ug/l | <3ug/l | 27,800ug/l | 5.5ug/l  | <3ug/l   | 61.3ug/l | 1,020ug/l  |
| 05/02/2026                                                                        | <3ug/l | <3ug/l | BH removed | <3ug/l   | <3ug/l   | 13.6ug/l | BH removed |
| 19/02/2026                                                                        | <3ug/l | <3ug/l | BH removed | <3ug/l   | <3ug/l   | <3ug/l   | BH removed |
| 05/03/2026                                                                        | <3ug/l | <3ug/l | BH removed | <3ug/l   | <3ug/l   | <3ug/l   | BH removed |
| 02/06/2026                                                                        | <3ug/l | <3ug/l | BH removed | 14.8ug/l | <3ug/l   | 5750ug/l | BH removed |
| GJW201 was sampled on 20/02/2026 (not 19/02/2026) with Cell Waters ref26-008862-1 |        |        |            |          |          |          |            |

Borehole GJR06 has always remained dry hence this location was not sampled.

Based on the results obtained from within the site it is considered that the soil remediation has addressed the source of the contamination and this has promoted betterment within the local groundwater regime.

If any problems are encountered or should you have any further questions, please do not hesitate to contact me.

Yours sincerely

Jon Berry

Portway Plant Ltd  
Holly Farm  
Whitepits Lane  
Portway  
Birmingham  
B48 7HP

i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

**t:**

**e:** knowsleyptw25025@gmail.com; ichambers.portway@googlemail.com;  
jberry.portway@googlemail.com

**t:** 01923 225404

**f:** 01923 237404

**e:** info-i2analytical@normecgroup.com

## Analytical Report Number : 26-030212

|                             |                 |                                                        |            |
|-----------------------------|-----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Knowsley        | <b>Samples received on:</b>                            | 05/06/2026 |
| <b>Your job number:</b>     |                 | <b>Samples instructed on/<br/>Analysis started on:</b> | 05/06/2026 |
| <b>Your order number:</b>   |                 | <b>Analysis completed by:</b>                          | 11/06/2026 |
| <b>Report Issue Number:</b> | 1               | <b>Report issued on:</b>                               | 12/06/2026 |
| <b>Samples Analysed:</b>    | 5 water samples |                                                        |            |



**Signed:** \_\_\_\_\_

Rachel Chappell  
Key Account Manager  
**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.

Analytical Report Number: 26-030212

Project / Site name: Knowsley

|                                          |               |                            |                              |               |               |
|------------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                        | 942264        | 942265                     | 942266                       | 942267        | 942268        |
| Sample Reference                         | GJR1          | GJR2                       | GJR4                         | GJR5          | GJW201        |
| 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          | 3.83                       | 3.48                         | 3.51          | 1.83          |
| Date Sampled                             | 02/06/2026    | 02/06/2026                 | 02/06/2026                   | 02/06/2026    | 02/06/2026    |
| 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 | 8.1   | < 3.0 | < 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 | < 1.0 | 11.3               |
| 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 | 15    | < 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 | 3.9   | < 1.0 | 3.9                |
| 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 | 17.5  | < 3.0 | 2940 <sup>5%</sup> |
| 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 | 3.6                |
| p & m-xylene                          | µg/l | 1 | NONE | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 6.6                |
| 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              |
| Naphthalene                           | µg/l | 3 | NONE | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0              |
| o-xylene                              | µg/l | 1 | NONE | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 3.3                |
| 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 | 5.7   | < 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              |

Analytical Report Number: 26-030212

Project / Site name: Knowsley

| Lab Sample Number                        |       |                            |                              | 942264        | 942265        | 942266        | 942267        | 942268             |
|------------------------------------------|-------|----------------------------|------------------------------|---------------|---------------|---------------|---------------|--------------------|
| Sample Reference                         |       |                            |                              | GJR1          | GJR2          | GJR4          | GJR5          | GJW201             |
| 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          | 3.83          | 3.48          | 3.51          | 1.83               |
| Date Sampled                             |       |                            |                              | 02/06/2026    | 02/06/2026    | 02/06/2026    | 02/06/2026    | 02/06/2026         |
| 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 |               |               |               |               |                    |
| p-Isopropyltoluene                       | µg/l  | 3                          | NONE                         | < 3.0         | < 3.0         | < 3.0         | < 3.0         | < 3.0              |
| 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         | 14.8          | < 3.0         | 5750 <sup>5%</sup> |
| 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

**Analytical Report Number : 26-030212**

**Project / Site name: Knowsley**

**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 30oC.**

**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.