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23.7.15

AQUACHECK PT Scheme AQ4181 - GWA Gesellschaft für Wasser- Individual Report

Round: 488

Issue Number 1

Issued 17 July 2015



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Sample Details

Samples were despatched on 15 June 2015
The reporting deadline was 13 July 2015

The following samples were distributed in Aquacheck Round 488:

7A: 1 x 10mL amber glass vial containing spiking solution of organochlorine pesticides in methanol and 1 x 2L PETG bottle containing groundwater.

7B: 1 x 10mL amber glass vial containing spiking solution of chlorinated solvents in methanol and 1 x 2L glass/PETG bottle containing groundwater.

7C: 2 x 10mL amber glass vial containing spiking solutions of polycyclic aromatic hydrocarbons in methanol and 1 x 2L PETG bottle containing groundwater.

7D: 1 x 10mL amber glass vial containing spiking solution of polychlorinated biphenyls in methanol and 1 x 2L PETG bottle containing groundwater.

Further information regarding assigned values, performance assessment and technical comments can be found under the individual sample and analyte results.

Individual Report

This individual report contains a summary of all the results submitted and the performance assessments for your laboratory and your individual analysts. Please note that nominated laboratory results are represented by a blue highlight in the analyst box.

Data statistics given in the individual report are for the method you have used for each analyte. Further detail can be obtained from the main report.

Full details of the scheme, sample types, analytes and data analysis can be found in the corresponding Main Report, along with any technical comments, if applicable. The Main Report is the definitive version.

If you have any questions regarding your results which are not answered in the Main Report, please contact us using the details on the front of the report. If you would like to order any samples for re-test, please contact our customer service department or your local office.

Results Summary

Sample	Results Reported	Satisfactory Results	Questionable Results	Unsatisfactory Results	Not Assessed [^]
7A - Organochlorine Pesticides	22	22	0	0	0
Round Total	22	22	0	0	0

[^] Results which are Not Assessed should be reviewed by comparing them with the assigned value and other relevant statistics given in the main report. Participants, according to their internal quality criteria, may consider Not Assessed results to be satisfactory, questionable or unsatisfactory. Further information regarding why results may not be assessed is given in the Scheme Information section of the main report.

No unsatisfactory results in this round

No questionable results in this round

7A - Organochlorine Pesticides

Analyte	Analyst	Method	Result	Units	Z score (** z' score)	Assigned Value	Ux AV	SDPA	Exp.SDPA	No of results	Median	Mean	Robust SD	SD
Endrin	Lab Result	Liquid-liquid extraction GC-MS	28.6	ng/L	0.66	25.3	0.3	5.00	N/A	6	24.7	25.4	5.19	5.32
Dieldrin	Lab Result	Liquid-liquid extraction GC-MS	33.9	ng/L	-0.96	37.5	0.2	3.75	N/A	9	33.9	35.7	3.56	6.09
Aldrin	Lab Result	Liquid-liquid extraction GC-MS	42.0	ng/L	-1.10	47.2	0.3	4.72	N/A	8	42.1	42.1	7.49	6.57
p,p'-DDT	Lab Result	Liquid-liquid extraction GC-MS	91.9	ng/L	-1.87	113.1	0.5	11.31	N/A	6	101.4	98.2	19.35	19.20
o,p'-DDT	Lab Result	Liquid-liquid extraction GC-MS	91.6	ng/L	-1.34	105.8	0.5	10.58	N/A	6	94.0	91.3	15.50	17.32
p,p'-DDE	Lab Result	Liquid-liquid extraction GC-MS	32.6	ng/L	-0.40	34.6	0.3	5.00	N/A	6	32.8	33.2	5.34	5.64
o,p'-DDE	Lab Result	Liquid-liquid extraction GC-MS	33.0	ng/L	-0.34	34.7	0.6	5.00	N/A	4	36.1	38.8	2.45	7.61
p,p'-DDD	Lab Result	Liquid-liquid extraction GC-MS	57.9	ng/L	0.84	53.4	0.3	5.34	N/A	6	54.8	55.1	11.86	11.07
o,p'-DDD (TDE)	Lab Result	Liquid-liquid extraction GC-MS	71.9	ng/L	-0.31	74.2	0.4	7.42	N/A	4	78.9	81.7	11.20	12.89
Alpha Hexachlorocyclohexane	Lab Result	Liquid-liquid extraction GC-MS	74.5	ng/L	-0.68	79.9	0.4	7.99	N/A	6	77.0	75.5	8.53	10.54
Beta Hexachlorocyclohexane	Lab Result	Liquid-liquid extraction GC-MS	94.1	ng/L	-0.90	103.4	0.5	10.34	N/A	6	96.4	91.4	14.31	13.90
Delta Hexachlorocyclohexane	Lab Result	Liquid-liquid extraction GC-MS	34.1	ng/L	0.00	34.1	0.3	5.00	N/A	4	35.0	34.8	6.60	6.17
Lindane (Gamma HCH)	Lab Result	Liquid-liquid extraction GC-MS	67.5	ng/L	-0.79	73.3	0.4	7.33	N/A	8	70.9	70.7	4.97	7.57
Trifluralin	Lab Result	Liquid-liquid extraction GC-MS	33.5	ng/L	-0.24	34.7	0.3	5.00	N/A	2	35.3	35.3	3.49	2.47

Analyte	Analyst	Method	Result	Units	z score (** z' score)	Assigned Value	Ux AV	SDPA	Exp.SDPA	No of results	Median	Mean	Robust SD	SD
Alpha Endosulphan	Lab Result	Liquid-liquid extraction GC-MS	51.6	ng/L	-0.75	55.8	0.3	5.58	N/A	6	51.8	49.8	5.26	6.03
Beta Endosulphan	Lab Result	Liquid-liquid extraction GC-MS	38.1	ng/L	-0.14	38.8	0.3	5.00	N/A	5	38.1	36.5	4.45	3.88
Heptachlor	Lab Result	Liquid-liquid extraction GC-MS	12.4	ng/L	-0.07	12.5	0.1	1.50	N/A	7	12.4	12.7	0.89	1.33
Heptachlor epoxide	Lab Result	Liquid-liquid extraction GC-MS	44.3	ng/L	-0.33	48.3	0.3	4.83	N/A	7	48.0	47.2	4.67	4.56
Pentachlorobenzene	Lab Result	Liquid-liquid extraction GC-MS	107.1	ng/L	-0.28 **	111.5	10.7	11.15	15.45	5	105.7	99.1	24.17	18.30
Cis-chlordane	Lab Result	Liquid-liquid extraction GC-MS	25.6	ng/L	-0.52	28.2	0.3	5.00	N/A	4	27.6	28.3	6.30	6.78
Trans-chlordane	Lab Result	Liquid-liquid extraction GC-MS	46.7	ng/L	-0.68	50.1	0.3	5.01	N/A	4	48.7	48.3	7.86	6.73
Methoxychlor	Lab Result	Liquid-liquid extraction GC-MS	86.3	ng/L	-1.00	95.9	0.4	9.59	N/A	6	90.0	92.0	12.16	15.46

** Please note, participant performance for this analyte has been assessed using a z' score, rather than a z score, in order to account for the measurement uncertainty of the assigned value which is not negligible when compared to the SDPA.