

**SUPERFUND ORGANIC METHODS PERFORMANCE EVALUATION SAMPLE
INDIVIDUAL LABORATORY SUMMARY REPORT
FOR ORG PT3 FY22 (CASE 50057)**

LABORATORY: CHM Chemtech Consulting Group, Inc. [NJ]
PERFORMANCE: ACCEPTABLE, No Response Required

TOTAL SCORE: 100.0
REPORT DATE: 6/22/2022

		TVOA	TVOA SIM	VOA	SVOA	SVSIM	PEST	ARO	
SCORES BY	WATER:	100.0	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS: 100.0
FRACTION	SOIL:	--	--	100.0	100.0	100.0	100.0	100.0	

PREDICTION INTERVAL LIMITS						LABORATORY DATA		
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE

TRACE VOLATILES IN WATER MATRIX**TRACE VOLATILE TARGET ANALYTES**

Chloromethane	0.5	2.0	2.5	4.7	5.3	3.7		
Bromomethane	0.5	2.3	3.0	5.6	6.3	3.1		
Trichlorofluoromethane	0.5	5.5	6.3	8.9	9.6	7.6		
1,1-Dichloroethene	0.5	2.6	2.9	4.2	4.5	3.8		
Acetone	5	20	36	93	110	83		
Carbon Disulfide	0.5	3.4	4.0	6.3	7.0	5.7		
Methylene Chloride	0.5	1.7	1.9	2.6	2.8	2.3		
Methyl tert-Butyl Ether	0.5	6.2	7.0	9.7	10	9.2		
1,1-Dichloroethane	0.5	7.1	7.7	9.7	10	9.1		
2-Butanone	5	46	66	140	160	140		
1,1,1-Trichloroethane	0.5	6.6	7.2	9.4	9.9	8.8		
Cyclohexane	0.5	7.5	8.7	13	14	12		
1,2-Dichloroethane	0.5	5.6	6.1	8.0	8.5	7.7		
Trichloroethene	0.5	4.0	4.4	5.7	6.1	5.3		
Methylcyclohexane	0.5	4.5	5.1	7.4	8.1	6.8		
1,2-Dichloropropane	0.5	1.7	1.8	2.4	2.5	2.2		
Toluene	0.5	6.9	7.4	9.3	9.8	8.7		
Tetrachloroethene	0.5	6.5	7.1	9.1	9.7	8.7		
2-Hexanone	5	23	33	71	81	60		
1,2-Dibromoethane	0.5	12	13	17	18	17		
Chlorobenzene	0.5	8.5	9.1	11	12	11		
Ethylbenzene	0.5	5.1	5.5	7.0	7.4	6.9		
o-Xylene	0.5	4.2	4.6	5.9	6.2	5.6		
m,p-Xylene	0.5	10	11	14	15	14		
Styrene	0.5	3.7	4.3	6.6	7.2	5.8		
Bromoform	0.5	3.5	4.1	6.1	6.7	5.7		
Isopropylbenzene	0.5	2.6	2.8	3.7	3.9	3.7		
1,4-Dichlorobenzene	0.5	3.3	3.6	4.7	5.0	4.4		
1,2-Dichlorobenzene	0.5	9.5	10	13	14	13		
1,2-Dibromo-3-chloropropane	0.5	2.8	3.2	4.7	5.0	4.3		
1,2,3-Trichlorobenzene	0.5	7.1	8.1	12	13	11		

TRACE VOLATILE NON-TARGET ANALYTES

Ethane, 1,1,1,2-tetrachloro-		NU	NU	NU	NU	1.5	JN
Benzene, 1,3,5-trichloro-		>0				5.3	JN

TRACE SIM VOLATILES IN WATER MATRIX**TRACE SIM VOLATILE TARGET ANALYTES**

Vinyl Chloride	0.05	1.4	1.6	2.2	2.3	1.6		
Trichloroethene	0.05	0.15	0.17	0.23	0.25	0.22		
1,2-Dibromoethane	0.05	0.19	0.21	0.29	0.31	0.25		
1,2,3-Trichloropropane	0.05	1.3	1.5	2.2	2.4	1.7		
1,2-Dibromo-3-chloropropane	0.05	0.57	0.72	1.2	1.4	0.98		

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SCORES BY	WATER:	100.0	100.0	--	100.0	100.0	100.0	100.0	TIMELINESS: 100.0
FRACTION	SOIL:	--	--	100.0	100.0	100.0	100.0	100.0	

PREDICTION INTERVAL LIMITS						LABORATORY DATA		
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE

LOW/MEDIUM VOLATILES IN SOIL MATRIX**LOW/MEDIUM VOLATILE TARGET ANALYTES**

Dichlorodifluoromethane	5	7.3	13	36	42	26
Chloromethane	5	17	20	34	37	32
Vinyl Chloride	5	36	42	63	68	53
Bromomethane	5	18	24	47	54	27
Chloroethane	5	13	15	22	24	20
Trichlorofluoromethane	5	15	18	28	30	21
1,1-Dichloroethene	5	24	28	40	43	35
1,1,2-Trichloro-1,2,2-trifluoroethane	5	23	30	58	66	46
Methyl Acetate	5	28	35	63	71	47
Methylene Chloride	5	32	35	47	51	43
Methyl tert-Butyl Ether	5	64	71	97	100	83
2-Butanone	10	64	87	170	190	100
Chloroform	5	32	35	45	48	42
Cyclohexane	5	32	36	51	55	46
Benzene	5	68	74	96	100	90
Trichloroethene	5	86	94	120	130	110
Toluene	5	83	90	120	120	110
1,1,2-Trichloroethane	5	34	36	45	47	41
Tetrachloroethene	5	16	18	25	27	23
Chlorobenzene	5	21	23	29	31	27
Ethylbenzene	5	41	45	59	62	56
o-Xylene	5	41	45	60	64	56
m,p-Xylene	5	47	52	71	76	68
Styrene	5	17	19	26	29	21
Bromoform	5	18	19	26	28	21
Isopropylbenzene	5	33	37	49	52	44
1,1,2,2-Tetrachloroethane	5	19	21	27	29	24
1,3-Dichlorobenzene	5	34	36	45	48	43
1,4-Dichlorobenzene	5	17	18	23	24	21
1,2,4-Trimethylbenzene	5	33	39	57	62	53
1,2,4-Trichlorobenzene	5	30	34	47	50	41
1,2,3-Trichlorobenzene	5	44	50	71	76	62

LOW/MEDIUM VOLATILE NON-TARGET ANALYTES

Benzene, bromo-	NU	NU	NU	NU	29	JN
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LOW/MEDIUM VOLATILE NON-TAL CONTAMINANTS

Dimethyl ether	2.6	JN
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FRACTION	SOIL:	--	--	100.0	100.0	100.0	100.0	100.0	

PREDICTION INTERVAL LIMITS						LABORATORY DATA		
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE

SEMIVOLATILES IN WATER MATRIX**SEMIVOLATILE TARGET ANALYTES**

Phenol	10	32	40	70	78	54	
2-Chlorophenol	5	34	42	71	79	57	
2,2'-oxybis(1-Chloropropane)	10	14	19	41	46	27	
Hexachloroethane	5	14	23	58	67	57	
2,4-Dichlorophenol	5	39	46	73	80	57	
Naphthalene	5	29	36	62	69	54	
Hexachlorobutadiene	5	12	21	55	64	50	
2,6-Dinitrotoluene	5	48	54	76	82	64	
Acenaphthene	5	37	45	72	80	60	
2,4-Dinitrotoluene	5	39	46	69	75	55	
Diethylphthalate	5	46	52	74	79	61	
Fluorene	5	39	47	75	82	58	
1,2,4,5-Tetrachlorobenzene	5	20	34	85	98	72	
Hexachlorobenzene	5	44	51	76	83	60	
Pentachlorophenol	10	41	50	83	92	59	
Anthracene	5	36	42	63	68	51	
Pyrene	5	41	49	79	87	66	
Butylbenzylphthalate	5	44	52	78	85	72	
Benzo(a)anthracene	5	32	37	58	64	46	
Chrysene	5	31	38	63	69	47	
bis(2-Ethylhexyl)phthalate	5	44	51	78	85	70	
Benzo(b)fluoranthene	5	31	37	61	67	47	
Benzo(k)fluoranthene	5	24	30	50	55	38	
Benzo(a)pyrene	5	30	36	56	61	42	
Indeno(1,2,3-cd)pyrene	5	35	44	75	83	59	
Dibenzo(a,h)anthracene	5	43	51	81	89	63	

SEMIVOLATILE NON-TARGET ANALYTES

Mitotane	>0					18	JN
Resorcinol	NU	NU	NU	NU		36	JN

SEMIVOLATILE NON-TAL CONTAMINANTS

Mitotane						18	JN
Pyridine, 3-(1-methyl-2-pyrrolidin						18	JN
Total Alkanes						11	

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FRACTION	SOIL:	--	--	100.0	100.0	100.0	100.0	100.0	

PREDICTION INTERVAL LIMITS						LABORATORY DATA		
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE

SEMIVOLATILES IN SOIL MATRIX**SEMIVOLATILE TARGET ANALYTES**

Phenol	330	980	1200	2200	2500	1500	
Nitrobenzene	170	750	990	1900	2100	1400	
Isophorone	170	1100	1400	2400	2700	1600	
Naphthalene	170	850	1200	2600	2900	1900	
2-Methylnaphthalene	170	870	1100	2100	2300	1500	
2,4,6-Trichlorophenol	170	1200	1500	2600	3000	1600	
1,1'-Biphenyl	170	780	980	1700	1900	1200	
Acenaphthylene	170	520	640	1100	1200	730	
Dibenzofuran	170	1100	1400	2200	2500	1600	
Diethylphthalate	170	940	1100	1800	2000	1400	
Hexachlorobenzene	170	820	980	1600	1700	1200	
Pentachlorophenol	330	520	940	2500	2900	2000	
Anthracene	170	1000	1200	2000	2200	1600	
Carbazole	330	1300	1500	2500	2800	2000	
Fluoranthene	170	990	1200	2100	2300	1700	
Benzo(a)anthracene	170	820	1000	1700	1900	1400	
bis(2-Ethylhexyl)phthalate	170	1000	1300	2400	2700	1900	
Di-n-octylphthalate	330	980	1300	2500	2800	2000	
Indeno(1,2,3-cd)pyrene	170	930	1200	2100	2400	1800	
Dibenzo(a,h)anthracene	170	1000	1300	2300	2500	1800	
Benzo(g,h,i)perylene	170	520	880	2200	2600	1800	

SEMIVOLATILE NON-TAL CONTAMINANTS

2-Pentanone, 4-hydroxy-4-methyl-	1000	AJN
3-Penten-2-one, 4-methyl-	5600	AJN
4-Penten-2-one, 4-methyl-	70	JN
9-Octadecenoic acid (Z)-, methyl ester	110	JN
Hexadecanoic acid, methyl ester	120	JN
n-Hexadecanoic acid	97	JN
Total Alkanes	470	

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FRACTION	SOIL:	--	--	100.0	100.0	100.0	100.0	100.0	

PREDICTION INTERVAL LIMITS						LABORATORY DATA		
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE

SEMIVOLATILES SIM IN WATER MATRIX**SEMIVOLATILE SIM TARGET ANALYTES**

Naphthalene	0.1	0.26	0.31	0.49	0.54	0.38	
2-Methylnaphthalene	0.1	0.54	0.65	1.0	1.2	0.82	
Acenaphthylene	0.1	0.32	0.38	0.62	0.69	0.46	
Acenaphthene	0.1	0.71	0.88	1.5	1.7	1.2	
Pentachlorophenol	0.2	N.L.	0.46	1.6	1.9	0.71	
Phenanthrene	0.1	0.38	0.44	0.69	0.76	0.50	
Fluoranthene	0.1	0.63	0.73	1.1	1.2	0.84	
Pyrene	0.1	0.45	0.55	0.94	1.0	0.67	
Benzo(a)anthracene	0.1	0.35	0.41	0.64	0.70	0.46	
Benzo(b)fluoranthene	0.1	0.42	0.53	0.94	1.0	0.65	
Benzo(k)fluoranthene	0.1	0.48	0.61	1.1	1.2	0.83	
Benzo(a)pyrene	0.1	0.23	0.32	0.63	0.72	0.41	
Indeno(1,2,3-cd)pyrene	0.1	0.36	0.48	0.95	1.1	0.69	
Dibenzo(a,h)anthracene	0.1	0.47	0.62	1.2	1.3	0.85	
Benzo(g,h,i)perylene	0.1	0.55	0.67	1.1	1.2	0.85	

SEMIVOLATILE SIM TAL CONTAMINANTS

Anthracene	0.1	NU	NU	NU	NU	0.030	J
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SEMIVOLATILES SIM IN SOIL MATRIX**SEMIVOLATILE SIM TARGET ANALYTES**

Naphthalene	3.3	5.1	8.6	22	25	14	
2-Methylnaphthalene	3.3	6.7	10	24	27	15	
Acenaphthylene	3.3	8.2	11	22	25	13	
Acenaphthene	3.3	10	14	26	29	17	
Pentachlorophenol	6.7	N.L.	12	51	62	23	
Anthracene	3.3	8.0	11	21	24	13	
Pyrene	3.3	13	18	33	37	24	
Chrysene	3.3	11	14	25	28	19	
Benzo(b)fluoranthene	3.3	10	15	31	36	22	
Benzo(k)fluoranthene	3.3	17	23	46	53	36	
Benzo(a)pyrene	3.3	NU	NU	NU	NU	3.3	U
Dibenzo(a,h)anthracene	3.3	11	16	33	37	23	

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FRACTION	SOIL:	--	--	100.0	100.0	100.0	100.0	100.0	

PREDICTION INTERVAL LIMITS						LABORATORY DATA		
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE

PESTICIDES IN WATER MATRIX**PESTICIDE TARGET ANALYTES**

beta-BHC	0.05	0.14	0.16	0.25	0.28	0.25	
delta-BHC	0.05	0.16	0.20	0.36	0.41	0.33	
Aldrin	0.05	0.23	0.28	0.48	0.54	0.48	
Endosulfan I	0.05	NU	NU	NU	NU	0.050	U
4,4'-DDE	0.1	0.19	0.23	0.37	0.41	0.35	
Endrin	0.1	0.57	0.69	1.1	1.3	0.87	
Endosulfan II	0.1	NU	NU	NU	NU	0.10	U
Endosulfan sulfate	0.1	0.44	0.52	0.84	0.93	0.73	
Methoxychlor	0.5	1.1	1.4	2.2	2.4	1.8	
cis-Chlordane	0.05	0.26	0.32	0.53	0.58	0.48	

PESTICIDE TAL CONTAMINANTS

Endrin ketone	0.1	NU	NU	NU	NU	0.046	J
Endrin aldehyde	0.1	NU	NU	NU	NU	0.031	J

PESTICIDES IN SOIL MATRIX**PESTICIDE TARGET ANALYTES**

beta-BHC	1.7	12	15	23	26	19	
delta-BHC	1.7	NU	NU	NU	NU	1.7	U
Heptachlor	1.7	6.8	8.2	13	14	11	
Endosulfan I	1.7	12	15	24	26	15	
Dieldrin	3.3	24	28	42	45	34	
Endrin	3.3	23	26	37	40	31	P
Endosulfan II	3.3	25	28	41	44	30	
4,4'-DDD	3.3	12	14	21	23	16	
4,4'-DDT	3.3	13	16	26	29	19	P
Endrin ketone	3.3	12	14	22	24	17	
Endrin aldehyde	3.3	4.1	6.3	14	16	7.7	
cis-Chlordane	1.7	8.8	10	16	18	13	
trans-Chlordane	1.7	12	14	22	24	17	

PESTICIDE TAL CONTAMINANTS

4,4'-DDE	3.3	NU	NU	NU	NU	4.2	
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AROCLORS IN WATER MATRIX**AROCLOR TARGET ANALYTES**

Aroclor-1016	1	6.0	6.9	10	11	7.9	
Aroclor-1260	1	3.9	4.6	7.0	7.7	5.6	

AROCLORS IN SOIL MATRIX**AROCLOR TARGET ANALYTES**

Aroclor-1242	33	140	180	290	320	200	
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FRACTION	SOIL:	--	--	100.0	100.0	100.0	100.0	100.0	

PREDICTION INTERVAL LIMITS						LABORATORY DATA		
ANALYTE	CRQL	LOW ACTION	LOW WARN	HIGH WARN	HIGH ACTION	CONC	Q	ILSR CODE

Summary of laboratory deficiencies:

Number of target analytes not identified: 0
 Number of target analytes outside action limits: 0
 Number of TAL contaminants over SOW limits: 0
 Number of non-target analytes not identified: 0

Data package timeliness:

Date data package due for scoring: 6/2/2022
 Date complete data package received: 6/1/2022
 Days no lateness applied (weekends, etc.): 0
 Net number of days late: 0

Number of target analytes added to PES and used for scoring: 164

EXPLANATION OF SUPERFUND ORGANIC METHODS INDIVIDUAL LABORATORY SUMMARY REPORT (ILSR)

SUMMARY OF DEFINITIONS USED:

Concentration Units: µg/L for water samples; µg/Kg for soil samples; mg/L for TCLP samples.

CRQL: CLP SOW Contract Required Quantitation Limit (unadjusted for dilution, moisture, sample size).

PREDICTION INTERVAL LIMITS:

< CRQL	TAL contaminant concentrations below CRQL (adjusted for dilution, etc.) are not flagged.
< 2xCRQL	TAL contaminant concentrations below 2 times CRQL (adjusted for dilution, etc.) are not flagged.
< 5xCRQL	TAL contaminant concentrations below 5 times CRQL (adjusted for dilution, etc.) are not flagged.
> 0	Non-target analyte used in scoring. If not identified, will be flagged.
NU	Limit not used in scoring analyte or contaminant.
NL	No numeric low limit is set for this target analyte because the calculated Prediction Interval limit is below the CRQL.

LABORATORY DATA:

CONC	Laboratory reported concentration.
Q	Laboratory reported concentration qualifier(s).
NS	Analyte results not submitted by laboratory.

ILSR CODE:

&	Target or non-target analyte not identified.	- POINTS DEDUCTED
X	Target analyte concentration outside action limits.	- POINTS DEDUCTED
C	TAL contaminant exceeds SOW-defined limit.	- POINTS DEDUCTED
\$	Target analyte concentration outside warning limits, within action limits.	- NO POINTS DEDUCTED
NR	Non-target analyte identification not required.	- NO POINTS DEDUCTED

PROGRAM SUMMARY DATA:

OUTSIDE LIMITS	Number of laboratory results outside the prediction interval action limits for the analyte.
NOT ID CPD	Number of laboratory results with no identification of the analyte.
ID CPD	Number of laboratory results with identification of the analyte.
TOTAL	Total number of laboratory results.

SUMMARY OF SCORING METHOD:

The total score, performance, and rank listed at the top of each ILSR page and the summary of laboratory deficiencies listed at the end of each ILSR are all based upon the composite results from all samples and matrices evaluated. The scores by fraction are each based on a single analysis type and matrix.

The following algorithm is used for scoring:

$$\text{Score} = 100 - (125 * \{2A + B + C\} / T) - (2.2 * D) - L$$

where:

- A = Number of target analytes added to the sample(s) which the laboratory did not identify.
- B = Number of target analytes added to the sample(s) which the laboratory identified but quantitated outside the action limits.
- C = Number of TAL contaminants (analytes not added to the sample(s)) which the laboratory quantitated above the CLP SOW limits for blank contamination.
- D = Number of non-target analytes added to the sample(s) which the laboratory did not identify. The D term is limited to a maximum deduction of 11 points.
- L = Number of days the data package was received late at SMO (or number of days the last fraction was received late, if fractions were submitted separately).
If a laboratory submits supplemental and/or revised data after the data package due date, penalties are applied for resubmissions that affect scoring. The L term is limited to a maximum deduction of 10 points.
- T = Total number of target analytes added to the sample(s) which were used for scoring (excludes analytes with NU as limits).

Warning and action limits are statistically calculated from CLP laboratory results and/or historical results for the analytes.

The warning limits are set at the 80% confidence level; the action limits are set at the 95% confidence level.

- If a target or non-target analyte added to the sample is not identified by 40% or more of the laboratories, then that analyte is not used in scoring and NU appears in place of the limits.
- If a target analyte not added to the sample (a TAL contaminant) is identified by 40% or more of the laboratories, then that analyte is not used in scoring and NU appears in place of the limit.

For target analytes, identification consists of listing a concentration on Form 1A-OR without the U qualifier.

For non-target analytes, identification consists of listing a valid name and concentration on FORM 1B-OR.

- A valid non-target analyte name is one which can be recognized as (1) a proper name for the analyte or any synonym, or (2) the name of another analyte (typically an isomer) with a nearly identical mass spectrum. For example, "unknown" is not valid as identification of 2-chlorotoluene for purposes of scoring, while all the following are valid as identification of 2-chlorotoluene: "1-chloro-2-methylbenzene", "unknown chlorotoluene isomer", "possibly 4-chlorotoluene", and "4-chlorotoluene".

Laboratory performance falls into one of three categories:

- "ACCEPTABLE, No Response Required" - for a Total Score of 90.0 or more.
- "ACCEPTABLE, Response Explaining Deficiency(ies) Required" - for a Total Score of 75.0 or more, but below 90.0.
- "UNACCEPTABLE, Response Explaining Deficiency(ies) Required" - for a Total Score below 75.0.