

CLIENT DETAILS

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Project **Mungindi Discharge Event Monitoring**
Order Number **(Not specified)**
Samples **3**

LABORATORY DETAILS

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Laboratory **SGS Brisbane Environmental**
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SGS Reference **BE008346 R0**
Report Number **0000026489**
Date Reported **10 Mar 2014**
Date Received **26 Feb 2014**

COMMENTS

Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(20707/1706).

Sample(s) received after the recommended maximum holding time had elapsed.
OCOP: At least 2 of the 3 surrogates passes acceptance criteria.
OCOP: OCOP surrogate recovery for sample Drainage Channel NE of N Module Yard were low due to the sample emulsifying during extraction.
OCOP: Some OP LCS recoveries were reported below acceptance criteria. No significant levels of these analytes were detected.
OCOP/SVOC: OCOP and SVOC detection limits were raised for samples due to sample matrix interferences.
Nutrients subcontracted to SGS Perth Environmental, 10 Reid Rd Newburn WA, NATA Accreditation Number 2562, Site Number 898, PE086422 R0

SIGNATORIES



Jeremy Truong
Business Manager



Leanne Orsmond
Inorganics Supervisor



Michael Morrison
Senior Organic Chemist

	Sample Number	BE008346.001	BE008346.002	BE008346.003
	Sample Matrix	Water	Water	Water
	Sample Date	20 Feb 2014	20 Feb 2014	20 Feb 2014
	Sample Name	MG Site 3	MG Site 4	MG Site 5
Parameter	Units	LOR	NE of N Module	Pond E Module
			Sedimentation	Sedimentation
			Pond W Module	

pH in water Method: AN101

pH**	pH Units	0.1	8.5	6.4	6.7
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Conductivity and TDS by Calculation - Water Method: AN106

Conductivity @ 25 C	µS/cm	2	110	74	120
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Total and Volatile Suspended Solids (TSS / VSS) Method: AN114

Total Suspended Solids Dried at 103-105°C	mg/L	1	500	530	450
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Total Nitrogen by Persulphate Digestion DA Method: AN294/WC250.65

Total Nitrogen (Persulphate Digestion)	mg/L	0.02	3.2	3.3	4.2
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Total Phosphorus by Persulphate Digestion DA in Water Method: AN294/WC270.312

Total Phosphorus (Persulphate Digestion)	mg/L	0.02	1.1	1.5	1.7
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OC Pesticides in Water Method: AN400/AN420

Alpha BHC	µg/L	0.1	<0.41	<0.41	<0.41
Hexachlorobenzene (HCB)	µg/L	0.1	<0.41	<0.41	<0.41
Beta BHC	µg/L	0.1	<0.41	<0.41	<0.41
Lindane (gamma BHC)	µg/L	0.1	<0.41	<0.41	<0.41
Delta BHC	µg/L	0.1	<0.41	<0.41	<0.41
Heptachlor	µg/L	0.1	<0.41	<0.41	<0.41
Aldrin	µg/L	0.1	<0.41	<0.41	<0.41
Heptachlor epoxide	µg/L	0.1	<0.41	<0.41	<0.41
Isodrin	µg/L	0.1	<0.41	<0.41	<0.41
Gamma Chlordane	µg/L	0.1	<0.41	<0.41	<0.41
Alpha Chlordane	µg/L	0.1	<0.41	<0.41	<0.41
Alpha Endosulfan	µg/L	0.1	<0.41	<0.41	<0.41
p,p'-DDE	µg/L	0.1	<0.41	<0.41	<0.41
Dieldrin	µg/L	0.1	<0.41	<0.41	<0.41
Endrin	µg/L	0.1	<0.41	<0.41	<0.41
Beta Endosulfan	µg/L	0.1	<0.41	<0.41	<0.41
p,p'-DDD	µg/L	0.1	<0.41	<0.41	<0.41
Endosulfan sulphate	µg/L	0.1	<0.41	<0.41	<0.41
p,p'-DDT	µg/L	0.1	<0.41	<0.41	<0.41
Endrin ketone	µg/L	0.1	<0.41	<0.41	<0.41
Methoxychlor	µg/L	0.1	<0.41	<0.41	<0.41
Mirex	µg/L	0.1	<0.41	<0.41	<0.41

Sample Number	BE008346.001	BE008346.002	BE008346.003		
Sample Matrix	Water	Water	Water		
Sample Date	20 Feb 2014	20 Feb 2014	20 Feb 2014		
Sample Name	MG Site 3	MG Site 4	MG Site 5		
Parameter	Units	LOR	NE of N Module	Sedimentation Pond E Module	Sedimentation Pond W Module

OC Pesticides in Water Method: AN400/AN420 (continued)

Surrogates

Parameter	Units	LOR	NE of N Module	Sedimentation Pond E Module	Sedimentation Pond W Module
d14-p-terphenyl (Surrogate)	%	-	4	6	6
2-fluorobiphenyl (Surrogate)	%	-	18	20	24
d5-nitrobenzene (Surrogate)	%	-	18	20	24

OP Pesticides in Water Method: AN400/AN420

Parameter	Units	LOR	NE of N Module	Sedimentation Pond E Module	Sedimentation Pond W Module
Dichlorvos	µg/L	1	<1	<1	<1
Dimethoate	µg/L	1	<1	<1	<1
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2

Surrogates

Parameter	Units	LOR	NE of N Module	Sedimentation Pond E Module	Sedimentation Pond W Module
d14-p-terphenyl (Surrogate)	%	-	4	6	6
d5-nitrobenzene (Surrogate)	%	-	18	20	24
2-fluorobiphenyl (Surrogate)	%	-	18	20	24

Other SVOC Analytes in Water Method: AN420

OPs

Parameter	Units	LOR	NE of N Module	Sedimentation Pond E Module	Sedimentation Pond W Module
Carbophenothion	µg/L	0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	µg/L	0.5	<0.5	<0.5	<0.5
Dichlofenthion	µg/L	0.5	<0.5	<0.5	<0.5
Dioxathion	µg/L	2	<2	<2	<2
Famphur (Famophos)	µg/L	0.5	<0.5	<0.5	<0.5
Fonophos	µg/L	0.5	<0.5	<0.5	<0.5
Terbufos	µg/L	0.5	<0.5	<0.5	<0.5



ANALYTICAL REPORT

BE008346 R0

Sample Number	BE008346.001	BE008346.002	BE008346.003
Sample Matrix	Water	Water	Water
Sample Date	20 Feb 2014	20 Feb 2014	20 Feb 2014
Sample Name	MG Site 3	MG Site 4	MG Site 5
Parameter	Drainage Channel	Sedimentation	Sedimentation
Units	LOR	Pond E Module	Pond W Module

Other SVOC Analytes in Water Method: AN420 (continued)
other SVOCs

Thionazin	µg/L	1	<1	<1	<1
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MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared to the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Conductivity and TDS by Calculation - Water Method: ME-(AU)-[ENV]JAN106

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Conductivity @ 25 C	LB013316	µS/cm	2	<2	0%	98%

OC Pesticides in Water Method: ME-(AU)-[ENV]JAN400/AN420

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Alpha BHC	LB013331	µg/L	0.1	<0.1	
Hexachlorobenzene (HCB)	LB013331	µg/L	0.1	<0.1	
Beta BHC	LB013331	µg/L	0.1	<0.1	
Lindane (gamma BHC)	LB013331	µg/L	0.1	<0.1	103%
Delta BHC	LB013331	µg/L	0.1	<0.1	
Heptachlor	LB013331	µg/L	0.1	<0.1	95%
Aldrin	LB013331	µg/L	0.1	<0.1	102%
Heptachlor epoxide	LB013331	µg/L	0.1	<0.1	
Isodrin	LB013331	µg/L	0.1	<0.1	113%
Gamma Chlordane	LB013331	µg/L	0.1	<0.1	99%
Alpha Chlordane	LB013331	µg/L	0.1	<0.1	
Alpha Endosulfan	LB013331	µg/L	0.1	<0.1	
p,p'-DDE	LB013331	µg/L	0.1	<0.1	
Dieldrin	LB013331	µg/L	0.1	<0.1	98%
Endrin	LB013331	µg/L	0.1	<0.1	89%
Beta Endosulfan	LB013331	µg/L	0.1	<0.1	
p,p'-DDD	LB013331	µg/L	0.1	<0.1	94%
Endosulfan sulphate	LB013331	µg/L	0.1	<0.1	
p,p'-DDT	LB013331	µg/L	0.1	<0.1	
Endrin ketone	LB013331	µg/L	0.1	<0.1	
Methoxychlor	LB013331	µg/L	0.1	<0.1	
Mirex	LB013331	µg/L	0.1	<0.1	108%

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d14-p-terphenyl (Surrogate)	LB013331	%	-	130%	20%
2-fluorobiphenyl (Surrogate)	LB013331	%	-	30%	22%
d5-nitrobenzene (Surrogate)	LB013331	%	-	130%	22%

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared to the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

OP Pesticides in Water Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dichlorvos	LB013331	µg/L	1	<1	
Dimethoate	LB013331	µg/L	1	<1	
Diazinon (Dimpylate)	LB013331	µg/L	0.5	<0.5	46%
Fenitrothion	LB013331	µg/L	0.2	<0.2	
Malathion	LB013331	µg/L	0.2	<0.2	
Chlorpyrifos (Chlorpyrifos Ethyl)	LB013331	µg/L	0.2	<0.2	99%
Parathion-ethyl (Parathion)	LB013331	µg/L	0.2	<0.2	84%
Bromophos Ethyl	LB013331	µg/L	0.2	<0.2	
Methidathion	LB013331	µg/L	0.5	<0.5	82%
Ethion	LB013331	µg/L	0.2	<0.2	
Azinphos-methyl	LB013331	µg/L	0.2	<0.2	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d14-p-terphenyl (Surrogate)	LB013331	%	-	26%	20%
d5-nitrobenzene (Surrogate)	LB013331	%	-	30%	22%
2-fluorobiphenyl (Surrogate)	LB013331	%	-	26%	22%

Other SVOC Analytes in Water Method: ME-(AU)-[ENV]AN420

OPs

Parameter	QC Reference	Units	LOR	MB
Carbophenothion	LB013331	µg/L	0.5	<0.5
Chlorpyrifos-methyl	LB013331	µg/L	0.5	<0.5
Dichlofenthion	LB013331	µg/L	0.5	<0.5
Dioxathion	LB013331	µg/L	2	<2
Famphur (Famophos)	LB013331	µg/L	0.5	<0.5
Fonophos	LB013331	µg/L	0.5	<0.5
Terbufos	LB013331	µg/L	0.5	<0.5

other SVOCs

Parameter	QC Reference	Units	LOR	MB
Thionazin	LB013331	µg/L	1	<1

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared to the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

pH in water Method: ME-(AU)-[ENV]AN101

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
pH**	LB013317	pH Units	0.1	5.6 - 6.1	0%	100%

Total and Volatile Suspended Solids (TSS / VSS) Method: ME-(AU)-[ENV]AN114

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Total Suspended Solids Dried at 103-105°C	LB013349	mg/L	1	<1	1 - 5%	103%

METHOD

METHODOLOGY SUMMARY

AN083	Separatory funnels are used for aqueous samples and extracted by transferring an appropriate volume (mass) of liquid into a separatory funnel and adding 3 serial aliquots of dichloromethane. Samples receive a single extraction at pH 7 to recover base / neutral analytes and two extractions at pH < 2 to recover acidic analytes. QC samples are prepared by spiking organic free water with target analytes and extracting as per samples.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode (glass plus reference electrode) and is calibrated against 3 buffers purchased commercially. For soils, an extract with water is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN106	Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$ @ 25°C. For soils, an extract with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Total Dissolved Salts can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. SGS use 0.6. Reference APHA 2520 B.
AN114	Total Suspended and Volatile Suspended Solids: The sample is homogenised by shaking and a known volume is filtered through a pre-weighed GF/C filter paper and washed well with deionised water. The filter paper is dried and reweighed. The TSS is the residue retained by the filter per unit volume of sample. Reference APHA 2540 D. Internal Reference AN114
AN294/WC250.65	The sample is digested at 121°C in an autoclave using an alkaline persulphate reagent to convert nitrogen compounds to nitrate. Oxidation of the nitrogen compounds take place in an alkaline medium while the oxidation of phosphorus compounds is via an acidic medium. The dual oxidation is accomplished as persulphate is converted during the digest to acidic hydrogen sulphate.
AN294/WC250.65	The final pH of the solution is about 1.8 and requires a neutralisation step before cadmium reduction and N-1-Naphthylethylenediamine coupling. The nitrate concentration of a sample is determined by passing a filtered sample through a column of copper coated cadmium granules. Nitrate (NO ₃) is reduced to Nitrite (NO ₂). The nitrite concentration is then determined using the Sulphanilamide –NED method.
AN294/WC270.312	Phosphorus (total) is analysed colourimetrically after Persulphate digestion. Orthophosphate reacts with molybdenum (VI) and antimony (III) in an acid medium to form an antimony-phosphomolybdate complex. This complex is subsequently reduced with ascorbic acid to form a blue color and the absorbance is measured at 880nm.
AN400	OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	This analysis is not covered by the scope of accreditation.	QFH	QC result is above the upper tolerance
**	Indicative data, theoretical holding time exceeded.	QFL	QC result is below the lower tolerance
^	Performed by outside laboratory.	-	The sample was not analysed for this analyte
		NVL	Not Validated

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
<http://www.sgs.com.au/pv.sgsv3/~media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf>

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Order								
Project	Mungindi Discharge Event Monitoring							
				Sample Name	BE008346.001	BE008346.002	BE008346.003	
				Description	MG Site 3 Drainage Channel NE of N Module Yard	MG Site 4 Sedimentation Pond E Module Yard	MG Site 5 Sedimentation Pond W Module Yard	
				Sample Date	20/2/2014	20/2/2014	20/2/2014	
				Matrix	Water	Water	Water	
Job Number	Method Name	Analyte Name	Units	Reporting Limit	Result	Result	Result	Result
BE008346	pH in water	pH**	pH Units	0.1	6.5	6.4	6.7	
BE008346	Conductivity and TDS by Calculte	Conductivity @ 25 C	µS/cm	2	110	74	120	
BE008346	Total and Volatile Suspended Sc	Total Suspended Sol	mg/L	1	500	530	450	
BE008346	Total Nitrogen by Persulphate D	Total Nitrogen (Pers	mg/L	0.02	3.2	3.3	4.2	
BE008346	Total Phosphorus by Persulphat	Total Phosphorus (P	mg/L	0.02	1.1	1.5	1.7	
BE008346	OC Pesticides in Water	Alpha BHC	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Hexachlorobenzene	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Beta BHC	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Lindane (gamma BH	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Delta BHC	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Heptachlor	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Aldrin	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Heptachlor epoxide	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Isodrin	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Gamma Chlordane	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Alpha Chlordane	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Alpha Endosulfan	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	p,p'-DDE	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Dieldrin	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Endrin	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Beta Endosulfan	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	p,p'-DDD	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Endosulfan sulphate	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	p,p'-DDT	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Endrin ketone	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Methoxychlor	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	Mirex	µg/L	0.1	<0.4	<0.4	<0.4	
BE008346	OC Pesticides in Water	d14-p-terphenyl (Sur	%	0	4	6	6	
BE008346	OC Pesticides in Water	2-fluorobiphenyl (Sur	%	0	18	20	24	
BE008346	OC Pesticides in Water	d5-nitrobenzene (Sur	%	0	18	20	24	
BE008346	OP Pesticides in Water	Dichlorvos	µg/L	1	<1	<1	<1	
BE008346	OP Pesticides in Water	Dimethoate	µg/L	1	<1	<1	<1	
BE008346	OP Pesticides in Water	Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	
BE008346	OP Pesticides in Water	Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	
BE008346	OP Pesticides in Water	Malathion	µg/L	0.2	<0.2	<0.2	<0.2	
BE008346	OP Pesticides in Water	Chlorpyrifos (Chlorpy	µg/L	0.2	<0.2	<0.2	<0.2	
BE008346	OP Pesticides in Water	Parathion-ethyl (Para	µg/L	0.2	<0.2	<0.2	<0.2	
BE008346	OP Pesticides in Water	Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	
BE008346	OP Pesticides in Water	Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	
BE008346	OP Pesticides in Water	Ethion	µg/L	0.2	<0.2	<0.2	<0.2	
BE008346	OP Pesticides in Water	Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	
BE008346	OP Pesticides in Water	d14-p-terphenyl (Sur	%	0	4	6	6	
BE008346	OP Pesticides in Water	d5-nitrobenzene (Sur	%	0	18	20	24	
BE008346	OP Pesticides in Water	2-fluorobiphenyl (Sur	%	0	18	20	24	
BE008346	Other SVOC Analytes in Water	Carbophenothion	µg/L	0.5	<0.5	<0.5	<0.5	
BE008346	Other SVOC Analytes in Water	Chlorpyrifos-methyl	µg/L	0.5	<0.5	<0.5	<0.5	
BE008346	Other SVOC Analytes in Water	Dichlofenthion	µg/L	0.5	<0.5	<0.5	<0.5	
BE008346	Other SVOC Analytes in Water	Dioxathion	µg/L	2	<2	<2	<2	
BE008346	Other SVOC Analytes in Water	Famphur (Famophos	µg/L	0.5	<0.5	<0.5	<0.5	
BE008346	Other SVOC Analytes in Water	Fonophos	µg/L	0.5	<0.5	<0.5	<0.5	
BE008346	Other SVOC Analytes in Water	Terbufos	µg/L	0.5	<0.5	<0.5	<0.5	
BE008346	Other SVOC Analytes in Water	Thionazin	µg/L	1	<1	<1	<1	