



**INORGANIC ENVIRONMENTAL GEOCHEMISTRY RESEARCH GROUP
INSTITUTE OF EARTH SCIENCES
UNIVERSITY OF HEIDELBERG**

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June 30, 2009

To:

Mayor of Simcoe County, Mr. Tony Guergis
CAO of Simcoe County, Mr. Mark Aitken
Clerk and Councillors of Simcoe County
Chair, Site 41 Community Monitoring Committee, Mr. Rob Cobbett
Members, Site 41 Community Monitoring Committee

for immediate release to the public

June 30, 2009

re:

- 1. testing of groundwaters in the vicinity of Site 41 for nitrate and phosphate
AND**
- 2. testing of groundwaters in the vicinity of Site 41 for organic contaminants
AND**
- 3. testing of groundwaters in the vicinity of Site 41 for trace metals**

On Friday May 22, water samples were collected from the artesian flow on the Parnell farm, adjacent to Site 41, in Tiny Township, with the following objectives:

1. Determination of nitrate and phosphate,
2. Determination of frequently detected organic contaminants (volatile compounds and pesticides), and
3. Determination of a broad suite of trace metals.

Triplicate samples were taken in each of these three cases, in appropriate bottles which had been suitably cleaned.

In the case of the bottles for organic contaminants, they were carefully cleaned and baked glass bottles which had been supplied for this purpose by the Laboratory of Water and Soil Protection, Canton of Berne, Switzerland.

With respect to the plastic bottles for trace metal determinations, they were cleaned in double-distilled nitric acid in the Ultratrace Metals lab at the Institute of Earth Sciences, University of Heidelberg, using the same procedures we have always used when testing groundwaters; these are the same methods and procedures that we have used successfully in testing ice cores from the Arctic for trace metals.

Samples were kept cold, and shipped cold to the testing labs.

Nitrate and phosphate were measured at the Institute of Earth Sciences, University of Heidelberg, Germany. All of the samples for organic contaminants were tested in Berne, Switzerland, at the laboratory noted above, by Dr. Jean-Daniel Berset.

RESULTS TO DATE

1. Nitrate and Phosphate

Using ion chromatography with conductivity detection, nitrate and phosphate were below the limits of detection in all three samples. The limits of detection were 0.5 and 1.0 mg/l, respectively.

I note further that I have measured phosphate in these waters in the past, but the concentrations are so low (< 10 parts per billion) that we can only measure it using ICP sector-field mass spectrometry.

2. Organic Contaminants

With respect to organic contaminants (volatile compounds and pesticides), none were found in any of the samples.

The limits of quantitation for volatile organic compounds (VOCs) provided by the lab were low: 100 ng/l (nanograms per litre, or parts per trillion) for most, but 50 ng/l in the case of MTBE and ETBE. The limits of quantitation for pesticides were very low, namely 20 ng/l (nanograms per litre = parts per trillion). Despite the sensitivity of the methods used, none of the contaminants sought could be measured.

The limits of **quantitation** refer to the minimum concentrations that can be reliably measured in a sample. The limits of **detection**, on the other hand, refer to the lowest quantity of a substance that can be reliably distinguished from the absence of that substance (ie the lowest quantity which can be distinguished from a blank value).

I wish to add further that the limits of detection were extremely low for the pesticides, namely 1 ng/l, or one part per trillion. However, none of the contaminants could be detected. According to the analyst, Dr. Jean-Daniel Berset, he has "never before seen such a clean groundwater". In fact, it has become his "reference groundwater", because there is nothing to be found in it.

The results of these measurements are attached to this email.

3. Trace Metals

The determination of trace metals will be undertaken in the coming weeks. Sample storage is not an issue for the trace metals, as the samples are preserved by acidification using high purity acid. I expect that these results will be similar to the results that we have been obtaining from this site, sampled on and off several times per year, for the past five years.

COMPARISON WITH OTHER ARTESIAN FLOWS IN THE AREA

On the same day, triplicate samples for these three classes of compounds were collected at the Shotyk family farm property, ca. 3 km south of Site 41 (hydrologically upgradient and cross gradient with respect to Site 41), and at the artesian flow adjacent to Hwy 27 ca. 1 km N of Elmvale. Both of these sites are in Springwater Township, but they represent two distinct aquifers: the former is at a depth of only 13 m, the latter at a depth of approximately 55 m; both are artesian flows. The results are identical: nitrate and phosphate below detection, and all organic contaminants below detection, at both sites. The reports containing the results of the measurements of the organic contaminants at these sites are also appended to this letter.

Again, trace metal analyses will be undertaken in the coming weeks.

In the report by Dr. Berset, the artesian flow on the Shotyk farm property is referred to as the "New Well", as the samples were collected from this new, purpose-built, stainless steel groundwater research well.

NEXT STEPS

I will be repeating all of this testing, in triplicate, for all of these parameters, at all of these sites, and possibly at some additional artesian flows in the area, in autumn.

I very much hope that this information is understandable, and useful. I would be happy to answer any questions.

I will be back in Canada during August and September, and would be happy to present the results to County Council and the CMC in person, if that would be helpful.

I believe that we are very fortunate indeed, to have freshwater resources of this quality.

The global climate system is changing in ways that we do not fully understand, with obvious consequences for the hydrological cycle. With our population continuing to grow, the value of high quality freshwater will only increase in future.

With my sincere thanks for your time.

William Shotyk, Ph.D.
Professor

cc: Gord Leonard, Anne Ritchie-Nahuis, Michael Grant, Stephen Ogden
cc: MOE Officials Cindy Hood and John Kaasalainen
cc: Site inspector, Greg Athron
cc: Simcoe County, Rob McCullough
cc: Clerk of Simcoe County, Glen Knox
cc: Simcoe County Councillors
cc: Mark Aitken, CAO and Tony Guergis, Warden, Simcoe County



APPENDIX. SUMMARY OF RESULTS PROVIDED BY DR. JEAN-DANIEL BERSET

Several ground water samples were obtained in triplicate from: Parnell, HWY 27, and "New Well".

The samples were taken by Prof. B. Shotyk in May 2009 and sent in a cool box to the Water and Soil Protection Laboratory, Berne, Switzerland, in pre-rinsed 250 ml all glass brown glass bottles.

Samples were analyzed within 48 hours after receipt of the samples.

Samples were first analyzed for volatile organic contaminants (VOC) such as chlorinated hydrocarbons, BTEX (benzene, toluene, ethylbenzene, and xylenes) as well as MTBE and ETBE. BTEX and MTBE and ETBE are characteristic tracers for traffic emissions. Samples were analyzed by combined static headspace (HS) –HRGC-EI-SIM-mass spectrometry. The LOQ (limit of quantification defined as signal/noise 10:1) was 0.10 µg/L (100 ng/L).

In a second step samples were analyzed for selected pesticides (herbicides, insecticides) like triazines, organophosphates, phenylurea herbicides, chloroacetanilide herbicides just to mention the most important ones. Moreover selected metabolites such as DEA, DIPA and the OXA and ESA –metabolites of Metolachlor and Propachlor as well as some acidic herbicides such as Bentazon and Mecoprop were analyzed. Samples were not treated (enrichment procedures) but analyzed by direct injection (DI) of the water samples to minimize laboratory contamination. The analysis was performed using HPLC-tandem mass spectrometry on an API 5000 (HPLC-MSMS) in the so-called MRM (multiple reaction monitoring) mode. This mode is mainly used for quantification, is highly specific and very sensitive and virtually excludes false positive results. The LOQ obtained was 20 ng/L. The LOD are around 1 ng/L for most of the compounds.

Results:

VOC:

Samples did not contain any traces of VOC.

Comment:

The samples termed Parnell, HWY27 and New Well contained VOC normally << LOD (30 ng/L). These samples can be considered as very clean with regard to VOC.

Pesticides:

No traces of pesticides could be detected in any of the samples. This is surprising as normally pesticides such as Atrazine, desethyl-Atrazine, Propazine and Simazine can be detected up to 50 ng/L in ground water samples. Using the API 5000 HPLC-MSMS signals down to 1 ng/L for most of the compounds can be seen. In the samples analyzed however, not even such traces could be detected. It can therefore be concluded, that these water samples are of exceptional quality, e.g. as encountered in spring water samples, as pesticides are a major group of organic contaminants found in ground water samples.

Conclusions:

The Elmvale water samples analyzed for VOC and pesticides, two major groups of organic contaminants found in ground water, are free of these compounds.

None of the samples contained any traces of frequently detected pesticides such as atrazine, propazine and simazine as well as some important metabolites. It can therefore be concluded, that these waters are of exceptional quality as encountered in the analysis of spring water.

J.D.Berset PhD
Analytical chemist. Berne. Switzerland



Prüfbericht

AE02 29.06.2009 10:43 1/2

Probennummer : **09/0446-01**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kantons Aargau
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **Parnell 1**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
	o-Xylol	< 100	ng/l		<A
	Styrol	< 100	ng/l		<A
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:43 2/2

Probennummer : **09/0446-01**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kantons Aargau
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **Parnell 1**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
	Metolachlor	< 20	ng/l		<A
PSM 2 mittels HPLC- MS/MS	Diazinon	< 20	ng/l		<A
	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
Mecoprop	< 20.0	ng/l		<A	

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)



Prüfbericht

AE02 29.06.2009 10:45 1/2

Probennummer : **09/0446-02**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **Parnell 2**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
o-Xylol	< 100	ng/l		<A	
Styrol	< 100	ng/l		<A	
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:45 2/2

Probennummer : **09/0446-02**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **Parnell 2**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
	Metolachlor	< 20	ng/l		<A
PSM 2 mittels HPLC- MS/MS	Diazinon	< 20	ng/l		<A
	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
Mecoprop	< 20.0	ng/l		<A	

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)



Prüfbericht

AE02 29.06.2009 10:46 1/2

Probennummer : **09/0446-03**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **Parnell 3**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
o-Xylol	< 100	ng/l		<A	
Styrol	< 100	ng/l		<A	
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:46 2/2

Probennummer : **09/0446-03**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **Parnell 3**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
	Metolachlor	< 20	ng/l		<A
Diazinon	< 20	ng/l		<A	
PSM 2 mittels HPLC- MS/MS	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
	Mecoprop	< 20.0	ng/l		<A

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)



Prüfbericht

AE02 29.06.2009 10:46 1/2

Probennummer : **09/0446-04**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **HWY 27-1**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
o-Xylol	< 100	ng/l		<A	
Styrol	< 100	ng/l		<A	
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:46 2/2

Probennummer : **09/0446-04**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **HWY 27-1**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
Metolachlor	< 20	ng/l		<A	
PSM 2 mittels HPLC- MS/MS	Diazinon	< 20	ng/l		<A
	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
Mecoprop	< 20.0	ng/l		<A	

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)



Prüfbericht

AE02 29.06.2009 10:47 1/2

Probennummer : **09/0446-05**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **HWY 27-2**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
o-Xylol	< 100	ng/l		<A	
Styrol	< 100	ng/l		<A	
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:47 2/2

Probennummer : **09/0446-05**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **HWY 27-2**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
Metolachlor	< 20	ng/l		<A	
PSM 2 mittels HPLC- MS/MS	Diazinon	< 20	ng/l		<A
	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
Mecoprop	< 20.0	ng/l		<A	

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)



Prüfbericht

AE02 29.06.2009 10:47 1/2

Probennummer : **09/0446-06**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kantons Aargau
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **HWY 27-3**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
o-Xylol	< 100	ng/l		<A	
Styrol	< 100	ng/l		<A	
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:47 2/2

Probenummer : **09/0446-06**
Charge :
Probenahme : 22.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **HWY 27-3**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
Metolachlor	< 20	ng/l		<A	
PSM 2 mittels HPLC- MS/MS	Diazinon	< 20	ng/l		<A
	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
Mecoprop	< 20.0	ng/l		<A	

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)



Prüfbericht

AE02 29.06.2009 10:49 1/2

Probennummer : **09/0446-13**
Charge :
Probenahme : 23.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **New Well 1**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
o-Xylol	< 100	ng/l		<A	
Styrol	< 100	ng/l		<A	
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:49 2/2

Probennummer : **09/0446-13**
Charge :
Probenahme : 23.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **New Well 1**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
	Metolachlor	< 20	ng/l		<A
Diazinon	< 20	ng/l		<A	
PSM 2 mittels HPLC- MS/MS	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
	Mecoprop	< 20.0	ng/l		<A

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)



Prüfbericht

AE02 29.06.2009 10:50 1/2

Probennummer : **09/0446-14**
Charge :
Probenahme : 23.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **New Well 2**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
o-Xylol	< 100	ng/l		<A	
Styrol	< 100	ng/l		<A	
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:50 2/2

Probennummer : **09/0446-14**
Charge :
Probenahme : 23.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **New Well 2**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
	Metolachlor	< 20	ng/l		<A
Diazinon	< 20	ng/l		<A	
PSM 2 mittels HPLC- MS/MS	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
	Mecoprop	< 20.0	ng/l		<A

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)



Prüfbericht

AE02 29.06.2009 10:50 1/2

Probennummer : **09/0446-15**
Charge :
Probenahme : 23.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **New Well 3**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	Dichlordifluormethan	< 100	ng/l		<A
	Chlormethan	< 100	ng/l		<A
	Vinylchlorid	< 100	ng/l		<A
	Brommethan	< 100	ng/l		<A
	Trichlorfluormethan	< 100	ng/l		<A
	1,1-Dichlorethen	< 100	ng/l		<A
	Dichlormethan	< 100	ng/l		<A
	MTBE	< 50	ng/l		<A
	1,1-Dichlorethan	< 100	ng/l		<A
	ETBE	< 50	ng/l		<A
	1,2-Dichlorethen (cis)	< 100	ng/l		<A
	Trichlormethan	< 100	ng/l		<A
	1,1,1-Trichlorethan	< 100	ng/l		<A
	Tetrachlormethan	< 100	ng/l		<A
	Benzol	< 100	ng/l		<A
	1,2-Dichlorethan	< 100	ng/l		<A
	Trichlorethen	< 100	ng/l		<A
	1,2-Dichlorpropan	< 100	ng/l		<A
	Dibrommethan	< 100	ng/l		<A
	Bromdichlormethan	< 100	ng/l		<A
	Toluol	< 100	ng/l		<A
	Tetrachlorethen	< 100	ng/l		<A
	Dibromchlormethan	< 100	ng/l		<A
	Chlorbenzol	< 100	ng/l		<A
	Ethylbenzol	< 100	ng/l		<A
	m+p-Xylol	< 100	ng/l		<A
o-Xylol	< 100	ng/l		<A	
Styrol	< 100	ng/l		<A	
Tribrommethan	< 100	ng/l		<A	
Brombenzol	< 100	ng/l		<A	
1,1,2,2-Tetrachlorethan	< 100	ng/l		<A	
1,3,5-Trimethylbenzol	< 100	ng/l		<A	
1,2,4-Trimethylbenzol	< 100	ng/l		<A	



Prüfbericht

AE02 29.06.2009 10:50 2/2

Probenummer : **09/0446-15**
Charge :
Probenahme : 23.05.2009 00:00
Probestelle : AWA/10222/GBL Gewässer- und Bodenschutzlabor des Kanto
Probenmaterial : SW Sauberwasser
Prüfplan :
Freigabe : 19.06.2009 14:45 Dr. Ueli Ochsenbein, Gewässer- und Bodenschutzlabor
Kostenstelle : AWA
Auftragsgrund : **New Well 3**

Originalprobe

Methode	Prüfpunkt	Ergebnis	Einheit	Spezifikation	GV
VOC BAFU inkl.MTBE/ETBE	1,2-Dichlorbenzol	< 100	ng/l		<A
	Hexachlorbutadien	< 100	ng/l		<A
	Naphthalin	< 100	ng/l		<A
	1,2,3-Trichlorbenzol	< 100	ng/l		<A
Pestizide LC-MS/MS	2,6-Dichlorbenzamid	< 20	ng/l		<A
	Desisopropylatrazin	< 20	ng/l		<A
	Metamitron	< 20	ng/l		<A
	Desethylatrazin	< 20	ng/l		<A
	Cyanazin	< 20	ng/l		<A
	Simazin	< 20	ng/l		<A
	Chlortoluron	< 20	ng/l		<A
	Atrazin	< 20	ng/l		<A
	Diuron	< 20	ng/l		<A
	Isoproturon	< 20	ng/l		<A
	Metazachlor	< 20	ng/l		<A
	Propazin	< 20	ng/l		<A
	Terbutylazin	< 20	ng/l		<A
	Terbutryn	< 20	ng/l		<A
	Metolachlor	< 20	ng/l		<A
Diazinon	< 20	ng/l		<A	
PSM 2 mittels HPLC- MS/MS	Propachlor-ESA	< 20.0	ng/l		<A
	Bentazon	< 20.0	ng/l		<A
	Dimethamid-ESA	< 20.0	ng/l		<A
	MCPA	< 20.0	ng/l		<A
	Metolachlor-ESA	< 20.0	ng/l		<A
	Metolachlor-OA	< 20.0	ng/l		<A
	Mecoprop	< 20.0	ng/l		<A

GV = Grenzwertverletzung (A: Arbeitsbereich, S: Spezifikation, R: Richt-/Freigabewert)