

"DEPARTMENT OF WATER AFFAIRS ""F9GCI F79 EI 5 @HMG9FJ-79G

PRIVATE BAG X313, PRETORIA, 0001
TELEPHONE (012) 808 9500 FACSIMILE (012) 808 0338 or 808 2702

Use this form to register a new Monitoring Variable and the associated Analysis Method for an Analyst (Laboratory or Monitor).

Please Note: For each analysis method a separate form must be completed.

- Items marked with are compulsory information that must be supplied to enable registration of the Monitoring Variable and the associated Analysis Method.
- Please place an **X** next to the appropriate choice.

1. **+ Analyst** OR Monitor Supply name only. (Analysing Institution) (Field analysis and / or observation)

NB: The Analyst / Monitor must be an existing WMS stakeholder or detail must be supplied to register the Analyst / Monitor as a stakeholder. - Ask for the **Liaison Entity - Institution** form – see end of this form for contact information.)

2. Monitoring Variable Abbreviation

3. + Monitoring Variable Name

Describe the property that is measured or determined.

4. + Monitoring Variable Type

Absorbed		Substance taken up	1 +	Eco
Acid Extra	ctable-Solids	Substance that can be removed with acid from solids	Co	mpartment
Acid Extra	ctable-Water	Substance that can be removed with acid, from water		Sample
Acid Soluk	ole	Substance capable of being dissolved in acid		ubstance or
Alkaline E	xtractable	Substance that can be removed with alkali from solids		ich monitoring
Biotopes		Microhabitat: area where main environment condition and biota adapted to uniform		performed.
Dissolved		The soluble/broken up/dispersed non-filterable substance in a liquid		Aquatic
Free		Substance not chemically bound in a molecule		environment
Isotope		Atoms with the same atomic number but with different numbers of neutrons		Atmospheric
Leachate		Soluble substances removed by the percolating action of a liquid from a medium		Atmospheric
Neutral Ex	tractable-Solids	Substance that can be removed at neutral pH from solids		Biological
Neutral Ex	tractable-Water	Substance that can be removed at neutral pH from water		matter
Oxidisable	matter	Substance capable of undergoing a chemical reaction with oxygen		Inorganic
Physical n	neasurement	Perceptible to the physical senses		solids
Redox Pot	tential	Reversible chemical reaction: one reaction is oxidation, the reverse: reduction		Water
Residual		Something left after parts have been taken away		vvalei
Sampling	area	The section of the water body that is sampled (site length in Rivers database)		Other
Saturated		No more of a substance can be dissolved/all available valence bonds are filled		(describe)
Suspende	d	Particles held in suspension in a liquid		
Total-Solid	ds	Whole/full quantity of substance in a solid		
Total-Wate	er	Whole/full quantity of a substance in water		
Trihalome	thanes	Substituted methane compounds with three halogen atoms per molecule		
Volatiles		Substances that change readily from solid or liquid to vapour		
Other des	cribe:			

5. **+** Measuring **Unit** unit of measurement for reporting the property that is measured or determined.

Unit	Abbreviation	Unit	Abbreviation		
Becquerel per litre	Bq/I	Milligram per litre	mg/l		
Cells per millilitre	Cells/ml	Millisiemens per centimetre	mS/cm		
Colony forming unit per 1 millilitre	cfu/1ml	Millisiemens per metre	mS/m		
Colony forming unit per 100 millilitre	cfu/100 ml	Millivolts	mV		
Colour units	Colour units	Most probable number per 100 millilit	e MPN/100ml		
Cubic metre per day	m^3/d	Nanogram per litre	ng/l		
Degree Celsius	°C	Nephelometric turbidity units	NTU		
Gram	g	None (if no unit is used)	null		
Gram per litre	g/l	Number per cubic metre	n/cubic metre		
Kilolitre	kl	Per mille relative to SMOW	δ‰SMOW		
Kilolitre per day	kl/d	Percentage	%		
Mega litre	MI	Qualitative estimate	Estimate		
Metre	m	Score	Score		
Microgram per gram	μg/g	Total odour number	TON		
Microgram per litre	μg/l	Tritium units (118 MB/I)	TU		
Millibecquerel per litre	mBq/l	Units of pH	pH units		
Milligram per gram	mg/g	Other: (Please describe in next line.)			

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MONITORING VARIABLES AND ANALYSIS METHODS

_6. + Type the charact	eristic of the Value									
Fundamental – Single	damental – Multip		Derived							
Determinations that produce a sing value e.g. SO4, pH	ons that produce multip values e.g. Algae	ole result	ult Calculated from more than one single values e.g. Hardness, Indexes							
7. + Analysis Method		analysis technique that								
ICP EMISSION SPECTROSO	COPY: FILTER SAMPLE	THROUGH 0.45UM ME	MBRANE; A	ACIDIFY	TO PI	-1 < 2 ;	MEA	SURE	AT 31	1.071NN
8. + Sample/Observation		es if the analysis is dou	ne on a sam		determ ervat		n the	e field -	- obse	ervation.
9. Document Name doc		number where detail	ed descripti				nod c	an he f	found	
o. Boundit Hamo doo	amont number and page	o namber where detail	ou descripti	on or a	laryoro	mou	iou c	un bo i	ourid	
L Datastian Limit						. 1				
10. + Detection Limit		ue that can be determi	ned by the a	analysis	metho	od.				
11. + Result Detection Li		ting statistic			Zor	- do	toot	ion lin	oit	
the detection limit as described in		Counting statistic measured during radio activity counts, results will		Zero detection limit measurement made by counting e.g. count						
point 9	•	ed by counting statistic				of b	acte	ria		
12. + Result Value Type	how result values	are reported to DWA		imit						
True value	when the result va	De alue that is smaller tha	etection Li		it is rep	ortec	l as ·	< [dete	ction l	imit]
actual determined values			3 reported							
13. + Valid Decimal the v	alid number of decimals	to use with an analyti	cal method	at a lab	orator	y .				
14. Relative Standard De	viation the estin	nate of the mean devia	ation irrespe	ective of	sian					
									T	
15. + Start Date of an	alysis method at this lab	ooratory. Format: yyy	y-mm-dd.				-		<u> </u>	
16. End Date when an analys	is method is no longer i	n use. (Not comp	oulsory).				-		-	
17. Cost the cost of an a	nalysis measurement (r	not implemented yet).	(Not compu	ılsory).						
18. Contract Number	DWA&F contracted	d laboratory	(Not compu	ılsory).						
19. Expiry date of Contract	et (Notice	ompulsory).			T		_ [T	
. 0 1		nitoring/analysis is	derived	from a	sam	ınle				
20. + Container	Offig it the mor	intoring/ariarysis is	GUITTEU	110111	Jan	ipic.				
21 + Preservation method	od only if the mor	nitoring/analysis is	derived	from a	a sam	ıple.				
21.	ou out y it and the	g/aayo.o				<u> </u>				
+ Chalf life of complet	number of bours if	the monitoring/on	alvoje je	dorivo	d from	n o <i>i</i>		nlo		
22. + Shelf life of sample: Shelf life is dep	endent on the preserval		ialysis is i	uenve	u IIOI	II a s	Saiii	pie.		
23. Does Laboratory suppl	· · · · · · · · · · · · · · · · · · ·		?		Yes		Т		No	
24 + Observation	•	method is an obs	-						-110	
Bacteriological field analysis	Invertebr			S	ecchi					
Field readings	Logger			Not applicable						
Habitat	Profile Unknown									
HQI	Residual chloride Other. Please describe in next line					line.				
			·							
F	-4.									
For any queries please contact: Triana Louw										
Telephone:(012) 808 9616 / 9500 Facsimile (012) 808 2702							702			
	E-mail wms@	,					•	•		
The information o	n this form was si	applied by:	(Please	suppl	v full	cont	act	inforn	natio	n.)
Office / Laboratory:		Telepho	•		,					- /
Contact Person:			address:							