Sample of Full Water Test - with comparisons to local and international standards

Job Number :									
Customer :		**PT. Biosolutions Indonesia**							
Project Name :		**Name of project**							
Customer Ref :									
								Benchmarks	**Benchmarks**
Laboratory Sample I.D :									*USA EPA*
Customer Sample I.D :								**KepMenKes 492**	
Date Sampled :								**Drinking Water**	
Sample Matrix :				Water	Water	Water		**Limits**	
No.	**Test Description**	**Unit**	**Technique**	**Results**	**Results**	**Results**		**Depkes Parameters: April 19, 2010**	**EPA Parameters: In Force Dec 2011**
	Physical Tests								
1	Colour	Pt/Co	Colorimetric	<5	<5	<5		15	*15*
2	Total Hardness as $CaCO_3$	mg/L	FAAS-Calculation	86.8	82.1	50.5		500	
3	Odor	-	Normal	Odorless	Odorless	Odorless		Normal	*Threshold Number: 3*
4	pH (in lab)	-	Probe	8.22	8.36	8.35		6.5-8.5	*6.5 - 8.5*
5	Taste	-	Normal	NA	NA	NA		Normal	
6	Temperature [1]	°C	Thermometer	NA	NA	NA		3 deviation	
7	Total Dissolved Solids, TDS	mg/L	Gravimetric	198	188	177		1000	*500*
8	Turbidity (in lab)	NTU	Turbidimetric	1.0	0.5	0.8		5	*<5*
	Anions								
1	Chloride, Cl^-	mg/L	Colorimetric	27.5	7.1	7.9		250	*250*
2	Fluoride, F^-	mg/L	Ion Selective Electrode	0.05	0.04	0.05		1.5	*4*
3	Sulphate, SO_4^{2-}	mg/L	Turbidimetric	8	4	10		250	*250*
4	Sulphide as H_2S	mg/l	Ion Selective Electrode	<0.002	<0.002	<0.002		0.05	
5	Total Cyanide, CN	mg/L	Colorimetric	<0.005	<0.005	<0.005		0.07	*0.2*
	Nutrients								
1	Ammonia, NH_3-N	mg/L	Ion Selective Electrode	0.07	0.09	0.10		1.5	*Advisory only*
2	Nitrate, NO_3-N	mg/L	Colorimetric	1.10	0.126	0.565		50	*10*
3	Nitrite, NO_2-N	mg/L	Colorimetric	0.002	0.007	0.004		3	*1*
	Total Metals								
1	Aluminium, Al	mg/L	FAAS	<0.2	<0.2	<0.2		0.2	*0.2*
2	Antimony, Sb	mg/L	HVAAS	<0.0005	<0.0005	<0.0005		0.02	*0.006*
3	Arsenic, As	mg/L	HVAAS	0.0020	0.0022	0.0057		0.01	*0.01*
4	Barium, Ba	mg/L	FAAS	<0.1	<0.1	<0.1		0.7	*2*
5	Boron, B	mg/L	ICP	<0.1	<0.1	<0.1		0.5	
6	Cadmium, Cd	mg/L	FAAS	<0.0001	<0.0001	<0.0001		0.003	*0.005*
7	Chromium Hexavalent, Cr^{6+}	mg/L	Colorimetric	<0.002	<0.002	<0.002		0.05	*0.1*
8	Copper, Cu	mg/L	FAAS	<0.01	<0.01	<0.01		2	*1*
9	Iron, Fe	mg/L	FAAS	0.10	<0.05	0.07		0.3	*0.3*
10	Lead, Pb	mg/L	GFAAS	<0.001	<0.001	<0.001		0.01	*0*
11	Manganese, Mn	mg/L	FAAS	<0.01	<0.01	<0.01		0.4	*0.05*
12	Mercury, Hg	mg/L	CVAAS	<0.00005	<0.00005	<0.00005		0.001	*0.002*
13	Molybdenum, Mo	mg/l	GFAAS	<0.01	<0.01	<0.01		0.07	
14	Nickel, Ni	mg/L	FAAS	<0.02	<0.02	<0.02		0.07	
15	Selenium, Se	mg/L	HVAAS	<0.0005	<0.0005	<0.0005		0.01	*0.05*
16	Sodium, Na	mg/L	FAAS	27.1	29.9	38.6		200	*250*
17	Zinc, Zn	mg/L	FAAS	0.022	0.031	0.051		3	*5*
	Microbiology Tests								
1	E. Coli	MPN/100ml	Incubation	ND	ND	ND		0	*0*
2	Total Coliform	MPN/100ml	Incubation	ND	ND	ND		0	*0*
	Miscellaneous								
1	Chlorine, Cl_2 (in lab)	mg/L	Colorimetric	<0.01	<0.01	<0.01		5	*4 over 5*

Note : ND = Not Detected
NA= Not Analyzed