0018

Document Information Form

Mine Number: C/007/009

File Name: Incoming

To: DOGM

From:

Person N/A

Company N/A

Date Sent: March 29, 1979

Explanation:

Proposed Parameters For Water Analyses 1979

cc:

File in:
C/ 007 , 009 , Incoming
Refer to:
- ☐ Confidential
- ☐ Shelf
- ☐ Expandable

Date _____ For additional information

Eureka Energy's (PG&E) water sampling Parameters

File PRA/007/009

PROPOSED PARAMETERS FOR WATER ANALYSES 1979

Analytical Parameters	Accuracy or Measurement Detection Level	Method	Cost
* TDS mg/l	1 mg/l	Gravimetric; SM p. 92	$ 2.25
* TSS mg/l	1 mg/l	Gravimetric; SM p. 94	1.50
Turbidity	0.05 NTU	Nephelometric; SM p. 132	0.50
* Specific Conductance	1 µmho/cm	Conductivity; SM p. 71	0.50
* pH	0.1 pH units	pH Electrode; SM p. 460	0.50
Total Hardness	1 mg/l; as $CaCO_3$	EDTA Titrimetric; SM p. 202	1.50
Calcium (Ca) Dissolved mg/l	1 mg/l	EDTA Titrimetric; SM p. 189	2.50
Magnesium (Mg) Dissolved mg/l	0.1 mg/l	* Calc. from Tot. Hard	2.50
Potassium (K) Dissolved mg/l	0.1 mg/l	Flame Photometric; SM p. 234	2.50
Sodium (Na) Dissolved mg/l	1.0 mg/l	Flame Photometric; SM p. 250	2.50
Aluminum (Al) mg/l	0.1 mg/l	Atomic Absorption; SM p. 152	2.50
Ammonia (NH_3-N) mg/l	0.02 mg/l	Phenate (automated); SM p. 616	2.50
Bicarbonate (HCO_3) mg/l	1 mg/l	* Calc. from $CaCO_3$	1.00
Carbonate (CO_3) mg/l	1 mg/l	* Calc. from $CaCO_3$	1.00
Chloride (Cl) Dissolved mg/l	0.1 mg/l	Ferricyanide (automated); SM p. 613	2.00
Fluoride (F) Dissolved mg/l	0.05 mg/l	Ion Selective Electrode; SM p. 391	3.00
* Sulfate (SO_4) mg/l	1.0 mg/l	Methylthymol Blue (automated); SM p. 628	2.25
Nitrite (NO_2-N) mg/l	0.01 mg/l	Diazotiazation (automated); SM p. 620	2.00
Nitrate (NO_3-N) mg/l	0.05 mg/l	Cadmium Red. (automated); SM p. 620	2.25
Phosphate (ortho) mg/l	0.005 mg/l	Ascorbic Acid (automated); SM p. 620	2.50
Kjeldahl Nitrogen mg/l	0.1 mg/l	Kjeldahl; SM p. 437	4.00
Total Organic Carbon mg/l	1 mg/l	Combustion Infrared; SM p. 532	4.00
Total Carbon mg/l	1 mg/l	Combustion Infrared; SM p. 532	2.50
Arsenic (As) Dissolved mg/l	0.0005 mg/l	Atomic Absorption (vapor generation); SM p. 159	4.00
Cadmium (Cd) Dissolved mg/l	0.0004 mg/l	Atomic Absorption (flameless); EPA p. 78	4.00
Barium (Ba) Dissolved µg/l	20 µg/l	Atomic Absorption; SM p. 152	4.00
Beryllium (Be) Dissolved µg/l	30 µg/l	Atomic Absorption; SM p. 152	8.00
Boron (B) Dissolved µg/l	50 µg/l	Carmine; SM p. 290	3.50
Cobolt (Co) Dissolved µg/l	10 µg/l	Atomic Absorption; SM p. 148	4.00
Copper (Cu) Dissolved µg/l	10 µg/l	Atomic Absorption; SM p. 148	4.00
* Iron (Fe) Dissolved µg/l	50 µg/l	Atomic Absorption; SM p. 148	2.50
* Iron (Fe) Total mg/l	50 µg/l	Atomic Absorption; SM p. 148	3.50
Mercury (Mg) Dissolved µg/l	0.05 µg/l	Atomic Absorption (cold vapor); SM p. 56	4.00
Lead (Pb) Dissolved µg/l	5 µg/l	Atomic Absorption (flameless); EPA p. 78	4.00
Lithium (Li) Dissolved µg/l	2 µg/l	Atomic Absorption (flameless); EPA p. 78	6.50
Manganese (Mn) Dissolved µg/l	20 µg/l	Atomic Absorption; SM p. 148	2.50
* Manganese (Mn) Total mg/l	20 µg/l	Atomic Absorption; SM p. 148	3.50
Molybdenum (Mo) Dissolved µg/l	50 µg/l	Atomic Absorption (flameless); EPA p. 78	4.00
Nickel (Ni) Dissolved µg/l	10 µg/l	Atomic Absorption (flameless); EPA p. 78	4.00
Selenium (Se) Dissolved µg/l	1 µg/l	Atomic Absorption (vapor generation); SM p. 159	4.00
Silica (Si) Dissolved mg/l	0.5 mg/l	Molybdosilicate; SM p. 487	2.50
Silver (Ag) Dissolved µg/l	1 µg/l	Atomic Absorption (flameless); EPA p. 78	4.00
Strontium (Sr) Dissolved µg/l	1 µg/l	Atomic Absorption (flameless); EPA p. 78	6.50
Uranium (U) Dissolved µg/l	40 µg/l	Atomic Absorption (flameless); EPA p. 78	9.00
Vanadium (V) Dissolved µg/l	100 µg/l	Atomic Absorption (flameless); EPA p. 78	4.00
Zinc (Zn) Dissolved µg/l	5 µg/l	Atomic Absorption; SM p. 148	2.50
* Oil and Grease mg/l	10 mg/l	Partition-Gravimetric; SM p. 515	8.00
*Gross Alpha pic/l			
*Gross Beta pic/l			
Chromium (Cr) Dissolved µg/l	5 µg/l	Atomic Absorption (flameless); EPA p. 78	4.00

* Acidity

SM - Standard Methods for Examination of Water and Wastewater, 14th Ed., APHA 1975.
EPA - Methods for Chemical Analysis of Water and Wastes, USEPA 1976.

Mike -

Sorry I missed you - ... rec
and call me if you se... ating
your requirements.

File in:
- ☐ Confidential
- ☐ Shelf
- ☐ Expandable

Refer to Record No 0018 Date 3-29-79
In C/ 007, 009, Incoming
For additional information

Paul Anderson
359-3811

3/29/79
3:25

RECEIVED
MAR 29 1979
STATE OF UTAH
DIVISION OF OIL, GAS & MINING

Eureka Energy's (PG&E) water sampling Parameters

File PR9/007/009

PROPOSED PARAMETERS FOR WATER ANALYSES 1979

Analytical Parameters	Detection Level (Accuracy & Measurement)	Method	Cost
* TDS mg/l	1 mg/l	Gravimetric; SM p. 92	$ 2.25
* TSS mg/l	1 mg/l	Gravimetric; SM p. 94	1.50
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Sodium (Na) Dissolved mg/l	1.0 mg/l	Flame Photometric; SM p. 250	2.50
Aluminum (Al) mg/l	0.1 mg/l	Atomic Absorption; SM p. 152	2.50
Ammonia (NH_3-N) mg/l	0.02 mg/l	Phenate (automated); SM p. 616	2.50
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* Sulfate (SO_4) mg/l	1.0 mg/l	Methylthymol Blue (automated); SM p. 628	2.25
Nitrite (NO_2-N) mg/l	0.01 mg/l	Diazotization (automated); SM p. 620	2.00
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Phosphate (ortho) mg/l	0.005 mg/l	Ascorbic Acid (automated); SM p. 620	2.50
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Cobolt (Co) Dissolved µg/l	10 µg/l	Atomic Absorption; SM p. 148	4.00
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