

Comparison of EPA Reported Detections in EPA Well MW01 and USGS Analytical Results

Analyte	Units	EPA		USGS		MCL ³	WDEQ ⁴
		Oct-10	Apr-11	Apr-2012 1 ¹	Apr-2012 2 ²		
pH		11.9	11.2	11.4	10.7	---	---
Potassium	mg/L	54.9	24.7	16	13	---	---
Chloride	mg/L	23.3	23.1	26	27	---	---
Methane	mg/L	16	17.9	30.5	27	---	---
Benzene	ug/L	ND	ND	ND	ND	5	5
Toluene	ug/L	0.75	0.56	ND	ND	1,000	1,000
Ethylbenzene	ug/L	ND	ND	ND	ND	700	700
Xylenes	ug/L	ND	0.89	ND	ND	10,000	10,000
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	---	365
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	---	1,820
DRO	ug/L	634	924	190 J	85	---	1,100
GRO	ug/L	389	592	1100	730	---	7,300
Phenol	ug/L	11.1	20.9	11	6.6 J	---	10,900
Isopropanol	ug/L	NA	212	ND	ND	---	---
Diethylene glycol	ug/L	NA	226	ND	ND	---	---
Triethylene glycol	ug/L	NA	46	ND	ND	---	---
Tetraethylene glycol	ug/L	NA	7.3	NA	NA	---	---
2-Butoxyethanol	ug/L	NA	12.7	ND	ND	---	---
Acetone	ug/L	NA	79.5	ND	ND	---	32,800
Benzoic acid	ug/L	212	457	360	200	---	146,000
Acetate	ug/L	NA	8050	NA	NA	---	---
Formate	ug/L	NA	112	NA	NA	---	---
Lactate	ug/L	NA	69	NA	NA	---	---
Propionate	ug/L	NA	309	NA	NA	---	---

- Notes:
- USGS results are inconsistent with the EPA results
 - USGS results show significant decreases in concentrations as compare to EPA results
 - NA = Not analyzed
 - ND = Not detected
 - J = Estimated value
 - = No value has been established
 - 1) Sample collected after one half of required purge volume removed from well
 - 2) Sample collected after required purge volume removed from well
 - 3) Maximum contaminant level allowable in drinking water by the EPA
 - 4) Wyoming Department of Environmental Quality groundwater cleanup level