DRAFT

Table 3. Geochemical impacts in deep ground-water monitoring wells

Compound	MW01 Phase 3 10/6/2010	MW02 Phase 3 10/6/2010	MW01 Phase 4 4/20/2011	MW02 Phase 4 4/19/2011
pH	11.9	12.0	11.7	11.8
K, mg/L	54.0	39.5	24.7	43.6
Cl, mg/L	23.3	466	23.1	457
CH_4, mg/L	16.0	19.0	17.9	18.8
Benzene †	nd	245	nd	139
Toluene	0.75 [1]	617	0.56	436
Ethylbenzene	nd	67	nd	21.5
Xylenes (total)	nd	750	0.83 [1]	362
1,2,4 Trimethylbenzene	nd	69.2	nd	18.5
1,3,5 Trimethylbenzene	nd	35.5	nd	nd
Diesel Range Organics	534	1440	924	4050
Gasoline Range Organics	389	3710	592	2800
Phenol [a]	11.1	56.1	20.9	64.9
Naphthalene [b]	nd	6.06	nd	6.10
Isopropanol	----	----	71.2	581
Tert-Butyl Alcohol	----	----	nd	4470
2-Butanone	----	----	nd	120
Diethylene Glycol	----	----	928	1570
Triethylene Glycol	----	----	46	310
Tetraethylene Glycol	----	----	7.3 [c,d]	27.2
2-Butoxyethanol *	----	----	nd	nd
2-Butoxyethanol **	nd	nd	12.7	nd
Acetone	----	----	79.5	641
Benzoic Acid	212	244	457	209
Acetate	----	----	8050	4310
Formate	----	----	112	558
Lactate	----	----	69	213
Propionate	----	----	309	803

† All values in µg/L unless otherwise noted.
---- not analyzed.
nd - not detected.
* Includes phenol, 2,4-dimethylphenol, 2-methylphenol, 3&4 methylphenol
[a] Includes naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.
[1] Value below quantitation limit of 10 µg/L.
[c] Chemical detected in a blank sample at a similar level
* 2-Butoxyethanol determined by HPLC-MS-MS.
** 2-Butoxyethanol determined by GC-MS.

Inconsistencies with USGS

- Not tested by USGS due to faulty monitoring well
- Not detected by USGS
- Detected at significantly lower levels by USGS