Table 12 MWMP Results (NDEP Profile I)

Rotating Extraction

Parameter	pH	pH LIXIVIANT	pH Paste	TDS	Weight	Calcium	Chloride	Fluoride	Potassium	Magnesium	Sodium	Nitrate-N	Sulfate, SO4
Unit	SU	SU	SU	MG/L EXT	KG	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT
Standard	6.5-8.5			500-1000			250-400	2.0-4.0		125-150		10	250-500
IH020 (285')	4.08	5.49	4.46	440	1	42.6	4.62	2.18	20.6	13.7	10.7	0.286	399
IH209 (1016')	3.93	5.49	3.8	2200	1	249	2.03	3.46	117	111	11.8	0.5	1450
IH157 1016-1026	6.42	5.49	5.63	128	1	9.95	5.6	0.19	14.1	3.68	15.4	0.228	73.7
IH208 514-522.4	4.18	5.49	5.37	652	1	24.2	1.95	7.59	37.9	4.61	8.31	-0.25	328
IH208 (530')	3.13	5.49	2.91	2840	1	232	1.68	7.92	29.6	72.3	10.8	-0.25	1770
IH112 308-318	4.59	5.49	6.64	256	1	33.1	3.86	0.23	15.3	10.1	8.71	0.215	162
IH059 (641')	3.19	5.49	2.44	3240	1	313	4.08	3.75	72.8	112	19.8	1.22	2400
IH057 528-538	3.65	5.49	3.64	972	1	67.2	3.11	5.35	11	22.2	3.57	-0.25	544
IH013 700-710	3.59	5.49	4.31	872	1	25.1	2.88	3.86	12.5	4.86	5.52	-0.25	900
IH013 690-700	3.51	5.49	3.92	1030	1	22	2.39	3.15	6.9	3.98	4.2	-0.25	763
IH149 (128')	5.08	5.75	4.84	150	1	24	2.68	0.25	9.3	4.57	15	0.797	108
IH149 198-206	6.21	5.75	6.27	326	1	3.83	3.52	0.23	1.7	0.717	9.46	1.1	23.6
IH070 695-705	5.75	3.29	5.75	3.62	2910	1	187	2.75	1.82	45.2	119	9.88	-0.25
IH083 587-596	5.75	4.7	1360	1	12.4	2.14	3.36	13.9	2.2	5.2	-0.25	779	-0.005
IH083 596-605	3.35	5.75	3.85	1870	1	132	2.02	9.62	30.2	41.4	12.4	0.524	1220

Column Extraction

Parameter	pH	pH End	pH Initial	pH Paste	TDS	Weight	Calcium	Chloride	Fluoride	Potassium	Magnesium	Sodium	Nitrate-N	Sulfate, SO4
Unit	SU	SU	SU	SU	MG/L EXT	G	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT
BH-01 (740')	4.4	4.33	5.22	4.4	609	5010	86.1	1.66	-0.1	37.4	32.8	12.1	0.115	408
BH-01 (745')	4.42	4.36	5.22	4.33	579	5020	79.3	1.65	-0.1	38.5	29.3	11.9	0.082	394
BH-02 (650')	3.92	3.19	5.22	3.78	852	5020	121	0.9	0.61	37.4	41.4	18.1	-0.05	563
BH-02 (665')	4.27	4.17	5.22	4.05	486	5020	70.7	1.89	0.18	27.6	22.9	13.2	-0.05	329
BH-03 (605')	4.95	5.07	5.54	4.87	294	5090	38.9	2.32	0.17	17.3	10.8	11.1	0.077	185
BH-04 (610')	4.6	4.52	5.22	5.58	269	5020	38.4	2.76	-0.1	11.6	9.6	6.6	0.062	176
BH-05 (510')	4.07	4.07	5.54	3.9	1160	5060	139	2.23	4.53	77.5	51.7	27.2	-0.05	791
BH-06 (400')	5.64	5.72	5.54	5.05	325	5010	33.9	3.04	2	23.5	9.8	16.3	0.095	199
BH-08 (945')	6.04	6.34	5.54	5.11	675	5040	90.3	0.97	-0.1	27.2	37.8	11.6	-0.05	415
BH-08 (950')	5.89	6.21	5.54	5.37	785	5050	105	1.37	-0.1	34.3	43.8	13.5	0.079	495

Table 12 MWMP Results (NDEP Profile I)

Rotating Extraction

Parameter	Silver	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Mercury	Manganese	Nickel	Lead	Antimony	Selenium	Thallium	Zinc
Unit	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT
Standard	0.1	0.05-0.2	0.05		2	0.004	0.005	0.1	1.3	0.3-0.6	0.002	0.05-0.1	0.1	0.015	0.006	0.05	0.002	5
IH020 (285')	-0.005	6.93	0.087	0.546	0.153	0.0051	0.0254	0.0224	0.0249	86.4	-0.0002	0.67	0.618	0.0129	0.019	0.052	-0.01	1.81
IH209 (1016')	-0.005	27.4	0.233	0.112	0.0244	0.147	0.0239	0.0083	0.369	40.8	-0.0002	9.95	2.13	0.0165	0.011	0.149	-0.01	3.12
IH157 1016-1026	-0.005	0.146	0.037	0.36	0.14	-0.002	-0.002	-0.006	0.0096	0.066	-0.0002	0.103	0.017	-0.005	0.034	0.04	-0.001	0.0634
IH208 514-522.4	-0.005	32.6	-0.01	0.167	0.0845	0.0035	0.0093	0.0061	0.0292	18.2	-0.0002	0.411	0.34	0.0051	0.011	0.025	0.005	0.674
IH208 (530')	-0.005	106	0.096	0.093	0.025	0.0355	0.348	0.114	3.94	117	-0.0002	0.576	4.92	0.0096	0.005	0.115	0.029	13
IH112 308-318	-0.005	0.51	0.232	0.074	0.0603	-0.002	0.0023	-0.006	-0.003	5.89	-0.0002	0.168	0.125	0.0123	0.045	0.276	0.007	0.453
IH059 (641')	-0.005	100	0.365	0.116	0.0587	0.0828	0.0632	0.133	5.98	157	-0.0002	1.56	7.48	0.0162	0.005	0.31	-0.01	24.1
IH057 528-538	-0.005	32.8	0.044	-0.04	0.0174	0.0074	0.0301	0.0317	0.385	53.7	-0.0002	0.442	0.954	-0.005	0.009	0.034	-0.01	3.69
IH013 700-710	-0.005	112	0.02	0.272	0.0872	0.0139	0.207	0.0453	1.24	72.6	-0.0002	0.386	3.45	-0.005	0.006	0.011	0.041	10.9
IH013 690-700	-0.005	87.5	0.028	0.099	0.0576	0.0139	0.202	0.0462	1.37	77.9	-0.0002	0.478	3.88	-0.005	0.005	0.013	0.07	6.04
IH149 (128')	-0.005	0.144	0.013	-0.04	0.0155	-0.002	-0.002	-0.006	0.0084	0.048	-0.0002	0.0053	0.011	-0.005	0.003	-0.01	-0.001	0.0435
IH149 198-206	-0.005	0.193	0.016	0.545	0.198	-0.002	-0.002	-0.006	0.0528	0.249	0.00303	0.0994	0.022	-0.005	0.007	-0.01	-0.001	0.586
IH070 695-705	1720	-0.005	75	0.244	0.102	0.0149	0.23	0.0682	0.0577	4.31	130	-0.0002	1.01	5.1	-0.005	0.017	0.11	-0.01
IH083 587-596	63.4	0.343	-0.04	0.0058	0.002	0.0107	0.0195	-0.003	210	0.00022	0.246	0.913	0.0065	0.057	0.037	-0.01	0.279	0.01
IH083 596-605	-0.005	70.7	0.127	0.058	0.0076	0.0123	0.324	0.03	1.13	148	0.00076	0.0742	2.54	-0.005	0.011	0.031	0.028	4.44

Column Extraction

Parameter	Silver	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Mercury	Manganese	Nickel	Lead	Antimony	Selenium	Thallium	Zinc
Unit	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT	MG/L EXT
BH-01 (740')	-0.005	1	0.024	0.138	0.0549	0.0212	0.0038	-0.006	0.113	2.44	-0.0002	1.57	0.8	0.0524	0.006	0.16	0.005	0.116
BH-01 (745')	-0.005	1.21	0.027	0.12	0.0488	0.0224	0.0038	-0.006	0.167	3.11	-0.0002	1.8	0.727	0.0416	0.006	0.118	0.005	0.117
BH-02 (650')	0.0256	2.91	0.056	0.178	0.067	0.19	0.0147	-0.006	0.915	6.51	-0.0002	1.9	1.27	0.0135	0.003	0.122	0.009	1.2
BH-02 (665')	-0.005	0.787	0.025	0.121	0.0645	0.0938	0.0027	-0.006	0.168	1.87	-0.0002	0.649	0.616	0.0079	0.003	0.072	0.006	0.226
BH-03 (605')	-0.005	0.228	0.038	0.099	0.0363	-0.002	-0.002	-0.006	0.0555	0.275	-0.0002	0.919	0.625	-0.005	0.002	0.044	0.008	0.235
BH-04 (610')	-0.005	0.646	0.014	0.076	0.0381	-0.002	0.0036	-0.006	0.197	5.63	-0.0002	3.88	0.702	-0.005	-0.001	0.07	0.007	0.104
BH-05 (510')	-0.005	8.27	0.05	0.254	0.0425	0.0341	0.0165	-0.006	0.656	4.53	-0.0002	1.51	2.2	0.129	-0.002	0.153	0.015	1.91
BH-06 (400')	-0.005	0.937	0.039	0.122	0.0319	-0.002	0.004	-0.006	0.0107	0.032	-0.0002	0.392	0.259	-0.005	0.027	0.04	0.014	0.141
BH-08 (945')	-0.005	-0.02	-0.01	0.142	0.0568	-0.002	-0.002	-0.006	0.0049	-0.02	-0.0002	1.74	0.279	-0.005	0.009	0.077	0.001	0.0137
BH-08 (950')	-0.005	-0.02	-0.01	0.149	0.062	-0.002	-0.002	-0.006	0.0048	0.039	-0.0002	2.26	0.287	-0.005	0.012	0.051	0.002	0.0092

Table 12 MWMP Results (NDEP Profile I)

Rotating Extraction

Parameter	% Passing -200	% Moisture	Anion Sum	Acidity	Cation-Anion Bal	Cation Sum	CO3, CaCO3	HCO3, CaCO3	Moisture to Sat.	MWMP TIME
Unit	%	%	MEQ/L	MG/L EXT	%	MEQ/L	MG/L EXT	MG/L EXT	ML	(HR)
Standard										
IH020 (285')	3.5	0.12	8.57	241	2.94	9.09	-1	-1	140	24
IH209 (1016')	1	13	30.4	292	0.78	30.9	-1	-1	144	24
IH157 1016-1026	1	14	1.84	6	0.27	1.85	-1	6	141	24
IH208 514-522.4	5	16.7	7.29	245	3.51	7.82	-1	-1	201	24
IH208 (530')	2.6	17.6	37.2	934	0.28	37.5	-1	-1	214	24
IH112 308-318	3.6	16.7	3.51	-1	0.43	3.54	-1	-1	200	24
IH059 (641')	0.2	13.6	50.4	1020	-2.57	47.9	-1	-1	157	24
IH057 528-538	2.4	15.6	11.7	337	2.78	12.4	-1	-1	185	24
IH013 700-710	3.4	12.4	19	813	-1.47	18.5	-1	-1	188	24
IH013 690-700	3.4	15	16.1	688	-1.86	15.5	-1	-1	177	24
IH149 (128')	3.6	4.43	2.4	-1	1.84	2.49	-1	-1	270	24
IH149 198-206	4.4	0.71	0.72	2.1	2.04	0.75	-1	2.1	215	24
IH070 695-705	20.4	0.87	36.1	791	0.63	36.5	-1	-1	202	24
IH083 587-596	0.005	0.01	0.01	1	0.01	0.01	1	1	0.1	0.1
IH083 596-605	2.4	0.89	25.9	730	-0.06	25.9	-1	-1	228	24

Column Extraction

Parameter	Anion Sum	Alkalinity,CaCO3	Cation-Anion Bal	Cation Sum	CO3, CaCO3	HCO3, CaCO3	MWMP TIME	Feed Moisture	Retained Moisture
Unit	MEQ/L	MG/L EXT	%	MEQ/L	MG/L EXT	MG/L EXT	(HR)	%	%
BH-01 (740')	8.55	34.9	3.61	9.19	-1	-1	31	0.25	9.51
BH-01 (745')	8.26	35.3	1.9	8.58	-1	-1	35	0.36	14.1
BH-02 (650')	11.8	63.5	2.85	12.5	-1	-1	36.5	0.41	9.85
BH-02 (665')	6.91	32.5	3.02	7.34	-1	-1	36	0.35	9.96
BH-03 (605')	3.94	-1	-1.42	3.83	-1	-1	34	1.7	15.2
BH-04 (610')	3.74	-1	-0.27	3.72	-1	-1	35	0.41	15.1
BH-05 (510')	16.8	120	-0.06	16.8	-1	-1	34.5	1.19	18.4
BH-06 (400')	4.39	1.9	-5.66	3.92	-1	1.9	31	0.22	15.7
BH-08 (945')	8.78	5.6	0.57	8.88	-1	5.6	32.5	0.81	15
BH-08 (950')	10.4	4.2	-0.24	10.4	-1	4.2	32	1.04	16.7