

ENTERED

GIANT
REFINING COMPANY



Hope Monzeglio
New Mexico Environmental Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East
Bldg 1
Santa Fe, NM 87505

Certified Mail: 7004 2510 0005 1641 4729

January 19, 2006

Re: Approval with Modifications
2004 Ground Water Remediation and Monitoring Annual Report April 2005
Giant Refining Company, Bloomfield Refinery
NMED ID # NMD089416416
HWB-GRCB-05-001

Dear Ms. Monzeglio,

Giant Refining Company Bloomfield (GRCB) received the October 31, 2005 letter from the New Mexico Environmental Department (NMED) requesting additional information regarding the 2004 Ground Water Remediation and Monitoring Annual Report 2005 Giant Refining Company, Bloomfield Refinery. The following correspondence will address NMED's requests.

Item #3 identifies a typographical error mislabeling RW #16 as MW #16. An updated map is not required.

Item #6 requests information pertaining to the *Groundwater Elevation Tables 1 and 2*.

- Collar Elevation is the top of concrete at the base of the well casing
- Well casing height is the measurement from the collar elevation to the top of casing
- Separate phase hydrocarbon not detected = Measuring point elevation – Depth to water

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- Separate phase hydrocarbon detected = Measuring point elevation – Depth to water = (Depth to water – Depth to product X 0.8)
- Measuring Point Elevation = Collar Elevation + Well Casing Height
- Zero indicates that there was no separate phase hydrocarbon measured in the well

Item #8 requests a revision of Table 3. The revised edition of Table 3 is attached to this letter.

Item #11 asks why DO and ORP were not measured in MW #48 and MW #49. There was not a request by NMED or OCD to measure DO or ORP in these wells. GRCB followed guidelines specified in Item #12 from the January 6, 2003 letter from NMED.

Future groundwater reports will be modified to correspond with NMEDs requirements.

If you need additional information, please contact me at (505) 632-4161.

Sincerely,



Cindy Hurtado
Environmental Coordinator – Giant Refining – Bloomfield

Cc: Randy Schmaltz – Environmental Manager – Giant Refining – Bloomfield
Wayne Price – NMOCD Santa Fe

Water Quality Field Measurements

Table 3

DATE	RW/MW	DEPTH TO LIQUID (ft)	SPH	WELL DEPTH	E.C.	pH	TEMP.	D.O	ORP
Aug-04	MW #1	17.15	0	21.56	927	6.90	63	5.4	-532
Mar-04		17.43	0	21.56	887	7.51	53	NR	NR
Aug-03		17.16	0	21.62	1001	7.41	63	6.5	105
Aug-04	MW #3	36.31	0	36.75	7558	6.96	64	NR	-11
Mar-04		36.33	0	36.75	NR	NR	NR	NR	NR
Aug-03		36.31	0	36.75	7818	6.96	66	NR	57
Aug-04	MW #4	27.96	27.31	30.5	SPH	SPH	SPH	SPH	SPH
Mar-04		27.86	27.24	30.5	SPH	SPH	SPH	SPH	SPH
Aug-03		27.95	27.07	30.5	SPH	SPH	SPH	SPH	SPH
Aug-04	MW #5	0	0	36.92	NS	NS	NS	NS	NS
Mar-04		0	0	36.92	NS	NS	NS	NS	NS
Aug-03		0	0	36.92	NS	NS	NS	NS	NS
Aug-04	MW #6	0	0	47.92	NS	NS	NS	NS	NS
Mar-04		0	0	47.92	NS	NS	NS	NS	NS
Aug-03		0	0	47.92	NS	NS	NS	NS	NS
Aug-04	MW #7	27.79	0	62.61	8693	7.00	63	2.8	84
Mar-04		27.36	0	62.61	NR	NR	NR	NR	NR
Aug-03		27.57	0	62.61	NR	NR	NR	NR	NR
Aug-04	MW #8	32.9	0	35.93	2600	7.02	62	2.9	142
Mar-04		32.77	0	35.93	NR	NR	NR	NR	NR
Aug-03		32.93	0	35.93	2654	6.98	60	7.1	176
Aug-04	MW #11	11.72	0	22.94	2093	6.81	68	13.8	-36
Mar-04		11.32	0	22.94	NR	NR	NR	NR	NR
Aug-03		11.69	0	22.93	2338	6.82	66	5.6	-53
Aug-04	MW #12	12.38	0	14.98	2164	6.85	66	9.3	151
Mar-04		11.95	0	14.98	1464	7.22	49	NR	NR
Aug-03		11.39	0	14.98	5920	7.06	64	5.8	81
Aug-04	MW #13	40.51	0	52.89	3638	6.79	62	5.0	158
Mar-04		40.41	0	52.89	3895	6.96	59	NR	NR
Aug-03		40.23	0	52.9	4573	6.77	64	5.6	86
Aug-04	MW #20	21.44	21.10	27.15	SPH	SPH	SPH	SPH	SPH
Mar-04		21.47	21.05	27.15	1576	7.05	62	NR	NR
Aug-03		21.87	20.99	27.15	SPH	SPH	SPH	SPH	SPH
Aug-04	MW #21	22.27	22.25	30.38	4405	6.81	63	4.0	-43
Mar-04		22.35	22.32	30.38	NR	NR	NR	NR	NR
Aug-03		22.46	22.33	30.38	NR	NR	NR	NR	NR

SPH = Well Contains Separate Phase Hydrocarbon - No Sample

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Water Quality Field Measurements

Table 3

DATE	RW/MW	DEPTH TO LIQUID (ft)	SPH	WELL DEPTH	E.C.	pH	TEMP.	D.O	ORP
Aug-03	MW #24	14.93	14.91	15.13	SPH	SPH	SPH	SPH	SPH
Mar-04		0	0	15.13	NS	NS	NS	NS	NS
Aug-03		14.93	14.91	15.13	SPH	SPH	SPH	SPH	SPH
Aug-04	MW #25	33.4	32.77	41.2	SPH	SPH	SPH	SPH	SPH
Mar-04		33.61	32.64	41.2	NR	NR	NR	NR	NR
Aug-03		33.57	32.42	41.2	NR	NR	NR	NR	NR
Aug-04	MW #26	17.39	0	25.11	2422	6.81	65	7.5	-33
Mar-04		17.32	0	25.11	NR	NR	NR	NR	NR
Aug-03		33.57	32.42	41.2	2267	6.65	68	4.9	-69
Aug-04	MW #27	18.70	0	24.42	2474	6.89	65	1.7	-143
Mar-04		18.71	0	24.42	NR	NR	NR	NR	NR
Aug-03		18.50	0	24.42	2776	6.73	65	4.1	-188
Aug-04	MW #29	23.15	0	28.62	850	7.03	62	4.7	115
Mar-04		23.32	0	28.62	NR	NR	NR	NR	NR
Aug-03		23.24	0	28.62	NR	NR	NR	NR	NR
Aug-04	MW #30	33.95	0	40.13	4480	6.90	62	over range	-196
Mar-04		33.96	0	40.13	NR	NR	NR	NR	NR
Aug-03		33.90	0	40.13	NR	NR	NR	NR	NR
Aug-03	MW #31	34.21	0	39.16	3945	7.07	64	3.4	-19
Mar-04		34.13	0	39.16	NR	NR	NR	NR	NR
Aug-03		34.02	0	39.16	NR	NR	NR	NR	NR
Aug-04	MW #32	24.93	0	27.51	3576	6.88	62	5.6	79
Mar-04		24.98	0	27.51	4898	6.71	58	NR	NR
Aug-03		24.8	0	27.51	5346	6.87	63	7.4	64
Aug-04	MW #33	22.29	0	25.51	4630	6.81	63	5.6	106
Mar-04		22.38	0	25.51	4950	7.35	57	NR	NR
Aug-03		22.11	0	25.51	4373	6.89	66	5.0	110
Aug-04	MW #34	14.24	0	20.96	2144	6.80	64	1.7	-51
Mar-04		14.5	0	20.96	NR	NR	NR	NR	NR
Aug-03		14.57	0	20.97	2220	6.75	70	4.9	-76
Aug-04	MW #35	22.81	0	26.45	2000	6.81	60	3.6	-63
Mar-04		22.98	0	26.45	2026	6.97	58	NR	NR
Aug-03		23.04	0	26.45	2005	6.72	66	5.4	-95
Aug-04	MW #36	21.30	0	23.26	1880	6.85	68	8.4	-111
Mar-04		21.23	0	23.26	NR	NR	NR	NR	NR
Aug-03		21.44	0	23.26	NR	NR	NR	NR	NR

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DATE	RW/MW	DEPTH TO LIQUID (ft)	SPH	WELL DEPTH	E.C.	pH	TEMP.	D.O	ORP
Aug-04	MW #37	23.99	0	27.58	2085	7.06	62	4.3	-103
Mar-04		22.94	0	27.58	2033	7.29	57	NR	NR
Aug-03		24.11	0	27.58	2061	7.16	68	6.4	-129
Aug-04	MW #38	24.51	0	26.82	2058	6.84	63	12.3	-124
Mar-04		24.32	0	26.82	1967	7.11	55	NR	NR
Aug-03		24.6	0	26.82	1866	6.90	69	4.7	-145
Aug-04	MW #39	24.59	0	38.34	5424	7.51	65	4.7	-162
Mar-04		24.45	0	38.34	NR	NR	NR	NR	NR
Aug-03		NR	NR	NR	NR	NR	NR	NR	NR
Aug-04	MW #40	29.76	28.94	30.07	SPH	SPH	SPH	SPH	SPH
Mar-04		29.95	29.05	30.07	SPH	SPH	SPH	SPH	SPH
Aug-03		29.99	28.85	30.07	SPH	SPH	SPH	SPH	SPH
Aug-04	MW #41	28.34	27.43	31.62	SPH	SPH	SPH	SPH	SPH
Mar-04		28.41	27.3	31.62	SPH	SPH	SPH	SPH	SPH
Aug-03		28.52	27.31	31.62	SPH	SPH	SPH	SPH	SPH
Aug-04	MW #44	33.8	0	50.91	5589	6.90	60	5.3	-52
Mar-04		33.4	0	50.91	NR	NR	NR	NR	NR
Aug-03		33.75	0	50.91	NR	NR	NR	NR	NR
Aug-03	MW #45	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
Mar-04		15.85	9.32	16.92	SPH	SPH	SPH	SPH	SPH
Aug-03		13.19	9.35	16.92	SPH	SPH	SPH	SPH	SPH
Aug-04	MW #46	0	0	10.39	NS	NS	NS	NS	NS
Mar-04		0	0	10.39	NS	NS	NS	NS	NS
Aug-03		0	0	10.39	NS	NS	NS	NS	NS
Aug-04	MW #47	11.55	10.32	14.28	SPH	SPH	SPH	SPH	SPH
Mar-04		11.79	10.31	14.28	3440	7.01	52	NR	NR
Aug-03		10.58	0	14.39	3848	6.88	69	7.9	-75
Aug-03	P-#4	8.41	0	13.94	2316	6.92	69	8.4	-240
Mar-04		8.29	0	13.94	22398	7.56	46	NR	NR
Aug-03		8.22	0	13.94	2606	7.06	69	0.2	-284
Aug-04	P-#5	9.24	0	14.27	2014	6.93	67	5.4	-124
Mar-04		9.54	0	14.27	2097	7.38	46	NR	NR
Aug-03		10.29	0	14.27	2006	7.16	69	4.5	-104
Aug-04	O/F #2	NM	NM	NM	996	6.88	67	6.3	74
Mar-04		NM	NM	NM	1199	7.23	47	NR	NR
Aug-03		NS	NS	NS	NS	NS	NS	NS	NS

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DATE	RW/MW	DEPTH TO LIQUID (ft)	SPH	WELL DEPTH	E.C.	pH	TEMP.	D.O	ORP
Aug-04	O/F #3	NM	NM	NM	980	6.81	64	9.8	103
Mar-04		NM	NM	NM	1224	7.36	49	NR	NR
Aug-03		NM	NM	NM	904	7.02	63	7.8	194
Aug-04	RW #3	22.74	22.71	34.57	3138	6.82	67	5.5	-47
Mar-04		22.49	22.43	34.57	NR	NR	NR	NR	NR
Aug-03		22.68	0	34.57	NR	NR	NR	NR	NR
Aug-04	RW #14	35.11	2.45	41.94	4422	6.87	62	6.4	-83
Mar-04		36.65	35.21	41.94	NR	NR	NR	NR	NR
Aug-03		35.14	0	41.94	NR	NR	NR	NR	NR
Aug-04	RW #15	34.92	0	43.43	3481	6.83	61	over range	-85
Mar-04		35.93	0	43.43	NR	NR	NR	NR	NR
Aug-03		34.93	0	43.43	NR	NR	NR	NR	NR
Aug-04	RW #16	34.03	0	41.94	3162	6.93	62	8.7	-139
Mar-04		35.04	0	41.94	NR	NR	NR	NR	NR
Aug-03		34.03	0	41.94	NR	NR	NR	NR	NR
Aug-04	RW #17	33.63	33.37	41.89	SPH	SPH	SPH	SPH	SPH
Mar-04		35.55	35.45	41.89	NR	NR	NR	NR	NR
Aug-03		33.34	33.29	41.89	NR	NR	NR	NR	NR

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