

GRCB05

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: 7001 1140 0000 4022 0835

June 17, 2005

**RE: Giant Refining Company, Bloomfield Refinery
EPA ID# NMD089416416**

Dear Ms. Monzeglio,

Please find attached draft results of all analytical and collected data requested by NMED as a condition of approval for the North Boundary Barrier Collection System Design and Monitoring Plan Phase II. Please note that RW #1, RW #9, RW #22, RW #23, and RW #28 are active recovery wells and were not measured. MW #24 was designed for air sparging activities and does not accommodate monitoring.

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

Sincerely,

Handwritten signature of Cindy Hurtado in cursive.

Cindy Hurtado
Environmental Coordinator
Giant Refining – Bloomfield

Cc: Ed Riege – Environmental Superintendent – Giant Refining
Randy Schmaltz – Environmental Manager – Giant Refining

PHASE II Collected Data - 2005

	May 9, 2005		May 12, 2005		May 17, 2005		May 19, 2005		May 24, 2005		May 26, 2005		May 31, 2005		Total
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	Well Depth
OW 0+60	14.03	13.61	14.09	13.63	14.31	13.26	14.16	13.69	14.22	13.72	14.28	13.74	14.44	13.75	14.98
OW 1+50	13.21	13.19	14.29	13.22	14.13	13.65	14.25	13.28	14.35	13.33	14.38	13.36	14.42	13.41	14.98
OW 3+85	13.10	11.95	13.1	11.95	13.14	12.02	13.18	12.03	13.22	12.07	13.24	12.1	13.31	12.13	15.06
OW 5+50	Dry	Dry	Dry	13.88	13.16	12.02	Dry	13.4	Dry	13.27	Dry	13.24	Dry	13.22	14.09
OW 6+70	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	14.67
OW 8+10	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	17.99
OW 11+15	11.45	0	11.5	0	11.49	0	11.52	0	11.54	0	11.55	0	11.56	0	16.67
OW 14+10	12.25	0	12.3	0	12.3	0	12.32	0	12.33	0	12.3	0	12.37	12.36	13.03
OW 16+60	12.78	11.92	12.78	11.9	12.79	12.02	12.83	12.02	12.78	12.06	12.79	12.03	12.74	12.11	15.21
OW 19+50	11.27	0	11.93	0	12.64	0	12.38	0	12.03	0	11.94	0	11.8	0	13.07
OW 22+00	10.62	0	10.67	0	10.73	0	10.72	0	10.73	0	10.75	0	10.77	0	14.31
OW 23+10	13.58	0	13.58	0	13.63	0	13.62	0	13.62	0	13.61	0	13.61	0	15.79
OW 23+90	13.96	0	13.96	0	14.01	0	13.99	0	13.99	0	13.99	0	13.98	0	15.07
OW 25+70	10.69	0	10.69	0	10.71	0	10.72	0	10.72	0	10.72	0	10.72	0	14.01

DTW = Depth to Water

DTP = Depth to Product

PHASE II Collected Data - 2005

	May 9, 2005		May 12, 2005		May 17, 2005		May 19, 2005		May 24, 2005		May 26, 2005		May 31, 2005		Total Well Depth
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	
CW 0+60	8.68	0	8.74	0	8.76	0	8.79	0	8.8	0	8.82	0	8.82	0	14.93
CW 1+50	6.71	0	6.76	0	6.8	0	6.82	0	6.82	0	6.83	0	6.85	0	13.84
CW 3+85	7.41	0	7.51	0	7.48	0	7.52	0	7.56	0	7.52	0	7.52	0	15.21
CW 5+50	7.37	0	7.4	0	7.37	0	7.4	0	7.38	0	7.38	0	7.38	0	13.45
CW 6+70	7.80	0	7.91	0	7.86	0	7.9	0	7.88	0	7.89	0	7.85	0	12.7
CW 8+10	7.78	0	7.85	0	7.8	0	7.88	0	7.84	0	7.86	0	7.85	0	12.02
CW 8+45	9.78	9.32	9.64	9.44	9.77	9.35	9.74	9.46	9.6	9.42	9.7	9.37	9.86	9.38	14.95
CW 11+15	7.39	7.27	7.39	7.35	7.41	7.34	7.5	7.4	7.47	7.37	7.42	7.32	7.47	7.37	13.88
CW 14+10	7.43	0	7.52	0	7.45	0	7.56	0	7.54	0	7.52	0	7.52	0	14.09
CW 16+60	8.34	0	8.39	0	8.35	0	8.38	0	8.38	0	8.39	0	8.4	0	14.87
CW 19+50	8.58	0	8.61	0	8.57	0	8.66	0	8.62	0	8.63	0	8.61	0	12.07
CW 22+00	10.97	0	10.98	0	10.98	0	11	0	11	0	11	0	10.77	0	14.1
CW 23+10	11.53	0	11.53	0	11.53	0	11.56	0	11.54	0	11.55	0	11.55	0	15.5
CW 23+90	9.27	0	9.27	0	9.28	0	9.29	0	9.28	0	9.28	0	9.27	0	12.66
CW 25+95	9.02	0	9.02	0	9.02	0	9.02	0	9.01	0	9.02	0	9.01	0	14.07

DTW = Depth to Water

DTP = Depth to Product

PHASE II Collected Data - 2005

	May 9, 2005		May 12, 2005		May 17, 2005		May 19, 2005		May 24, 2005		May 26, 2005		May 31, 2005		Total Well Depth
	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	
MW #11	11.30	0	11.32	0	11.35	0	11.37	0	11.43	0	11.4	0	11.5	0	22.94
MW #12	10.43	0	10.45	0	10.51	0	10.57	0	10.68	0	10.63	0	10.85	0	14.98
MW #20	21.18	20.91	21.2	20.92	21.18	20.89	21.2	20.93	21.19	20.91	21.2	20.91	21.18	20.9	27.13
MW #21	21.99	21.98	21.98	21.97	21.97	21.96	21.97	21.98	21.98	21.97	21.97	21.96	21.98	21.97	30.38
MW #39	29.46	0	29.18	0	28.72	0	28.58	0	28.35	0	28.51	0	28.34	0	38.34
MW #45	11.98	11.65	11.43	11.07	11.41	11.03	11.59	11.15	11.58	11.12	11.57	11.11	11.56	11.11	16.92
MW #46	10.28	0	10.28	0	10.27	0	10.26	0	10.28	0	10.28	0	10.27	0	10.39
MW #47	12.58	11.6	12.71	11.71	12.84	11.72	12.81	11.74	12.86	11.74	12.84	11.73	12.83	11.72	14.28

RW #1, RW #9, RW #22, RW #23,
RW #28 are active recovery wells and
were not measured.

MW #24 was designed for air
sparging activities and does not
accommodate monitoring

DTW = Depth to Water

DTP = Depth to Product

PHASE II MONITORING - 2005

General Chemistry - Observation Wells

	EPA Method 300.0						Field Data				
	DATE SAMPLED	mg/L Fluoride	mg/L Chloride	mg/L P	mg/L Sulfate	mg/L Nitrate	mg/L E.C.	pH	Farenheit Temp.	mg/L D.O.	mg/L TDS
WQCC 20NMAC 6.2.3103		1.6	250		600	10		6.0-9.0			1000
OW 0+60	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons
OW 1+50	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons
OW 3+85	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons
OW 5+50	5/9/05	Well	Not	Sampled			no sample	well	dry		
OW 6+70	5/9/05	Well	Not	Sampled			no sample	well	dry		
OW 8+10	5/9/05	Well	Not	Sampled			no sample	well	dry		
OW 11+15	5/11/05	0.43	320	<.5	130	<.5	2507	6.9	57	7	1951
OW 14+10	5/11/05	0.53	73	<.5	350	<.5	2311	6.95	60	13.1	1784
OW 16+60	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons
OW 19+50	5/10/05	0.36	290	<.5	290	<.5	2896	6.82	58	>13.0	2288
OW 22+00	5/10/05	0.78	480	<.5	140	<.5	2928	6.84	57	>13.0	2311
OW 23+10	5/12/05	Not	Enough	Water	To	Sample	2678	6.96	59	trace water	2095
OW 23+90	5/12/05	0.72	320	<.5	77	<.1	2268	6.97	60	trace water	1747
OW 25+70	5/12/05	0.53	50	<.5	350	<.1	1303	6.94	56	7.7	963

PHASE II MONITORING - 2005

General Chemistry - Collection Wells

	EPA Method 300.0						Field Data				
	DATE SAMPLED	mg/L Fluoride	mg/L Chloride	mg/L P	mg/L Sulfate	mg/L Nitrate	mg/L E.C.	pH	Farenheit Temp.	mg/L D.O.	mg/L TDS
WQCC 20NMAC 6.2.3103		1.6	250		600	10		6.0-9.0			1000
CW 0+60	5/10/05	0.51	39	<.5	75	<.5	1378	6.82	55	>13.0	1023
CW 1+50	5/10/05	0.59	43	<.5	5.8	<.5	1463	6.86	56	7.1	1084
CW 3+85	5/10/05	0.21	270	<.5	32	<.5	2880	6.87	56	>13.0	2270
CW 5+50	5/10/05	0.33	2700	<.5	75	<.5	8765	6.81	56	8.5	7762
CW 6+70	5/11/05	<.5	2400	<.5	170	<.5	8175	6.86	55	8.7	7191
CW 8+10	5/11/05	0.29	1100	<.5	720	<.5	5199	6.83	55	8	4358
CW 8+45	5/8/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons
CW 11+15	5/8/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons
CW 14+10	5/11/05	2.1	78	<.5	2300	<.5	4103	6.85	58	6.5	3353
CW 16+60	5/11/05	0.42	150	<.5	150	<.5	2420	6.91	60	7.4	1875
CW 19+50	5/10/05	0.35	230	<.5	260	<.5	2844	6.83	56	9.3	6724
CW 22+00	5/10/05	0.74	510	<.5	38	<.5	3202	6.83	57	12.2	2548
CW 23+10	5/12/05	0.59	450	<.5	9.7	<.5	3046	6.92	54	7.8	2425
CW 23+90	5/12/05	0.39	350	<.5	4.9	<.1	2702	6.86	55	7.6	2124
CW 25+95	5/12/05	0.43	85	<.5	270	<.1	1287	6.92	56	8.2	949

PHASE II MONITORING - 2005

BTEX & Total Metals - Collection Wells

EPA Method 8021B						EPA Method 6010C EPA Method 7470: Mercury								
	DATE SAMPLED	mg/L Benzene	mg/L Toluene	mg/L EthylBen	mg/L Xylene	40CFR 141.62	mg/L Arsenic	mg/L Barium	mg/L Cadmium	mg/L Cr	mg/L Lead	mg/L Se	mg/L Silver	mg/L Mercury
WQCC 20NMAC 6.2.3103		0.01	0.75	0.75	0.62	MCL	0.05	2	0.005	0.1	0.015	0.05	0.05	0.002
CW 0+60	5/10/05	0.2	0.032	0.18	1		<.02	0.33	<.002	<.006	0.012	<.05	<.005	<.002
CW 1+50	5/10/05	1.2	0.041	0.24	2.3		<.02	0.59	<.002	<.006	0.007	<.05	<.005	<.0002
CW 3+85	5/10/05	0.035	0.022	0.02	0.25		<.02	0.68	<.002	<.006	<.005	<.05	<.005	<.0002
CW 5+50	5/10/05	0.2	0.011	0.064	0.24		<.02	0.83	<.002	<.006	<.005	<.05	<.005	<.0002
CW 6+70	5/11/05	0.0027	<.5	<.5	0.0013		<.02	0.34	<.002	<.006	<.005	<.05	<.005	<.0002
CW 8+10	5/11/05	0.43	<.00025	0.051	0.66		<.02	0.49	<.002	<.006	<.005	<.05	<.005	<.0002
CW 8+45	5/8/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
CW 11+15	5/8/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
CW 14+10	5/11/05	9.8	<.00025	2.1	1.3		<.1	0.33	<.01	<.03	<.025	<.25	<.025	<.002
CW 16+60	5/11/05	5.3	0.075	3.8	7.3		<.02	0.6	<.002	<.006	0.01	<.05	<.005	<.0002
CW 19+50	5/10/05	4.8	0.021	1.7	5.1		<.02	0.2	<.002	<.006	0.0061	<.05	<.005	<.0002
CW 22+00	5/10/05	7	0.09	0.095	0.2		<.02	0.61	<.002	<.006	<.005	<.05	<.005	<.0002
CW 23+10	5/12/05	6.3	0.076	0.19	3.5		<.02	0.73	<.002	<.006	<.005	<.05	<.005	0.00038
CW 23+90	5/12/05	3.4	0.035	0.17	0.4		<.02	0.4	<.002	<.006	<.005	<.05	<.005	<.0002
CW 25+95	5/12/05	0.001	<.0005	<.0005	<.0005		<.02	0.085	<.002	<.006	<.005	<.05	<.005	<.0002

PHASE II MONITORING - 2005

BTEX & Total Metals - Observation Wells

EPA Method 8021B						EPA Method 6010C EPA Method 7470: Mercury								
	DATE SAMPLED	mg/L Benzene	mg/L Toluene	mg/L EthylBen	mg/L Xylene	40CFR 141.62	mg/L Arsenic	mg/L Barium	mg/L Cadmium	mg/L Cr	mg/L Lead	mg/L Se	mg/L Silver	mg/L Mercury
WQCC 20NMAC 6.2.3103		0.01	0.75	0.75	0.62	MCL	0.05	2	0.005	0.1	0.015	0.05	0.05	0.002
OW 0+60	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
OW 1+50	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
OW 3+85	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
OW 5+50	5/9/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
OW 6+70	5/9/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
OW 8+10	5/9/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
OW 11+15	5/11/05	0.42	<.00025	0.14	0.52		0.037	1.9	<.002	0.02	0.028	<.05	<.005	<.0002
OW 14+10	5/11/05	10	<.0005	3.9	3.2		0.11	11	<.002	0.09	0.73	<.05	<.005	<.0002
OW 16+60	5/12/05	Well	Not	Sampled			no sample	well	contains	hydro-	carbons			
OW 19+50	5/10/05	1.9	0.013	0.86	3.2		<.02	0.23	<.002	<.006	0.024	<.05	<.005	<.0002
OW 22+00	5/10/05	3.1	0.045	0.15	0.34		<.02	0.16	<.002	<.006	0.012	<.05	<.005	<.0002
OW 23+10	5/10/05	0.34	0.0092	0.011	0.08		<.02	0.75	<.002	0.02	0.0091	<.05	<.005	0.00096
OW 23+90	5/12/05	0.98	0.016	0.031	0.13		Not	enough	water	to	sample			
OW 25+70	5/12/05	0.00079	<.0005	<.0005	<.0005		0.14	25	<.01	0.44	0.13	<.025	<.025	<.0002