

Table 1

Newmark and Muscoy Plume Front Extraction Well Network Aquifer Testing Chronology
 Newmark Groundwater Superfund Site - San Bernardino, California

Testing Phase	Date (Approximate Time)	Description of Event(s)
Background	11/26-11/27/02	Transducer/Data Loggers were installed in monitoring wells (MW-128 through MW-130, MW-135 through MW-139, by INW/URS staff). Configured to record water-level elevation on 15-min intervals
	12/18-12/19/02	All INW instruments were downloaded, manual water-levels taken, and set to log on 10-min intervals by SECOR.
	1/6/2003 (13:00)	Pre-Testing System Shutdown; All extractions wells are shutdown
EW-5	1/13/2003 (15:00)	EW-5 start
	1/17/2003 (14:00)	EW-5 shutdown (average discharge rate=2,112 gpm)
WD#15	1/20/2003 (15:00)	West District #15 start; EW-4 start; EW-4 pump shut down automatically due to incoming voltage drop. Continued with WD#15 test only. EW-4 test postponed.
	1/22/03 (15:00)	Several monitoring wells on the Newmark side exhibit a drawdown response from the start of Cooley H & I.
	1/24/2003 (15:00)	West District #15 shutdown
EW-4	1/27/2003 (15:00)	EW-4 start
	1/29/03 (9:40)	EW-4 flow rate increased from approximately 1,934 gpm to approximately 2,005 gpm
	1/30/03 (10:00)	On 1/30/03 the flow rate in the Perris St well is increased by SBVMWD staff; nearby wells show drawdown response. On 2/1/03 the flow rate is further increased, and again nearby wells exhibit additional drawdown. Perris St well automatically shuts down and is restarted on 2/2/03; nearby wells show sharp water-level increases corresponding to the well's shutdown period.
	1/31/2003 (14:00)	EW-4 shutdown (time-weighted average discharge rate=1,973 gpm)
EW-3	2/3/2003 (15:00)	EW-3 start
		Perris St well automatically shuts down again and is restarted on 2/5/03; nearby wells show sharp water-level increases corresponding to shutdown period.
	2/7/2003 (14:00)	EW-3 shutdown (average discharge rate=1,752 gpm)
EW-2	2/10/2003 (15:00)	EW-2 started
	2/10/03 (15:00)	EW-2 automatically shut down due to voltage drop
	2/10/03 (15:45)	EW-2 restarted by Mike Lowe (SBMWD)
	2/10/03 (16:00)	EW-2 shutdown manually by Mike Lowe; because the data loggers were collecting samples at 2-min intervals at the time of restart, the decision was made to shut down the well, and reprogram reprogram the dataloggers for a restart at 15:00 the following day (2/11).
	2/11/2003 (15:00)	EW-2 start
	2/11/03 (14:00) through 2/13/03 (20:00)	Over this period 9.75 in of rain was recorded in the aquifer testing focus area (at the Lytle Creek weather station).
	2/15/2003 (14:00)	EW-2 shutdown (average discharge rate=1,977 gpm)

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EW-1	2/18/03	Start of EW-1 test is postponed due to sharp increases in water levels in several wells on the Newmark side (most pronounced in 7th St, 16th St, Gilbert, and EW-1 through EW-5).
	2/21/2003 (15:00)	EW-1 start
	2/23/03 (07:30)	EW-1 automatically shut down due to voltage drop
	2/23/03 (08:50)	EW-1 restarted by SBMWD staff
	2/24/03 (07:00) through 2/27/03 (14:00)	Over this period 3.75 in of rain was recorded in the aquifer testing focus area (at the Lytle Creek weather station).
	2/26/2003 (14:00)	EW-1 shutdown (average discharge rate=2,052 gpm)
EW-108	3/6/2003 (15:00)	EW-108 start
	3/10/2003 (14:00)	EW-108 shutdown (average discharge rate=2,290 gpm)
EW-112	3/13/2003 (15:00)	EW-112 start
	3/15/03 (05:00) through 3/17/03 (01:00)	Over this period 7.49 in of rain was recorded in the aquifer testing focus area (at the Lytle Creek weather station).
	3/17/2003 (14:00)	EW-112 shutdown (average discharge rate=2,220 gpm)
Combined #1	3/24/2003 (15:00)	Combined Well Test #1 Start
Combined #2	4/7/2003 (16:00)	Combined Well Test #2 Start
EW-112 (Test 2)	4/21/2003 (07:00)	EW-112 start
	4/24/2003 (07:00)	EW-112 shutdown (average discharge rate=2,200 gpm)