

3R – 315

2010 AGWMR

04 / 29 / 2011

3R-315

FLORENCE #40

Site Summary Report

Site Name: Florance 40

Reporting Period: 2010

Location: Unit G, Sec 21, Twn 30N, Rng 8W

Canyon: Gobernador

Operator: BP

Status Narrative

Responsibility for the remediation of the contaminant plume or plumes has been divided between BP and Williams. In a December 30, 1997 letter to Amoco, the NMOCD required Amoco to address soil and ground water contamination downgradient of Amoco's separator pit, located up gradient of the Williams source area. The letter assigned responsibility for ground water contamination downgradient of PNM's former dehydrator pit to PNM (now a Williams' responsibility). As noted last year, a new lock was placed on the AMOCO well and suggested that BP may now be actively monitoring its' area of responsibility. Nonetheless, the nature and extent of BP's (Amoco) efforts are unknown.

Fifty-three quarters of water quality data have been collected from the seven monitoring wells located at this site. LNAPL previously present in several wells has not observed for nearly three years. The majority of recovered LNAPL had been previously removed from well MW-1 located in the BP (Amoco) area of responsibility. Monitoring well MW-6 (source area) which previously had LNAPL, continues to show a declining contaminant trend as does the up gradient Amoco well. Monitoring of sentinel well MW-7 confirms that there is no plume migration off-site.

Potentiometric surface maps show ground water to flow generally to the east-southeast at an average hydraulic gradient of 0.05. Up gradient contamination likely delays effective monitored natural attenuation in the area for which Williams is responsible. Until such time as up-gradient conditions are addressed, monitored natural attenuation and ultimate site closure will likely extend in time.

Analytical Data Summary

Site Name:

Florance 40

Reporting Period:

1/8/2008 To 12/31/2010

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
AMOCO						
	3/27/2008	180127MAR08	183	<25.0	3920	11000
	3/27/2008	180427MAR08	168	<25.0	1800	10200
	6/4/2008	145404JUN08	211	<25.0	1350	8170
	9/18/2008	115119SEP08	169	<50.0	2110	17500
	12/5/2008	161705DEC08	134	<100	1280	10900
	3/28/2009	120528MAR09	130	<100	1760	15800
	7/8/2009	145208JUL09	220	<50.0	2350	16400
	9/11/2009	163411SEP09	133	<100	2880	20700
	12/20/2009	104820DEC09	106	<10.0	823	5450
	3/29/2010	170129MAR10	114	<100	1230	8840
	6/23/2010	115923JUN10	116	<25.0	3400	19000
	9/10/2010	121410SEP10	112	<50.0	2980	22000
	12/4/2010	123304DEC10	103	<50.0	1710	10900
MW-4						
	3/27/2008	185027MAR08	<10.0	<10.0	285	2390
	6/4/2008	151804JUN08	<10.0	<10.0	232	1830
	9/18/2008	122719SEP08	<5.0	16.1	218	1640
	12/5/2008	165005DEC08	<5.0	<5.0	55.6	410
	3/28/2009	123828MAR09	<5.0	<5.0	111	732
	7/8/2009	151708JUL09	6.1	<5.0	91.2	587
	9/11/2009	170611SEP09	<1.0	<1.0	39.9	199
	12/20/2009	111920DEC09	<1.0	<1.0	28.1	145
	3/29/2010	172729MAR10	<5.0	7.1	65.5	360
	6/23/2010	123123JUN10	<5.0	<5.0	70.1	439
	9/10/2010	124110SEP10	<1.0	<1.0	11.8	110
	12/4/2010	130604DEC10	<5.0	<5.0	15.8	152
MW-6						
	3/27/2008	183427MAR08	3670	2150	1210	14300
	6/4/2008	154104JUN08	2380	1370	580	11900
	9/18/2008	121219SEP08	3600	278	1290	18100
	12/5/2008	163705DEC08	1580	85.3	828	10100
	3/28/2009	122528MAR09	1790	94.9	886	15300
	9/11/2009	165411SEP09	1200	94.8	523	3580
	6/23/2010	121923JUN10	815	75.3	32.3	3090
	9/10/2010	123110SEP10	674	129	28.7	4010

Site Name:

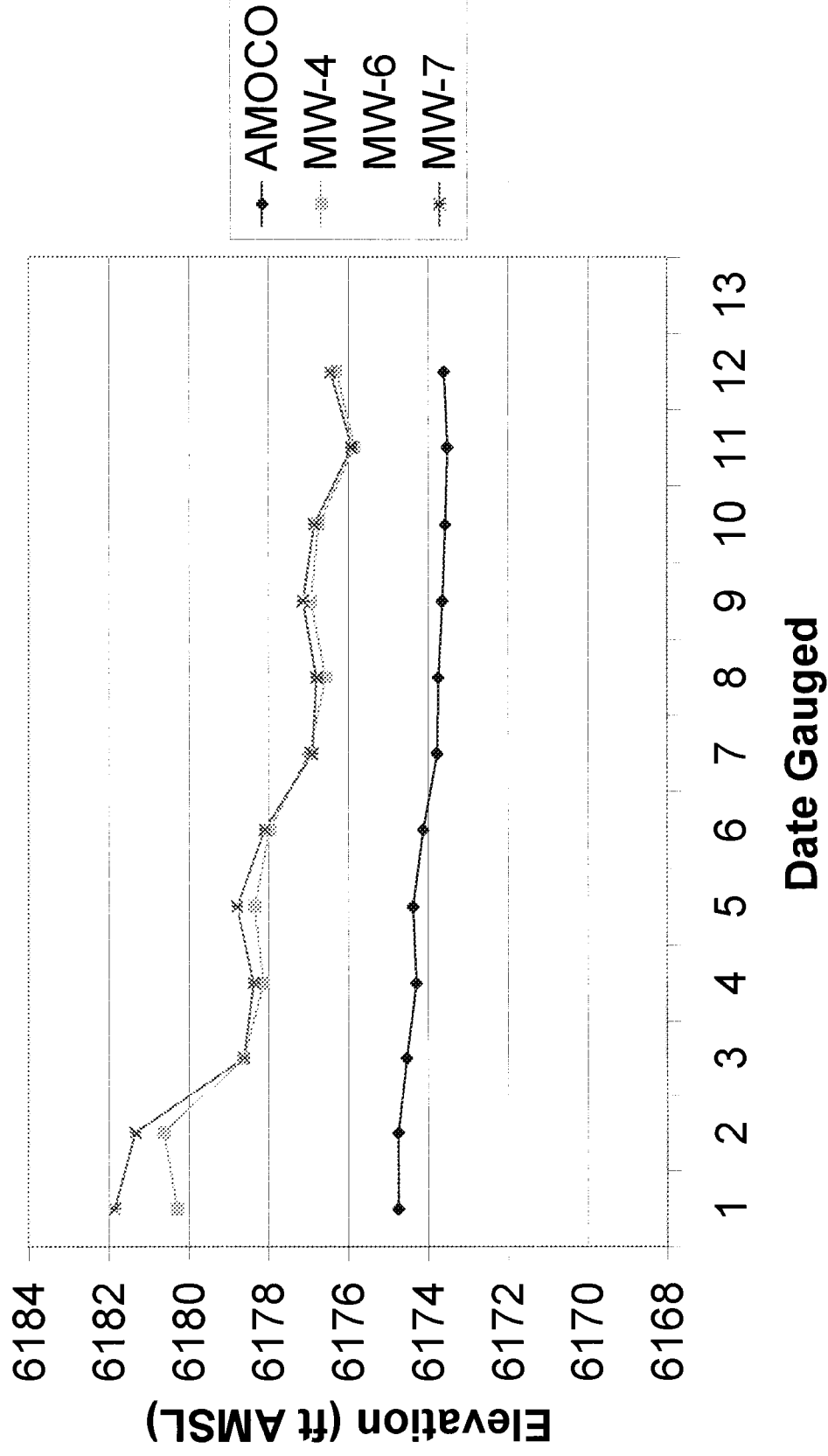
Florance 40

Reporting Period:

1/8/2008 To 12/31/2010

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-7						
	3/27/2008	174427MAR08	<1.0	<1.0	<1.0	<3.0
	6/4/2008	144404JUN08	<1.0	<1.0	<1.0	<3.0
	9/18/2008	113319SEP08	<1.0	<1.0	<1.0	<3.0
	12/5/2008	160205DEC08	<1.0	<1.0	<1.0	<3.0
	3/28/2009	115028MAR09	<1.0	<1.0	<1.0	<3.0
	7/8/2009	143508JUL09	<1.0	<1.0	<1.0	<3.0
	9/11/2009	162311SEP09	<1.0	<1.0	<1.0	<3.0
	12/20/2009	101620DEC09	<1.0	<1.0	<1.0	<3.0
	3/29/2010	164629MAR10	<5.0	<5.0	<5.0	<15.0
	6/23/2010	114223JUN10	<1.0	<1.0	<1.0	<3.0
	9/10/2010	120010SEP10	<1.0	<1.0	<1.0	<3.0
	12/4/2010	122504DEC10	<1.0	<1.0	<1.0	<3.0

2010 FLR40 Hydrograph



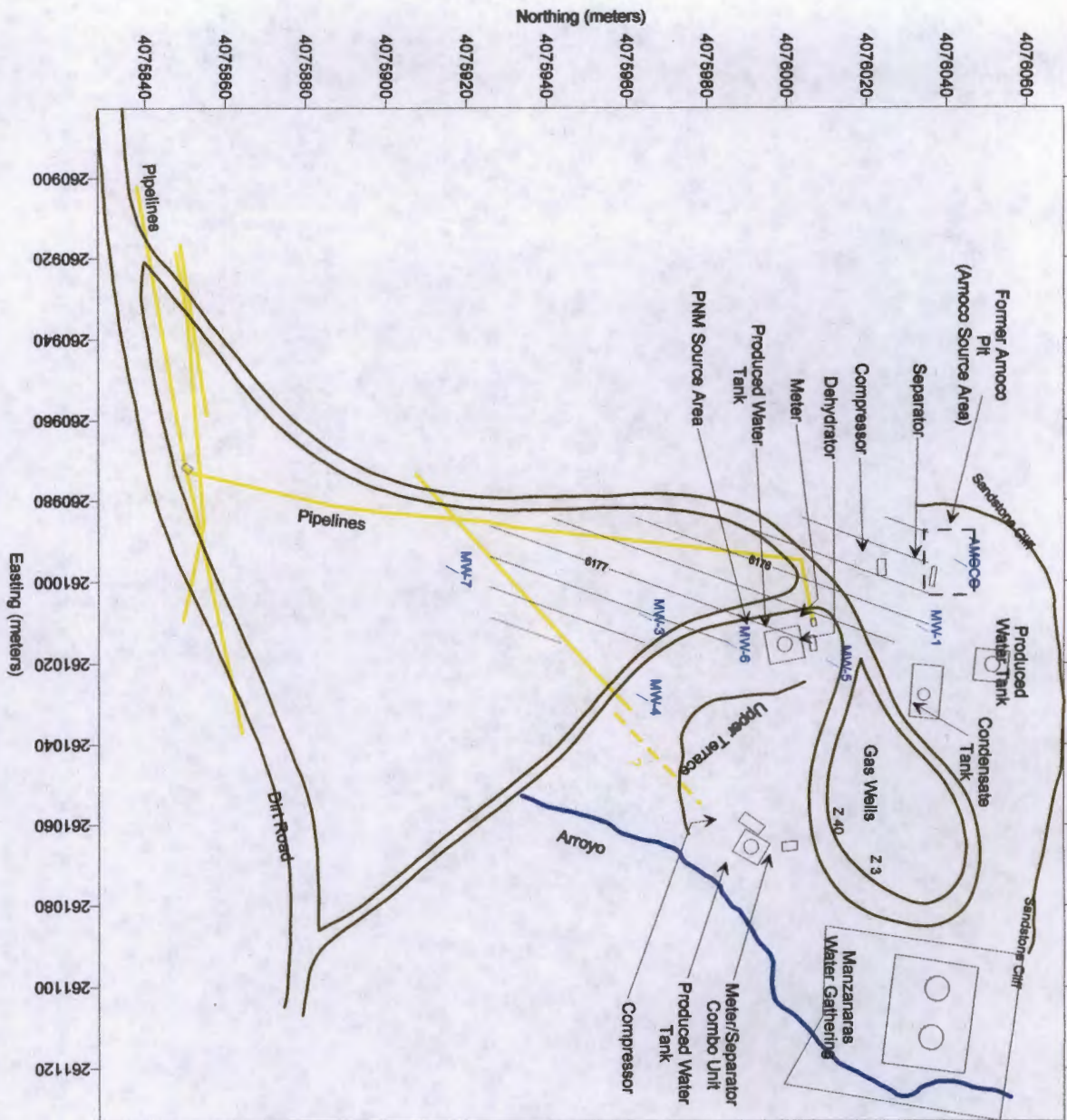
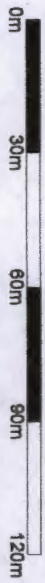
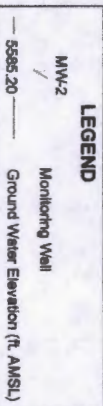


Figure 2
Potentiometric
Surface Map
Florance 40
March 2010



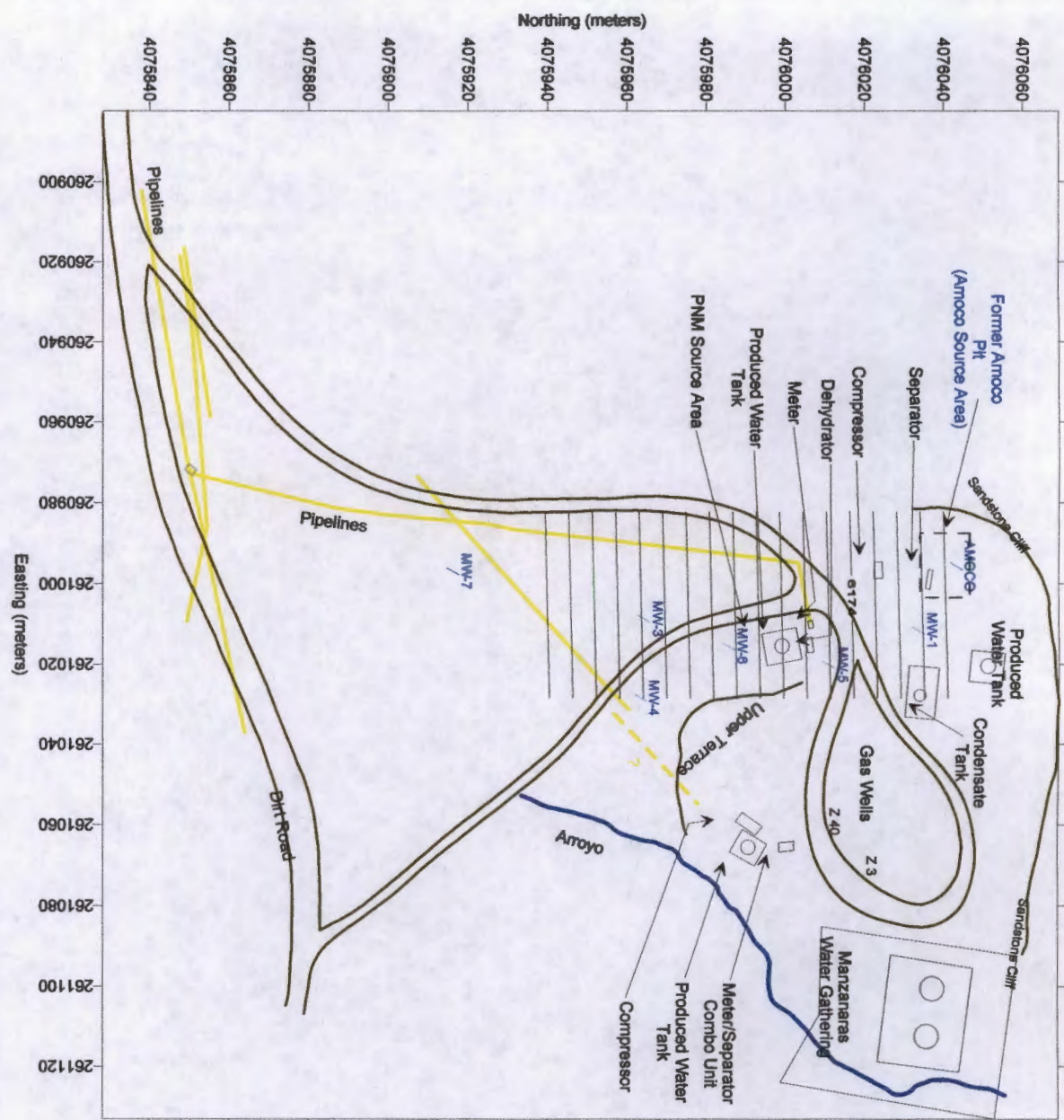
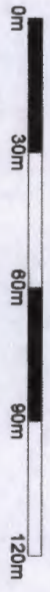


Figure 2
Potentiometric
Surface Map
Florence 40
September 2010

LEGEND

MW-2 / Monitoring Well

5598.20 ——— Ground Water Elevation (ft. AMSL)