Wickham, Jerry, Env. Health

From:	Couch, Shannon L. (URS) [Shannon.Couch@bp.com]
Sent:	Friday, August 31, 2012 2:32 PM
To:	Wickham, Jerry, Env. Health
Subject:	ARCO 771- 899 Rincon Avenue, Livermore
Attachments:	771 Soil Data.pdf; Drawing 2 - Site Map ARCO 771.pdf; ARCO 771 .JPG

Hi Jerry,

It was nice meeting you last Wednesday and I look forward to working with you.

I wanted to give you an update regarding the product that was discovered at ARCO 771. The well was initially measured on July 25, 2012. Unfortunately I was not informed until this week that the product was discovered after Broadbent had conducted their QA/QC of the field data sheets. I immediately contacted our BP compliance office to report the product that was measured at 0.01 feet in thickness. (Picture is attached)

Our compliance representative informed me there had not been any alarms to indicate there had been a release. They are sending out a contractor (I believe today) to re-check if any alarms occurred and to perform a visual inspection. In addition, they are going to perform a tank and line test next week to see if there is any other indication that the system has been compromised in some way.

I also reviewed the soil data from this well (I have attached it – SB-10) and it does appear there is anything significant here.

Broadbent returned to the site today, August 31, 2012, to measure product thickness in well MW-7. The same thickness, 0.01 feet, was measured in well MW-7. I also requested they measure neighboring wells and no product was observed any of the neighboring wells. I asked them to bail the product and collect a grab groundwater sample and put in on a quick turn with the lab.

You indicated in our meeting that there is a muni well within 850 feet of the site. Do you have any additional information for this well (depth, screened interval, etc)? If you can share this information with me, I would appreciate it.

I will keep you posted on the system testing and will inform you when we receive the results of the sample.

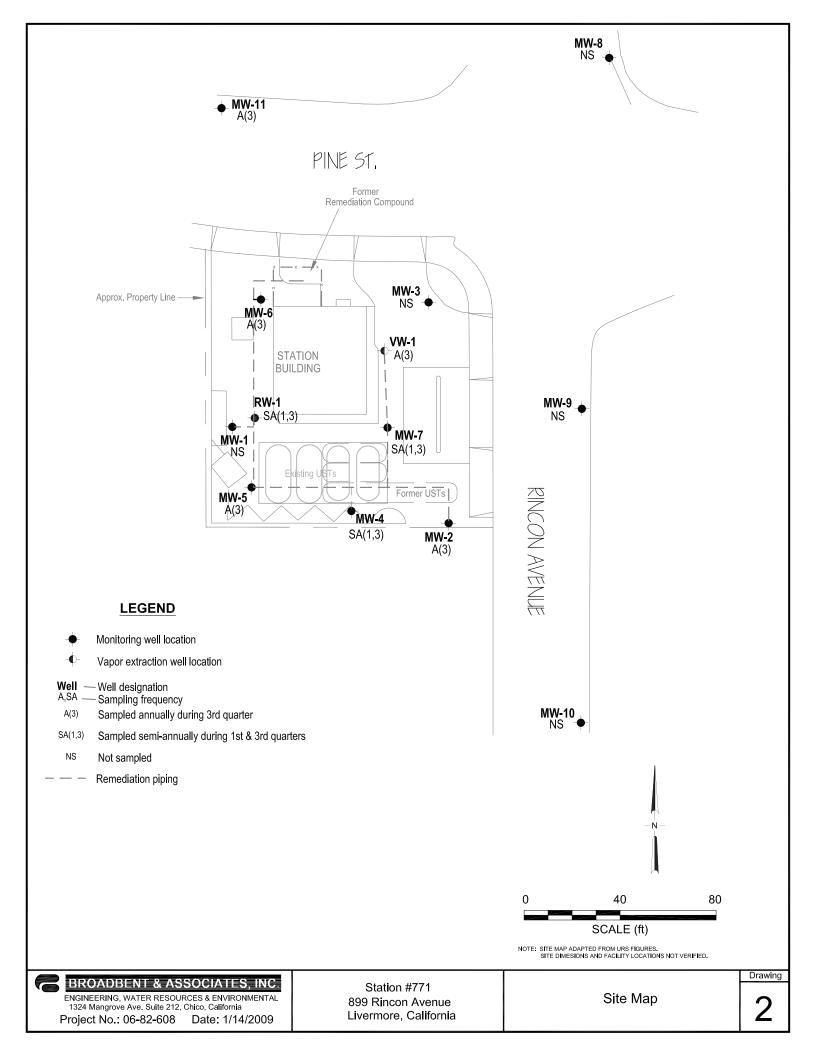
Thanks and feel free to contact me with any questions.

-Shannon

Shannon Couch Operations Project Manager Remediation Management

Atlantic Richfield Company (a BP affiliated company) P.O. Box 1257 San Ramon, CA 94583 Office: 925.275.3804 Cell: 510.798.8314 Fax: 925.275.3815 Email: shannon.couch@bp.com

<<771 Soil Data.pdf>> <<Drawing 2 - Site Map ARCO 771.pdf>> <<ARCO 771 .JPG>>





Additional Onsite and Initial Offsite Subsurface Investigation ARCO Station 771, Livermore, California

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TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES ARCO Station 771 Livermore, California (Page 1 of 4)								
Sample Identification	TPHg	ТРНа	В	Т	E	x	TOG	
February 1990	.							
S-10-B1	< 1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-19.5-B1	<1.0	NA	0.022	0.024	< 0.005	0.022	NA	
S-24.5-B1	<1.0	NA	0.022	0.015	0.010	0.048	NA	
S-29.5-B1	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-10-B2	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-20-B2	< 1.0	NA	0.016	0.020	< 0.005	0.025	NA	
S-25-B2	1.4	NA	< 0.01	< 0.01	< 0.01	0.018	NA	
S-31-B2	< 1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-10-B3	< 1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-19.5-B3	<1.0	NA	0.028	< 0.005	< 0.005	0.017	NA	
S-25-B3	4.5	NA	0.047	< 0.01	0.011	0.038	NA	
S-32.5-B3	190	NA	< 1.0	<1.0	<1.0	1.7	NA	
December 1990								
\$-20-B4	<1.0	NA	0.006	< 0.005	< 0.005	< 0.005	NA	
S-30-B4	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-32.5-B4	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-36.5-B4	140	NA	< 0.15	0.80	1.7	4.2	NA	
S-43-B4	3,800	NA	<15	130	50	280	NA	
S-45.5-B4	5.5	NA	0.16	0.51	0.11	0.82	NA	
S-20-B5	<1.0	NA	0.068	0.013	0.009	0.026	NA	
S-30-B5	< 1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-34.5-B5	97	NA	< 0.005	0.13	0.087	0.22	NA	
S-39.5-B5	13	NA	0.15	0.66	0.16	1.5	NA	
S-45-B5	<1.0	NA	< 0.005	0.006	< 0.005	0.009	NA	
S-20-B6	< 1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-30-B6	< 1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-36_5-B6	<1.0	NA	< 0.005	< 0.005	< 0.005	0.006	NA	
S-41-B6	< 1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-44.5-B6	<1.0	NA	<0.005	< 0.005	< 0.005	< 0.005	NA	
S-011591-1ABCD*	31	NA	0.25	0.67	0.34	2.8	NA	
June, July 1991								
S-10-B7	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-20-B7	2.2	NA	0.074	0.12	0.061	0.43	NA	
S-25-B7	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-30-B7	48	NA	0.064	0.15	0.41	1.9	NA	

See notes on page 4 of 4.



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TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES ARCO Station 771 Livermore, California (Page 2 of 4)								
Sample Identification	TPHg	TPHd	В	T	Е	x	TOG	
une, July 1991 cont.								
S-33-B7	<1.0	NA	< 0.005	0.006	< 0.005	0.010	NA	
S-40-B7	19	NA	0.019	0.059	0.14	0.74	NA	
S-44-B7	<1.0	NA	0.049	0.020	0.021	0.024	NA	
S-10.5-B8	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-20.5-B8	<1.0	NA	0.013	< 0.005	< 0.005	< 0.005	NA	
S-25.5-B8	3.5	NA	< 0.005	0.007	0.015	0.028	NA	
S-34.5-B8	210	NA	0.27	1.0	2.0	12	NA	
S-41-B8	3,200	NA	10	70	37	170	NA	
S-43-B8	4.9	NA	0.26	1.2	0.13	0.67	NA	
S-10_5-B9	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-15.5-B9	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-25.5-B9	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-34.5-B9	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-36-B9	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-42-B9	1.8	NA	0.049	0.006	0.020	0.030	NA	
S-45-B9	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-10.5-B10	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
S-20.5-B10	<1.0	NA	0.042	< 0.005	0.007	< 0.005	NA	
S-25.5-B10	27	NA	0.44	0.74	0.36	2.0	NA	
S-34.5-10	88	NA	0.20	0.50	0.84	0.96	NA	
S-36-B10	110	NA	0.28	0.51	0.86	2.7	NA	
S-42-B10	<1.0	NA	0.008	< 0.005	< 0.005	0.021	NA	
S-7-B11	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 30	
S-8.5-B11	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 30	
S-15.5-B11	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	<30	
S-20.5-B11	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	<30	
S-25.5-B11	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	<30	
S-35.5-B11	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	<30	
S-40-B11	<1.0	<1.0	< 0.005	< 0.005	< 0.005	<0.005	<30	
August 12, 1991								
SP1-ABCD*	<1.0	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	
April 1992						-		
S-10.5-B15	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	
S-20.5-B15	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	
S-28.5-B15	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	
S-41-B15	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	

See notes on page 4 of 4.



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TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES ARCO Station 771 Livermore, California (Page 3 of 4)							
Sample Identification	TPHg	TPHd	В	Т	Е	x	TOG
April 1992 cont.				*			
S-11-B16	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-21-B16	<1.0	NA	0.0080	< 0.0050	< 0.0050	< 0.0050	NA
S-31-B16	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-11-B17	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-21-B17	<1.0	NA	0.021	< 0.0050	0.017	0.0080	NA
S-30.5-B17	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-33-B17	< 1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-43-B17	7.0	NA	0.30	0.77	0.15	1.1	NA
S-0409-SP1-A-D*	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-0409-SP2-A-D*	6.4	NA	0.0070	0.015	0.020	0.12	
January 1993							
S-9-B12	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-17-B12	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-26-B12	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-43.5-B12	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-9.5-B13	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-14.5-B13	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-26-B13	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-40-B13	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-9.5-B14	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	<0.0050	NA
S-17-B14	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-27.5-B14	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-38-B14	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
S-0115-SP-A-D**	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
	[<0.050]	[NA]	[0.00050]	[0.00050]	[0.00050]	[0.00050]	[NA]

See notes on page 4 of 4.



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CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES ARCO Station 771 Livermore, California (Page 4 of 4)									
Sam Identif	•	TPHg	TPHd	в	т	Е	x	TOG	
Resulte me	acured in a	part per millio	(nnm)						
TPHg: TPHd: B: benzene BTEX: TOG: *: <: NA: :	Total p ; T: toluen Analyz Total c Compo Less th Sample	etroleum hyd e; E: ethylber ed by EPA M bil and grease ssite sample o	Irocarbons as of inzene; X: xyler (ethod 5030/80 (analyzed by 5 f four soil sam tory detection	diesel (analyz ies. 015/8020. Standard Met oples obtained	ed by EPA Me	Method 5030/8 ethod 5030/801: * (Gravimetric) led soil.	5).		
0.	corrosi ignitab: and rea cyanide	vity by EPA I ility by EPA I activity by EP e < 0.50 ppm,1	reaction with w	pH = 7.1; flashpoint > 30, 9010 and vater - negative	100°C; 9045 - sulfide /e.		froit		
[]: TPHg and BTEX an Sample Identification:				Boring	number of boring in fee				

