



511 Forest Lodge Rd, Suite 100  
Pacific Grove, CA 93950

July 29, 2016

John Ramirez, Bureau Chief  
Monterey County Department  
Environmental Health Bureau (EHB)  
1200 Aguajito Road  
Monterey, CA 93940

To Whom It May Concern:

Please consider this letter and the attachments as our first quarterly water audit report which complies with the requirement in the Memorandum of Understanding (MOU) between California American Water Company and the county of Monterey, regarding the Ambler Oaks Subdivision.

Each requirement in the MOU is listed and addressed below:

- 1. Cal Am will diligently pursue any permits and permit amendments necessary to incorporate the Oaks' well into its water system and, upon obtaining such permits, will incorporate the Oaks' well into the Cal Am Monterey District Ambler Park system ("Ambler Park Water System").**

The State Water Resources Control Board – Division of Drinking Water (Division) approved Permit Amendment No. 3 to Original Permit No. 84-013 on June 30, 2015; adding the Ambler Oaks Well as a new source of supply to the existing treatment plant and service area in the Ambler Park Water System. The Ambler Park Water System No. 2710006 is owned and operated by California American Water Company (Cal-Am).

- 2. Cal Am shall on a quarterly basis balance the volume of treated water sent from the Ambler Park Water System to the Oaks subdivision and the water sent from the Oaks well to the Ambler Park Water System so as to result in no net transfer of water. Cal Am shall accomplish said balance by transferring a volume of raw water from the Oaks well to the Ambler Park Water System equal to the volume of water served by Ambler to the Oaks' lots. Equal volume shall include the calculated transportation water loss incurred in connection with Ambler's supply to the Oaks subdivision. The quantity of water pumped from the Oaks subdivision well to the Ambler Park Water System shall match the quarterly total plus the calculated transportation water loss.**

See *Attachment 1: Summary* for the Total Ambler Oaks Well Production, The Oaks subdivision consumption, and transportation water loss. Transportation water loss will only be assigned in the event of a leak on the line between the Ambler Oaks Well site and the Ambler Park Treatment Plant site, otherwise a zero (0) volume of water will be reported each month for transportation water loss. Cal Am began providing the Oaks subdivision with water in April 2008 from the Ambler Park Water System. Ambler Oaks Well began producing water to the Ambler Park Treatment Plant on April 1, 2016, see *Attachment 2: Production*. The total volume of water used by the Oaks subdivision customers from April 2008 to April 1, 2016 is 473,343 cubic feet. As of June 30, 2016 the balance owed by the Ambler Oaks Subdivision is 307,904 cubic feet.

- 3. Cal Am shall maintain water meters in good working order for its service to the Oaks lots, including residences and irrigation, so as to determine the amount of water served to the Oaks lots by the Ambler Park Water System. Cal Am shall also maintain a water meter(s) in good working order at the Oaks well, which shall be used to determine the volume of water pumped from the well. Within the first sixty days of each calendar year, Cal Am shall test all meters described in this Paragraph in accordance with corresponding manufacturer(s) specifications, and using competent personnel who are qualified to perform such testing. Cal Am shall submit a report including the results of this testing to the Monterey County Health Department Environmental Health Bureau (EHB) with a copy to the MCWRA no later than thirty days following the completion of the first quarter of each calendar year. The report described in this Paragraph may be combined and submitted with a quarterly report as described in Paragraph 6.**

Cal-Am replaced the existing three residential water meters and one dedicated irrigation meter on 7/27/16, with new Neptune T10 meters, which have been tested by the manufacturer (see *Attachment : Meter Numbers* and *Attachment 4: Meter Test Results*). In addition, Cal-Am will test or replace these meters within sixty days of the beginning of each calendar year in accordance with the MOU.

- 4. Cal Am shall on a quarterly basis total the monthly meter readings of the nine lots in the Oaks subdivision and the meter for irrigation of the common entrance. The water system's calculated transportation water loss for the quarter shall be added to the quarterly total meter readings. The quantity of water resulting from the addition of the quarterly total of the monthly meter readings and the calculated transportation water loss shall be pumped from the Oaks' well into the Ambler Park Water System on a quarterly basis during the calendar year (the four quarters being January through March, April through June, July through September, and October through December). Quarterly pumping of the Oaks' well based on the quarterly calculation within the month following the end of the quarter shall be considered to satisfy the no net transfer requirement.**

See *Attachment 5: Consumption* for the monthly consumption of the Oaks subdivision lots. Currently, there are three residential water meters and one dedicated irrigation meter. There are no meters set for the remaining lots. Transportation water loss will only be assigned in the event

of a leak on the line between the Ambler Oaks Well site and the Ambler Park Treatment Plant site, otherwise a zero (0) volume of water will be reported each month for transportation water loss. Cal Am began providing the Oaks subdivision with water in April 2008 from the Ambler Park Water System. Ambler Oaks Well began producing water to the Ambler Park Treatment Plant on April 1, 2016. The second quarter of the 2016 calendar year is the first quarter in which pumping of the Ambler Oaks Well has occurred.

- 5. Cal Am shall on a quarterly basis submit to EHB with a copy to the MCWRA a quarterly water audit report for review by EHB. Cal Am shall submit the water audit report no later than thirty days following each quarter. The water audit report shall be prepared by a qualified engineer experienced in water system operations. The water audit report shall indicate the quantity of water that was delivered to the Oaks subdivision (determined by the quarterly total of monthly meter readings of the nine Oaks subdivision lots and irrigation system plus the calculated transportation water loss) from the Ambler Park Water System and the quantity of water that was pumped from the Oaks' well to the Ambler Park Water System during the quarter. The report shall confirm that the quantity of water pumped from the Oaks' well to the Ambler Park Water System equals the quarterly total plus the calculated transportation water loss. The report shall demonstrate how the calculated transportation water loss was determined. If the report or other information indicates that the volume of water pumped from the Oaks' well into the Ambler Park Water System does not equal the volume calculated from the quarterly meter reading and the calculated transportation water system loss of the Oaks subdivision, then Cal Am shall explain the reasons for the discrepancy and the corrective action Cal Am proposes to take to achieve no net transfer. Cal Am shall take such steps as EHB may require to bring the transfer back into balance.**

Ambler Oaks Well was turned on 04/01/16. See *Attachment 2: Production* for the monthly Well production total. The quantity of water used by the Oaks subdivision in the second quarter of the 2016 calendar year was 21,139 cubic feet and the Ambler Oaks Well production during the same period was 186,577 cubic feet (see *Attachment 1: Summary*). The Ambler Park Water System has supplied the Oaks Subdivision with water beginning March 2008, as of 04/01/16 the Oaks Subdivision had a balance of 473,343 cubic feet to pay back to the Ambler Park Water System. The water transfer between the Ambler Park Water System and the Oaks Subdivision is in the process of balancing out. The limiting factor to achieve the "no net transfer of water" is the flow rate of Ambler Oaks Well. As the Well continues to run, the balance will move closer to zero. Once a zero balance is achieved, Cal-Am expects to comply with the "no net transfer of water" per the MOU on a quarterly basis. There are no corrective actions required at this time.

Cal Am will evaluate the Ambler Oaks Well water production meter with a Pump Efficiency Test. If the results are not within the range of acceptability, Cal Am will replace the meter.

- 6. Cal Am shall begin quarterly pumping of the Oaks' well into the Ambler system in the first quarter after Cal Am obtains all necessary permits to include the Oaks' well within its system. Additionally, to account for the water service provided by Ambler to the Oaks lots predating this quarterly pumping, Cal Am shall as part of its first draw from the Oaks' well transfer into the Ambler system an amount of water equivalent to the total amount of water previously served by Ambler to the Oaks lots.**

The State Water Resources Control Board- Division of Drinking Water (Division) approved Permit Amendment No. 3 to Original Permit No. 84-013 on June 30, 2015; adding the Ambler Oaks Well as a new source of supply to the existing treatment plant and service area in the Ambler Park Water System. The Ambler Park Water System No. 2710006 is owned and operated by California American Water Company (Cal-Am). Ambler Oaks Well went on-line on 04/01/16. The Ambler Park Water System has supplied the Oaks Subdivision with water beginning March 2008, as of 04/01/16 the Oaks Subdivision had a balance of 473,343 cubic feet to pay back to the Ambler Park Water System. Cal-Am began (on 04/01/16) applying water that was in excess of the Oaks water use to the balance of water service provided by the Ambler Park Water System to the Oaks lots predating the pumping of Ambler Oaks Well. The limiting factor to achieve the "no net transfer of water" is the flow rate of Ambler Oaks Well. As the Well continues to run, the balance will move closer to zero. Once a zero balance is achieved, Cal-Am expects to comply with the "no net transfer of water" per the MOU on a quarterly basis.

If you have any questions, please feel free to contact Roger Hulbert, Operations Manager, at 831-646-3232.

Sincerely,



Chris Cook, P.E.  
Assistant Manager – Engineering

Attachments

cc: N. Miller  
E. Sabolsice  
R. Hulbert  
R. James  
P. Glass  
M. Magretto  
J. DiMaggio  
C. Mathews  
MCWRA

**California American Water  
Monterey District**

Ambler Oaks Consumption and Ambler Oaks Well Production				
Month	Ambler Oaks Well Production (CF)	Transportation Water Loss from Ambler Oaks Well (CF)	Water Used By The Oaks Subdivision (CF)	Balance to pay back the Ambler Park Water System from Ambler Oaks Well (CF)
Starting Balance				473,343
Jan-16	0	0		473,343
Feb-16	0	0		473,343
Mar-16	0	0		473,343
Q#1 Total	0	0		473,343
Apr-16	46,214	0	6,750	433,879
May-16	58,889	0	6,929	381,919
Jun-16	81,475	0	7,460	307,904
Q#2 Total	186,577	0	21,139	307,904
Jul-16				
Aug-16				
Sep-16				
Q#3 Total				
Oct-16				
Nov-16				
Dec-16				
Q#4 Total				

Attachment 2: Production

California American Water  
 Monterey District  
 Ambler Oaks Well Production  
 April 2016

Date	Ambler Oaks (CF)
1	1,042
2	1,318
3	1,348
4	1,563
5	1,808
6	1,164
7	1,808
8	1,858
9	1,966
10	1,966
11	1,947
12	1,918
13	1,541
14	1,115
15	966
16	1,221
17	1,282
18	1,249
19	1,895
20	1,514
21	1,503
22	1,246
23	1,274
24	1,099
25	1,522
26	2,119
27	1,617
28	1,455
29	2,104
30	1,789
CF	46,214
1000 G	346
AF	1.06

California American Water  
 Monterey District  
 Ambler Oaks Well Production  
 May 2016

Date	Ambler Oaks (CF)
1	1,493
2	2,114
3	966
4	1,552
5	1,468
6	1,721
7	757
8	1,386
9	1,971
10	2,780
11	1,784
12	1,389
13	2,208
14	1,670
15	98
16	3,884
17	1,603
18	2,590
19	1,459
20	3,101
21	1,731
22	1,031
23	2,760
24	1,868
25	3,127
26	1,411
27	1,262
28	3,315
29	1,882
30	2,306
31	2,203
CF	58,889
1000 G	441
AF	1.35

California American Water  
 Monterey District  
 Ambler Oaks Well Production  
 June 2016

Date	Ambler Oaks (CF)
1	2,605
2	0
3	5,080
4	2,789
5	1,920
6	2,514
7	2,153
8	2,792
9	2,222
10	3,105
11	2,917
12	1,674
13	3,068
14	2,385
15	2,976
16	2,255
17	2,746
18	3,215
19	1,930
20	3,156
21	3,208
22	3,372
23	2,424
24	3,922
25	3,376
26	2,036
27	3,271
28	2,524
29	3,381
30	2,462
CF	81,475
1000 G	609
AF	1.87

Attachment 3: Meter Numbers

California American Water  
 Ambler Oaks Subdivision  
 Meter Information

Date Meter Set	Old Meter Number	Date New Meter Installed	New Meter Number	New MIU# (RF)	Meter Size	Lot Number	Address	Notes
1/9/2008	51267803	7/27/2016	63552108	1543201706	1"	9	15105 Big Sky Lane	
1/9/2008	51267818	42578	63552106	1543305160	1"	8	15115 Big Sky Lane	
1/9/2008	51267777	42578	53614959	1542036328	1"	5	15125 Big Sky Lane	
7/24/2008	84535662	42578	63585233	1543249264	5/8"	Irrigation Meter for Oaks Subdivision	NE corner of San Benancio and Big Sky Lane	MIU # 1471951576

Attachment 4: Meter Test Results

Customer: CA AMERICAN - MONTEREY  
 Order: S266879  
 Meter Type: 5/8 x 3/4 T-10  
 Special Instruction: S1964

Description	Purchase Order #	Item Number	Quantity Shipped	Cost	Shipping/Receiving Date	SAP Material Number	Prefix	Blank1	Blank2	Calibration Validity in Years	Manufacturer	Construction Year	Model Number	Register Group	Inspection	Manufacturing Part Number	Meter Serial Number	Test Date	High Flow Test	Intermediate Flow Test	Low Flow Test	Certification Year	Certification Name	Certification	Initial Meter Reading Register 1	Initial Meter Reading Register 2
1	3000162084	1	480	84.77	5/12/2016	1102941	CA				Neptune	2016	T-10		1	ED2B21RHG2S1964	63585099	5/11/2016	99.2	100.5	98.5	2016	Neptune	1	0	0
135																	63585233	5/11/2016	99.1	100.5	98.5	2016	Neptune	1	0	0

Customer: CA AMERICAN - MONTEREY  
 Order: S264652  
 Meter Type: 1 T-10  
 Special Instruction: S1964

Description	Purchase Order #	Item Number	Quantity Shipped	Cost	Shipping/Receiving Date	SAP Material Number	Prefix	Blank1	Blank2	Calibration Validity in Years	Manufacturer	Construction Year	Model Number	Register Group	Inspection	Manufacturing Part Number	Meter Serial Number	Test Date	High Flow Test	Intermediate Flow Test	Low Flow Test	Certification Year	Certification Name	Certification	Initial Meter Reading Register 1	Initial Meter Reading Register 2
1	3000155323	1	100	143.28	4/11/2016	1102945	CA				Neptune	2016	T-10		1	ED2F21RHG2S1964	63552014	4/11/2016	99.7	100.9	100.1	2016	Neptune	1	0	0
93																	63552106	4/11/2016	99.4	100.8	100	2016	Neptune	1	0	0
95																	63552108	4/11/2016	99.4	100.9	99.9	2016	Neptune	1	0	0

Neptune Test Results

Serial Number	Customer Number	MU Number	High Flow Value	Int Flow Value	Low Flow Value
53614999		1542036328	0989	1007	0996



**California American Water  
Ambler Oaks Subdivision Consumption  
Usage in 1000 Gallons**

	Address	15105 Big Sky Lane	15115 Big Sky Lane	15125 Big Sky Lane	NE corner of San Benancio and Big Sky Lane	Total (1000 Gal)	Total (CF)
	Lot Number	9	8	5	Irrigation		
2008	January						
	February						
	March						
	April	18.700	2.992	4.488		26.180	3,500
	May	0.000	2.244	2.992		5.236	700
	June	1.496	2.244	1.496		5.236	700
	July	11.968	10.472	13.464		35.904	4,800
	August	11.220	9.724	11.968	2.244	35.156	4,700
	September	8.228	9.724	15.708	1.496	35.156	4,700
	October	5.236	5.236	7.480	2.244	20.196	2,700
	November	2.992	3.740	5.984	1.496	14.212	1,900
	December	2.992	2.244	5.236	1.496	11.968	1,600
2009	January	0.000	0.000	0.000	0.000	0.000	0
	February	0.000	0.000	0.000	0.000	0.000	0
	March	0.748	0.000	0.000	0.748	1.496	200
	April	2.992	5.236	6.732	2.244	17.204	2,300
	May	4.488	4.488	3.740	2.244	14.960	2,000
	June	12.716	3.740	16.456	1.496	34.408	4,600
	July	29.172	4.488	5.236	2.244	41.140	5,500
	August	11.220	9.724	11.968	2.992	35.904	4,800
	September	52.360	3.740	0.000	2.244	58.344	7,799
	October	5.236	6.732	3.740	3.740	19.448	2,600
	November	14.960	2.244	2.244	1.496	20.944	2,800
	December	11.220	3.740	2.992	2.244	20.196	2,700
2010	January	11.968	8.228	1.496	1.496	23.188	3,100
	February	10.472	2.244	2.244	0.748	15.708	2,100
	March	12.716	2.244	5.236	0.000	20.196	2,700
	April	15.300	2.768	4.937	5.984	28.988	3,875
	May	31.192	4.862	4.712	0.000	40.766	5,450
	June	32.239	5.012	5.086	4.264	46.600	6,230
	July	21.842	2.394	5.012	19.747	48.994	6,550
	August	22.515	2.394	8.153	0.150	33.211	4,440
	September	21.767	3.142	12.641	2.094	39.644	5,300
	October	16.531	7.555	10.322	2.917	37.325	4,990
	November	18.700	9.275	4.638	2.693	35.306	4,720
	December	14.511	10.472	3.665	3.142	31.790	4,250
2011	January	11.893	7.256	3.142	2.992	25.282	3,380
	February	8.602	7.405	4.488	2.693	23.188	3,100
	March	11.444	7.106	4.338	3.142	26.030	3,480
	April	15.558	12.267	5.386	2.917	36.128	4,830
	May	21.617	8.677	6.732	2.768	39.794	5,320
	June	30.892	10.921	6.956	3.366	52.136	6,970
	July	32.613	9.350	7.181	3.142	52.285	6,990
	August	27.526	11.220	9.275	4.413	52.435	7,010
	September	26.928	9.724	15.035	4.039	55.726	7,449
	October	15.484	8.602	11.220	2.693	37.998	5,080
	November	11.744	10.996	9.126	3.067	34.932	4,670
	December	10.023	9.126	4.189	2.917	26.255	3,510
2012	January	11.893	8.378	4.338	4.862	29.471	3,940
	February	23.861	10.322	4.189	2.693	41.065	5,490
	March	18.401	8.378	4.563	1.795	33.136	4,430
	April	6.732	8.677	6.657	1.197	23.263	3,110
	May	35.306	11.818	11.594	1.122	59.840	7,999
	June	32.613	10.846	12.043	0.898	56.399	7,539
	July	29.471	13.614	8.976	1.646	53.706	7,180
	August	29.172	11.220	9.500	1.421	51.313	6,860
	September	30.743	11.370	14.137	1.421	57.671	7,709
	October	28.274	11.893	10.921	1.571	52.659	7,040
	November	14.062	8.228	9.874	1.496	33.660	4,500
	December	13.988	6.358	5.834	1.421	27.601	3,690
2013	January	8.976	7.106	6.059	1.571	23.712	3,170
	February	14.287	9.051	13.838	1.272	38.447	5,140
	March	15.558	7.854	18.027	1.346	42.786	5,720
	April	29.621	11.519	19.747	1.571	62.458	8,349
	May	43.534	11.220	19.972	1.421	76.146	10,179
	June	31.341	10.098	18.251	2.169	61.860	8,269
	July	32.762	12.791	19.822	2.618	67.993	9,089
	August	28.499	8.826	16.680	2.768	56.773	7,589
	September	28.798	9.574	16.157	3.216	57.746	7,719
	October	29.546	9.649	18.850	3.665	61.710	8,249
	November	15.633	6.433	14.586	2.992	39.644	5,300
	December	15.558	7.031	17.428	3.740	43.758	5,850
2014	January	17.279	7.555	12.267	3.366	40.467	5,410
	February	8.677	6.956	8.677	3.516	27.826	3,720
	March	11.893	8.004	9.350	4.114	33.361	4,460
	April	20.420	7.555	9.051	4.189	41.215	5,510
	May	24.534	7.704	8.901	4.189	45.329	6,060
	June	24.310	6.134	10.098	4.114	44.656	5,970
	July	27.751	8.303	11.968	4.413	52.435	7,010
	August	26.030	8.078	9.874	3.815	47.797	6,390
	September	31.192	8.153	12.791	4.563	56.698	7,579
	October	28.798	7.031	12.342	3.740	51.911	6,940
	November	7.031	5.311	11.519	3.890	27.751	3,710
	December	6.882	4.413	13.539	4.413	29.247	3,910
2015	January	6.283	6.956	11.594	4.488	29.322	3,920
	February	4.563	6.433	11.818	3.815	26.629	3,560
	March	12.342	7.405	9.275	4.413	33.436	4,470
	April	18.476	6.732	8.452	4.114	37.774	5,050
	May	21.991	5.685	9.275	3.815	40.766	5,450
	June	23.038	8.826	9.425	4.189	45.478	6,080
	July	24.160	8.004	19.897	3.964	56.025	7,489
	August	30.668	7.330	8.527	3.740	50.266	6,720
	September	37.924	8.078	11.295	3.740	61.037	8,159
	October	27.601	6.882	10.322	2.618	47.423	6,340
	November	12.791	4.712	8.527	4.114	30.144	4,030
	December	7.704	4.787	12.492	5.535	30.518	4,080
2016	January	6.283	3.740	8.452	4.862	23.338	3,120
	February	11.893	4.862	10.322	5.311	32.388	4,330
	March	7.704	6.807	8.078	5.012	27.601	3,690
	TOTAL	1,718.870	680.680	867.306	273.992	3,540.848	473,343
	April	26.704	8.378	10.622	4.787	50.490	6,750
	May	25.656	9.649	11.818	4.712	51.836	6,930
	June	28.424	13.539	9.051	4.787	55.801	7,459
	July						
	August						
	September						
	October						
	November						
	December						

**Notes:**

Ambler Oaks Well went on-line 04/01/16  
 Per the SWRCB Domestic Water Supply Permit Amendment No. 84-013-03, there are nine residential lots and one irrigation meter on record.  
 The four active lots are listed in the table above. The remaining lots on record do not currently have meters set.