Appendix C

Well Data Sheets, 2008-2016 Water Production

This page intentionally left blank.

WELL NO. 1R DATA SHEET

LOCATION:
Street Address: 24100 SE 28th ST
Description: T24N/R6E/Section 10, NW4/SE4/NE4
Elevation: 473.12 ft.
*Well 1R was drilled in 1984 as a replacement for Well 1, which was drilled in 1954 for King County Water District 121.

WELL CONSTRUCTION:
Date Drilled: 1984
Drilling Contractor: Armstrong
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 12-in., 137 ft.
Screen Diameter, Interval: 12-in. tel., 137-147 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	SWL (ft)	Specific Capacity (gpm/ft-dd)
3/14/84	600	120.0	50

INSTALLED EQUIPMENT:
Pump
Installation Date: 1984
Type: Vertical Turbine – 9 stages
Manufacture: Peerless
Impeller Number: 2625033
Flow: 650 gpm
Total Dynamic Head: 420 ft.

Motor
Manufacturer: US motors (Emerson)
Model Number: BF61A
Horsepower: 750 (NEMA Code F)
ID#: N02-BF61A-M
Catalog # H075V25LG
Serial #: NO2-BF61A-M

WATER RIGHTS
Certificate Number: G1-00342
Instantaneous: 300 gpm
Continuous: 448 ac-ft/yr,146 MGY

Certificate Number: G1-25438A
Instantaneous: 200 gpm
Continuous: 448 ac-ft/yr,146 MGY (Supplemental)

WELL NO. 2.1 DATA SHEET

LOCATION:
Street Address: 3125 E Beaver Lake Dr SE
Description: T24N/R6E, Section 11, SE4/NW4/NE4
Elevation: 417.0 ft.

WELL CONSTRUCTION:
Date Drilled: 1968
Drilling Contractor: Harold Meyer
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 12-in., 96 ft.
Screen Diameter, Interval: 12-in., TS, 96-116 ft. (Perforated)

WELL PUMPING TEST(S)

Date	Yield (gpm)	SWL (ft)	Specific Capacity (gpm/ft-dd)
1968	500	62	13.9
1983	330	59	15.3

INSTALLED EQUIPMENT:
Pump
Installation Date: 1968
Type: Vertical Turbine
Manufacture: Peerless
Impeller Number: T84363 (9 Stages)
Flow: 500 gpm (original)
Total Dynamic Head: 320 ft.

Motor
Manufacturer: GE General Electric
Model Number: BF50A 5K6248XH1A
I.D. #: P057358554-0045
Catalog # H050V2BLG-C
Horsepower: 50 (NEMA Code B)

WATER RIGHTS
Well Nos. 2.1 + 2.2 are a wellfield and share water rights
Certificate Number: 6802-A / G1*09533C
Instantaneous: 500 gpm
Continuous: 800 ac-ft/yr, 259 MG/Yr

Certificate Number: G1-00749P
Instantaneous: 20 gpm
Continuous: 10.5 ac-ft/yr, 6.5 MG/Yr

WELL NO. 2.2 DATA SHEET

LOCATION:
Street Address: 3125 E Beaver Lake Dr SE
Description: T24N/R6E, Section 11, SE4/NW4/NE4
Elevation: 419 ft.

WELL CONSTRUCTION:
Date Drilled: May 9, 1993
Drilling Contractor: Holt Drilling, Inc.
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 16-in., 180 ft.
Screen Diameter, Interval: 16-in. TS, 150-175 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
5/10/96	188 (3.5 hrs)	63.72	13.2
5/21/09	500 (24 hrs)	64.13	11.21

INSTALLED EQUIPMENT:
Pump
Installation Date: 3/9/2009
Type: Vertical Turbine
Manufacture: Peerless
Impeller Number: Model # 8x8x16.5 Serial # 558148
Flow: 500 gpm
Total Dynamic Head:

Motor
Manufacturer: US Electric Motors
ID #: E04 0004422-100R
Horsepower: 60

WATER RIGHTS
Well Nos. 2.1 + 2.2 are a wellfield and share water rights
Certificate Number: G1-09533C
Instantaneous: 500 gpm
Continuous: 800 ac-ft/yr, 259 MG/Yr

Certificate Number: G1-00749P
Instantaneous: 20 gpm
Continuous: 10.5 ac-ft/yr, 6.5 MG/Yr

WELL NO. 4R DATA SHEET

LOCATION:

Street Address: 23050 Main St.
Description: T25N/R6E, Section 34, SW4/NW4/NE4
Elevation: 350ft.

WELL CONSTRUCTION:

Date Drilled: 2004
Drilling Contractor: Schneider Drilling Co., Inc
Drilling Method: Rotary – Direct & Reverse Circulation
Completion Casing Diameter, Depth: 20-in., 695 ft.
Screen Diameter, Interval: 12-in. PS, 710 - 845 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	SWL (ft)	Specific Capacity (gpm/ft-dd)
1970	800	175	
1983	575	188	8.1
2004	2000	223.6	25.3

INSTALLED EQUIPMENT:

Pump Installation Date: 2009
Type: Inline shaft, vertical turbine, 10 stage
Model: 14LD
Manufacture: Peerless
RPM: 1750
Serial #: 716515
HP: 450
Impeller Number: 10 stage
Flow: 1800 gpm to 550 zone (1500 gpm to the 700 zone)
Total Dynamic Head: 810

Motor

Manufacturer: US Emerson Motor Company
Model Number: LO720074173-100R-01
Horsepower: 450

WATER RIGHTS

Certificate Number: G1*10373C / 7147
Instantaneous: 200 gpm
Continuous: 224 ac-ft/yr, 73 MG/Yr

Certificate Number: G1-23022C
Instantaneous: 550 gpm
Continuous: 880 ac-ft/yr, 287 MG/Yr (Supplemental)

Certificate Number: CG1-*07653C / 6395-A
Instantaneous: 100 gpm (Supplemental)
Continuous: 160 ac-ft/yr, 52.1 MG/Yr (Supplemental)

Certificate Number: G1-23897C
Instantaneous: 600 gpm (Supplemental)
Continuous: 768 ac-ft/yr, 250.2 MG/Yr (Supplemental)

WELL NO. 7 DATA SHEET

LOCATION:
Description: T24N/R6E, Section 28, NE4/NE4
Elevation: 70 ft.

WELL CONSTRUCTION:
Date Drilled: 3/18/84
Drilling Contractor: Hokkaido Drilling (Story)
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 16-in., 82.6 ft.
Screen Diameter, Interval: 14-in. PS, 82.6-103 ft., 103-123.6., 136.7-146.9 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	SWL (ft)	Specific Capacity (gpm/ft-dd)
3/17/84	1952	6.17	51.5

INSTALLED EQUIPMENT:
Pump
Installation Date: 1984
Type: Turbine 6 stages
Manufacture: Peerless
Impeller Number: V4399C
Flow: 2100 gpm
Total Dynamic Head: 340 ft.

Motor
Manufacturer: General Electric
Model Number: 5K6286XH74A
Serial #: HNJ817110
Horsepower: 250

WATER RIGHTS *
Certificate Number: G1-00289C
Instantaneous: 3200 gpm
Continuous: 936 ac-ft/yr, 305 MG/Yr

Certificate Number: G1-25428A
Instantaneous: 2300 gpm
Continuous: 1173 ac-ft/yr, 382 MG/Yr (seasonal Nov 1- Apr 30)
Continuous: 565 ac-ft/yr, 184 MG/Yr for Recharge (seasonal Nov 1- Apr 30)

*Water rights for Wells 7&8 are combined.

WELL NO. 8 DATA SHEET

LOCATION:
Description: T24N/R6E, Section 28, NW4/SW4
Elevation: 73 ft.

WELL CONSTRUCTION:
Date Drilled: 8/29/84
Drilling Contractor: Hokkaido Drilling (Story)
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 16-in., 105 ft.
Screen Diameter, Interval: 14-in. PS, 105-120 ft., 125-135 ft., 145-165 ft., 170-179 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	SWL (ft)	Specific Capacity (gpm/ft-dd)
9/12/84	1977	12.6	89.9
6/06/87	2400	13.17	89.6

INSTALLED EQUIPMENT:
Pump
Installation Date: 1989
Type: Vertical Turbine 7 stages
Manufacture: Peerless
Impeller Number: 2621959
Flow: 3500 gpm
Total Dynamic Head: 350 ft.

Motor
Manufacturer: U.S. MOTOR Titan
Model Number: VHS-WPI Type HU
ID#: S10S1370258R-1
Horsepower: 500

WATER RIGHTS*
Certificate Number: G1-00289C
Instantaneous: 3200 gpm
Continuous: 936 ac-ft/yr, 305 MG/yr

Certificate Number: G1-25428A
Instantaneous: 2300 gpm
Continuous: 1173 ac-ft/yr, 382 MG/Yr (seasonal Nov 1- Apr 30)
Continuous: 565 ac-ft/yr, 184 MG/Yr for Recharge (seasonal Nov 1- Apr 30)

*Water rights for Wells 7&8 are combined.

WELL NO. 9 DATA SHEET

LOCATION:
Description: T25N/R6E, Section 27, SW4/NW4
Elevation: 75.5 feet

WELL CONSTRUCTION:
Date Drilled: 7/15/91
Drilling Contractor: Hokkaido Well Drilling
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 24-in., 194 ft.
Screen Diameter, Interval: 24-in. TS, 194-219 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
7/12/92	2340 (9.5 days)	19.5	104
4/2/96	2310 (21 days)	15.95	102

INSTALLED EQUIPMENT:
Pump
Installation Date:
S.O 2427526 Service 6-14 HXR
Type: Vertical Turbine
Manufacture: Peerless (8/27/84)
Model: 10x10x20
Serial #: F24240
RPM: 1770
GPM: 2000
TDH Ft 340
BHP 206.9
Impeller Number:
Flow: 2300 gpm
Total Dynamic Head: 300

Motor
Manufacturer: GE General Electric
Model Number: 5K-S449DP60061
Horsepower: 300
RPM: 1790

WELL NO. 9 DATA SHEET (cont.)

WATER RIGHTS

Certificate Number:	G1-26014P
Instantaneous:	2000 gpm (seasonal Nov 1- Apr 30) (Supplemental)
Continuous:	1608 ac-ft/yr,523 MG/yr (Supplemental)
Certificate Number:	G1-00289C – (Temporary Supplemental to 10/31/2020)
Instantaneous:	3200 gpm
Continuous:	936 ac-ft/yr, 305 MG/yr
Certificate Number:	G1-25428A – (Temporary Supplemental to 10/31/2020)
Instantaneous:	2300 gpm
Continuous:	1173 ac-ft/yr, 382 MG/Yr (seasonal Nov 1- Apr 30)
Continuous:	565 ac-ft/yr, 184 MG/Yr for Recharge (seasonal Nov 1- Apr 30)

WELL NO. 10 DATA SHEET

LOCATION:
Description: T24N/R6E, Section 11, NE4/SW4
Elevation: 423.8 feet

WELL CONSTRUCTION:
Date Drilled: 8/26/93
Drilling Contractor: Armstrong Drilling, Inc.
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 12-in., 135 ft.
Screen Diameter, Interval: 10-in. PS, 135-155 ft., 173-183 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
8/24/93	508 (24 hrs)	69.73	13.2

INSTALLED EQUIPMENT:

Pump
Installation Date: 5/95
Type: Vertical Turbine
Manufacture: Peerless (5/10 of 95')
Serial #: 115011 Service 95TG IOMA
Model # 8x8x16.5
Impeller Number:
Flow: 700 gpm
Total Dynamic Head: 370 ft

Motor
Manufacturer: U.S. Electric Premium Efficiency High Thrust Motor
Model Number: J-143A50Y05Y011R133M
Horsepower: 75 PH: 3 RPM: 1770 HZ: 60
Volts: 460
Amps: 86.5

WATER RIGHTS
Certificate Number: G1-27166
Instantaneous: 500 gpm
Continuous: 378.5 ac-ft/yr, 123 MG/Yr
186.5 ac-ft/yr, 61 MG/Yr (Supplemental)

Certificate Number: G1-06228C / 5140
Instantaneous: 100 gpm
Continuous: 22.5 ac-ft/yr, 7.3 MG/Yr

WELL NO. 11.1 DATA SHEET

LOCATION:

Description: T25N/R6E, Section 34, NE4/NW4
Elevation: 358.11 feet

WELL CONSTRUCTION:

Date Drilled: 8/9/93
Drilling Contractor: Holt Drilling, Inc.
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 10-in., 409 ft.
Screen Diameter, Interval: 6-in. PS, 409-419 ft., 426-431 ft., 461-486 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
8/8/95	389	223.48	4.5

INSTALLED EQUIPMENT:

Pump

Installation Date: 5/20/99
Type: Vertical Turbine – 19 stages
Manufacture: Peerless
Impeller Number: T 84323
Model # 8x8x16.5
Flow: 500 gpm
Total Dynamic Head: 670 ft.

Motor

Manufacturer: U.S. Electric Premium Efficiency High Thrust Motor
Model Number: R-B410-00-778 R322 1655
Horsepower: 100

* Pump and motor originally installed at Well 5

WELL NO. 11.1 DATA SHEET (cont.)

WATER RIGHTS

Certificate Number:	G1-26573 denied
Instantaneous:	0 gpm
Continuous:	0 ac-ft/yr, 0 MG/Yr
Certificate Number:	G1-*07653C / 6395-A
Instantaneous:	100 gpm
Continuous:	160 ac-ft/yr, 52.1 MG/Yr
Certificate Number:	G1-23897C
Instantaneous:	300 gpm
Continuous:	468 ac-ft/yr, 152.5 MG/Yr
Instantaneous:	300 gpm (Supplemental)
Continuous:	300 ac-ft/yr, 97.75 MG/Yr (Supplemental)

WELL NO. 11.2 DATA SHEET

LOCATION:

Description: T25N/R6E, Section 34, NE4/NW4
Elevation: 358.01 feet

WELL CONSTRUCTION:

Date Drilled: 8/6/93
Drilling Contractor: Holt Drilling, Inc., Schneider Drilling Co., Inc.
Drilling Method: Cable Tool, Fluid Rotary
Completion Casing Diameter, Depth: 16-in., 785 ft.
Screen Diameter, Interval: 8-in., 785-821 ft., 839-880 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
8/29/95	973	232.85	19

INSTALLED EQUIPMENT:

Pump

Installation Date: 6/30/09
Type: Submersible 11 stage
Manufacture: Flowserve
Impeller Number: 12 MQH
Flow: 1200 gpm
Total Dynamic Head: 750 ft.

Motor

Manufacturer: 4-Pole Mercury Seal Byron Jackson
Model Number: 81904132
Serial #: 14T-1036-4-1
Horsepower: 300

WELL NO. 11.2 DATA SHEET (cont.)

WATER RIGHTS	
Certificate Number:	G1-26572
Instantaneous:	500 gpm;
Continuous:	565 acre-ft, 184MG/Yr
Certificate Number:	G1-26572@0, @1, @2, @3, @4, @5, @6
Instantaneous:	66 gpm;
Continuous:	2.55 acre-ft, 0.83 MG/Yr
Certificate Number:	G1-26572@7
Instantaneous:	3.5 gpm;
Continuous:	0.3 acre-ft, 0.10 MG/Yr
Certificate Number:	G1-26572@8
Instantaneous:	10.5 gpm;
Continuous:	0.6 acre-ft, 0.20 MG/Yr
Certificate Number:	G1-22861C
Instantaneous:	1000 gpm;
Continuous:	1600 acre-ft, 521.3 MG/Yr
Certificate Number:	G1-23897C
Instantaneous:	300 gpm;
Continuous:	300 acre-ft, 97.75 MG/Yr
Instantaneous:	300 gpm; (Supplemental)
Continuous:	468 acre-ft, 152.5 MG/Yr (Supplemental)

WELL NO. 12R DATA SHEET

LOCATION:

Street Address: 26410 NE 50th Street
Description: T25N/R6E, Section 13, SE4/NW4
Elevation: 645 feet

WELL CONSTRUCTION:

Date Drilled: December 9, 1999
Drilling Contractor: Charon Drilling Co.
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 12-in., 135 ft.
Screen Diameter, Interval: 12-in. TS, 135-145 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
12/9/99	201	132.57	86.64

INSTALLED EQUIPMENT:

Pump

Installation Date: 7/9/09
Type: Submersible
Manufacture: Crown Model 6M250
Serial #: 9929
Impeller Number: 5 Stage
Flow: 200 gpm
Total Dynamic Head: 250 ft.

Motor

Manufacturer: Franklin Motor
Serial #: 99519220035
Horsepower: 20
Date Code: 3/2000

WATER RIGHTS

Certificate Number: G1-00027C
Instantaneous: 100 gpm
Continuous: 108 ac-ft/yr, 35.19 MG/Yr

Certificate Number: G1-24363C
Instantaneous: 100 gpm
Continuous: 12 ac-ft/yr, 3.91 MG/Yr

WELL NO. 13R DATA SHEET

LOCATION:

Street Address: 26002 NE 70th Street
Description: T25N/R6E, Section 12, SW4/SW4/NW4
Elevation: 665 feet

WELL CONSTRUCTION:

Date Drilled: January 31, 2006
Drilling Contractor: Schneider Drilling Co., Inc.
Drilling Method: Rotary – Direct & Reverse Circulation
Completion Casing Diameter, Depth: 12-in., 810 ft.
Screen Diameter, Interval: 6-in. PS, 826-941 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
7/31/90	180	523.0	3.4
1/23/06	750	531	8.7

INSTALLED EQUIPMENT:

Pump

Installation Date: 2/28/09
Type: Submersible
Manufacture: Crown
Impeller Number: 15 Stage 6” bowls
Model # 56-230 Serial
Flow: 170 gpm
Total Dynamic Head: 800 ft.

Motor

Manufacturer: Franklin
Model Number: 2366196025
Serial #: 04619-28-0039
Horsepower: 60 Ph: 3

WATER RIGHTS

Certificate Number: G1-25963C
Instantaneous: 200 gpm
Continuous: 224 ac-ft/yr, 73 MG/Yr

Certificate Number: G1-25831C
Instantaneous: 62.5 gpm
Continuous: 86.7 ac-ft/yr, 28.25 MG/Yr

WELL NO. 15 DATA SHEET

Description: T24N/R6E, Section 14, NW4/SE4
Elevation: 455 feet mean sea level

WELL CONSTRUCTION:
Date Drilled: July 17, 1996
Drilling Contractor: Holt Drilling, Inc.
Drilling Method: Cable Tool
Completion Casing Diameter, Depth: 16-in., 225 ft.
Screen Diameter, Interval: 10-in. PS, 225-247 ft., 253-270 ft., 280-305 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
July 25, 1996	1040	72.53	32.9

INSTALLED EQUIPMENT:
Pump

Motor

WATER RIGHTS
Certificate Number: G127883 Pending
Instantaneous: 1,600 gpm
Continuous: 0 ac-ft/yr

Additional Point of Withdrawal for Zone II wells 1R, 2.1+2.2, and 10
Application submitted December, 1997 – Pending,

Certificate Number: CG1-00342C Pending Priority Date 8/7/2001
Instantaneous: 300 gpm (Supplemental)
Continuous: 448 ac-ft/yr (Supplemental)

Certificate Number: CG1-25438C: Priority Date 8/17/2001
Instantaneous: 200 gpm (Supplemental)
Continuous: 0 ac-ft/yr (Supplemental)

Certificate Number: G1-27166C: Priority Date 8/7/2001
Instantaneous: 500 gpm (Supplemental)
Continuous: 379 ac-ft/yr (Supplemental)

Certificate Number: G1-09533C: Priority Date 8/7/2001
Instantaneous: 500 gpm (Supplemental)
Continuous: 800 ac-ft/yr (Supplemental)

WELL NO. 36 DATA SHEET

Description: T25N/R6E, Section 36, SW4/NW4
Elevation: 520 feet mean sea level

WELL CONSTRUCTION:
Date Drilled: 11/1/2003 – 2/10/2003
Drilling Contractor: Schneider Drilling Co.
Drilling Method: Rotary – Direct & Reverse Circulation
Completion Casing Diameter, Depth: 8-in., 1,030 ft.
Screen Diameter, Interval: 5-in. PS, 833-843 ft., 930-940 ft., 990-1,020 ft.

WELL PUMPING TEST(S)

Date	Yield (gpm)	Initial WL (ft)	Specific Capacity (gpm/ft-dd)
2/16/2004	400	310	4.9

INSTALLED EQUIPMENT:
Pump

Motor

WATER RIGHTS
Certificate Number: G127884 Pending
Instantaneous: 1,000 gpm
Continuous: 1,200 ac-ft/yr

Application submitted December 10, 1997 – Pending

This page intentionally left blank.

Historical Monthly Water Production and Purchases by Source (2006-2016)

2006	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals														
Well 1R	0	0	0	0	7,757,000	15,780,000	17,537,000	16,477,000	13,410,000	14,209,000	2,527,000	0	87,697,000	88
Well 2.1	0	0	0	8,700	13,319,300	5,278,300	0	800	0	0	0	100	18,607,200	19
Well 2.2	0	0	0	0	0	11,944,000	22,390,000	22,013,000	14,361,000	2,471,000	16,436,000	0	89,615,000	90
Well 4R	0	0	0	0	0	0	2,211,000	14,508,000	5,515,000	0	0	2,994,000	25,228,000	25
Well 7	64,897,000	82,200,000	87,646,000	90,362,000	73,956,000	31,781,000	0	0	0	0	62,765,000	68,466,000	562,073,000	562
Well 8	0	0	0	0	0	24,197,000	122,146,000	120,052,000	29,880,000	9,148,000	4,730,000	0	310,153,000	310
Well 9	28,197,000	0	0	0	0	0	0	0	0	0	0	0	28,197,000	28
Well 10	0	0	0	0	13,890,000	18,481,000	20,769,000	20,820,000	13,743,000	1,484,000	694,000	0	89,881,000	90
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 11.2	36,617,000	27,811,000	31,477,000	39,141,000	40,734,000	53,137,000	72,164,000	65,577,000	38,244,000	31,310,000	27,667,000	20,435,000	484,314,000	484
Well 12	125,300	17,800	37,700	9,600	304,800	998,600	6,207,700	6,588,400	5,484,500	4,747,200	0	0	24,521,600	25
Well 13	0	0	19,200	2,685,000	5,587,500	5,960,300	8,860,200	7,087,100	2,329,600	60,300	7,690,900	3,488,600	43,768,700	44
Well 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 15	0	0	0	0	0	2,171,000	16,408,000	43,147,000	61,282,000	67,092,000	1,220,000	0	191,320,000	191
Subtotal Wells	129,836,300	110,028,800	119,179,900	132,206,300	155,548,600	169,728,200	288,692,900	316,270,300	184,249,100	130,521,500	123,729,900	95,383,700	1,955,375,500	1955
Purchased Water														
North	8,775,536	7,321,274	7,926,332	2,812,630	34,034	0	0	0	0	16,680	1,765,878	2,431,823	31,084,187	31
South	0	0	0	0	0	0	0	0	0	0	2,128,000	18,073,000	20,201,000	20
Subtotal Purchases	8,775,536	7,321,274	7,926,332	2,812,630	34,034	0	0	0	0	16,680	3,893,878	20,504,823	51,285,187	51
Total Water Production/Purchases	138,611,836	117,350,074	127,106,232	135,018,930	155,582,634	169,728,200	288,692,900	316,270,300	184,249,100	130,538,180	127,623,778	115,888,523	2,006,660,687	2007
NESSWD Interties	55,000	(17,000)	(5,000)	(1,100,000)	1,165,000	(149,000)	125,000	10,000	(43,000)	(39,000)	35,000	1,000	38,000	0
Recharge	27,834,156	23,504,018	24,969,698	21,005,610	0	0	0	0	0	0	19,021,500	25,980,300	142,315,282	142
Total Water to System	110,832,680	93,829,056	102,131,533	112,913,320	156,747,634	169,579,200	288,817,900	316,280,300	184,206,100	130,499,180	108,637,278	89,909,223	1,864,383,405	1864

2007	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals	0	0	0	9,379,000	19,462,000	19,386,000	18,349,000	18,105,000	18,758,000	10,695,000	0	0	114,134,000	114
Well 1R														
Well 2.1	9,226,400	11,295,900	13,851,400	12,919,900	5,705,100	0	0	0	0	0	0	6,400	53,005,100	53
Well 2.2	0	0	0	0	13,027,000	22,416,000	21,433,000	21,325,000	21,775,000	6,880,000	0	0	106,856,000	107
Well 4R	0	0	0	0	20,661,000	19,250,000	1,450,000	0	0	0	0	0	41,361,000	41
Well 7	68,541,000	60,882,000	75,286,000	57,759,000	58,711,000	0	0	0	0	14,548,000	70,399,000	83,339,000	489,465,000	489
Well 8	0	0	0	1,000	4,278,000	97,059,000	112,687,000	107,190,000	73,385,000	37,317,000	0	0	431,917,000	432
Well 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 10	0	0	0	12,000	22,440,000	24,047,000	22,833,000	22,583,000	23,111,000	21,412,000	0	0	136,438,000	136
Well 11.1	0	0	0	0	6,561,000	9,635,000	7,104,000	6,846,000	2,648,000	635,000	1,495,000	0	34,924,000	35
Well 11.2	29,376,000	24,069,000	20,773,000	16,124,000	0	4,034,000	54,481,000	48,882,000	29,095,000	18,320,000	28,146,000	37,973,000	311,273,000	311
Well 12	0	1,800	2,500	9,400	5,513,400	7,176,700	6,342,100	8,045,100	6,808,400	3,671,800	0	0	37,571,200	38
Well 13	8,859,800	7,400,400	1,164,700	161,400	231,300	430,300	6,239,800	2,195,600	1,019,300	122,700	28,200	153,000	28,006,500	28
Well 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 15	1,619,000	0	0	0	0	0	16,545,000	6,565,000	1,035,000	0	0	0	25,764,000	26
Subtotal Wells	117,622,200	103,649,100	111,077,600	96,365,700	156,589,800	203,434,000	267,463,900	241,736,700	177,634,700	113,601,500	100,068,200	121,471,400	1,810,714,800	1811
Purchased Water	1,923,108	1,950,634	7,333,616	7,153,648	0	0	0	0	0	22,365	7,595,192	8,148,787	34,127,350	34
North														
South	1,075,000	32,555,000	13,617,000	18,605,000	0	0	0	0	0	0	0	0	65,852,000	66
Subtotal Purchases	2,998,108	34,505,634	20,950,616	25,758,648	0	0	0	0	0	22,365	7,595,192	8,148,787	99,979,350	100
Total Water Production/Purchases	120,620,308	138,154,734	132,028,216	122,124,348	156,589,800	203,434,000	267,463,900	241,736,700	177,634,700	113,623,865	107,663,392	129,620,187	1,910,694,150	1911
NESSWD Interties	54,000	(75,000)	1,000	507,000	(285,000)	(219,000)	100,000	(61,000)	(30,000)	77,000	(79,000)	(68,000)	(78,000)	0
Recharge	21,515,100	20,201,080	26,848,320	11,078,336	0	0	0	0	0	0	5,589,864	19,509,400	104,742,100	105
Total Water to System	99,159,208	117,878,654	105,180,896	111,553,012	156,304,800	203,215,000	267,563,900	241,675,700	177,604,700	113,700,865	101,994,528	110,042,787	1,805,874,050	1806

2008	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals														
Well 1R	0	1,000	0	0	0	17,609,000	19,953,000	21,724,000	12,985,000	0	0	0	72,272,000	72
Well 2.1	9,777,800	12,044,200	12,558,100	10,903,500	14,388,100	12,055,200	12,544,800	12,437,200	4,300	0	0	0	96,713,200	97
Well 2.2	0	0	0	0	0	0	1,000	0	20,725,000	4,698,000	0	0	25,424,000	25
Well 4R	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 7	71,990,000	70,134,000	80,438,000	75,824,000	52,766,000	53,360,000	0	0	0	7,997,000	758,000	0	413,267,000	413
Well 8	0	0	0	0	0	8,852,000	106,579,000	92,156,000	34,826,000	428,000	0	0	242,841,000	243
Well 9	0	0	0	0	0	0	0	0	0	0	72,150,000	85,554,000	157,704,000	158
Well 10	0	0	0	0	17,878,000	19,123,000	19,966,000	20,475,000	17,565,000	0	0	0	95,007,000	95
Well 11.1	5,962,000	0	0	0	0	0	3,267,000	0	0	0	0	0	9,229,000	9
Well 11.2	29,592,000	50,098,000	46,194,000	30,141,000	39,256,000	37,767,000	68,738,000	60,360,000	34,616,000	34,918,000	23,647,000	28,980,000	484,307,000	484
Well 12	0	0	0	0	2,377,600	3,805,100	8,129,500	5,869,700	4,457,200	2,481,800	5,100	0	27,126,000	27
Well 13	3,516,600	5,455,400	6,123,100	3,659,700	2,675,500	2,238,600	4,760,900	3,796,000	2,922,600	1,615,900	466,000	2,543,900	39,774,200	40
Well 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 15	0	0	0	0	0	1,229,000	28,894,000	11,332,000	37,097,000	67,803,000	2,000	0	146,357,000	146
Subtotal Wells	120,838,400	137,732,600	145,313,200	120,528,200	129,341,200	156,038,900	272,833,200	228,149,900	165,198,100	119,941,700	97,028,100	117,077,900	1,810,021,400	1810
Purchased Water														
North	5,855,494	3,066,576	0	8,180,726	0	0	0	0	0	0	7,489,275	8,066,582	32,658,652	33
South	10,000,000	14,956,000	20,000,000	22,787,000	14,736,000	2,755,000	0	0	0	36,000	12,043,000	69,000	97,382,000	97
Subtotal Purchases	15,855,494	18,022,576	20,000,000	30,967,726	14,736,000	2,755,000	0	0	0	36,000	19,532,275	8,135,582	130,040,652	130
Total Water Production/Purchases	136,693,894	155,755,176	165,313,200	151,495,926	144,077,200	158,793,900	272,833,200	228,149,900	165,198,100	119,977,700	116,560,375	125,213,482	1,940,062,052	1940
NESSWD Interties	131,000	10,000	(1,082,000)	(667,900)	1,753,900	399,000	(377,000)	12,000	14,000	(51,000)	(16,000)	(358,000)	(232,000)	0
Recharge	38,703,600	39,756,900	34,570,900	30,712,100	0	0	0	0	0	0	22,852,000	26,189,300	192,784,800	193
Total Water to System	98,121,294	116,008,276	129,660,300	120,115,926	145,831,100	159,192,900	272,456,200	228,161,900	165,212,100	119,926,700	93,692,375	98,666,182	1,747,045,252	1747

2009	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals														
Well 1R	0	0	0	0	7,950,000	18,240,000	17,600,000	13,700,000	14,350,000	11,330,000	0	0	83,170,000	83
Well 2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 2.2	0	0	0	0	17,770,000	21,870,000	21,580,000	22,610,000	16,350,000	10,000	0	0	100,190,000	100
Well 4R	0	360,000	540,000	35,320,000	50,530,000	73,580,000	66,920,000	67,640,000	56,620,000	6,800,000	25,250,000	48,630,000	432,190,000	432
Well 7	0	0	0	0	41,550,000	32,920,000	0	0	0	45,530,000	75,570,000	79,750,000	275,320,000	275
Well 8	0	0	0	0	0	54,390,000	118,610,000	95,150,000	41,180,000	0	0	0	309,330,000	309
Well 9	81,980,000	76,870,000	71,150,000	75,790,000	17,560,000	0	0	0	0	0	0	0	323,350,000	323
Well 10	0	0	0	0	9,630,000	21,610,000	19,100,000	17,440,000	16,130,000	20,840,000	0	0	104,750,000	105
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 11.2	37,330,000	32,470,000	42,980,000	0	30,000	0	16,740,000	29,260,000	4,640,000	36,420,000	19,270,000	0	219,140,000	219
Well 12	0	0	0	0	1,510,000	7,610,000	8,210,000	7,160,000	4,060,000	4,860,000	0	0	33,410,000	33
Well 13	70,000	450,000	620,000	1,580,000	3,960,000	3,560,000	6,570,000	5,630,000	1,260,000	120,000	3,000,000	1,760,000	28,580,000	29
Well 15	0	0	0	0	0	5,530,000	35,840,000	7,510,000	30,000	0	0	0	48,910,000	49
Subtotal Wells	119,380,000	110,150,000	115,290,000	112,690,000	150,490,000	239,310,000	311,170,000	266,100,000	154,620,000	125,910,000	123,090,000	130,140,000	1,958,340,000	1,958
Purchased Water														
North	10,350,000	8,070,000	8,610,000	7,560,000	0	0	40,000	0	0	10,000	6,780,000	8,060,000	49,480,000	49
South	20,090,000	25,430,000	23,050,000	22,290,000	0	0	0	0	0	50,000	28,530,000	28,270,000	147,710,000	148
Subtotal Purchases	30,440,000	33,500,000	31,660,000	29,850,000	0	0	40,000	0	0	60,000	35,310,000	36,330,000	197,190,000	197
Total Water Production/Purchases	149,820,000	143,650,000	146,950,000	142,540,000	150,490,000	239,310,000	311,210,000	266,100,000	154,620,000	125,970,000	158,400,000	166,470,000	2,155,530,000	2156
NESSWD Interties	413,980	(71)	146	(1,352)	1,180	(55)	2	81	166	(163)	11	(73)	413,852	0.414
Recharge	42,350,000	50,500,000	56,550,000	50,500,000	0	0	0	0	0	0	65,700,000	61,370,000	326,970,000	327
Total Water to System	107,883,980	93,149,929	90,400,146	92,038,648	150,491,180	239,309,945	311,210,002	266,100,081	154,620,166	125,969,837	92,700,011	105,099,927	1,828,973,852	1829

2010	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals	0	0	0	0	0	0	15,950,000	22,840,000	20,980,000	12990000	0	0	72,760,000	73
Well 1R														
Well 2.1	0	0	0	120,000	0	0	0	0	0	0	0	0	120,000	0
Well 2.2	0	0	0	0	0	120,000	17,000,000	23,950,000	20,520,000	12,970,000	0	0	74,560,000	75
Well 4R	29,190,000	16,910,000	17,470,000	29,920,000	56,410,000	10,840,000	55,950,000	17,820,000	20,200,000	0	26,090,000	36,330,000	317,130,000	317
Well 7	74,980,000	64,430,000	52,030,000	47,230,000	32,640,000	64,010,000	6,680,000	0	11,710,000	42,880,000	52,160,000	51,590,000	500,340,000	500
Well 8	0	0	0	0	5,510,000	350,000	81,420,000	115,770,000	35,200,000	0	0	0	238,250,000	238
Well 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 10	0	0	0	0	0	0	17,360,000	20,080,000	19,150,000	12480000	0	0	69,070,000	69
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 11.2	28,990,000	27,620,000	16,310,000	4,560,000	22,640,000	37,600,000	35,380,000	47,940,000	2,950,000	30,270,000	8,240,000	0	262,500,000	263
Well 12	0	0	0	0	990,000	3,420,000	4,690,000	8,280,000	2,350,000	4,300,000	0	0	24,030,000	24
Well 13	1,120,000	440,000	580,000	210,000	1,960,000	1,100,000	3,090,000	8,080,000	2,400,000	60,000	0	0	19,040,000	19
Well 15	0	0	13,380,000	230,000	0	0	0	0	0	0	0	0	13,610,000	14
Subtotal Wells	134,280,000	109,400,000	99,770,000	82,270,000	120,150,000	117,440,000	237,520,000	264,760,000	135,460,000	115,950,000	86,490,000	87,920,000	1,591,410,000	1591
Purchased Water	8,690,000	7,140,000	8,640,000	9,490,000	1,370,000	40,000	0	0	60,000	0	12,210,000	11,600,000	59,240,000	59
North														
South	30,770,000	26,600,000	16,520,000	19,150,000	2,450,000	60,000	0	0	0	30,000	9,550,000	10,360,000	115,490,000	115
Subtotal Purchases	39,460,000	33,740,000	25,160,000	28,640,000	3,820,000	100,000	0	0	60,000	30,000	21,760,000	21,960,000	174,730,000	175
Total Water Production/Purchases	173,740,000	143,140,000	124,930,000	110,910,000	123,970,000	117,540,000	237,520,000	264,760,000	135,520,000	115,980,000	108,250,000	109,880,000	1,766,140,000	1,766
NESSWD Interties	24	114	(86)	53	31	990	(1,044)	0	114	(72)	36	(32)	66	0
Recharge	63,430,000	55,700,000	5,070,000	7,700,000	0	0	0	0	0	0	10,180,000	8,470,000	150,550,000	151
Total Water to System	110,310,024	87,440,114	119,859,914	103,210,053	123,969,969	117,540,990	237,518,956	264,760,000	135,520,114	115,979,928	98,070,036	101,409,968	1,615,590,066	1,616

2011	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals	0	0	0	8,570,000	13,920,000	21,290,000	22,250,000	18,800,000	0	0	0	0	84,830,000	85
Well 1R														
Well 2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 2.2	0	0	15,220,000	4,790,000	11,210,000	17,200,000	21,210,000	20,900,000	6,080,000	2,840,000	0	0	99,450,000	99
Well 4R	5,900,000	16,750,000	17,590,000	12,900,000	27,520,000	26,590,000	10,650,000	55,350,000	50,940,000	17,040,000	18,650,000	18,340,000	278,220,000	278
Well 7	53,420,000	50,720,000	48,260,000	45,940,000	47,930,000	32,730,000	65,570,000	0	5,610,000	55,740,000	51,820,000	58,310,000	516,050,000	516
Well 8	0	0	0	0	0	0	15,810,000	117,180,000	106,590,000	0	0	0	239,580,000	240
Well 9	0	10,000	0	0	0	0	0	0	10,000	0	0	0	20,000	0
Well 10	0	0	30,000	0	8,180,000	20,750,000	21,980,000	10,750,000	0	0	0	0	61,690,000	62
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	100,000	100,000	0
Well 11.2	29,980,000	9,670,000	4,030,000	15,220,000	0	4,880,000	33,280,000	12,770,000	21,720,000	6,540,000	0	30,000	138,120,000	138
Well 12	0	0	0	0	2,580,000	4,320,000	7,030,000	8,880,000	6,300,000	2,640,000	140,000	0	31,890,000	32
Well 13	10,000	0	0	0	620,000	0	360,000	1,470,000	2,530,000	1,240,000	290,000	0	6,520,000	7
Subtotal Wells	89,310,000	77,150,000	85,130,000	87,420,000	111,960,000	127,760,000	198,140,000	246,100,000	199,780,000	86,040,000	70,900,000	76,780,000	1,456,470,000	1,456
Purchased Water	12,700,000	10,800,000	12,080,000	11,550,000	1,460,000	0	0	0	0	20,000	11,560,000	11,980,000	72,150,000	72
North														
South	12,750,000	11,380,000	10,220,000	10,130,000	810,000	0	10,000	0	50,000	17,610,000	16,120,000	19,940,000	99,020,000	99
Subtotal Purchases	25,450,000	22,180,000	22,300,000	21,680,000	2,270,000	0	10,000	0	50,000	17,630,000	27,680,000	31,920,000	171,170,000	171
Total Water Production/Purchases	114,760,000	99,330,000	107,430,000	109,100,000	114,230,000	127,760,000	198,150,000	246,100,000	199,830,000	103,670,000	98,580,000	108,700,000	1,627,640,000	1,628
NESSWD Interties	25	400	(412)	19	(34)	17	21	(39)	77	(51)	(1)	12	34	0
Recharge	8,920,000	7,780,000	9,610,000	7,670,000	0	0	0	0	0	0	8,950,000	9,240,000	52,170,000	52
Total Water to System	105,840,025	91,550,400	97,819,588	101,430,019	114,229,966	127,760,017	198,150,021	246,099,961	199,830,077	103,669,949	89,629,999	99,460,012	1,575,470,034	1,575

2012	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals	0	0	510,000	0	1,140,000	21,620,000	22,380,000	22,270,000	13,620,000	0	970,000	3,700,000	86,210,000	86
Well 1R														
Well 2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 2.2	0	0	0	0	0	0	4,770,000	20,960,000	20,550,000	16,680,000	0	0	62,960,000	63
Well 4R	59,510,000	41,570,000	43,990,000	39,440,000	54,650,000	36,320,000	54,740,000	34,840,000	24,010,000	7,240,000	0	0	396,310,000	396
Well 7	7,710,000	18,980,000	23,270,000	27,850,000	35,780,000	26,610,000	56,730,000	88,820,000	81,330,000	52,110,000	40,150,000	45,920,000	505,260,000	505
Well 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 10	0	0	0	0	0	370,000	18,690,000	22,090,000	4,490,000	0	0	0	45,640,000	46
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 11.2	0	0	0	10,000	0	2,840,000	1,150,000	29,130,000	41,560,000	31,170,000	29,790,000	21,740,000	157,390,000	157
Well 12	0	0	0	0	2,260,000	1,720,000	2,000,000	5,510,000	790,000	1,780,000	3,530,000	3,460,000	21,050,000	21
Well 13	1,420,000	7,180,000	8,190,000	7,950,000	2,730,000	2,920,000	6,940,000	7,290,000	840,000	20,000	290,000	0	45,770,000	46
Subtotal Wells	68,640,000	67,730,000	75,960,000	75,250,000	96,560,000	92,400,000	167,400,000	230,910,000	187,190,000	109,000,000	74,730,000	74,820,000	1,320,590,000	1,321
Purchased Water	9,450,000	4,280,000	4190000	4,220,000	50000	0	0	0	8240000	3290000	70,000	0	33,790,000	34
North														
South	23,950,000	27,750,000	27,130,000	25,910,000	30,450,000	30,480,000	30210000	32590000	25190000	26,640,000	29,960,000	31,490,000	341,750,000	342
Subtotal Purchases	33,400,000	32,030,000	31,320,000	30,130,000	30,500,000	30,480,000	30,210,000	32,590,000	33,430,000	29,930,000	30,030,000	31,490,000	375,540,000	376
Total Water Production/Purchases	102,040,000	99,760,000	107,280,000	105,380,000	127,060,000	122,880,000	197,610,000	263,500,000	220,620,000	138,930,000	104,760,000	106,310,000	1,696,130,000	1,696
NESSWD Interties	(400)	(200)	(300)	(300)	(100)	0	(100)	300	200	(300)	(400)	(400)	(2,000)	0
Recharge	7,420,000	8,240,000	8,820,000	8,630,000	110,000	0	0	0	0	0	0	0	33,220,000	33
Total Water to System	94,619,600	91,519,800	98,459,700	96,749,700	126,949,900	122,880,000	197,609,900	263,500,300	220,620,200	138,929,700	104,759,600	106,309,600	1,662,908,000	1,663

2013	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals	5,390,000	5,530,000	9,370,000	5,780,000	10,090,000	16,470,000	22,320,000	18,000,000	1,400,000	9,460,000	1,050,000	2,210,000	107,070,000	107
Well 1R														
Well 2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 2.2	0	0	320,000	0	0	11,590,000	21,020,000	10,780,000	5,550,000	0	0	0	49,260,000	49
Well 4R	1,100,000	8,370,000	0	11,950,000	22,720,000	16,400,000	52,980,000	45,150,000	21,650,000	5,080,000	1,690,000	0	187,090,000	187
Well 7	49,540,000	41,980,000	47,370,000	43,320,000	60,880,000	72,120,000	60,710,000	0	0	0	0	0	375,920,000	376
Well 8	0	0	0	0	0	0	30,510,000	99,880,000	67,010,000	8,580,000	0	0	205,980,000	206
Well 9	0	0	0	0	0	0	0	0	0	32,970,000	51,280,000	36,690,000	120,940,000	121
Well 10	0	0	0	0	0	210,000	21,450,000	22,330,000	6,540,000	50,000	0	0	50,580,000	51
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 11.2	20,130,000	11,320,000	19,820,000	7,370,000	1,540,000	19,110,000	13,370,000	15,280,000	6,430,000	22,330,000	23,020,000	28,980,000	188,700,000	189
Well 12	610,000	0	0	1,650,000	90,000	4,740,000	3,790,000	3,020,000	5,260,000	3,820,000	620,000	0	23,600,000	24
Well 13	6,630,000	6,180,000	750,000	790,000	4,900,000	2,110,000	8,080,000	6,950,000	0	30,000	6,760,000	8,390,000	51,570,000	52
Subtotal Wells	83,400,000	73,380,000	77,630,000	70,860,000	100,220,000	142,750,000	234,230,000	221,390,000	113,840,000	82,320,000	84,420,000	76,270,000	1,360,710,000	1,361
Purchased Water	3,560,000	4,790,000	3,860,000	950,000	100,000	550,000	970,000	510,000	320,000	20,000	3,240,000	4,620,000	23,490,000	23
North														
South	27,290,000	22,850,000	27,160,000	30,260,000	30,990,000	30,780,000	37,820,000	20,010,000	29,750,000	26,500,000	21,740,000	37,010,000	342,160,000	342
Subtotal Purchases	30,850,000	27,640,000	31,020,000	31,210,000	31,090,000	31,330,000	38,790,000	20,520,000	30,070,000	26,520,000	24,980,000	41,630,000	365,650,000	366
Total Water Production/Purchases	114,250,000	101,020,000	108,650,000	102,070,000	131,310,000	174,080,000	273,020,000	241,910,000	143,910,000	108,840,000	109,400,000	117,900,000	1,726,360,000	1,726
NESSWD Interties	200	200	200	100	(100)	(200)	(200)	(300)	0	(200)	0	(100)	(400)	0
Recharge	7,420,000	8,050,000	1,090,000	0	0	0	0	0	0	0	7,000,000	8,950,000	32,510,000	33
Total Water to System	106,830,200	92,970,200	107,560,200	102,070,100	131,309,900	174,079,800	273,019,800	241,909,700	143,910,000	108,839,800	102,400,000	108,949,900	1,693,849,600	1,694

2014	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals	0	0	0	0	20,770,000	18,470,000	21,030,000	19,460,000	13,260,000	4,760,000	0	3,820,000	101,570,000	102
Well 1R														
Well 2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 2.2	0	0	0	0	0	2,800,000	22,660,000	22,620,000	6,170,000	7,330,000	2,470,000	0	64,050,000	64
Well 4R	10,000	0	0	310,000	28,420,000	46,250,000	32,160,000	48,470,000	30,890,000	9,980,000	0	0	196,490,000	196
Well 7	0	0	0	0	51,130,000	71,900,000	38,120,000	0	0	32,360,000	23,650,000	56,150,000	273,310,000	273
Well 8	0	0	0	0	0	0	63,290,000	111,110,000	75,410,000	9,350,000	0	0	259,160,000	259
Well 9	43,900,000	41,420,000	43,360,000	47,630,000	1,810,000	0	0	0	0	0	0	0	178,120,000	178
Well 10	0	0	0	0	0	11,460,000	23,060,000	10,050,000	7,820,000	0	0	0	52,390,000	52
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 11.2	24,920,000	30,030,000	27,160,000	25,250,000	620,000	110,000	39,390,000	12,510,000	170,000	10,220,000	32,150,000	22,930,000	225,460,000	225
Well 12	0	0	0	0	4,000,000	6,480,000	10,580,000	9,210,000	6,350,000	4,070,000	2,700,000	0	43,390,000	43
Well 13	8,070,000	7,500,000	8,210,000	6,420,000	1,220,000	520,000	2,490,000	1,760,000	590,000	20,000	40,000	3,870,000	40,710,000	41
Subtotal Wells	76,900,000	78,950,000	78,730,000	79,610,000	107,970,000	157,990,000	252,780,000	235,190,000	140,660,000	78,090,000	61,010,000	86,770,000	1,434,650,000	1,435
Purchased Water	3,860,000	3,950,000	4,300,000	3,250,000	10,000	30,000	220,000	360,000	20,000	10,000	2,850,000	2,190,000	21,050,000	21
North														
South	28,830,000	23,510,000	32,240,000	23,260,000	32,050,000	30,500,000	30,190,000	26,870,000	20,670,000	34,080,000	45,750,000	17,300,000	345,250,000	345
Subtotal Purchases	32,690,000	27,460,000	36,540,000	26,510,000	32,060,000	30,530,000	30,410,000	27,230,000	20,690,000	34,090,000	48,600,000	19,490,000	366,300,000	366
Total Water Production/Purchases	109,590,000	106,410,000	115,270,000	106,120,000	140,030,000	188,520,000	283,190,000	262,420,000	161,350,000	112,180,000	109,610,000	106,260,000	1,800,950,000	1,801
NESSWD Interties	61,000	78,000	(136,000)	77,000	3,000	(54,000)	(52,000)	39,000	(1,000)	19,000	(13,000)	(15,000)	6,000	0
Recharge	7,220,000	8,040,000	9,880,000	6,150,000	0	0	0	0	0	0	2,030,000	2,630,000	35,950,000	36
Total Water to System	102,431,000	98,448,000	105,254,000	100,047,000	140,033,000	188,466,000	283,138,000	262,459,000	161,349,000	112,199,000	107,567,000	103,615,000	1,765,006,000	1,765

2015	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals	3,790,000	11,380,000	15,230,000	23,840,000	16,640,000	20,990,000	21,110,000	20,050,000	3,460,000	2,080,000	770,000	0	139,340,000	139
Well 1R														
Well 2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 2.2	0	0	390,000	0	6,710,000	18,310,000	20,180,000	21,180,000	17,050,000	14,790,000	1,830,000	0	100,440,000	100
Well 4R	0	0	0	420,000	2,900,000	47,350,000	61,200,000	39,570,000	13,020,000	7,390,000	380,000	860,000	173,090,000	173
Well 7	38,850,000	39,440,000	35,310,000	29,480,000	54,780,000	37,160,000	0	0	18,810,000	13,710,000	16,700,000	46,970,000	331,210,000	331
Well 8	0	0	0	0	0	57,380,000	111,720,000	98,020,000	15,310,000	0	0	0	282,430,000	282
Well 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 10	0	0	530,000	0	0	0	680,000	11,380,000	12,270,000	5,210,000	1,700,000	180,000	31,950,000	32
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 11.2	25,390,000	21,610,000	26,380,000	21,540,000	40,570,000	53,450,000	43,660,000	46,100,000	51,770,000	62,190,000	43,410,000	24,090,000	460,160,000	460
Well 12	0	0	780,000	2,840,000	6,000,000	3,480,000	3,450,000	2,760,000	5,580,000	4,270,000	3,450,000	2,730,000	35,340,000	35
Well 13	6,670,000	7,610,000	2,640,000	560,000	0	0	0	0	10,000	0	0	0	17,490,000	17
Subtotal Wells	74,700,000	80,040,000	81,260,000	78,680,000	127,600,000	238,120,000	262,000,000	239,060,000	137,280,000	109,640,000	68,240,000	74,830,000	1,571,450,000	1,571
Purchased Water	4,130,000	3,540,000	320,000	0	250,000	9,890,000	12,730,000	10,370,000	60,000	20,000	40,000	490,000	41,840,000	42
North														
South	30,540,000	26,180,000	27,050,000	29,440,000	31,510,000	31,560,000	44,870,000	30,410,000	6,790,000	11,170,000	32,890,000	26,460,000	328,870,000	329
Subtotal Purchases	34,670,000	29,720,000	27,370,000	29,440,000	31,760,000	41,450,000	57,600,000	40,780,000	6,850,000	11,190,000	32,930,000	26,950,000	370,710,000	371
Total Water Production/Purchases	109,370,000	109,760,000	108,630,000	108,120,000	159,360,000	279,570,000	319,600,000	279,840,000	144,130,000	120,830,000	101,170,000	101,780,000	1,942,160,000	1,942
NESSWD Interties	(13,000)	45,000	(49,000)	60,000	(3,210,000)	3,074,000	61,000	83,000	(1,000)	44,000	(111,000)	74,000	57,000	0
Recharge	8,080,000	8,050,000	350,000	0	0	0	0	0	0	0	0	0	16,480,000	16
Total Water to System	101,277,000	101,755,000	108,231,000	108,180,000	156,150,000	282,644,000	319,661,000	279,923,000	144,129,000	120,874,000	101,059,000	101,854,000	1,925,737,000	1,926

2016	Total Monthly Production or Purchase (gallons)													
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total (MG)
Well Withdrawals	0	0	0	9,290,000	19,510,000	19,330,000	22,450,000	22,110,000	6,650,000	0	0	0	99,340,000	99
Well 1R														
Well 2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 2.2	0	0	0	0	470,000	19,750,000	21,330,000	21,870,000	19,010,000	12,020,000	0	0	94,450,000	94
Well 4R	0	20,000	1,850,000	0	0	23,090,000	50,790,000	61,520,000	31,380,000	23,130,000	19,510,000	22,810,000	234,100,000	234
Well 7	47,050,000	42,920,000	14,420,000	0	0	72,080,000	65,480,000	120,000	12,810,000	10,970,000	0	0	265,850,000	266
Well 8	0	0	0	0	0	0	19,530,000	96,270,000	32,620,000	0	0	0	148,420,000	148
Well 9	0	0	34,360,000	41,980,000	64,350,000	3,250,000	0	0	0	20,630,000	28,920,000	47,010,000	240,500,000	241
Well 10	0	0	0	0	0	0	5,440,000	22,820,000	20,110,000	17,440,000	19,290,000	0	85,100,000	85
Well 11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well 11.2	23,640,000	22,630,000	21,270,000	40,690,000	45,350,000	28,590,000	6,990,000	10,140,000	1,580,000	0	0	0	200,880,000	201
Well 12	4,200,000	3,200,000	960,000	80,000	40,000	6,110,000	4,480,000	2,700,000	530,000	2,730,000	3,590,000	3,480,000	32,100,000	32
Well 13	0	10,000	2,740,000	4,920,000	6,560,000	2,250,000	5,640,000	10,230,000	6,460,000	1,720,000	0	100,000	40,630,000	41
Subtotal Wells	74,890,000	68,780,000	75,600,000	96,960,000	136,280,000	174,450,000	202,130,000	247,780,000	131,150,000	88,640,000	71,310,000	73,400,000	1,441,370,000	1,441
Purchased Water	20,000	0	10,000	10,000	420,000	690,000	130,000	510,000	30,000	30,000	40,000	40,000	1,930,000	2
North														
South	36,480,000	29,220,000	31,010,000	31,180,000	28,970,000	31,620,000	27,540,000	28,450,000	32,390,000	33,020,000	33,920,000	23,340,000	367,140,000	367
Subtotal Purchases	36,500,000	29,220,000	31,020,000	31,190,000	29,390,000	32,310,000	27,670,000	28,960,000	32,420,000	33,050,000	33,960,000	23,380,000	369,070,000	369
Total Water Production/Purchases	111,390,000	98,000,000	106,620,000	128,150,000	165,670,000	206,760,000	229,800,000	276,740,000	163,570,000	121,690,000	105,270,000	96,780,000	1,810,440,000	1,810
NESSWD Interties	(16,000)	(51,000)	5,000	(64,000)	83,000	(28,000)	(18,000)	(23,000)	43,000	33,000	(21,000)	4,000	(53,000)	(0)
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Water to System	111,374,000	97,949,000	106,625,000	128,086,000	165,753,000	206,732,000	229,782,000	276,717,000	163,613,000	121,723,000	105,249,000	96,784,000	1,810,387,000	1,810

This page intentionally left blank.

FILE

REC'D APR 22 2005

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

APR 2 1 2005

Sammamish Plateau Water and Sewer District
1510 228th Avenue SE
Sammamish WA 98075

Dear Sir or Madam:

Enclosed is Aquifer Storage and Recovery Permit No. R1-28191P. Our information indicates you have begun construction of your project. We are enclosing a Notice of Completion of Construction form which must be filed when all mainlines have been installed, storage facilities completed and the delivery system is in place.

If you cannot complete your project by October 1, 2015, you must contact this office.

Please read the enclosed information sheet as well as both sides of your permit.

If you have any questions, please contact Doug Wood at (425) 649-7077.

Sincerely,

Daniel L. Swenson
Section Supervisor
Water Resources Program

DLS:ng
Enclosures

NOTE: **PLEASE ADVISE OF ANY ADDRESS CHANGES**

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

AQUIFER STORAGE AND RECOVERY CONDITIONAL PERMIT

TO STORE FOR BENEFICIAL USE
WATERS OF THE STATE OF WASHINGTON

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
November 18, 2003	R1-28191A	R1-28191P	

NAME
Sammamish Plateau Water and Sewer District

ADDRESS (STREET)	(CITY)	(STATE)	(ZIP CODE)
1510 228th Avenue SE	Sammamish	Washington	98075

PUBLIC WATERS TO BE STORED AND BENEFICIALLY USED

SOURCE WATER RIGHT NUMBER(S)	MAXIUMUM INJECTION RATE (GPM)	MAXIMUM WITHDRAWAL RATE (GPM)	MAXIMUM ACRE FEET PER YEAR
G1-25428P G1-26014P S1-*04253P	1,400	1,400*	565**

* In addition to Qi currently allocated to designated ASR recovery wells (requires Ecology approval based on pilot study results)
** In addition to Qa currently allocated to designated ASR recovery wells (requires Ecology approval based on pilot study results)

PURPOSE OF USE	PERIOD OF RECHARGE	PERIOD OF RECOVERY
Municipal supply	November to April	June to October

LOCATION OF STORAGE AQUIFER

The Plateau Aquifer System (PAS) is located underlying the Sammamish Plateau area in east King County, Washington. The area encompasses approximately 29 square miles of East King County within Townships 24N and 25N, Ranges 6E and 7E.

LOCATION OF INJECTION WELLS

APPROXIMATE LOCATION OF EACH INJECTION WELL OR RECHARGE POND
The Table below summarizes the wells that will be used for injecting water for storage in the Plateau Aquifer System

Well	Location	Township, Range, Section	Completion Aquifer	Capacity (gpm)
1R	24100 SE 28th Street	T24N/R6E/Section 10, NW4/SE4/NE4	Zone II	500
2	25400 SE 31st Place	T24N/R6E/Section 11, SE4/NW4/NE4	Zone II	500
4	23050 Main Street	T25N/R6E/Section 34, NE4/NE4	Zone IV	TBD
5	23200 Main Street	T25N/R6E/Section 34	Zone IV	400
10	25025 SE 32nd Street	T24N/R6E/Section 11, NE4/SW4	Zone II	600
11.1	400 228th Avenue SE	T25N/R6E/Section 34, NE4/NW4	Zone III	300
11.2	400 228th Avenue SE	T25N/R6E/Section 34, NE4/NW4	Zone IV	TBD
15	4508 Klahanie Drive	T24N/R6E/Section 14, NW4/SE4	Zones II-IV	TBD
PT-12	26015 East Main Drive	T24N/R6E/Section 36	Zone IV	TBD
ZII Rc4	near Well 4	T25N/R6E/Section 34, NE4/NE4	Zone II	500
ZII Rc1	near Well 1	T24N/R6E/Section 10, NW4/SE4/NE4	Zone II	500

TBD - To be determined during pilot testing

LOCATION RECOVERY WELLS

APPROXIMATE LOCATION OF EACH RECOVERY WELL
The Table below summarizes the wells that will be used for recovering water stored in the Plateau Aquifer System

Well	Location	Township, Range, Section	Completion Aquifer	Capacity (gpm)
1R	24100 SE 28th Street	T24N/R6E/Section 10, NW4/SE4/NE4	Zone II	500
2R	25401 SE 31st Place	T24N/R6E/Section 11, SE4/NW4/NE4	Zone II	500
4R	23050 Main Street	T25N/R6E/Section 34, NE4/NE4	Zone IV	TBD
10	25025 SE 32nd Street	T24N/R6E/Section 11, NE4/SW4	Zone II	600
11.1	400 228th Avenue SE	T25N/R6E/Section 34, NE4/NW4	Zone III	500
11.2	400 228th Avenue SE	T25N/R6E/Section 34, NE4/NW4	Zone IV	2,000
15	4508 Klahanie Drive	T24N/R6E/Section 14, NW4/SE4	Zones II-IV	1,600
PT-12	26015 East Main Drive	T24N/R6E/Section 36	Zone IV	TBD
ZII Rc4	near Well 4	T25N/R6E/Section 34, NE4/NE4	Zone II	TBD
ZII Rc1	near Well 1	T24N/R6E/Section 10, NW4/SE4/NE4	Zone II	TBD

TBD - To be determined during pilot testing

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

The Area Served by the Sammamish Plateau Water and Sewer District as per its Department of Health approved Water System Plan and periodic updates (see Figure 1).

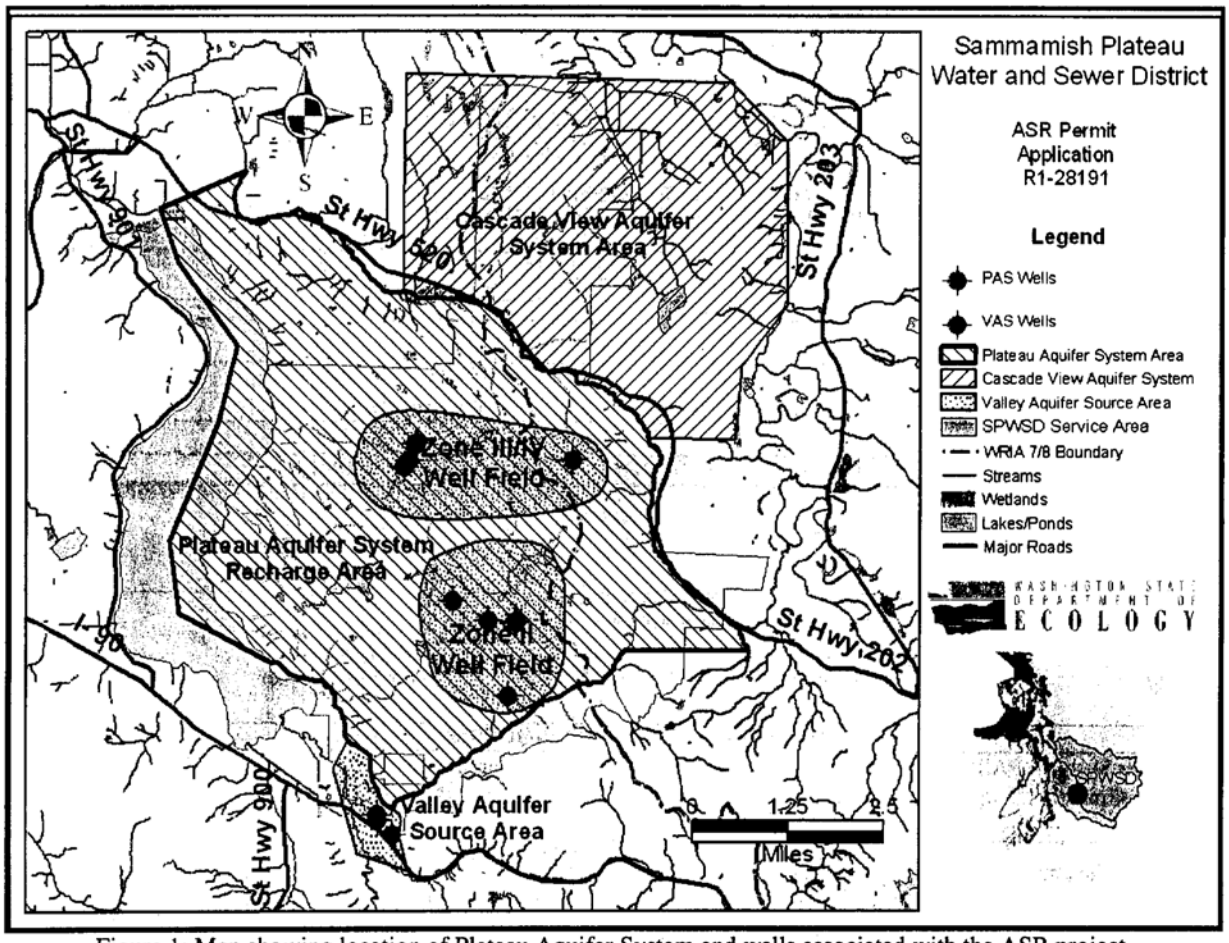

Figure 1: Map showing location of Plateau Aquifer System and wells associated with the ASR project.

DESCRIPTION OF ASR PROJECT

The Sammamish Plateau Water and Sewer District's Plateau Aquifer System (PAS) Aquifer Storage and Recovery Project (ASR) has been on-going since 1993. Pilot tests conducted in 1993, 1994, 1998, 2001, and 2002 have investigated the feasibility of recharge and recovery within three productive aquifer zones of the PAS.

This ASR Permit (R1-28191P) provides authorization to continue pilot testing until 2015 at which time the district can, based on pilot project results and Ecology approval, extend this permit for between 10 and 50 years.

This project will test recharge and recovery within the Zone II (Qva) and Zones III/IV (QAc/QBc) Aquifers underlying the Sammamish Plateau area east of Lake Sammamish in East King County, Washington.

Pilot studies authorized under this permit, depending on project results and upon Ecology approval, may enable the district to increase the quantities of water it recovers from aquifer storage beyond those quantities it currently is allocated through existing groundwater water rights assigned to wells completed in PAS aquifers.

(For a full project description see Attachment A.)

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Begun	October 1, 2015	October 1, 2055

PROVISIONS

The amount of water granted under this permit for Aquifer Storage and Recovery is a maximum limit that shall not be exceeded and the water user shall be entitled only to that amount of water within the specified limit that is beneficially used and required.

- The maximum quantity authorized for injection and storage within the Plateau Aquifer System shall not exceed 565 acre-feet.
    - During the recharge/recovery cycle under this permit, recovery wells shall not recover any amounts that exceed their existing certificated or permitted annual quantity that is independent of this ASR permit, unless otherwise approved by Ecology.

- If the potentiometric head for an aquifer zone (or water table where the aquifer is unconfined) being utilized for storage and recovery falls below the weekly twenty-year minimum level during the recovery stage of any recharge/recovery cycle, the district must cease recovery efforts until such time as the potentiometric or water table level recovers beyond the twenty year minimum level.
    - In the event that records are unavailable or inadequate to determine the twenty-year minimum level for an aquifer zone, the applicant, with Ecology approval, may establish an interim minimum value.
- Any increases to the storage quantity and/or injection/recovery rates beyond the maximum quantities herein approved, to add a new source, or to store water in another aquifer zone shall require the applicant to file a separate, new application for an Aquifer Storage and Recovery Permit.

The sources authorized for this project are groundwater from Wells 7, 8, and 9 and surface water from the City of Seattle Tolt reservoir, under water right permit numbers G1-25428P, G1-26014P and S1-*04253P (or certificates subsequently issued for these permits).

This permit authorizes the Sammamish Plateau Water and Sewer District to store water in Zones II, III and IV of the Plateau Aquifer System underlying the Sammamish Plateau area (see Figure 1).

This permit, unless otherwise cancelled by Ecology or by the applicant, shall remain in effect for a period of ten (10) years. The permit can be renewed for a further ten (10) years, or for a longer period not to exceed fifty (50) years, subject to review by Ecology of pilot project results at the conclusion of the first ten (10) year period.

The permit holder shall adhere to the operating, monitoring, and mitigation plans as provided herein and in Attachment A ("Comprehensive Report Addressing WAC 173-157 Requirements for Sammamish Plateau Water and Sewer District Plateau Aquifer System ASR Application for R1-28191A" – attached CD). In addition the permit holder shall, subject to Ecology approval, establish a spring and seep monitoring program for the plateau margin area to better assess the potential for slope stability impacts.

The applicant shall file a report with Ecology no later than December 30th of each year. The report shall provide data and interpretation of the previous season's operation and monitoring as well as plans for the subsequent recharge/recovery cycle.

Each annual report must provide an estimate of recoverable stored water for the recently completed recharge/recovery cycle and a forecast for the next year's cycle. This estimate, subject to Ecology approval, shall be used in planning the subsequent year's recovery quantities.

An approved measuring device shall be installed and maintained for each injection and recovery well in accordance with the rule "Requirements for Measuring and Reporting Water Use", Chapter 173-173 WAC and with Chapter 173-157 WAC. Water injection and recovery data shall be recorded daily and submitted annually to Ecology by January 31st of each calendar year.

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air-line and gauge may be installed in addition to the access port.

If it can be shown that the project has a detrimental effect on existing rights or negative impacts to the environment or slope stability, it shall be the responsibility of the operator to mitigate for any impact and/or alter or cease operation of the ASR project as per the mitigation plan detailed in Section 7 of Attachment A.

The applicant is advised that a certificate of water right may not issue for this project and, if issued, can only be issued for that quantity of water that has been effectively stored and applied to actual beneficial use. Such quantity applied to actual beneficial use shall not exceed the quantity specified in this report of exam and will be calculated based on the best information available to Ecology, including metering data.

A certificate of water right shall not be issued until a final investigation is made.

This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.

Given under my hand and the seal of this office at Bellevue, Washington,

this 21ST *day of* APRIL, *2005.*

DEPARTMENT OF ECOLOGY
ENGINEERING DATA
OK DAS
WASHINGTON

Department of Ecology

by Daniel L. Swenson

Daniel L. Swenson, Section Supervisor, Water Resources

CDM

Comprehensive Report Addressing WAC 173-157 Requirements for Sammamish Plateau Water and Sewer District Plateau Aquifer System ASR Application (R1-28191A)

June 2, 2004

Prepared for:
Sammamish Plateau Water and Sewer District

Prepared by:
CDM
11811 NE 1st St, Suite 201
Bellevue, Washington 98005

CDM Project No. 19936.39300

This page intentionally left blank.

FILE

REC'D JUL 18 2005

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

JUL 14 2005

Sammamish Plateau Water and Sewer District
1510 228th Avenue SE
Sammamish WA 98075

Dear Sir or Madam:

Enclosed is Aquifer Storage and Recovery Water Permit No. R1-28192P and a form for filing a Notice of Beginning of Construction when the work is started. A permit authorizes the beginning of construction and use of the waters. The development schedule is the agreement between you and the State as to how and when the water right will be developed.

Failure to comply with the development schedule may result in cancellation of your permit.

Please read the enclosed information sheet as well as both sides of your permit to ensure that you have no questions as to what the State expects for the perfection of your water use. Thank you for your attention to this matter.

If you have any questions, please call Doug Wood at (425) 649-7077.

Sincerely,

Daniel L. Swenson
Section Supervisor
Water Resources Program

DLS:ng
Enclosures

NOTE: **PLEASE ADVISE OF ANY ADDRESS CHANGE**

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

AQUIFER STORAGE AND RECOVERY PERMIT

TO STORE FOR BENEFICIAL USE
WATERS OF THE STATE OF WASHINGTON

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
November 18, 2003	R1-28192A	R1-28192P	

NAME
Sammamish Plateau Water and Sewer District

ADDRESS (STREET)	(CITY)	(STATE)	(ZIP CODE)
1510 228th Avenue SE	Sammamish	Washington	98075

PUBLIC WATERS TO BE STORED AND BENEFICIALLY USED

SOURCE WATER RIGHT NUMBER(S)	MAXIUMUM INJECTION RATE (GPM)	MAXIMUM WITHDRAWAL RATE (GPM)	ACRE FEET PER YEAR STORAGE/RECOVERY
S1-*04253P	400	400*	200**

* Initial withdrawal rate limited to existing Qi associated with Wells 12/12R, 13, and 14. Additional recovery capacity (up to 400 gpm) may be approved based on pilot project results.

** Initial annual quantities shall add no additional amounts to existing Qa associated with Wells 12/12R, 13, and 14. Additional recovery of ASR storage may be added based on pilot project results.

PURPOSE OF USE	PERIOD OF RECHARGE	PERIOD OF RECOVERY
Municipal supply	November to April	June to October

LOCATION OF STORAGE AQUIFER

The Cascade View Aquifer System (CVAS) is located underlying the Union Hill Plateau area in east King County, Washington. The storage area at its maximum extent encompasses approximately 4,400 acres (6.85 square miles) of East King County within eastern half Township 25N, Range 6E and near the western edge of Township 25N, Range 7E, W.M. .

LOCATION OF INJECTION WELLS

APPROXIMATE LOCATION OF EACH INJECTION WELL OR RECHARGE POND
The Table below summarizes the wells that will be used for injecting water for storage in the Cascade View Aquifer System

Well	Location	Township/Range/Section	Completion Aquifer	Capacity (gpm)
Well 12	26410 NE 50th Street	T25N/R6E/Sec 13 SW4/SE4/NW4	Qva (Shallow)	TBD
Well 13	26002 NE 70th Street	T25N/R6E/Sec 12 SW4/SE4/NW4	Q(B)c (Deep)	TBD
Well 14	26120 NE 35th Place	T25N/R6E/Sec 24 SW4/SE4/NW4	Q(A)c (Intermediate)	TBD

TBD - To be determined during pilot testing

LOCATION RECOVERY WELLS

APPROXIMATE LOCATION OF EACH RECOVERY WELL
The Table below summarizes the wells that will be used for recovering water stored in the Cascade View Aquifer System

Well*	Location	Township/Range/Section	Completion Aquifer	Capacity (gpm)
Well 12R	26410 NE 50th Street	T25N/R6E/Sec 13 SW4/SE4/NW4	Qva (Shallow)	220
Well 13	26002 NE 70th Street	T25N/R6E/Sec 12 SW4/SE4/NW4	Q(B)c (Deep)	170
Well 14	26120 NE 35th Place	T25N/R6E/Sec 24 SW4/SE4/NW4	Q(A)c (Intermediate)	100

** Additional ASR recovery wells may be added based on Ecology review of the pilot project results.*

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

The Area Served by the Sammamish Plateau Water and Sewer District as per its Department of Health approved Water System Plan and periodic updates.

DESCRIPTION OF ASR PROJECT

This permit is intended to provide the Sammamish Plateau Water and Sewer District (SPWSD) the opportunity to demonstrate whether ASR can reduce or eliminate declining groundwater levels within a portion of the Cascade View Aquifer System and test the effectiveness of the aquifer system to store groundwater injected during the winter months, and retain sufficient quantities of stored water for use during the summer and early fall months.

The pilot project will test ASR feasibility by utilizing existing SPWSD Wells 12/12R, 13 and 14 to inject up 200 acre-feet per year of surface and/or ground water between November and April for storage and utilize SPWSD Wells 12R, 13, and 14 for recovery of stored water from July to September of each year.

PROVISIONS

This Permit provides authorization to the Sammamish Plateau Water and Sewer District and its consultants to conduct pilot studies to determine the feasibility of Aquifer Storage and Recovery within the Cascade View Aquifer System located north of the Patterson Creek and Evans Creek valleys of WRIA 7 and 8, respectively.

All ASR testing and subsequent operations shall be conducted as provided in the "Comprehensive Report Addressing WAC 173-157 Requirements for the Sammamish Plateau Water and Sewer District Cascade View Aquifer System ASR Application (R1-28192A)" dated November 10, 2004, (included in the Report of Examination for R1-28192A as Attachment A, and referred to hereinafter in this document as the "Comprehensive Report"), and as amended or added to below.

- The amount of water granted for storage and recovery is a maximum limit that shall not be exceeded and the water user shall be entitled only to that amount of water within the specified limit that is beneficially used and required.
    - The maximum quantity allowed for injection and storage within the Plateau Aquifer System shall not exceed 200 acre-feet.
        - During the recharge/recovery cycle under this permit, recovery wells shall not recover any amounts that exceed their existing certificated or permitted annual quantity that is independent of this ASR permit, unless otherwise approved by Ecology.
        - Recovery wells under the proposed project shall not initially recover amounts greater than the amounts they are currently assigned through existing water right permits and certificates. The percentage of stored water that is recoverable under this permit may be adjusted annually, subject to Ecology approval, and shall be based on an analysis of the previous year's project results, including static and dynamic storage, and can include forecasts developed using the district's numerical groundwater model, but must also correlate with water level data.
    - The maximum pumping rate of recovery wells shall not exceed their existing certificated or permitted instantaneous quantity that is independent of this ASR permit, unless otherwise approved by Ecology.
        - The rate of recovery in recharge/recovery cycles may be increased, subject to Ecology approval, based upon annual recovery calculations that fully take into account recharge quantities injected and the timing and duration of recovery of stored groundwater, but may not at any time under this permit exceed 400 gallons per minute in excess of the quantities independently allocated to these wells under other certificates or permits.
- If the potentiometric head for an aquifer zone (or water table where the aquifer is unconfined) being utilized for storage and recovery falls below the weekly twenty-year minimum level during the recovery stage of any recharge/recovery cycle, the district must cease recovery efforts until such time as the potentiometric or water table level recovers beyond the twenty year minimum level.
    - In the event that records are unavailable or inadequate to determine the twenty-year minimum level for an aquifer zone, the applicant, with Ecology approval, may establish an interim minimum value.
- Any increases to the storage quantity and/or injection/recovery rates beyond the maximum quantities herein approved, to add a new source, or to store water in another aquifer zone shall require the applicant to file an application for a new ASR permit.
- The sources authorized for this project are groundwater from Wells 12/12R, 13, and 14 and surface water from the City of Seattle Tolt reservoir, under ground water certificates G1-00027C (Well 12/12R), G1-24363C (Well12/12R), G1-25963C (Well 13), G1-25831C (Well 14), and surface water permit S1-*04253P (or a certificate subsequently issued for this permit).
- This permit authorizes the Sammamish Plateau Water and Sewer District to store water in Shallow, Intermediate, and Deep Aquifer Zones of the Cascade View Aquifer System located north of Patterson and Evans Creeks (see description of these in The Comprehensive Report, Section 3).
- This permit, unless otherwise cancelled by Ecology or by the applicant, shall remain in effect for a period of ten (10) years. The permit can be renewed by Ecology for a further ten (10) years, or for a longer period not to exceed fifty (50) years, subject to review by Ecology of pilot project results at the conclusion of the first ten (10) year period.
- The applicant shall file a report with Ecology no later than December 30 of each year. The report shall provide data and interpretation of the previous season's operation and monitoring as well as plans for the subsequent recharge/recovery cycle.
- Each annual report must provide an estimate of recoverable stored water for the recently completed recharge/recovery cycle and a forecast for the next year's cycle. This estimate, subject to Ecology approval, shall be used in planning the subsequent year's quantities of recoverable storage (applies only to amounts that are independent of and additional to those quantities allocated to existing water rights held by the Sammamish Plateau Water and Sewer District in the project area).
- An approved measuring device shall be installed and maintained for each injection and recovery well in accordance with the rule "Requirements for Measuring and Reporting Water Use", Chapter 173-173 WAC and with Chapter 173-157 WAC. Water injection and recovery data shall be recorded daily and submitted annually to Ecology by January 31st of each calendar year.
- Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air-line and gauge may be installed in addition to the access port.
- If it can be shown that the project has a detrimental effect on existing rights or negative impacts to the environment or slope stability, it shall be the responsibility of the operator to mitigate for any impact and/or alter or cease operation of the ASR project as per the mitigation plan detailed in Section 7 of The Comprehensive Report.
- The applicant is advised that a certificate of water right may not issue for this project and, if issued, can only be issued for that quantity of water that has been effectively stored and applied to actual beneficial use. Such quantity applied to actual beneficial use shall not exceed the quantity specified in this report of exam and will be calculated based on the best information available to Ecology, including metering data.
- A certificate of water right shall not be issued until a final investigation is made.

IMPORTANT INFORMATION

REGARDING YOUR WATER RIGHT

1. This permit is not your final water right, but an authorization to proceed with construction and to use the water in accordance with the provisions and limitations of your permit. It should be understood that the diversion or withdrawal of water may be regulated to protect any existing or prior rights.

2. Accompanying your permit is a form for reporting the progress of the project. Failure to file this form with the Department at the appropriate time, or negligence in complying with the provisions of the permit, may result in its cancellation.

3. Actual construction work must begin, the project must be completed, and water must be put to full beneficial use on or before the time limits indicated on the Development Schedule on your permit.

4. A list of forms to be filed, according to your Development Schedule, is as follows:

    a. Notice of Beginning of Construction
    b. Notice of Completion of Construction
    c. Proof of Appropriation of Water
    d. Water Well Report (ground water permits only)

5. If you cannot begin the work, complete the work, or put the water to use before the expiration of time stated on your permit, you must request an extension of time stating the reasons why such an extension is needed. This request should be sent to the Department of Ecology. The statutory fee for an extension of time in which to begin construction is one-half the permit fee or $5, which ever is greater. The fee should accompany your request for extension. If the work has been started and an extension of time is needed to complete construction, or to completely apply the water to full beneficial use, a statutory fee of $5 is charged for each year such an extension is granted. Checks should be made payable to the Department of Ecology.

6. Should you sell the property covered by this permit before a final certificate of water right is issued, your interest should be assigned (transferred) to the new owner. By statute, a $5 fee is charged for recording such assignment. A form for this purpose will be provided on request.

7. When the water has been put to full beneficial use as described in the permit and necessary notices have been filed, a Certificate of Water Right will be issued subject to the conditions stated on your permit and actual use. The permittee pays the certificate recording fee of $5 (payable to the Department of Ecology) and a county auditor's recording fee, both of which are sent to this office. The certificate and auditor's check will be forwarded for recording, then mailed to you. The certificate gives final title to the water right granted and becomes appurtenant to the land described on the certificate as the place of use.