

AMEREN - Labadie Plant DSI - Well Development Field Data Sheet

Well ID	Date Drilled	Total Depth (BTOC)	Csg Dia. (inches)	Filter Sand Hgt (feet)	Initial WL		Water Column Height (feet)	Annular Volume (gallons)	Casing Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Remarks
					(BTOC)	Date/Time						
9	10/20/09	37.97	4	15.5	7.65	11-2/2:34	30.32	16.9	19.7	56	166	Developed 11/2 MCC
12	09/16/09	36.76	2	14.3	14.36	10-13/3:00	22.40	6.1	3.6	25	54	Developed 10/13
15	09/17/09	37.55	2	14.2	13.89	10-13/9:46	23.66	6.1	3.8	30	60	Developed 10/13
17	09/16/09	37.59	2	14.1	14.22	10-13/11:19	23.37	6.1	3.7	30	59	Developed 10/13
19	10/16/09	37.33	4	14.9	6.17	11-2/10:46	31.16	16.2	20.3	53	162	Developed 11/2 MCC
20	09/17/09	37.50	2	14.7	13.46	10-13/8:27	24.04	6.3	3.8	25	56	Developed 10/13
22	10/07/09	37.50	4	13.5	13.21	10-14/2:11	24.29	14.7	15.8	36	128	Developed 10/14
24	09/16/09	37.61	2	14.2	13.78	10-12/1:48	23.83	6.1	3.8	35	65	Developed 10/12
27	09/17/09	38.27	2	14.9	13.25	10-12/3:30	25.02	6.4	4.0	40	71	Developed 10/12
29	09/15/09	37.54	2	14.2	12.12	10-14/10:20	25.42	6.1	4.1	35	66	Developed 10/14
31	10/12/09	37.09	4	15.0	7.81	11-11/5:10	29.28	16.4	19.0	50	156	Developed 11/11 MCC/SK
33	09/14/09	37.30	2	14.3	15.40	10-7/10:43	21.90	6.1	3.5	30	59	Developed 10/7
35	09/15/09	36.41	2	13.7	12.36	10-12/5:35	24.05	5.9	3.8	50	79	Developed 10/12
36	09/15/09	37.49	2	15.3	12.80	10-14/11:47	24.69	6.6	4.0	30	62	Developed 10/14
38	09/22/09	37.16	2	15.3	11.34	10-12/9:20	25.82	6.6	4.1	40	72	Developed 10/12
40	10/12/09	37.73	2	16.0	5.01	11-2/10:08	32.72	6.9	5.2	38	74	Developed 11/2
42	10/06/09	37.40	4	14.8	8.60	10-28/1:31	28.80	16.1	18.7	48	153	Developed 10/28 MCC
43	09/17/09	37.20	2	14.7	9.19	10-19/9:40	28.01	6.3	4.5	35	67	Developed 10/19
45	09/18/09	37.44	2	15.2	10.30	10-15/10:50	27.14	6.5	4.3	40	73	Developed 10/15
47	09/18/09	37.09	2	14.5	10.26	10-15/9:13	26.83	6.2	4.3	50	82	Developed 10/15
49	10/14/09	37.81	2	15.5	6.07	11-2/1:22	31.74	6.7	5.1	38	73	Developed 11/2
51	10/14/09	37.32	2	16.3	8.13	10-26/2:35	29.19	7.0	4.7	40	75	Developed 11/2
53	10/15/09	37.10	4	15.0	7.57	10-29/8:17	29.53	16.4	19.2	53	160	Developed 11/2
55	10/14/09	37.01	2	15.1	6.33	11-2/3:21	30.68	6.5	4.9	40	74	Developed 11/2
57	10/15/09	37.28	4	15.4	7.71	10-29/10:05	29.57	16.8	19.2	69	177	Developed 11/2
59	09/21/09	37.37	2	14.6	7.87	10-19/11:19	29.50	6.3	4.7	38	71	Developed 10/19
61	10/26/09	37.53	4	14.7	6.41	11-12/8:15	31.12	16.0	20.2	50	159	Developed 11/12 MCC/SK
63	09/21/09	37.29	2	15.1	9.17	10-19/1:29	28.12	6.5	4.5	50	83	Developed 10/19
65	10/13/09	37.64	2	14.6	7.08	11-4/10:48	30.56	6.3	4.9	40	74	Developed 11/4
67	10/13/09	37.15	2	14.8	4.23	11-4/12:55	32.92	6.4	5.3	40	75	Developed 11/4
69	10/13/09	37.54	2	14.7	3.94	11-4/2:45	33.60	6.3	5.4	40	75	Developed 11/4
71	10/21/09	37.62	2	14.8	8.03	11-10/2:06	29.59	6.4	4.7	48	81	Developed 11/10
73	11/05/09	36.84	4	14.7	7.51	11-12/8:56	29.33	16.0	19.1	40	145	Developed 11/12 MCC/SK
75	09/28/09	37.23	2	14.6	8.64	10-19/4:23	28.59	6.3	4.6	31	64	Developed 10/19
77	09/28/09	37.45	2	15.1	8.01	10-19/3:18	29.44	6.5	4.7	31	65	Developed 10/19
79	10/28/09	37.60	2	14.7	5.86	11-6/9:32	31.74	6.3	5.1	56	90	Developed 11/6
81	10/28/09	37.43	4	14.8	7.66	11-11/2:07	29.77	16.1	19.4	53	159	Developed 11/11 MCC/SK
83	11/10/09	37.14	2	14.8	5.48	12-1/2:41	31.66	6.4	5.1	30	64	Developed 12/1
85	11/10/09	36.71	4	15.3	4.61	11-30/2:08	32.10	16.7	20.9	50	163	Developed 11/30 TD/SK
87	10/26/09	36.17	2	15.4	6.92	11-9/3:37	29.25	6.6	4.7	50	84	Developed 11-10
88	11/06/09	37.01	2	14.0	4.97	11-20/1:10	32.04	6.0	5.1	60	93	Developed 11/20

AMEREN - Labadie Plant DSI - Well Development Field Data Sheet

Well	Date	Total Depth	Csg Dia.	Filter Sand Hgt	Initial WL		Water Column Height	Annular Volume	Casing Volume	Tremie Volume	Total Purge Volume	Remarks
					(BTOC)	Date/Time						
90	09/28/09	37.01	2	15.0	8.10	10-20/11:45	28.91	6.5	4.6	31	64	Developed 10/20
93	10/20/09	36.90	2	14.5	4.88	11-6/11:16	32.02	6.2	5.1	69	103	Developed 11/6
95	10/20/09	37.12	2	14.6	6.11	11-6/1:18	31.01	6.3	5.0	60	94	Developed 11/6
97	10/21/09	36.85	2	14.8	5.98	11-6/3:32	30.87	6.4	4.9	66	100	Developed 11/6
99	10/21/09	36.55	2	15.0	4.36	11-9/1:47	32.19	6.5	5.2	60	95	Developed 11/9
102	09/29/09	35.87	2	14.9	7.15	10-20/2:52	28.72	6.4	4.6	31	64	Developed 10/20
104	10/05/09	37.34	4	15.0	5.14	11-11/2:47	32.20	16.4	20.9	39	151	Developed 11/11 MCC/SK
106	10/29/09	37.78	2	14.9	4.99	11-9/11:59	32.79	6.4	5.2	50	85	Developed 11/9
108	11/04/09	37.45	2	15.0	5.70	11-10/3:48	31.75	6.5	5.1	44	79	Developed 11-10
110	11/04/09	37.01	2	14.9	6.33	11-11/7:11	30.68	6.4	4.9	38	72	Developed 11/11
112	11/04/09	36.70	2	15.3	6.33	11-11/8:55	30.37	6.6	4.9	31	65	Developed 11/11
114	11/12/09	37.54	4	14.7	4.75	11-30/1:31	32.79	16.0	21.3	78	190	Developed 11/30 TD/SK
116	09/29/09	37.48	2	15.2	7.38	10-26/4:21	30.10	6.5	4.8	25	59	Developed 10/26
118	09/29/09	37.96	2	15.3	5.16	11-12/11:16	32.80	6.6	5.2	28	63	Developed 11/12
120	10/22/09	37.39	4	15.2	5.45	11-30/12:08	31.94	16.6	20.8	54	166	Developed 11/30 TD/SK
122	11/10/09	37.44	2	15.1	5.08	11-12/1:22	32.36	6.5	5.2	42	77	Developed 11/12
124	11/11/09	37.73	2	15.2	6.35	12-3/3:57	31.38	6.5	5.0	48	83	Developed 12/3 SK
126	11/11/09	36.87	4	15.2	6.65	11-30/12:55	30.22	16.6	19.6	42	151	Developed 11/30 TD/SK
128	11/07/09	37.39	4	15.2	6.23	11-12/9:30	31.16	16.6	20.3	72	182	Developed 11/12 MCC/SK
130	09/30/09	37.35	2	15.5	6.31	10-26/12:13	31.04	6.7	5.0	44	79	Developed 10/26
132	10/15/09	37.71	2	15.0	4.33	11-3/9:50	33.38	6.5	5.3	56	91	Developed 11/3
134	11/10/09	37.62	2	16.6	4.14	11-12/3:12	33.48	7.1	5.4	20	57	Developed 11/12
136	11/11/09	37.63	4	14.7	4.43	11-30/2:50	33.20	16.0	21.6	70	183	Developed 11/30 TD/SK
138	11/12/09	37.05	2	15.1	7.27	12-21/2:33	29.78	6.5	4.8	44	78	Developed 12/21 SK
140	10/27/09	37.16	2	14.6	6.07	11-11/11:25	31.09	6.3	5.0	44	78	Developed 11/11
142	11/06/09	37.56	2	15.0	6.01	12-1/4:08	31.55	6.5	5.0	63	97	Developed 12/2
144	09/30/09	37.52	4	14.7	3.29	11-2/11:37	34.23	16.0	22.2	96	211	Developed 11/2 MCC
146	11/09/09	37.28	2	16.8	5.38	12-2/12:03	31.90	7.2	5.1	34	71	Developed 12/2
148	11/09/09	37.42	2	14.4	7.67	12-22/9:55	29.75	6.2	4.8	36	69	Developed 12/22 SK
150	11/14/09	37.62	2	15.1	6.34	12-22/8:10	31.28	6.5	5.0	36	70	Developed 12/22 SK
152	11/12/09	37.14	2	15.3	6.39	12-21/4:10	30.75	6.6	4.9	48	82	Developed 12/21 SK
155	09/30/09	37.33	2	14.9	1.86	11-4/8:39	35.47	6.4	5.7	38	74	Developed 11/4
156	11/09/09	37.24	2	14.5	5.47	12-2/2:12	31.77	6.2	5.1	44	78	Developed 12/2 SK
158	11/13/09	37.64	2	14.6	5.83	12-2/1:40	31.81	6.3	5.1	40	74	Developed 12/3 SK
160	12/11/09	37.90	2	15.0	6.74	12-22/7:31	31.16	6.5	5.0	50	84	Developed 12/22 TAD
162	12/10/09	37.71	4	15.1	5.03	12-16/1:50	32.68	16.5	21.2	69	182	Developed 12/16 TD/FP
164	12/04/09	37.26	4	15.5	4.87	12-16/2:35	32.39	16.9	21.1	50	164	Developed 12/16 TD/FP
165	11/13/09	37.30	4	15.1	4.41	11-30/3:36	32.89	16.5	21.4	60	174	Developed 11/30 TD/SK
167	10/05/09	37.10	2	14.8	2.27	11-3/1:25	34.83	6.4	5.6	48	84	Developed 11/3
169	12/02/09	37.93	4	15.5	7.03	12-16/11:01	30.90	16.9	20.1	60	171	Developed 12/16 TD/FP
171	12/02/09	37.70	2	15.0	6.25	12-17/2:54	31.45	6.5	5.0	40	74	Developed 12/17 TD
173	12/12/09	37.91	2	14.1	6.47	12-22/10:08	31.44	6.1	5.0	50	83	Developed 12/22 TD

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Well	Date	Total Depth	Csg Dia.	Filter Sand Hgt	Initial WL		Water Column Height	Annular Volume	Casing Volume	Tremie Volume	Total Purge Volume	Remarks
					(BTOC)	Date/Time						
175	12/15/09	37.79	2	15.7	6.07	12-22/8:50	31.72	6.8	5.1	56	91	Developed 12/22 TD
177	11/13/09	37.16	2	14.6	7.65	12-22/12:57	29.51	6.3	4.7	41	74	Developed 12/22 SK
179	12/03/09	37.97	2	15.6	6.54	12-17/1:38	31.43	6.7	5.0	47	82	Developed 12/17 TD
181	12/03/09	37.50	2	15.2	6.80	12-17/11:04	30.70	6.5	4.9	44	78	Developed 12/17 TD
183	12/11/09	37.72	2	15.4	5.85	12-21/3:19	31.87	6.6	5.1	40	75	Developed 12/21 TD
185	12/15/09	37.97	2	14.5	6.31	12-21/4:25	31.66	6.2	5.1	50	84	Developed 12/21 TD
187	10/28/09	36.42	2	14.4	3.32	12-1/12:45	33.10	6.2	5.3	60	94	Developed 12/1 SK
189	10/12/09	37.11	2	15.8	3.63	11-3/11:56	33.48	6.8	5.4	25	61	Developed 11/3
191	12/03/09	37.68	2	15.2	6.56	12-17/9:44	31.12	6.5	5.0	44	79	Developed 12/17 TD
193	12/04/09	37.19	4	15.5	6.01	12-16/10:14	31.18	16.9	20.3	53	164	Developed 12/16 TD/FP
195	12/11/09	38.14	2	14.6	5.90	12-21/1:49	32.24	6.3	5.2	50	84	Developed 12/21 TD
197	12/05/09	37.12	4	15.4	4.85	12-16/1:02	32.27	16.8	21.0	52	165	Developed 12/16 TD/FP
199	12/01/09	37.72	4	15.1	7.40	12-16/8:54	30.32	16.5	19.7	56	165	Developed 12/16 TD/FP
201	12/01/09	38.16	2	15.0	6.71	12-17/7:52	31.45	6.5	5.0	38	72	Developed 12/17 TD

Conversions:

Water Column Height = Total Depth - Initial WL

For 2" wells

Annular Volume = filter sand hgt X 0.43

Casing Volume = water column hgt X 0.16

For 4" wells

Annular Volume = filter sand hgt X 1.09

Casing Volume = water column hgt X 0.65

Purge Volume = ((Annular Vol + Csg Volume)*3)+Tremie Volume

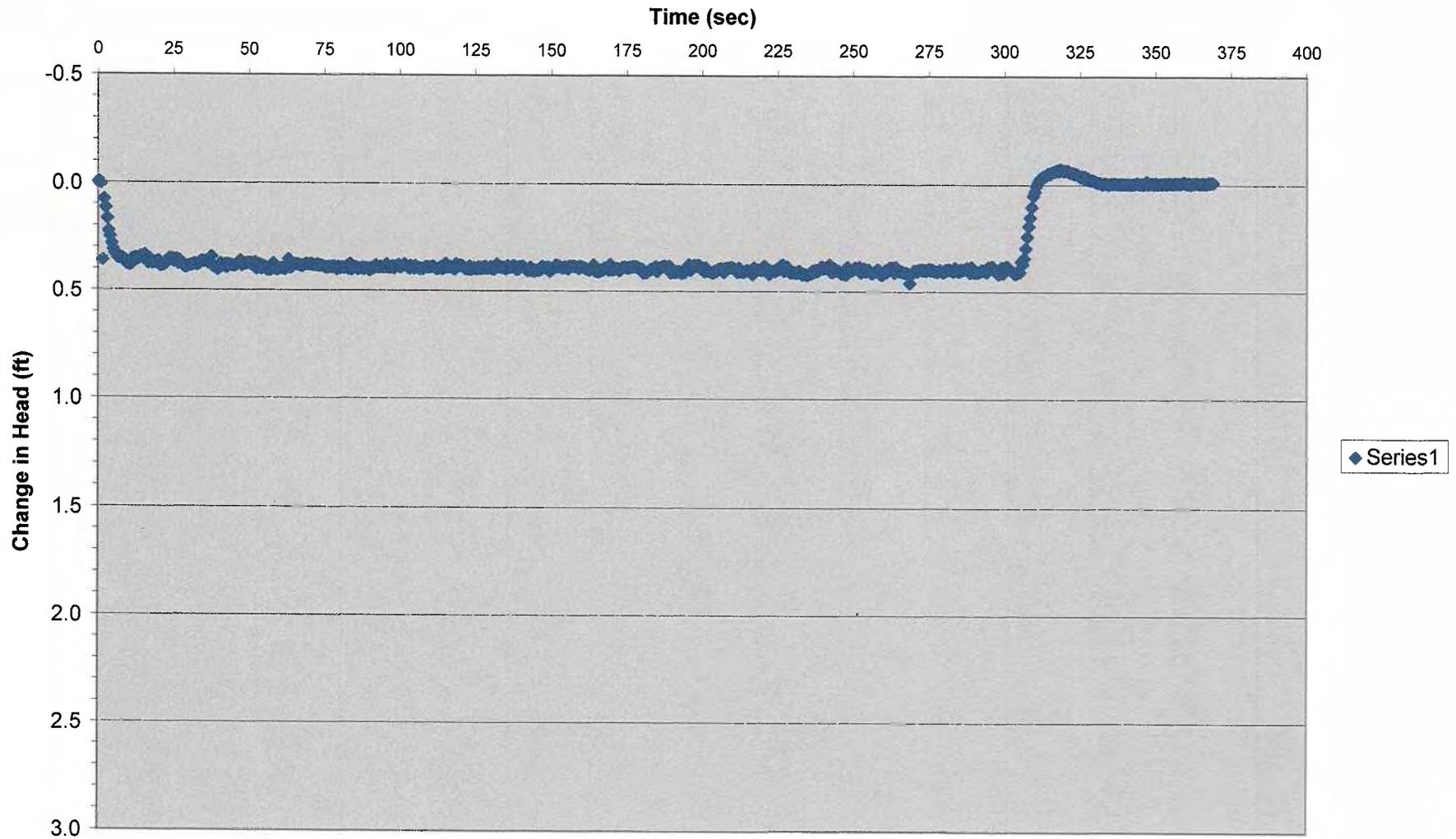
Appendix 9

Aquifer Test Data

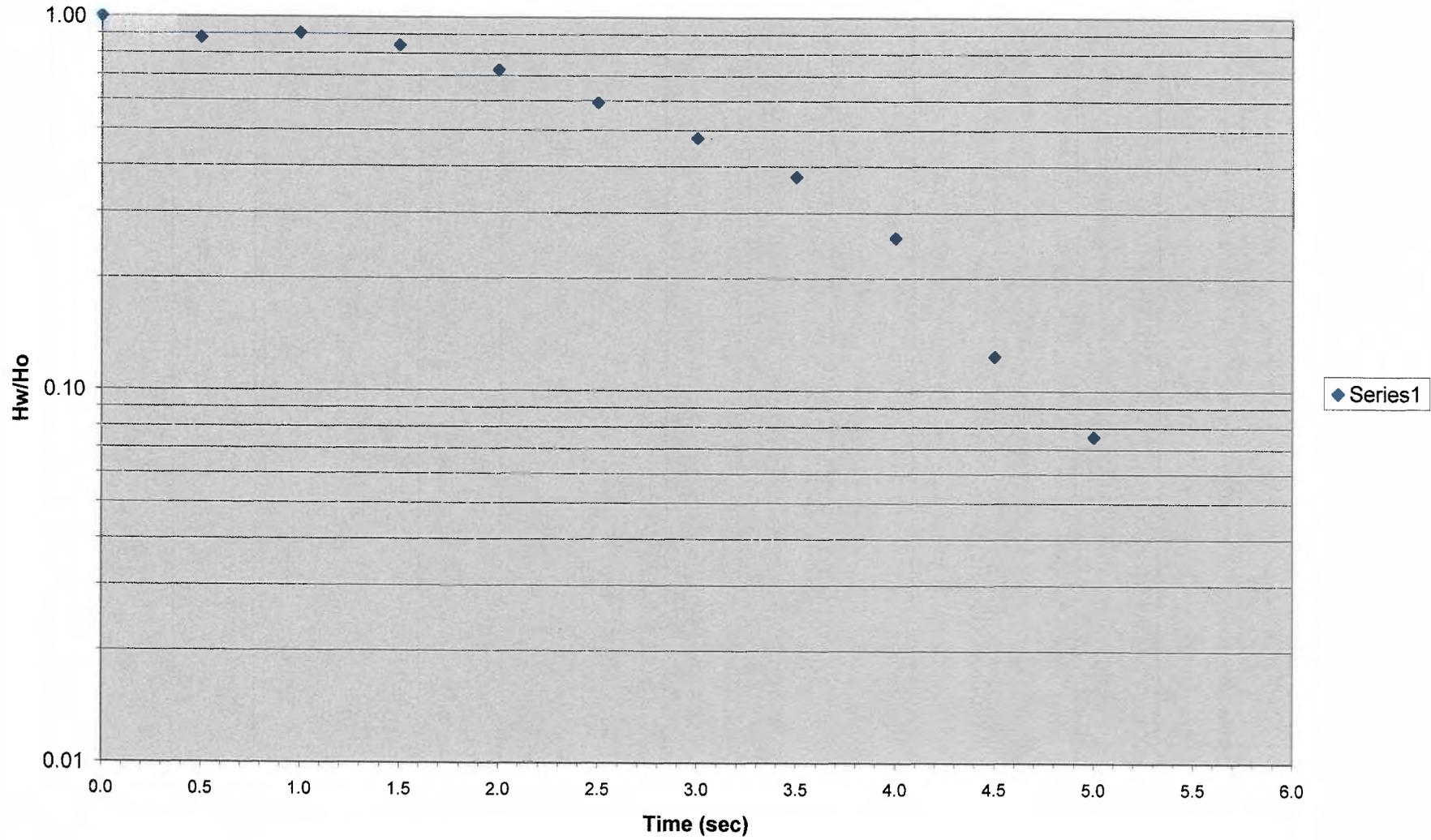
Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant

Prepared by: GREDELL Engineering Resources, Inc.

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P9



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P9



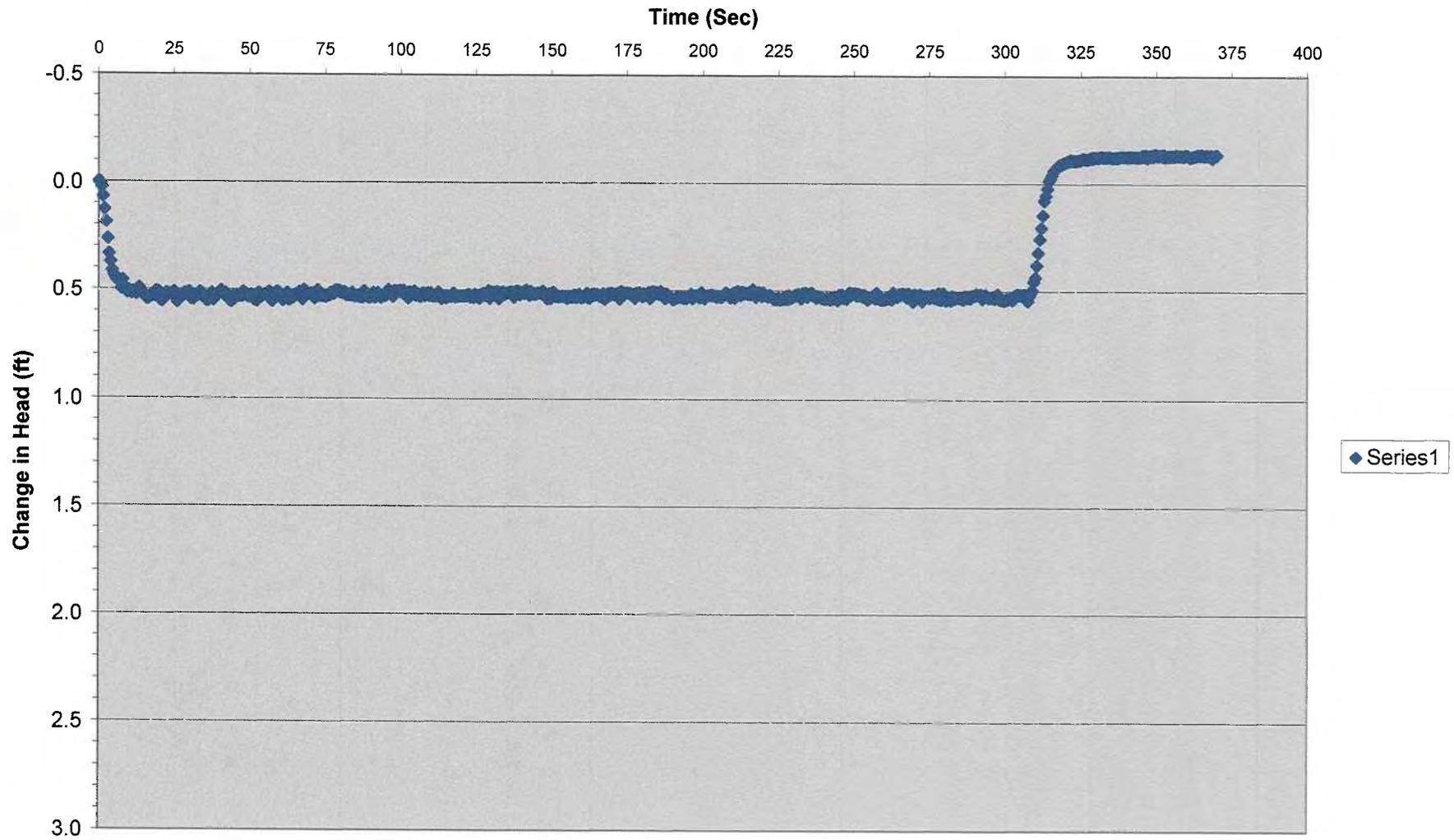
**Detailed Site Investigation
Proposed Utility Waste Disposal Area
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Franklin County, Missouri**

Recovery Data Table for P-9 Aquifer Test

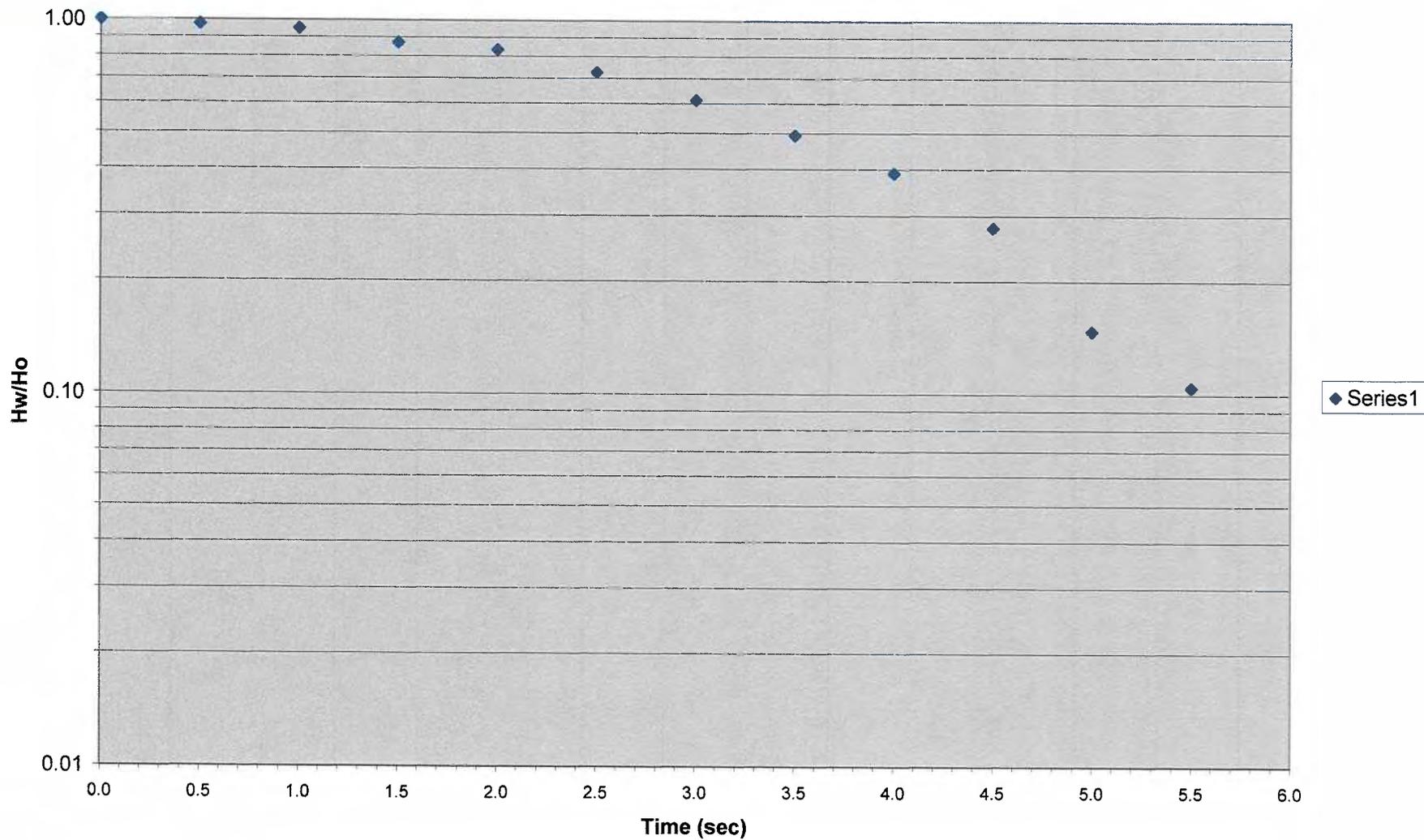
H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Feet	Relative Change Feet	
						0.0	15.6000	7.2841	0.000	SWL=
						0.5	15.5978	7.2862	-0.002	Pump On
0.406	0.41	0.0	1.00	0.00	0.0	0.0	16.0061	6.8779	0.406	Pump Off
0.406	0.36	0.5	0.88	-0.06	0.5	0.5	15.9565	6.9275	0.357	
0.406	0.37	1.0	0.91	-0.04	1.0	1.0	15.9676	6.9164	0.368	
0.406	0.34	1.5	0.84	-0.08	1.5	1.5	15.9415	6.9425	0.341	
0.406	0.29	2.0	0.73	-0.14	2.0	2.0	15.8944	6.9896	0.294	
0.406	0.24	2.5	0.59	-0.23	2.5	2.5	15.8408	7.0432	0.241	
0.406	0.19	3.0	0.48	-0.32	3.0	3.0	15.7933	7.0907	0.193	
0.406	0.15	3.5	0.38	-0.43	3.5	3.5	15.7523	7.1317	0.152	
0.406	0.10	4.0	0.26	-0.59	4.0	4.0	15.7044	7.1796	0.104	
0.406	0.05	4.5	0.12	-0.91	4.5	4.5	15.6501	7.2339	0.050	88% Recovery
0.406	0.03	5.0	0.08	-1.12	5.0	5.0	15.6307	7.2533	0.031	92% Recovery
0.406	0.01	5.5	0.01	-1.85	5.5	5.5	15.6058	7.2782	0.006	99% Recovery

15.60

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P19



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P19

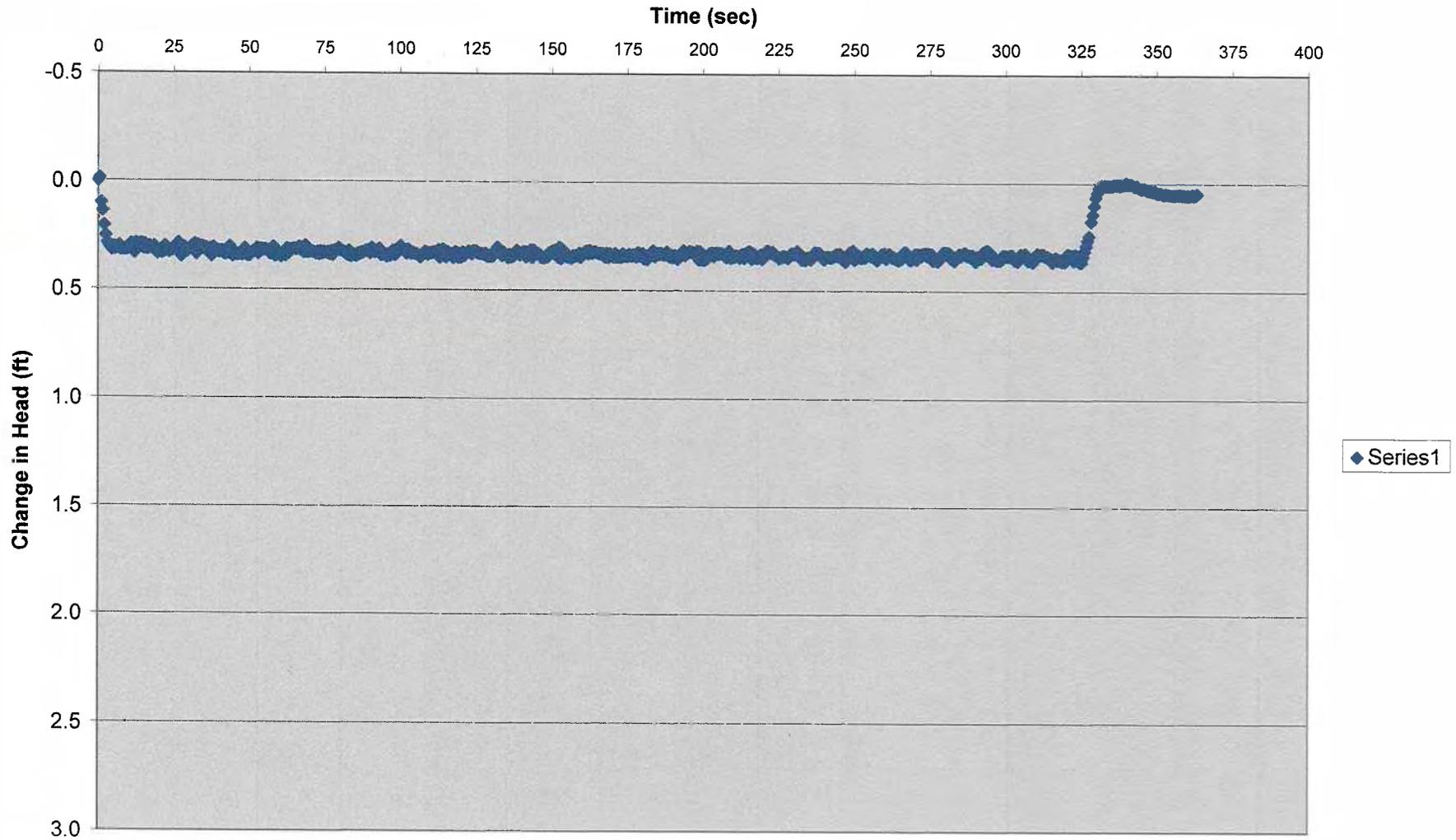


**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

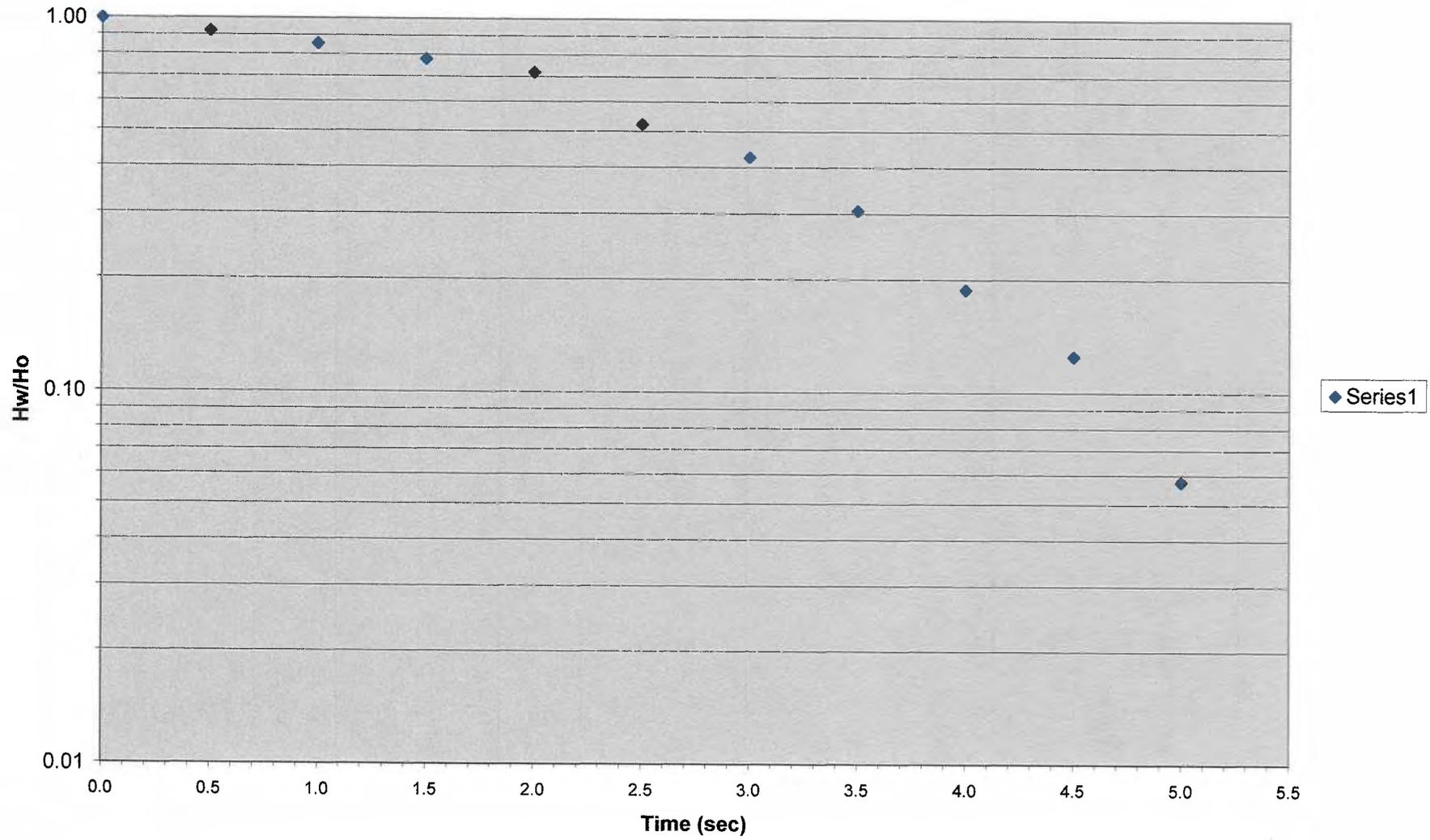
Recovery Data Table for P-19 Aquifer Test

H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Feet	Relative Change Feet	
						0.0	11.43	6.07	0.000	SWL= 11.43
						0.5	11.43	6.07	0.002	Pump On
						0.0	11.95	5.55	0.520	Pump Off
						0.5	11.94	5.57	0.507	
						1.0	11.92	5.58	0.494	
						1.5	11.88	5.62	0.453	
						2.0	11.86	5.64	0.434	
						2.5	11.81	5.70	0.378	
						3.0	11.75	5.76	0.319	
						3.5	11.69	5.82	0.256	
						4.0	11.63	5.87	0.203	
						4.5	11.57	5.93	0.145	
						5.0	11.51	6.00	0.077	
						5.5	11.48	6.02	0.054	90% Recovery
						6.0	11.45	6.05	0.020	96% Recovery
0.520	0.52	0.0	1.00	0.00	0.0					
0.520	0.51	0.5	0.97	-0.01	0.5					
0.520	0.49	1.0	0.95	-0.02	1.0					
0.520	0.45	1.5	0.87	-0.06	1.5					
0.520	0.43	2.0	0.83	-0.08	2.0					
0.520	0.38	2.5	0.73	-0.14	2.5					
0.520	0.32	3.0	0.61	-0.21	3.0					
0.520	0.26	3.5	0.49	-0.31	3.5					
0.520	0.20	4.0	0.39	-0.41	4.0					
0.520	0.14	4.5	0.28	-0.55	4.5					
0.520	0.08	5.0	0.15	-0.83	5.0					
0.520	0.05	5.5	0.10	-0.98	5.5					
0.520	0.02	6.0	0.04	-1.40	6.0					

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P22



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P22

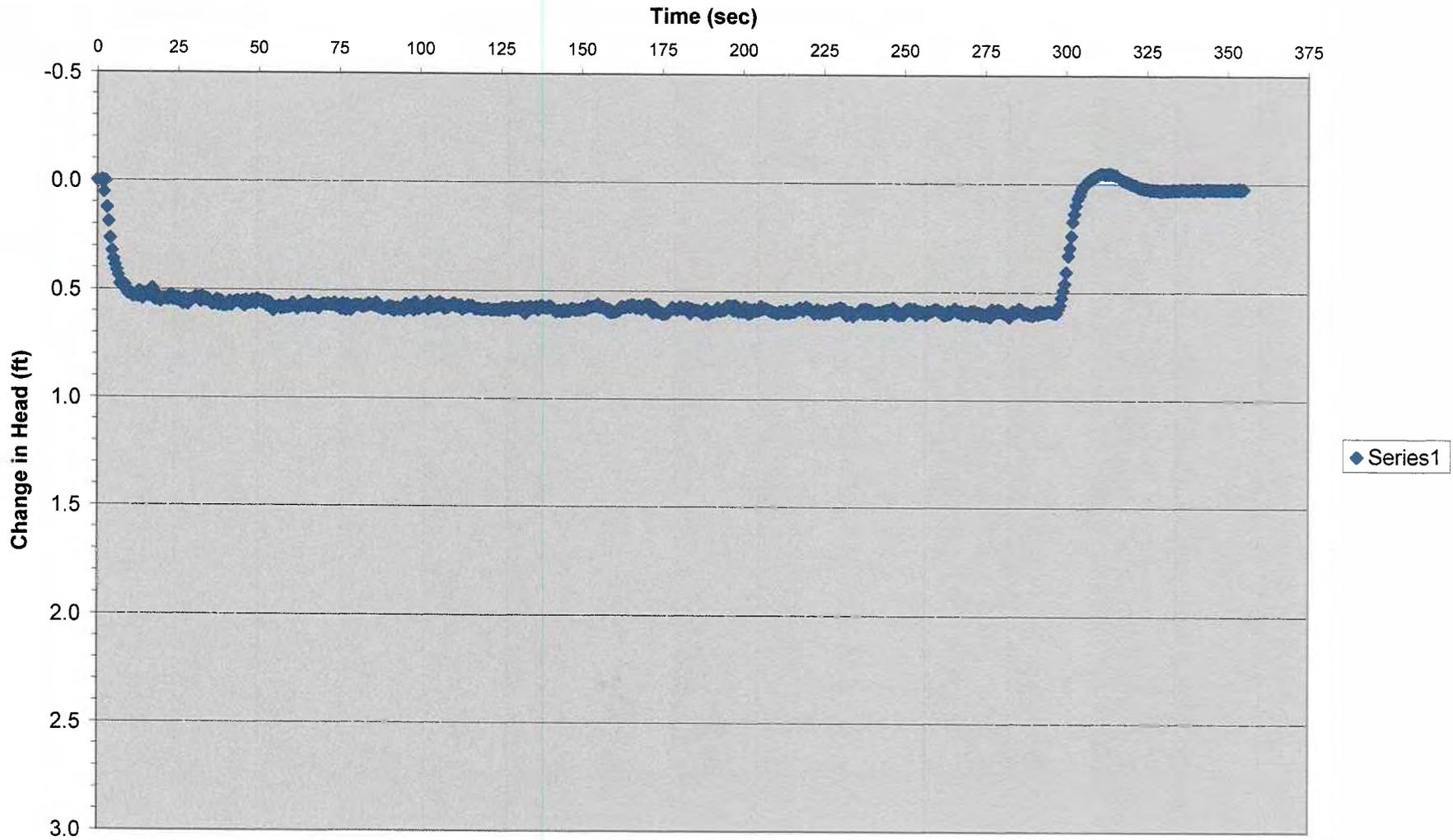


**Detailed Site Investigation
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Ameren Labadie Power Plant
Franklin County, Missouri**

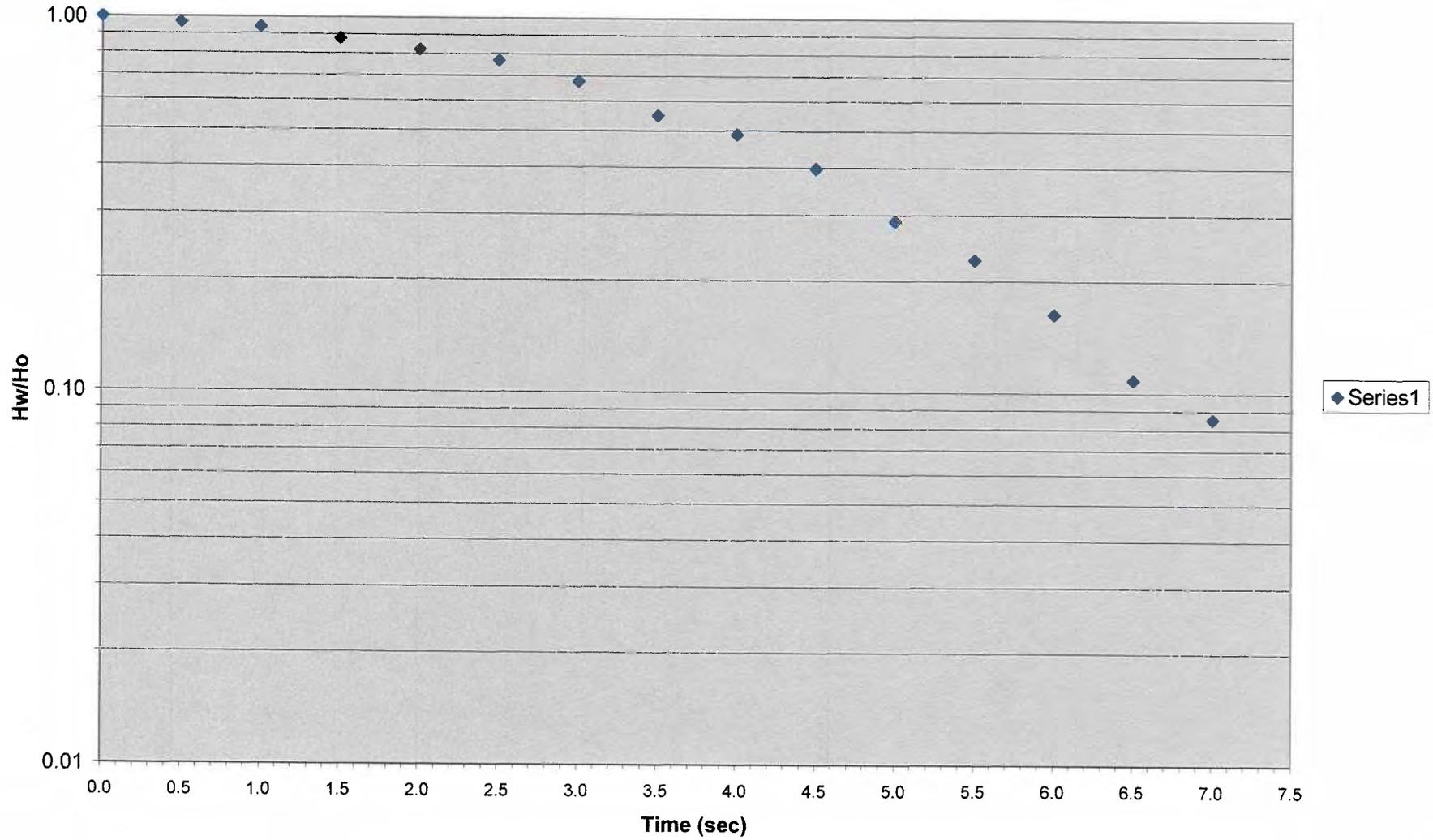
Recovery Data Table for P-22 Aquifer Test

H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Feet	Relative Change Feet	
						0.0	12.36	6.00	0.000	SWL= 12.36
						0.5	12.35	6.02	-0.012	Pump On
0.338	0.34	0.0	1.00	0.00	0.0	0.0	12.70	5.67	0.338	Pump Off
0.338	0.31	0.5	0.92	-0.04	0.5	0.5	12.67	5.69	0.313	
0.338	0.29	1.0	0.85	-0.07	1.0	1.0	12.65	5.72	0.289	
0.338	0.26	1.5	0.78	-0.11	1.5	1.5	12.62	5.74	0.264	
0.338	0.24	2.0	0.72	-0.14	2.0	2.0	12.60	5.76	0.244	
0.338	0.18	2.5	0.52	-0.28	2.5	2.5	12.54	5.83	0.177	
0.338	0.14	3.0	0.42	-0.37	3.0	3.0	12.50	5.86	0.144	
0.338	0.10	3.5	0.31	-0.52	3.5	3.5	12.46	5.90	0.104	
0.338	0.06	4.0	0.19	-0.73	4.0	4.0	12.42	5.94	0.064	
0.338	0.04	4.5	0.13	-0.90	4.5	4.5	12.40	5.96	0.043	
0.338	0.02	5.0	0.06	-1.24	5.0	5.0	12.38	5.98	0.020	94% Recovery
0.338	0.01	5.5	0.04	-1.43	5.5	5.5	12.37	5.99	0.013	96% Recovery
0.338	0.01	6.0	0.02	-1.67	6.0	6.0	12.37	6.00	0.008	
0.338	0.01	6.5	0.04	-1.44	6.5	6.5	12.37	5.99	0.013	
0.338	0.01	7.0	0.02	-1.66	7.0	7.0	12.37	6.00	0.008	
0.338	0.01	7.5	0.03	-1.49	7.5	7.5	12.37	5.99	0.012	
0.338	0.01	8.0	0.03	-1.57	8.0	8.0	12.37	5.99	0.010	
0.338	0.01	8.5	0.03	-1.50	8.5	8.5	12.37	5.99	0.012	
0.338	0.01	9.0	0.03	-1.50	9.0	9.0	12.37	5.99	0.012	
0.338	0.01	9.5	0.03	-1.53	9.5	9.5	12.37	5.99	0.011	
0.338	0.01	10.0	0.02	-1.76	10.0	10.0	12.37	6.00	0.007	
0.338	0.01	10.5	0.02	-1.75	10.5	10.5	12.37	6.00	0.007	
0.338	0.01	11.0	0.02	-1.72	11.0	11.0	12.37	6.00	0.007	
0.338	0.00	11.5	0.01	-1.92	11.5	11.5	12.36	6.00	0.005	99% Recovery

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P31



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P31

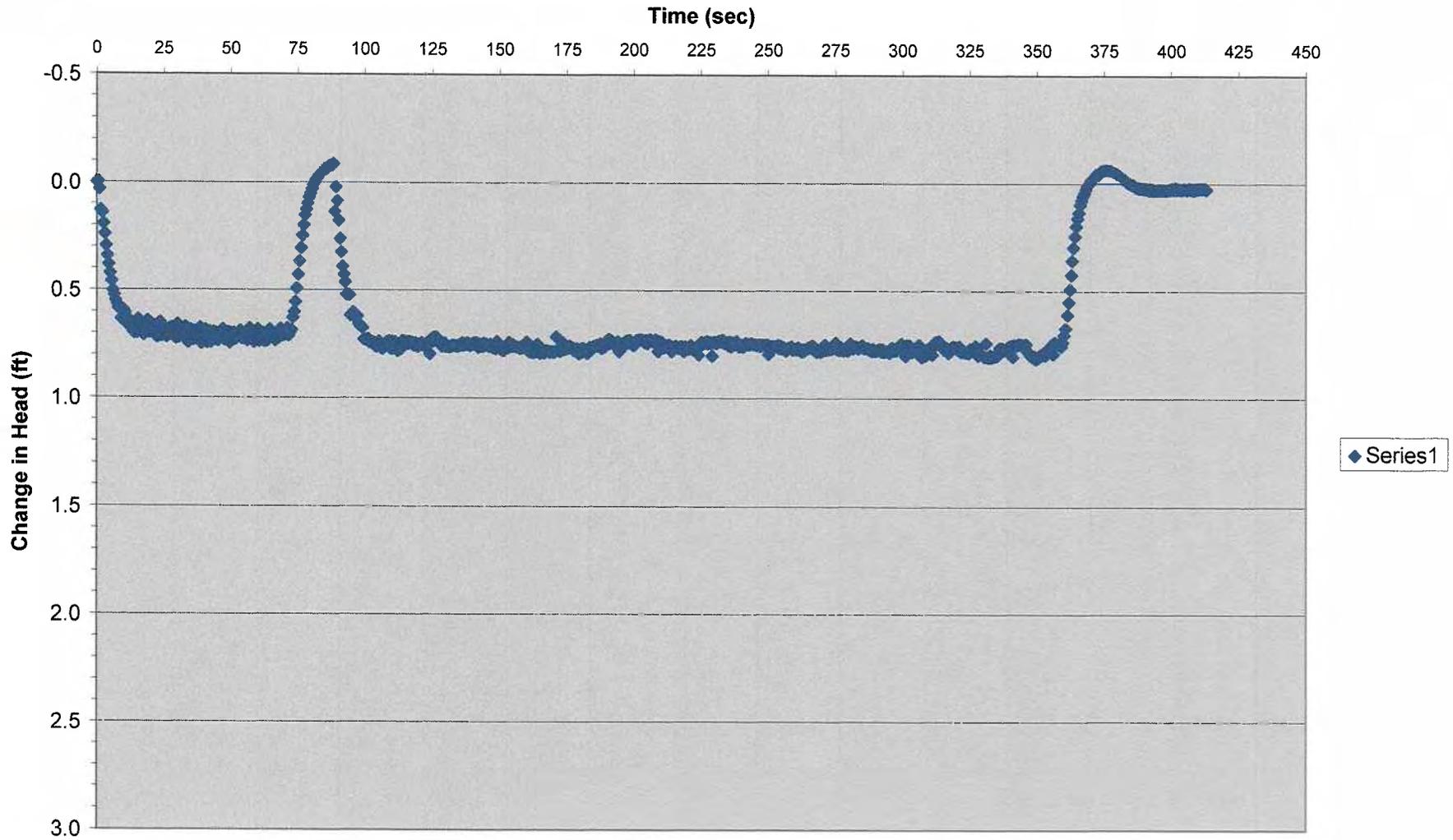


**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

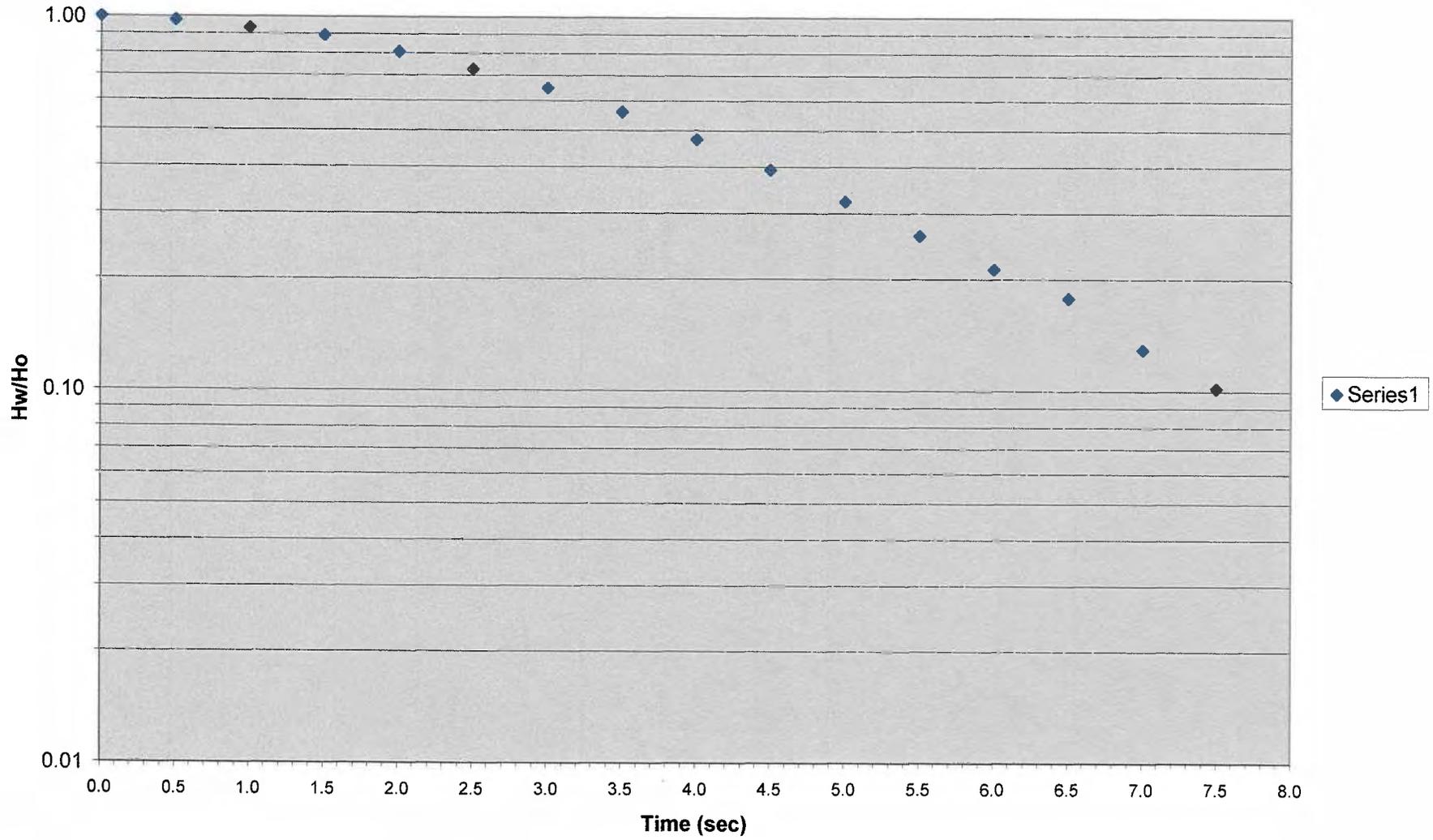
Recovery Data Table for P-31 Aquifer Test

H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Feet	Relative Change Feet	
						0.0	11.23	11.68	0.000	SWL= 11.23
						0.5	11.24	11.68	0.005	Pump On
						0.0	11.82	11.09	0.595	Pump Off
0.595	0.59	0.0	1.00	0.00	0.0	0.5	11.80	11.11	0.574	
0.595	0.57	0.5	0.96	-0.02	0.5	1.0	11.79	11.13	0.557	
0.595	0.56	1.0	0.94	-0.03	1.0	1.5	11.75	11.16	0.523	
0.595	0.52	1.5	0.88	-0.06	1.5	2.0	11.72	11.19	0.490	
0.595	0.49	2.0	0.82	-0.08	2.0	2.5	11.69	11.23	0.456	
0.595	0.46	2.5	0.77	-0.12	2.5	3.0	11.63	11.28	0.403	
0.595	0.40	3.0	0.68	-0.17	3.0	3.5	11.56	11.36	0.326	
0.595	0.33	3.5	0.55	-0.26	3.5	4.0	11.52	11.39	0.290	
0.595	0.29	4.0	0.49	-0.31	4.0	4.5	11.47	11.45	0.237	
0.595	0.24	4.5	0.40	-0.40	4.5	5.0	11.40	11.51	0.172	
0.595	0.17	5.0	0.29	-0.54	5.0	5.5	11.37	11.55	0.135	
0.595	0.14	5.5	0.23	-0.64	5.5	6.0	11.33	11.59	0.097	
0.595	0.10	6.0	0.16	-0.79	6.0	6.5	11.29	11.62	0.065	
0.595	0.06	6.5	0.11	-0.96	6.5	7.0	11.28	11.63	0.051	91% Recovery
0.595	0.05	7.0	0.09	-1.07	7.0	7.5	11.26	11.65	0.030	95% Recovery
0.595	0.03	7.5	0.05	-1.29	7.5	8.0	11.25	11.67	0.015	
0.595	0.02	8.0	0.03	-1.60	8.0	8.5	11.24	11.68	0.006	99% Recovery
0.595	0.01	8.5	0.01	-1.96	8.5	9.0	11.23	11.68	0.000	
0.595	0.00	9.0	0.00	-3.17	9.0					

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P42



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P42

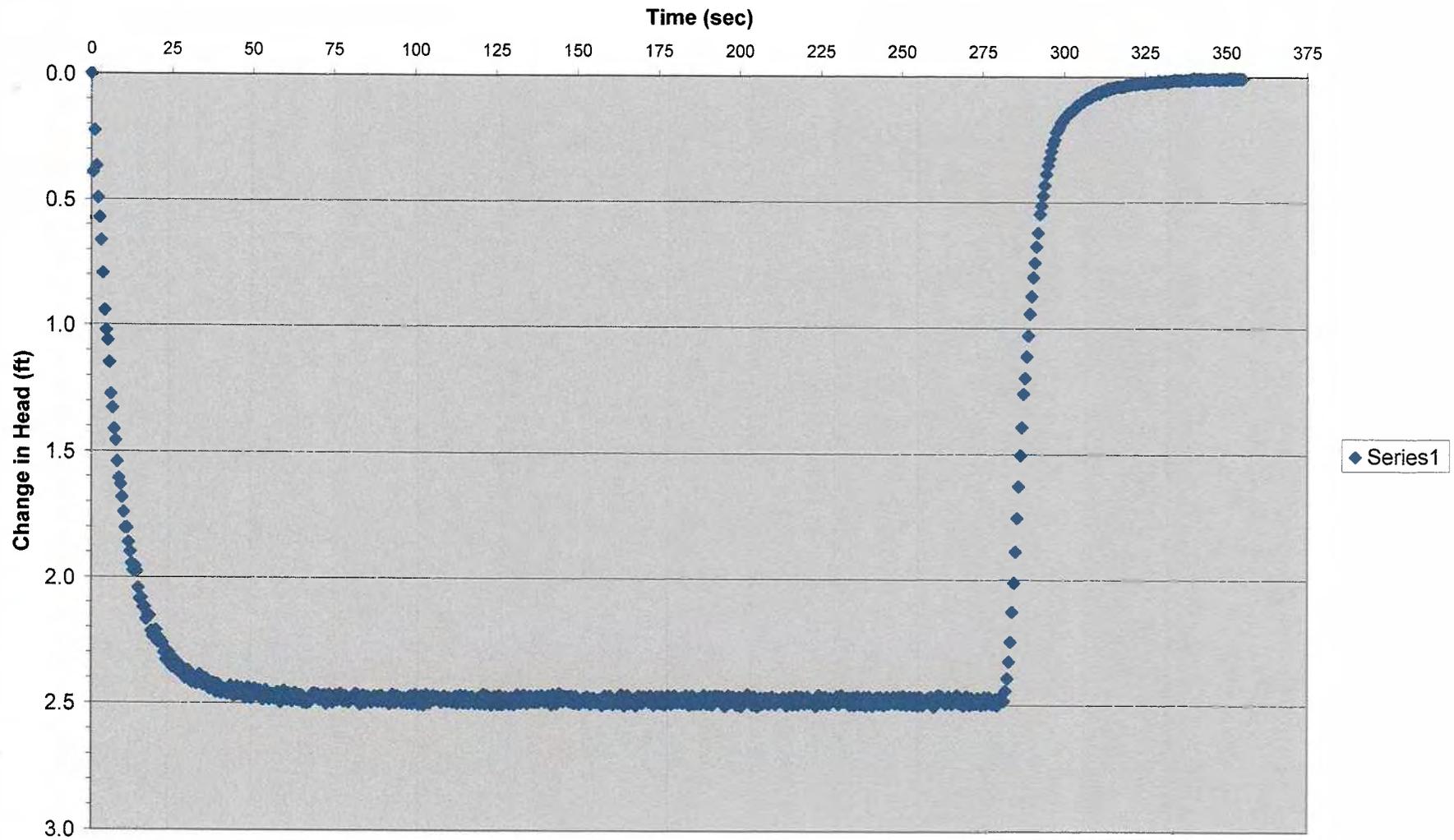


**Detailed Site Investigation
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Ameren Labadie Power Plant
Franklin County, Missouri**

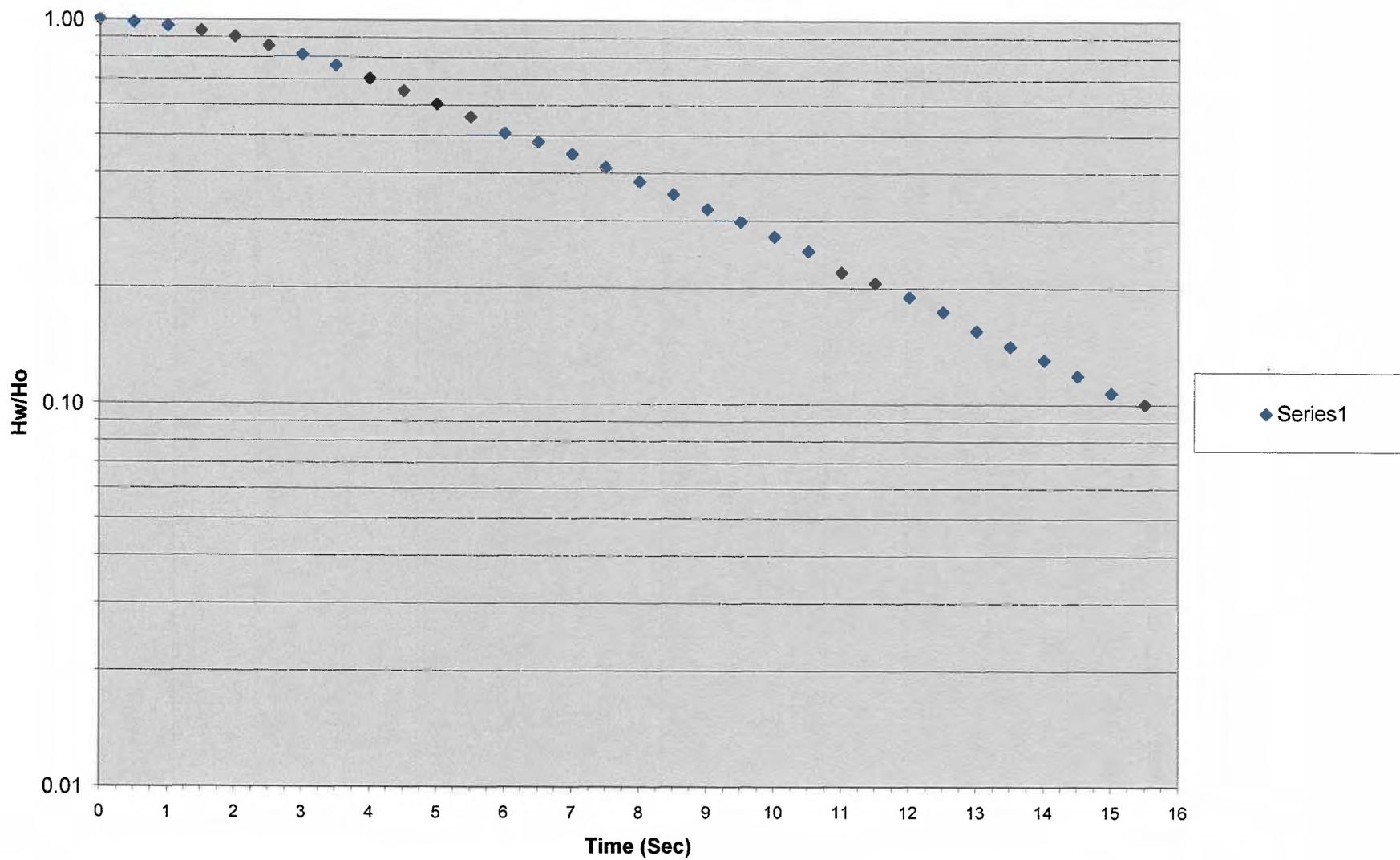
Recovery Data Table for P-42 Aquifer Test

H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Feet	Relative Change Feet	
						0.0	10.52	6.32	0.000	SWL= 10.52
						0.5	10.52	6.32	-0.002	Pump On
						0.0	11.28	5.56	0.755	Pump Off
0.755	0.76	0.0	1.00	0.00	0.0	0.5	11.26	5.58	0.737	
0.755	0.74	0.5	0.98	-0.01	0.5	1.0	11.22	5.61	0.704	
0.755	0.70	1.0	0.93	-0.03	1.0	1.5	11.19	5.65	0.673	
0.755	0.67	1.5	0.89	-0.05	1.5	2.0	11.13	5.71	0.609	
0.755	0.61	2.0	0.81	-0.09	2.0	2.5	11.07	5.77	0.549	
0.755	0.55	2.5	0.73	-0.14	2.5	3.0	11.01	5.83	0.489	
0.755	0.49	3.0	0.65	-0.19	3.0	3.5	10.94	5.90	0.423	
0.755	0.42	3.5	0.56	-0.25	3.5	4.0	10.88	5.96	0.357	
0.755	0.36	4.0	0.47	-0.32	4.0	4.5	10.82	6.02	0.297	
0.755	0.30	4.5	0.39	-0.41	4.5	5.0	10.76	6.08	0.244	
0.755	0.24	5.0	0.32	-0.49	5.0	5.5	10.72	6.12	0.197	
0.755	0.20	5.5	0.26	-0.58	5.5	6.0	10.68	6.16	0.161	
0.755	0.16	6.0	0.21	-0.67	6.0	6.5	10.65	6.18	0.134	
0.755	0.13	6.5	0.18	-0.75	6.5	7.0	10.62	6.22	0.098	
0.755	0.10	7.0	0.13	-0.89	7.0	7.5	10.60	6.24	0.077	90% Recovery
0.755	0.08	7.5	0.10	-0.99	7.5	8.0	10.58	6.26	0.057	
0.755	0.06	8.0	0.08	-1.12	8.0	8.5	10.56	6.28	0.043	
0.755	0.04	8.5	0.06	-1.24	8.5	9.0	10.55	6.29	0.027	96% Recovery
0.755	0.03	9.0	0.04	-1.45	9.0	9.5	10.53	6.31	0.011	99% Recovery
0.755	0.01	9.5	0.01	-1.83	9.5	10.0	10.52	6.31	0.004	
0.755	0.00	10.0	0.01	-2.26	10.0					

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P53



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P53



**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

Recovery Data Table for P-53 Aquifer Test

H _o (ft)	H _w (ft)	ET (s)	H _w /H _o	ET (s)	Log(H _w /H _o)	ET Seconds	SWL (ft, btoc)	Depth (in)	Depth (ft)	Relative Change	
										Feet	
						0.0	7.57	104.630	8.719	0.000	SWL= 7.57
						0.5	7.96	99.940	8.328	0.391	Pump On
2.482	2.48	0.0	1.00	0.0	0.00	0.0	10.05	74.842	6.237	2.482	Pump Off
2.482	2.44	0.5	0.98	0.5	-0.01	0.5	10.01	75.314	6.276	2.443	
2.482	2.39	1.0	0.96	1.0	-0.02	1.0	9.96	75.900	6.325	2.394	
2.482	2.33	1.5	0.94	1.5	-0.03	1.5	9.90	76.704	6.392	2.327	
2.482	2.25	2.0	0.91	2.0	-0.04	2.0	9.82	77.660	6.472	2.247	
2.482	2.13	2.5	0.86	2.5	-0.07	2.5	9.70	79.101	6.592	2.127	
2.482	2.01	3.0	0.81	3.0	-0.09	3.0	9.58	80.491	6.708	2.011	
2.482	1.89	3.5	0.76	3.5	-0.12	3.5	9.46	81.992	6.833	1.886	
2.482	1.75	4.0	0.71	4.0	-0.15	4.0	9.32	83.601	6.967	1.752	
2.482	1.63	4.5	0.66	4.5	-0.18	4.5	9.20	85.107	7.092	1.627	
2.482	1.50	5.0	0.61	5.0	-0.22	5.0	9.07	86.586	7.215	1.504	
2.482	1.39	5.5	0.56	5.5	-0.25	5.5	8.96	87.930	7.328	1.391	
2.482	1.26	6.0	0.51	6.0	-0.30	6.0	8.83	89.535	7.461	1.258	
2.482	1.19	6.5	0.48	6.5	-0.32	6.5	8.76	90.290	7.524	1.195	
2.482	1.11	7.0	0.45	7.0	-0.35	7.0	8.68	91.303	7.609	1.110	
2.482	1.03	7.5	0.41	7.5	-0.38	7.5	8.60	92.299	7.692	1.027	
2.482	0.94	8.0	0.38	8.0	-0.42	8.0	8.51	93.327	7.777	0.942	
2.482	0.87	8.5	0.35	8.5	-0.45	8.5	8.44	94.152	7.846	0.873	
2.482	0.80	9.0	0.32	9.0	-0.49	9.0	8.37	95.043	7.920	0.799	
2.482	0.74	9.5	0.30	9.5	-0.53	9.5	8.31	95.752	7.979	0.740	
2.482	0.68	10.0	0.27	10.0	-0.57	10.0	8.25	96.522	8.043	0.676	
2.482	0.62	10.5	0.25	10.5	-0.60	10.5	8.19	97.194	8.100	0.619	
2.482	0.55	11.0	0.22	11.0	-0.66	11.0	8.12	98.084	8.174	0.545	
2.482	0.51	11.5	0.21	11.5	-0.69	11.5	8.08	98.486	8.207	0.512	
2.482	0.47	12.0	0.19	12.0	-0.72	12.0	8.04	98.974	8.248	0.471	
2.482	0.43	12.5	0.17	12.5	-0.76	12.5	8.00	99.456	8.288	0.431	
2.482	0.39	13.0	0.16	13.0	-0.81	13.0	7.96	99.996	8.333	0.386	
2.482	0.35	13.5	0.14	13.5	-0.85	13.5	7.92	100.408	8.367	0.352	
2.482	0.32	14.0	0.13	14.0	-0.88	14.0	7.89	100.730	8.394	0.325	
2.482	0.30	14.5	0.12	14.5	-0.92	14.5	7.87	101.084	8.424	0.295	
2.482	0.27	15.0	0.11	15.0	-0.97	15.0	7.84	101.423	8.452	0.267	

**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

Recovery Data Table for P-53 Aquifer Test

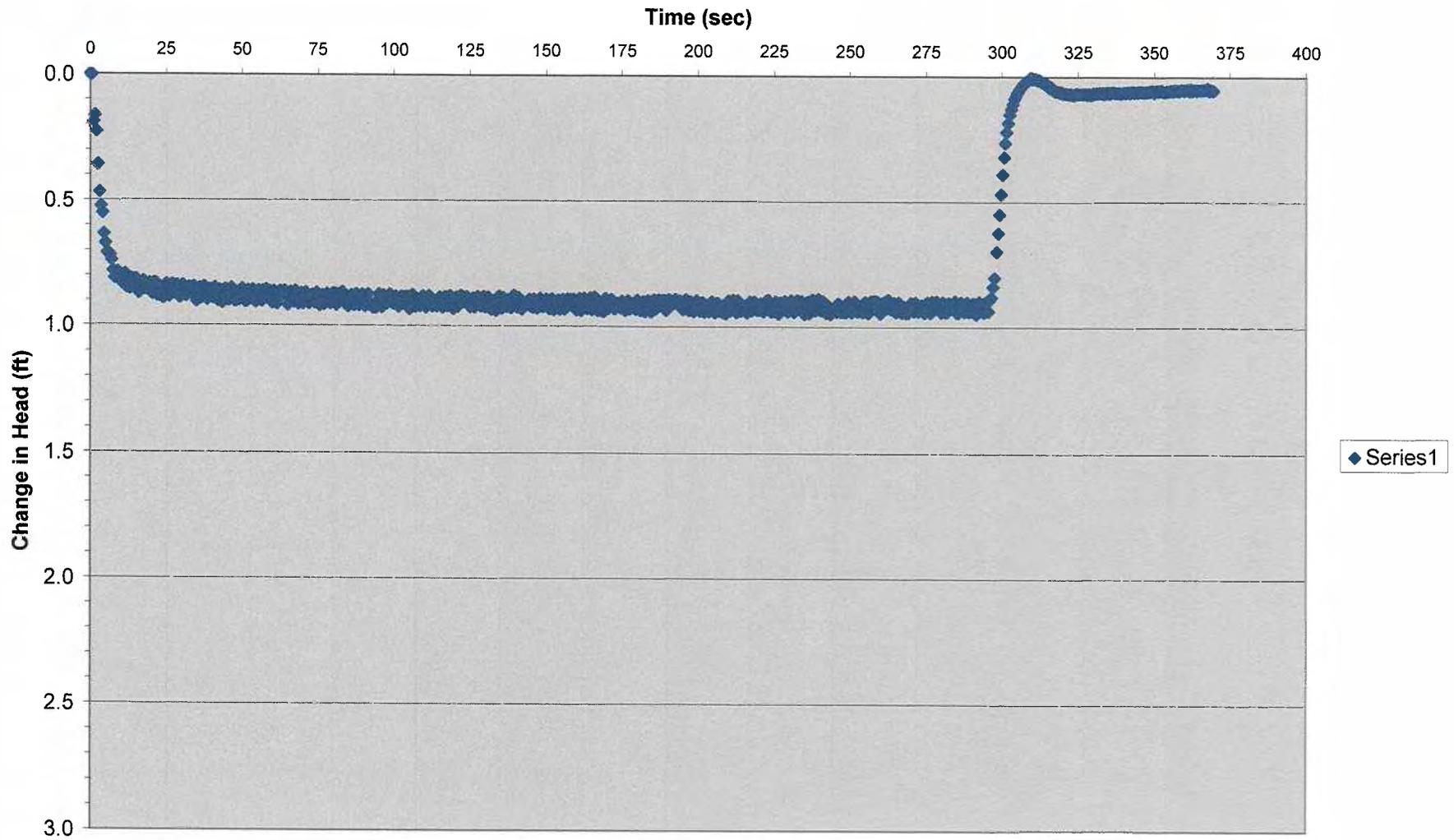
2.482	0.25	15.5	0.10	15.5	-1.00	15.5	7.82	101.635	8.470	0.249	90% Recovery
2.482	0.22	16.0	0.09	16.0	-1.05	16.0	7.79	101.992	8.499	0.220	
2.482	0.21	16.5	0.08	16.5	-1.07	16.5	7.78	102.114	8.509	0.210	
2.482	0.20	17.0	0.08	17.0	-1.10	17.0	7.77	102.246	8.521	0.198	
2.482	0.18	17.5	0.07	17.5	-1.14	17.5	7.75	102.448	8.537	0.182	
2.482	0.18	18.0	0.07	18.0	-1.15	18.0	7.75	102.515	8.543	0.176	
2.482	0.16	18.5	0.07	18.5	-1.18	18.5	7.73	102.659	8.555	0.164	
2.482	0.16	19.0	0.06	19.0	-1.20	19.0	7.73	102.750	8.562	0.157	
2.482	0.15	19.5	0.06	19.5	-1.22	19.5	7.72	102.819	8.568	0.151	
2.482	0.14	20.0	0.06	20.0	-1.25	20.0	7.71	102.943	8.579	0.140	
2.482	0.14	20.5	0.06	20.5	-1.25	20.5	7.71	102.956	8.580	0.139	
2.482	0.13	21.0	0.05	21.0	-1.27	21.0	7.70	103.040	8.587	0.132	95% Recovery
2.482	0.13	21.5	0.05	21.5	-1.28	21.5	7.70	103.075	8.590	0.129	
2.482	0.12	22.0	0.05	22.0	-1.31	22.0	7.69	103.181	8.598	0.121	
2.482	0.11	22.5	0.05	22.5	-1.35	22.5	7.68	103.286	8.607	0.112	
2.482	0.11	23.0	0.04	23.0	-1.35	23.0	7.68	103.310	8.609	0.110	
2.482	0.10	23.5	0.04	23.5	-1.38	23.5	7.67	103.373	8.614	0.105	
2.482	0.10	24.0	0.04	24.0	-1.40	24.0	7.67	103.450	8.621	0.098	
2.482	0.10	24.5	0.04	24.5	-1.40	24.5	7.67	103.450	8.621	0.098	
2.482	0.09	25.0	0.04	25.0	-1.45	25.0	7.66	103.566	8.630	0.089	
2.482	0.09	25.5	0.04	25.5	-1.45	25.5	7.66	103.583	8.632	0.087	
2.482	0.08	26.0	0.03	26.0	-1.48	26.0	7.65	103.632	8.636	0.083	
2.482	0.08	26.5	0.03	26.5	-1.48	26.5	7.65	103.644	8.637	0.082	
2.482	0.08	27.0	0.03	27.0	-1.50	27.0	7.65	103.691	8.641	0.078	
2.482	0.07	27.5	0.03	27.5	-1.55	27.5	7.64	103.786	8.649	0.070	
2.482	0.07	28.0	0.03	28.0	-1.55	28.0	7.64	103.789	8.649	0.070	
2.482	0.06	28.5	0.03	28.5	-1.59	28.5	7.63	103.868	8.656	0.063	
2.482	0.06	29.0	0.02	29.0	-1.61	29.0	7.63	103.893	8.658	0.061	
2.482	0.07	29.5	0.03	29.5	-1.57	29.5	7.64	103.826	8.652	0.067	
2.482	0.06	30.0	0.02	30.0	-1.65	30.0	7.63	103.955	8.663	0.056	
2.482	0.06	30.5	0.02	30.5	-1.65	30.5	7.63	103.964	8.664	0.055	
2.482	0.05	31.0	0.02	31.0	-1.67	31.0	7.62	103.993	8.666	0.053	
2.482	0.06	31.5	0.02	31.5	-1.65	31.5	7.63	103.966	8.664	0.055	
2.482	0.04	32.0	0.02	32.0	-1.74	32.0	7.61	104.090	8.674	0.045	
2.482	0.05	32.5	0.02	32.5	-1.70	32.5	7.62	104.036	8.670	0.049	

**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

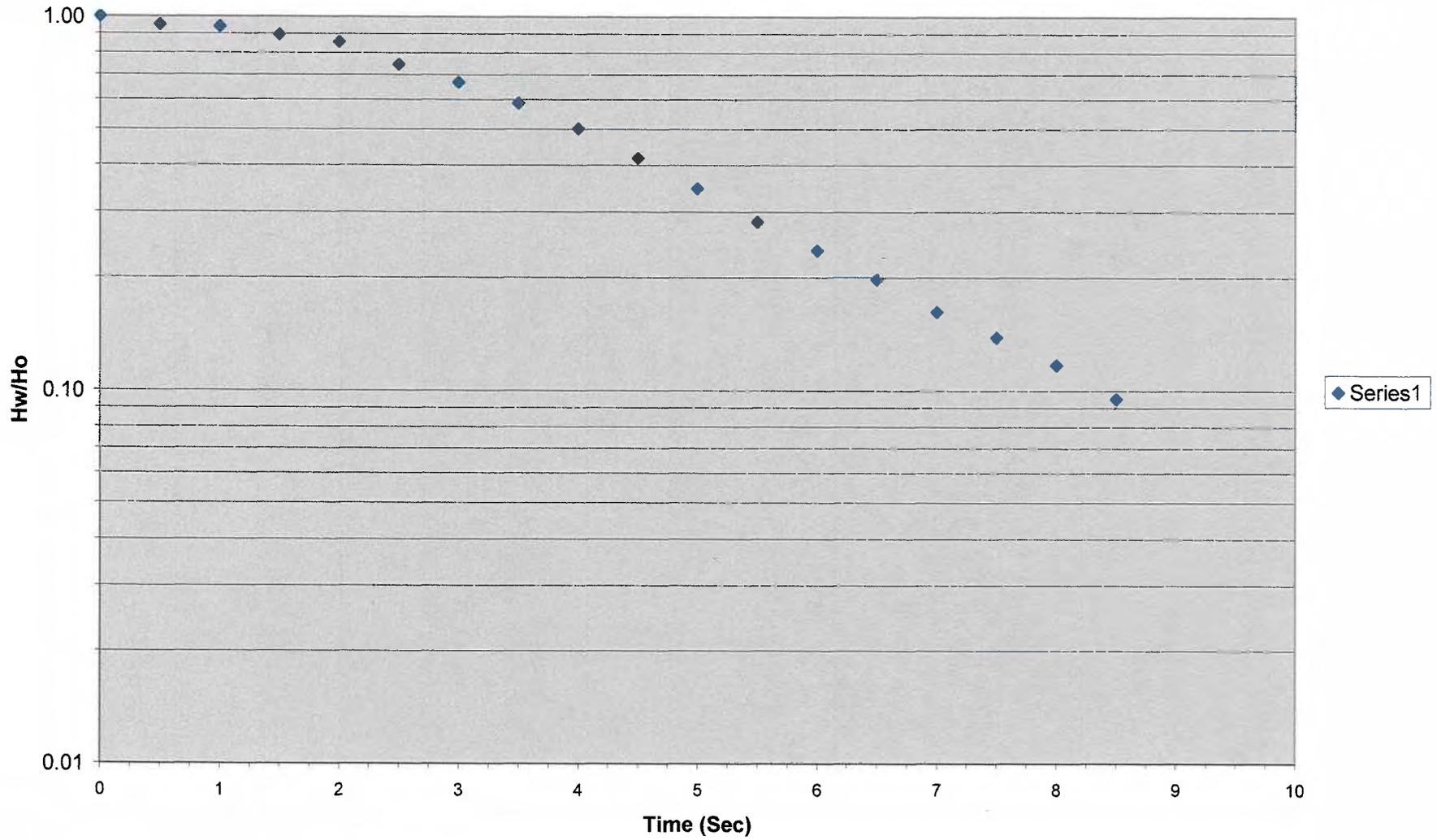
Recovery Data Table for P-53 Aquifer Test

2.482	0.04	33.0	0.02	33.0	-1.75	33.0	7.61	104.102	8.675	0.044
2.482	0.04	33.5	0.02	33.5	-1.77	33.5	7.61	104.120	8.677	0.042
2.482	0.04	34.0	0.02	34.0	-1.76	34.0	7.61	104.114	8.676	0.043
2.482	0.04	34.5	0.02	34.5	-1.79	34.5	7.61	104.147	8.679	0.040
2.482	0.04	35.0	0.02	35.0	-1.81	35.0	7.61	104.172	8.681	0.038
2.482	0.04	35.5	0.02	35.5	-1.80	35.5	7.61	104.159	8.680	0.039
2.482	0.04	36.0	0.02	36.0	-1.80	36.0	7.61	104.155	8.680	0.039
2.482	0.04	36.5	0.02	36.5	-1.81	36.5	7.61	104.164	8.680	0.039
2.482	0.04	37.0	0.02	37.0	-1.80	37.0	7.61	104.159	8.680	0.039
2.482	0.03	37.5	0.01	37.5	-1.89	37.5	7.60	104.247	8.687	0.032 99% Recovery

Detailed Site Investigation - Ameren Labadie Power Plant
Drawdown Curve - P57



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P57

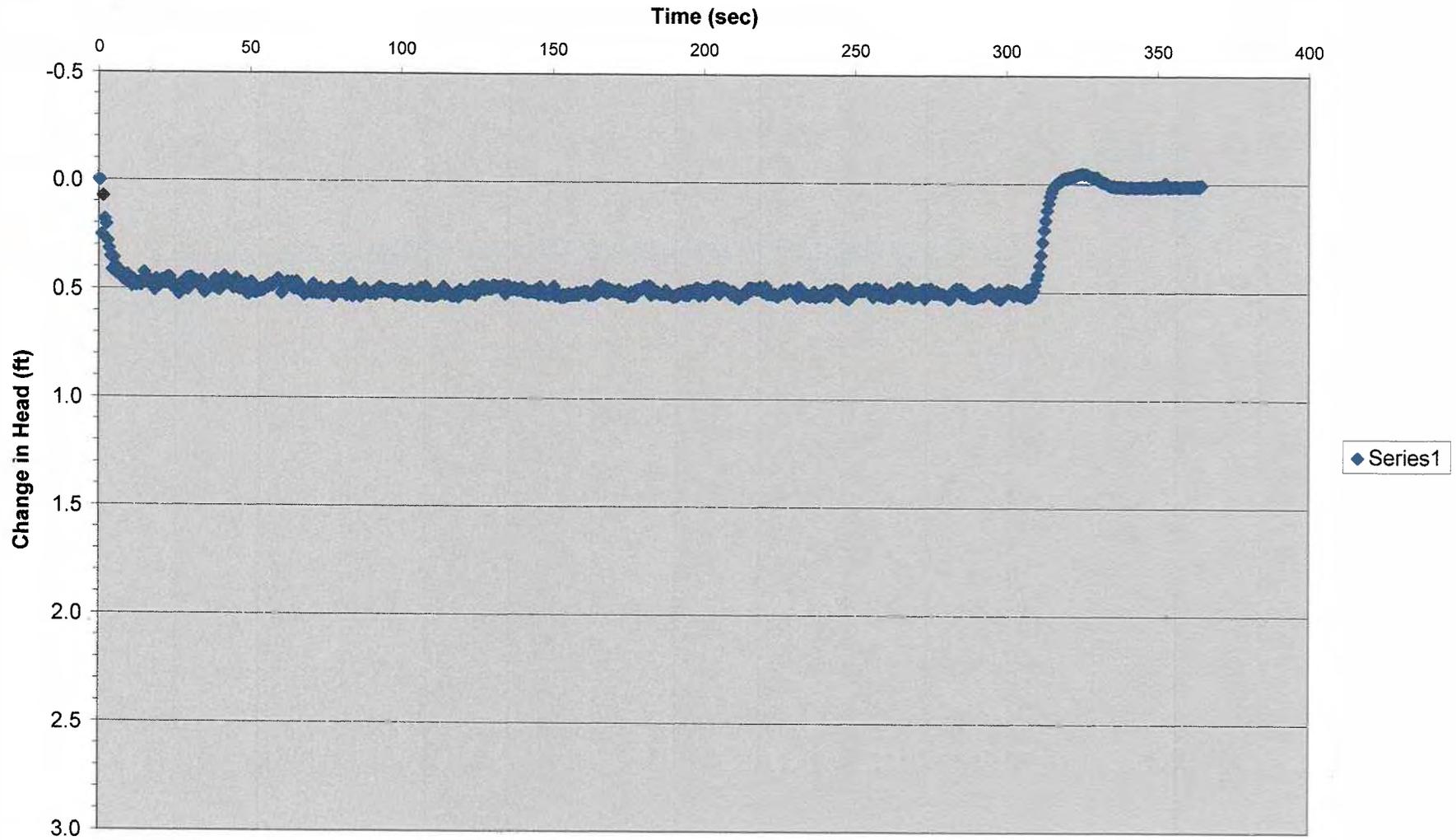


**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

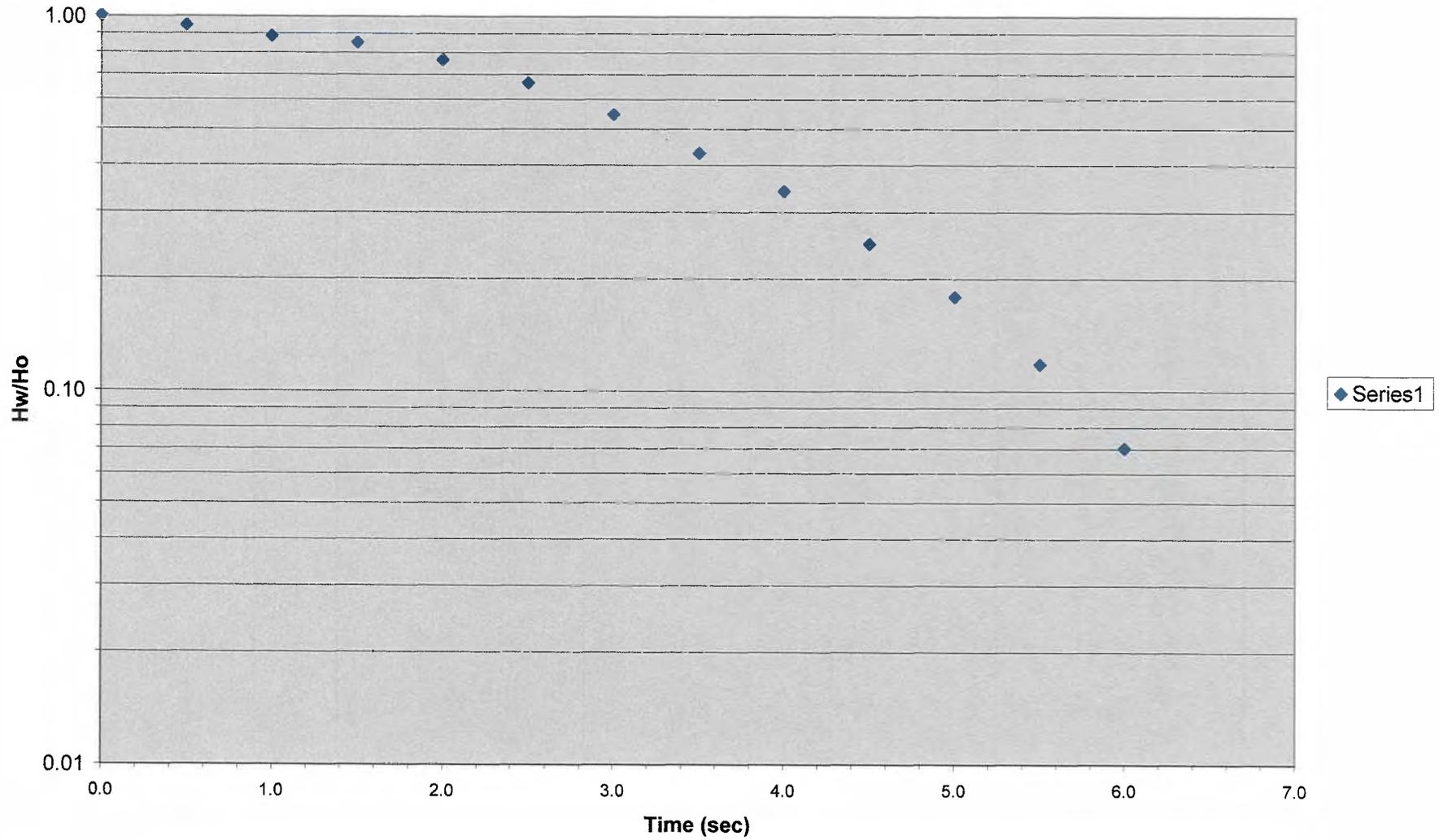
Recovery Data Table for P-57 Aquifer Test

H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Inches	Depth Feet	Relative Change Feet	
						0.0	7.71	100.606	8.384	0.000	SWL= 7.71
						0.5	7.71	100.594	8.383	0.001	Pump On
						0.0	8.64	89.392	7.449	0.935	Pump Off
0.935	0.93	0.0	1.00	0.00	0.0	0.5	8.60	89.938	7.495	0.889	
0.935	0.89	0.5	0.95	-0.02	0.5	1.0	8.59	90.053	7.504	0.880	
0.935	0.88	1.0	0.94	-0.03	1.0	1.5	8.55	90.554	7.546	0.838	
0.935	0.84	1.5	0.90	-0.05	1.5	2.0	8.51	90.988	7.582	0.802	
0.935	0.80	2.0	0.86	-0.07	2.0	2.5	8.41	92.237	7.686	0.698	
0.935	0.70	2.5	0.75	-0.13	2.5	3.0	8.33	93.116	7.760	0.624	
0.935	0.62	3.0	0.67	-0.18	3.0	3.5	8.26	94.011	7.834	0.550	
0.935	0.55	3.5	0.59	-0.23	3.5	4.0	8.18	94.977	7.915	0.469	
0.935	0.47	4.0	0.50	-0.30	4.0	4.5	8.10	95.916	7.993	0.391	
0.935	0.39	4.5	0.42	-0.38	4.5	5.0	8.03	96.737	8.061	0.323	
0.935	0.32	5.0	0.35	-0.46	5.0	5.5	7.97	97.441	8.120	0.264	
0.935	0.26	5.5	0.28	-0.55	5.5	6.0	7.93	97.964	8.164	0.220	
0.935	0.22	6.0	0.24	-0.63	6.0	6.5	7.89	98.394	8.199	0.185	
0.935	0.18	6.5	0.20	-0.70	6.5	7.0	7.86	98.795	8.233	0.151	
0.935	0.15	7.0	0.16	-0.79	7.0	7.5	7.84	99.057	8.255	0.129	
0.935	0.13	7.5	0.14	-0.86	7.5	8.0	7.82	99.295	8.275	0.109	
0.935	0.11	8.0	0.12	-0.93	8.0	8.5	7.80	99.539	8.295	0.089	90% Recovery
0.935	0.09	8.5	0.10	-1.02	8.5	9.0	7.79	99.687	8.307	0.077	
0.935	0.08	9.0	0.08	-1.09	9.0	9.5	7.77	99.829	8.319	0.065	
0.935	0.06	9.5	0.07	-1.16	9.5	10.0	7.76	99.964	8.330	0.054	
0.935	0.05	10.0	0.06	-1.24	10.0	10.5	7.76	100.066	8.339	0.045	95% Recovery
0.935	0.05	10.5	0.05	-1.32	10.5	11.0	7.74	100.191	8.349	0.035	
0.935	0.03	11.0	0.04	-1.43	11.0	11.5	7.74	100.248	8.354	0.030	
0.935	0.03	11.5	0.03	-1.49	11.5	12.0	7.73	100.363	8.364	0.020	
0.935	0.02	12.0	0.02	-1.66	12.0	12.5	7.73	100.374	8.364	0.020	
0.935	0.02	12.5	0.02	-1.68	12.5	13.0	7.72	100.464	8.372	0.012	99% Recovery
0.935	0.01	13.0	0.01	-1.89	13.0	13.5	7.72	100.492	8.374	0.010	
0.935	0.01	13.5	0.01	-1.99	13.5						

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P61



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P61

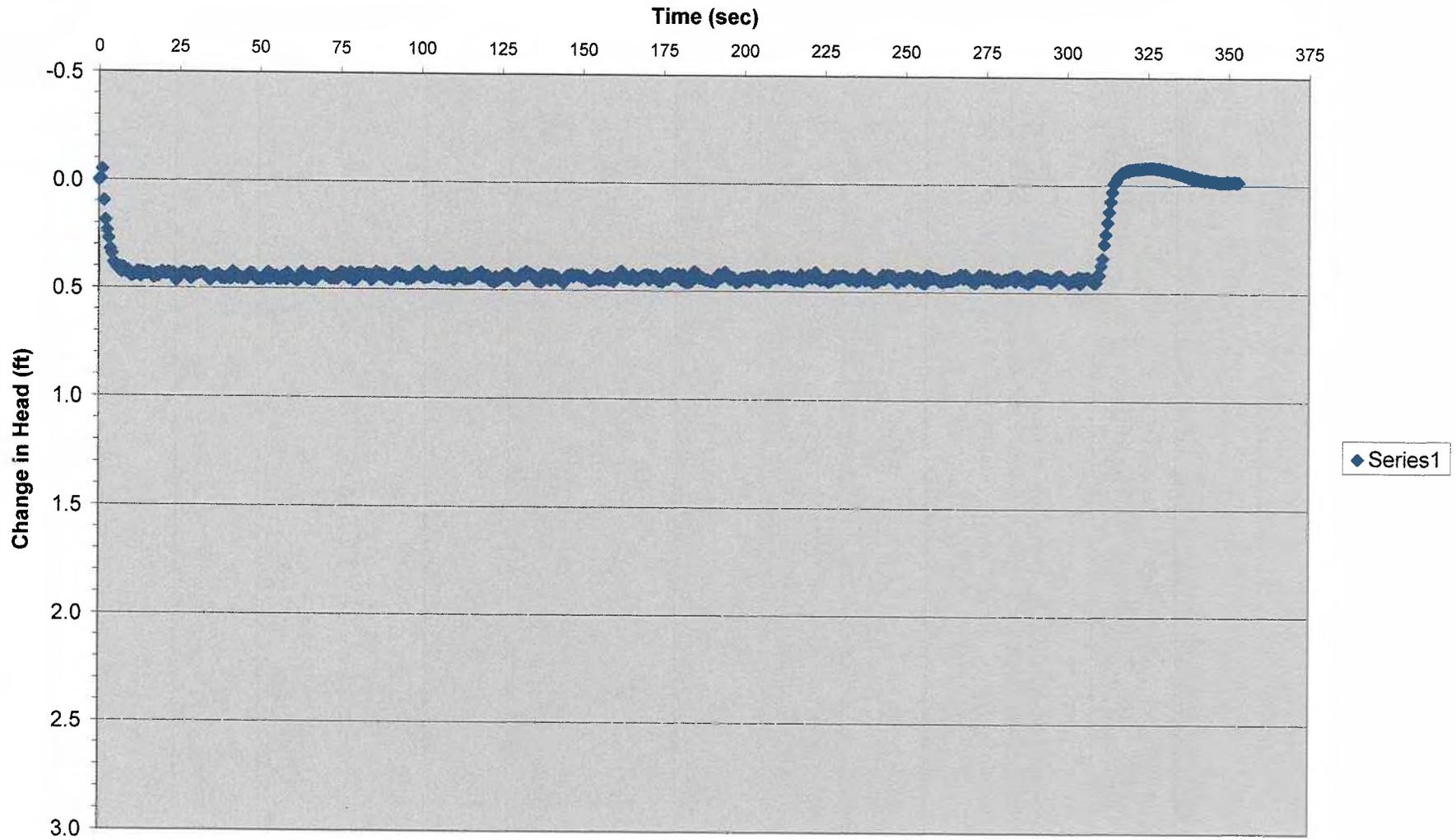


**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

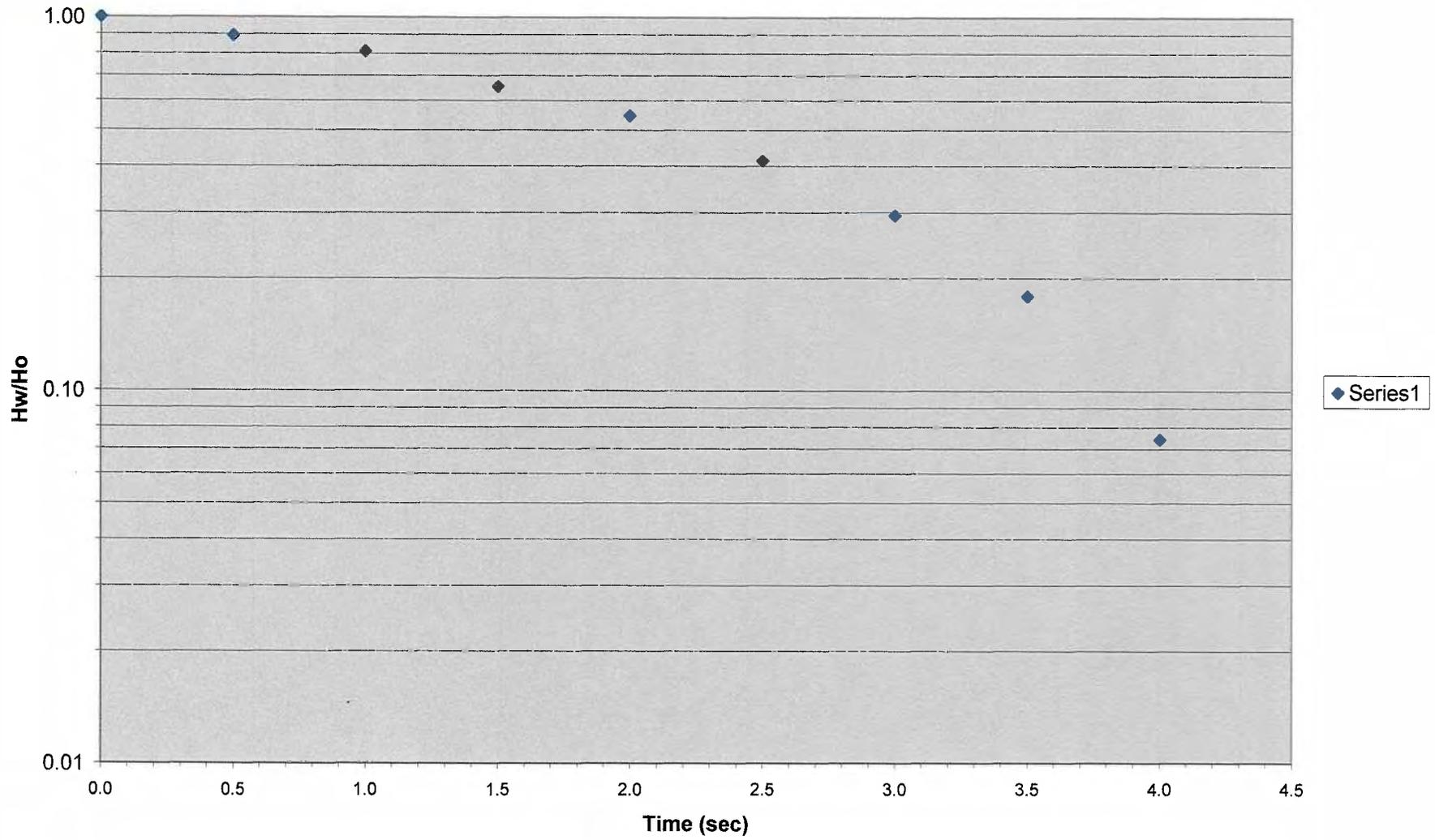
Recovery Data Table for P-61 Aquifer Test

H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Feet	Relative Change Feet	
						0.0	9.43	8.34	0.000	SWL= 9.43
						0.5	9.43	8.33	0.003	Pump On
						0.0	9.92	7.85	0.489	Pump Off
0.489	0.49	0.0	1.00	0.00	0.0	0.5	9.89	7.87	0.463	
0.489	0.46	0.5	0.95	-0.02	0.5	1.0	9.86	7.90	0.434	
0.489	0.43	1.0	0.89	-0.05	1.0	1.5	9.85	7.92	0.415	
0.489	0.42	1.5	0.85	-0.07	1.5	2.0	9.81	7.96	0.375	
0.489	0.38	2.0	0.77	-0.12	2.0	2.5	9.76	8.01	0.326	
0.489	0.33	2.5	0.67	-0.18	2.5	3.0	9.70	8.07	0.267	
0.489	0.27	3.0	0.55	-0.26	3.0	3.5	9.64	8.13	0.211	
0.489	0.21	3.5	0.43	-0.37	3.5	4.0	9.60	8.17	0.167	
0.489	0.17	4.0	0.34	-0.47	4.0	4.5	9.55	8.22	0.121	
0.489	0.12	4.5	0.25	-0.61	4.5	5.0	9.52	8.25	0.088	
0.489	0.09	5.0	0.18	-0.75	5.0	5.5	9.49	8.28	0.058	
0.489	0.06	5.5	0.12	-0.93	5.5	6.0	9.46	8.30	0.034	93% Recovery
0.489	0.03	6.0	0.07	-1.15	6.0	6.5	9.45	8.32	0.017	97% Recovery
0.489	0.02	6.5	0.03	-1.46	6.5	7.0	9.44	8.33	0.008	
0.489	0.01	7.0	0.02	-1.79	7.0					

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P73



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P73

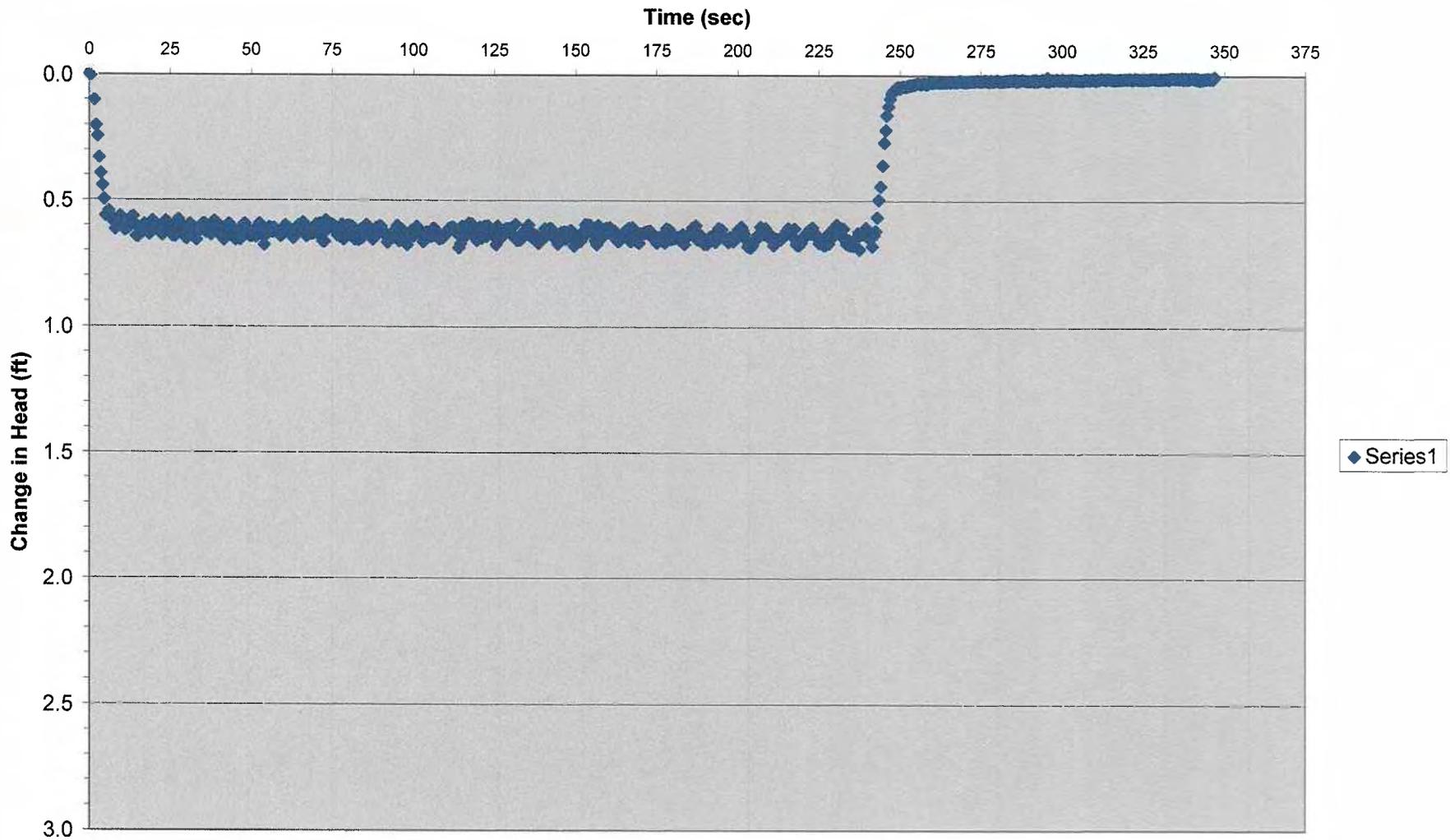


**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

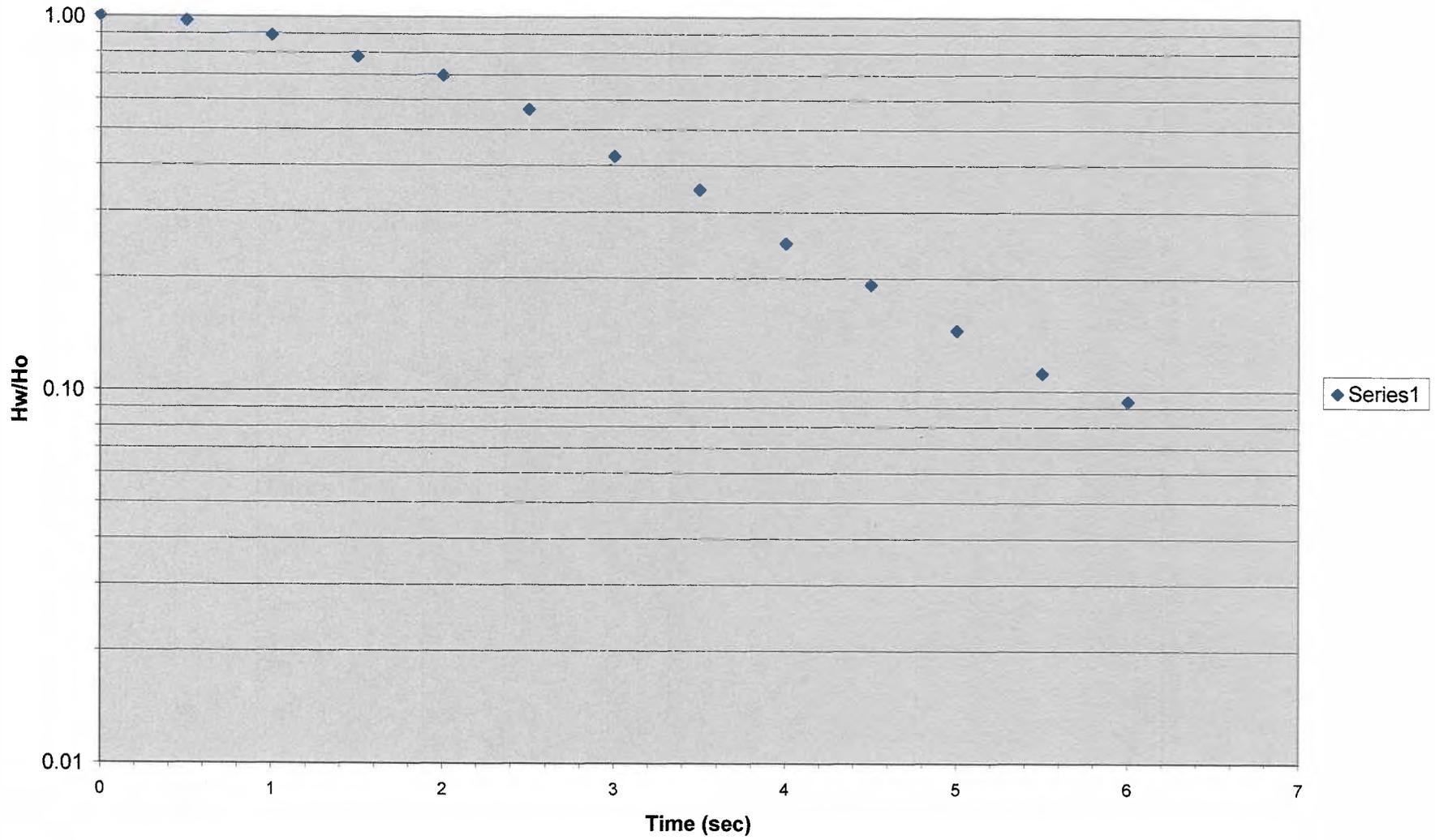
Recovery Data Table for P-73 Aquifer Test

H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Feet	Relative Change Feet	
						0.0	10.62	6.50	0.000	SWL= 10.62
						0.5	10.61	6.50	-0.005	Pump On
0.416	0.42	0.0	1.00	0.00	0.0	0.0	11.04	6.08	0.416	Pump Off
0.416	0.37	0.5	0.89	-0.05	0.5	0.5	10.99	6.13	0.372	
0.416	0.34	1.0	0.81	-0.09	1.0	1.0	10.96	6.16	0.338	
0.416	0.27	1.5	0.66	-0.18	1.5	1.5	10.89	6.23	0.273	
0.416	0.23	2.0	0.54	-0.26	2.0	2.0	10.85	6.27	0.226	
0.416	0.17	2.5	0.41	-0.38	2.5	2.5	10.79	6.33	0.172	
0.416	0.12	3.0	0.29	-0.53	3.0	3.0	10.74	6.38	0.122	
0.416	0.07	3.5	0.18	-0.75	3.5	3.5	10.69	6.42	0.074	
0.416	0.03	4.0	0.07	-1.13	4.0	4.0	10.65	6.47	0.031	93% Recovery
0.416	-0.01	4.5	-0.02	#NUM!	4.5	4.5	10.61	6.50	-0.007	
0.416	-0.02	5.0	-0.04	#NUM!	5.0	5.0	10.60	6.51	-0.017	

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P81



Detailed Site Investigation - Ameren Labadie Power Plant
Plot of 90% Recovery Curve - P81



**Detailed Site Investigation
Proposed Utility Waste Disposal Area
Ameren Labadie Power Plant
Franklin County, Missouri**

Recovery Data Table for P-81 Aquifer Test

H _o (ft)	H _w (ft)	ET (sec)	H _w /H _o	Log(H _w /H _o)	ET (sec)	ET Seconds	SWL (ft, btoc)	Depth Feet	Relative Change Feet	
						0.0	10.27	7.45	0.000	SWL= 10.27
						0.5	10.27	7.45	0.004	Pump On
						0.0	10.90	6.82	0.635	Pump Off
0.635	0.63	0.0	1.00	0.00	0.0	0.5	10.89	6.84	0.619	
0.635	0.62	0.5	0.97	-0.01	0.5	1.0	10.83	6.89	0.565	
0.635	0.56	1.0	0.89	-0.05	1.0	1.5	10.76	6.96	0.494	
0.635	0.49	1.5	0.78	-0.11	1.5	2.0	10.71	7.01	0.441	
0.635	0.44	2.0	0.70	-0.16	2.0	2.5	10.63	7.10	0.358	
0.635	0.36	2.5	0.56	-0.25	2.5	3.0	10.54	7.19	0.268	
0.635	0.27	3.0	0.42	-0.37	3.0	3.5	10.49	7.24	0.218	
0.635	0.22	3.5	0.34	-0.46	3.5	4.0	10.43	7.30	0.158	
0.635	0.16	4.0	0.25	-0.61	4.0	4.5	10.39	7.33	0.122	
0.635	0.12	4.5	0.19	-0.72	4.5	5.0	10.36	7.36	0.092	
0.635	0.09	5.0	0.15	-0.84	5.0	5.5	10.34	7.38	0.071	
0.635	0.07	5.5	0.11	-0.95	5.5	6.0	10.33	7.40	0.060	91% Recovery
0.635	0.06	6.0	0.09	-1.03	6.0	6.5	10.32	7.40	0.054	
0.635	0.05	6.5	0.09	-1.07	6.5	7.0	10.32	7.41	0.047	
0.635	0.05	7.0	0.07	-1.13	7.0	7.5	10.3141	7.41	0.044	
0.635	0.04	7.5	0.07	-1.16	7.5	8.0	10.3198	7.41	0.050	
0.635	0.05	8.0	0.08	-1.11	8.0	8.5	10.3153	7.41	0.045	
0.635	0.05	8.5	0.07	-1.15	8.5	9.0	10.3119	7.41	0.042	
0.635	0.04	9.0	0.07	-1.18	9.0	9.5	10.3139	7.41	0.044	
0.635	0.04	9.5	0.07	-1.16	9.5	10.0	10.3138	7.41	0.044	
0.635	0.04	10.0	0.07	-1.16	10.0	10.5	10.3091	7.42	0.039	
0.635	0.04	10.5	0.06	-1.21	10.5	11.0	10.3074	7.42	0.037	
0.635	0.04	11.0	0.06	-1.23	11.0	11.5	10.3080	7.42	0.038	
0.635	0.04	11.5	0.06	-1.22	11.5	12.0	10.3054	7.42	0.035	
0.635	0.04	12.0	0.06	-1.25	12.0					

Detailed Site Investigation - Ameren Labadie Power Plant Drawdown Curve - P85

