

APPENDIX O

LEOPOLD CHRONOLOGY LOGBOOK DATA

LEOPOLD LOGBOOK DATA

TIME	DATE	Coagulant	Dose	Disinfectant	Dose	Extra/loc	Dose	Aid/loc	Dose
12:00	09/06/2001	JC 1647	20						
12:30	09/06/2001	JC 1647	40						
14:10	09/06/2001	JC 1647	40						
14:25	09/06/2001	JC 1647	40						
14:55	09/06/2001	JC 1647	40						
15:00	09/06/2001	JC 1647	60						
16:00	09/06/2001	JC 1647	60						
16:20	09/06/2001	JC 1647	60						
16:40	09/06/2001	JC 1647	60						
16:45	09/06/2001	JC 1647	35						
19:00	09/06/2001	JC 1647	35						
19:30	09/06/2001	JC 1647	35						
20:00	09/06/2001	JC 1647	35						
8:30	09/07/2001	JC 1647	35						
9:00	09/07/2001	PAX	20						
10:00	09/07/2001	PAX	20						
10:30	09/07/2001	PAX	20						
11:00	09/07/2001	PAX	20						
11:05	09/07/2001	PAX	40						
11:45	09/07/2001	PAX	40						
12:15	09/07/2001	PAX	40						
12:45	09/07/2001	PAX	40						
12:50	09/07/2001	PAX	60						
14:30	09/07/2001	PAX	60						
14:45	09/07/2001	PAX	60						
15:00	09/07/2001	PAX	60						
15:05	09/07/2001	Ferric Chloride	20						
16:20	09/07/2001	Ferric Chloride	20						
16:40	09/07/2001	Ferric Chloride	20						
17:00	09/07/2001	Ferric Chloride	20						
17:05	09/07/2001	Ferric Chloride	40						
18:00	09/07/2001	Ferric Chloride	40						
18:20	09/07/2001	Ferric Chloride	40						
18:40	09/07/2001	Ferric Chloride	40						
18:45	09/07/2001	Ferric Chloride	60						
21:00	09/07/2001	Ferric Chloride	60						
22:00	09/07/2001	Ferric Chloride	60						
23:00	09/07/2001	Ferric Chloride	60						
8:30	09/08/2001	Ferric Chloride	60						
9:00	09/08/2001	JC 1679	30						
9:20	09/08/2001	JC 1679	30						
10:05	09/08/2001	JC 1679	30						
10:30	09/08/2001	JC 1679	30						
11:00	09/08/2001	JC 1679	40						

TIME	DATE	Coagulant	Dose	Disinfectant	Dose	Extra/loc	Dose	Aid/loc	Dose
11:50	09/08/2001	JC 1679	40						
12:30	09/08/2001	JC 1679	40						
12:50	09/08/2001	JC 1679	40						
13:40	09/08/2001	JC 1679	60						
8:30	09/09/2001	JC 1679	60						
9:00	09/09/2001	JC 1679	60						
9:30	09/09/2001	JC 1679	60						
10:00	09/09/2001	JC 1679	60						
10:20	09/09/2001	JC 1679	60						
11:00	09/09/2001	JC 1679	60						
8:05	09/10/2001	JC 1679	60						
9:40	09/10/2001	Alum	20						
10:30	09/10/2001	Alum	20						
10:50	09/10/2001	Alum	20						
11:15	09/10/2001	Alum	20						
11:20	09/10/2001	Alum	40						
12:00	09/10/2001	Alum	40						
12:30	09/10/2001	Alum	40						
12:50	09/10/2001	Alum	40						
13:10	09/10/2001	Alum	60						
13:40	09/10/2001	Alum	60						
14:00	09/10/2001	Alum	60						
14:20	09/10/2001	Alum	60						
16:00	09/10/2001	Alum	60						
16:20	09/10/2001	Alum	60						
9:00	09/11/2001	Alum	60						
13:20	09/11/2001	Alum	60						
14:00	09/11/2001	cut dose	0						
9:30	09/12/2001	Ferric Chloride	40	ClO ₂	0.05	acid	3		
9:50	09/12/2001	Ferric Chloride	40	ClO ₂	0.05				
10:15	09/12/2001	Ferric Chloride	40	ClO ₂	0.05				
11:00	09/12/2001	Ferric Chloride	40	ClO ₂	0.05		5		
11:30	09/12/2001	Ferric Chloride	40	ClO ₂	0.05		6.5		
11:55	09/12/2001	Ferric Chloride	60	ClO ₂	0.05				
13:10	09/12/2001	Ferric Chloride	60	ClO ₂	0.05				
13:30	09/12/2001	Ferric Chloride	60	ClO ₂	0.05				
14:00	09/12/2001	Ferric Chloride	60	ClO ₂	0.05				
14:35	09/12/2001	Ferric Chloride	20	ClO ₂	0.05				
15:00	09/12/2001	Ferric Chloride	20	ClO ₂	0.05				
15:35	09/12/2001	Ferric Chloride	20	ClO ₂	0.05				
16:00	09/12/2001	Ferric Chloride	20	ClO ₂	0.05	acid	0		
16:30	09/12/2001	JC 1679	35	ClO ₂	0.05				
17:00	09/12/2001	JC 1679	35	ClO ₂	0.05				
8:00	09/13/2001	JC 1679	35	ClO ₂	0.05				
9:00	09/13/2001	JC 1679	35	ClO ₂	0.05				
10:00	09/13/2001	JC 1679	35	ClO ₂	0.05				

TIME	DATE	Coagulant	Dose	Disinfectant	Dose	Extra/loc	Dose	Aid/loc	Dose
11:00	09/13/2001	JC 1679	35	ClO ₂	0.05				
12:00	09/13/2001	JC 1679	35	ClO ₂	0.05				
13:00	09/13/2001	JC 1679	35	ClO ₂	0.05				
14:00	09/13/2001	JC 1679	35	ClO ₂	0.05				
15:30	09/13/2001	JC 1679	35	ClO ₂	0.05				
16:00	09/13/2001	JC 1679	35	ClO ₂	0.05				
16:30	09/13/2001	JC 1679	35	ClO ₂	0.05				
17:00	09/13/2001	JC 1679	35	ClO ₂	0.05				
8:00	09/14/2001	JC 1679	35	ClO ₂	0.05				
8:30	09/14/2001	JC 1679	35	ClO ₂	0.05				
9:00	09/14/2001	JC 1679	35	ClO ₂	0.05				
10:00	09/14/2001	JC 1679	35	ClO ₂	0.05				
11:00	09/14/2001	JC 1679	35	ClO ₂	0.05				
12:00	09/14/2001	JC 1679	35	ClO ₂	0.05				
13:15	09/14/2001	JC 1679	35	ClO ₂	0.05				
14:00	09/14/2001	JC 1679	35	ClO ₂	0.05				
15:00	09/14/2001	JC 1679	35	ClO ₂	0.05				
16:00	09/14/2001	JC 1647	35	ClO ₂	0.05				
16:30	09/14/2001	JC 1647	35	ClO ₂	0.00				
17:00	09/14/2001	JC 1647	35						
9:00	09/15/2001	JC 1647	35						
9:30	09/15/2001	JC 1647	35						
10:00	09/15/2001	JC 1647	35						
10:30	09/15/2001	JC 1647	35						
11:00	09/15/2001	JC 1647	35						
11:30	09/15/2001	JC 1647	35						
12:00	09/15/2001	JC 1647	35						
13:00	09/15/2001	JC 1647	35						
13:30	09/15/2001	JC 1647	35						
14:10	09/15/2001	JC 1647	35						
10:30	09/16/2001	JC 1647	35						
11:00	09/16/2001	JC 1647	35						
11:30	09/16/2001	JC 1647	35						
12:00	09/16/2001	JC 1647	35						
12:30	09/16/2001	JC 1647	35						

power died

14:00	09/17/2001	JC 1647	35	ClO ₂	1.50			LT22s/front	0.10
14:30	09/17/2001	JC 1647	35	ClO ₂	1.50				
15:30	09/17/2001	JC 1647	35	ClO ₂	1.50				
16:30	09/17/2001	JC 1647	35	ClO ₂	1.50				
17:30	09/17/2001	JC 1647	35	ClO ₂	1.50				
8:10	09/18/2001	JC 1647	35	ClO ₂	1.50				
9:00	09/18/2001	JC 1647	35	ClO ₂	1.50				
10:30	09/18/2001	JC 1647	35	ClO ₂	1.50			LT22s/front	0.00

TIME	DATE	Coagulant	Dose	Disinfectant	Dose	Extra/loc	Dose	Aid/loc	Dose
11:55	09/18/2001	JC 1647	35	ClO ₂	1.50				
13:40	09/18/2001	JC 1647	35	ClO ₂	1.50				
14:00	09/18/2001	JC 1647	35	ClO ₂	1.50				
15:00	09/18/2001	JC 1647	35	ClO ₂	1.50				
16:00	09/18/2001	JC 1647	35	ClO ₂	1.50				
17:30	09/18/2001	JC 1647	35	ClO ₂	1.50				
8:00	09/19/2001	JC 1647	35	ClO ₂	1.50				
9:00	09/19/2001	JC 1647	35	ClO ₂	1.50				
10:00	09/19/2001	JC 1647	35	ClO ₂	1.50				
11:00	09/19/2001	JC 1647	35	ClO ₂	1.50				
12:00	09/19/2001	JC 1647	40	ClO ₂	1.50				
13:00	09/19/2001	JC 1647	40	ClO ₂	1.50				
13:30	09/19/2001	JC 1647	40	ClO ₂	1.50				
14:30	09/19/2001	JC 1647	40	ClO ₂	1.50			JC1647/back	1000.00
15:30	09/19/2001	JC 1647	40	ClO ₂	1.50			LT22s/back	0.10
15:55	09/19/2001	JC 1647	40	ClO ₂	1.50				
17:00	09/19/2001	JC 1647	40	ClO ₂	1.50				
8:30	09/20/2001	JC 1647	40	ClO ₂	1.50				
9:00	09/20/2001	JC 1647	40	ClO ₂	1.50	acid	3		
9:30	09/20/2001	JC 1647	40	ClO ₂	1.50				
10:00	09/20/2001	JC 1647	40	ClO ₂	1.50		4		
10:30	09/20/2001	JC 1647	40	ClO ₂	1.50			LT22s/back	0.00
11:00	09/20/2001	JC 1647	40	ClO ₂	1.50				
11:30	09/20/2001	JC 1647	40	ClO ₂	1.50		3.6		
12:00	09/20/2001	JC 1647	40	ClO ₂	1.50				
13:00	09/20/2001	JC 1647	40	ClO ₂	1.50				
13:30	09/20/2001	JC 1647	40	ClO ₂	1.50				
14:00	09/20/2001	JC 1647	40	ClO ₂	1.50	acid	0		
14:30	09/20/2001	JC 1647	40	ClO ₂	1.50			Cat Floc/front	2.00
15:00	09/20/2001	JC 1647	40	ClO ₂	1.50				
16:00	09/20/2001	JC 1647	40	ClO ₂	1.50				
17:00	09/20/2001	JC 1647	40	ClO ₂	1.50				
8:10	09/21/2001	JC 1647	40	Cl ₂	3.20			Cat floc	0.00
8:30	09/21/2001	JC 1647	40	Cl ₂	3.20				
9:00	09/21/2001	JC 1647	40	Cl ₂	3.20				
9:30	09/21/2001	JC 1647	40	Cl ₂	3.20				
10:30	09/21/2001	JC 1647	40	Cl ₂	3.20				
11:50	09/21/2001	JC 1647	40	Cl ₂	3.20				
13:10	09/21/2001	JC 1647	40	Cl ₂	3.20				
13:30	09/21/2001	JC 1647	40	KMnO ₄	0.50				
14:00	09/21/2001	JC 1647	40	KMnO ₄	0.50				
14:30	09/21/2001	JC 1647	40	KMnO ₄	0.50				
15:00	09/21/2001	JC 1647	40	KMnO ₄	0.50				
15:45	09/21/2001	JC 1647	40	KMnO ₄	0.50				
16:30	09/21/2001	JC 1647	40	KMnO ₄	0.50				
17:00	09/21/2001	JC 1647	40	KMnO ₄	0.50				

TIME	DATE	Coagulant	Dose	Disinfectant	Dose	Extra/loc	Dose	Aid/loc	Dose
11:50	09/22/2001	JC 1647	25	KMnO ₄	0.50	JC 1679	15		
12:00	09/22/2001	JC 1647	25	KMnO ₄	0.50				
12:30	09/22/2001	JC 1647	25	KMnO ₄	0.50				
10:00	09/23/2001	JC 1647	25	KMnO ₄	0.50	JC 1679	0		
10:20	09/23/2001	JC 1647	25	KMnO ₄	0.50				
10:50	09/23/2001	JC 1647	25	KMnO ₄	0.50	JC 1679	15		
11:00	09/23/2001	JC 1647	25	KMnO ₄	0.50				
8:00	09/24/2001	JC 1647	25	KMnO ₄	0.50				
9:00	09/24/2001	JC 1647	25	KMnO ₄	0.50				
9:30	09/24/2001	JC 1647	25	KMnO ₄	0.50				
10:00	09/24/2001	JC 1647	25	KMnO ₄	0.00	JC 1679	0		
10:30	09/24/2001	JC 1647	25	Cl ₂	3.20				
11:30	09/24/2001	JC 1647	25	Cl ₂	3.20				
13:00	09/24/2001	JC 1647	25	Cl ₂	3.20				
13:30	09/24/2001	JC 1647	25	Cl ₂	3.20				
14:00	09/24/2001	JC 1647	25	Cl ₂	3.20				
14:30	09/24/2001	JC 1647	25	Cl ₂	3.20				
15:00	09/24/2001	JC 1647	25	Cl ₂	3.20				
15:30	09/24/2001	JC 1647	25	Cl ₂	3.20				
16:00	09/24/2001	JC 1647	25	Cl ₂	3.20				
16:30	09/24/2001	JC 1647	25	Cl ₂	3.20				
17:00	09/24/2001	JC 1647	25	Cl ₂	3.20				
18:00	09/24/2001	JC 1647	25	Cl ₂	3.20				
8:00	09/25/2001	JC 1647	25	Cl ₂	3.20				
8:30	09/25/2001	JC 1647	25	Cl ₂	3.20			LT20	0.05
9:00	09/25/2001	JC 1647	25	Cl ₂	3.20				
9:30	09/25/2001	JC 1647	25	Cl ₂	3.20				
10:00	09/25/2001	JC 1647	25	Cl ₂	3.20				0.10
10:20	09/25/2001	JC 1647	25	Cl ₂	3.20				
11:00	09/25/2001	JC 1647	25	Cl ₂	3.20				
11:30	09/25/2001	JC 1647	25	Cl ₂	3.20				
12:10	09/25/2001	JC 1647	25	Cl ₂	3.20				
13:00	09/25/2001	JC 1647	25	Cl ₂	3.20				
13:40	09/25/2001	JC 1647	25	Cl ₂	3.20				0.00
14:00	09/25/2001	JC 1647	25	Cl ₂	3.20				
15:00	09/25/2001	JC 1647	25	Cl ₂	3.20				
15:30	09/25/2001	JC 1647	25	Cl ₂	3.20				
16:00	09/25/2001	JC 1647	25	Cl ₂	3.20				
16:30	09/25/2001	JC 1647	25	Cl ₂	3.20				
17:00	09/25/2001	JC 1647	25	Cl ₂	3.20				
8:00	09/26/2001	JC 1647	25	Cl ₂	3.20				
8:30	09/26/2001	JC 1647	25	Cl ₂	3.20				
9:00	09/26/2001	JC 1647	25	Cl ₂	3.20				
9:30	09/26/2001	JC 1647	25	Cl ₂	3.20				
10:00	09/26/2001	JC 1647	25	Cl ₂	3.20				
10:20	09/26/2001	JC 1647	25	Cl ₂	3.20				

TIME	DATE	Coagulant	Dose	Disinfectant	Dose	Extra/loc	Dose	Aid/loc	Dose
11:00	09/26/2001	JC 1647	25	Cl ₂	3.20				
11:30	09/26/2001	JC 1647	25	Cl ₂	3.20				

LOPEZ LAKE WATER

14:20	09/26/2001	JC 1647	25	none	0.00		0		0.00
14:50	09/26/2001	JC 1647	25						
15:30	09/26/2001	JC 1647	25						
16:00	09/26/2001	JC 1647	25						
16:30	09/26/2001	JC 1647	25						
8:20	09/27/2001	JC 1647	25						
9:00	09/27/2001	JC 1647	25						
9:30	09/27/2001	JC 1647	25						
10:00	09/27/2001	JC 1647	25						
10:30	09/27/2001	JC 1647	30						
11:00	09/27/2001	JC 1647	30						
11:30	09/27/2001	JC 1647	30						
12:00	09/27/2001	JC 1647	30	ClO ₂	1.50				
13:20	09/27/2001	JC 1647	30	ClO ₂	1.50				
14:00	09/27/2001	JC 1647	30	ClO ₂	1.50				
14:30	09/27/2001	JC 1647	30	ClO ₂	1.50				
15:00	09/27/2001	JC 1647	30	ClO ₂	1.50				
15:30	09/27/2001	JC 1647	30	ClO ₂	1.50				
16:00	09/27/2001	JC 1647	30	ClO ₂	1.50				
16:30	09/27/2001	JC 1647	30	ClO ₂	1.50				
8:00	09/28/2001	JC 1647	30	ClO ₂	1.50				
8:30	09/28/2001	JC 1647	30	ClO ₂	1.50				
9:00	09/28/2001	JC 1647	30	ClO ₂	1.50				
9:45	09/28/2001	JC 1647	30	ClO ₂	1.00				
10:30	09/28/2001	JC 1647	30	ClO ₂	1.00				
11:00	09/28/2001	JC 1647	30	ClO ₂	1.25				
11:50	09/28/2001	JC 1647	30	ClO ₂	1.25				
13:00	09/28/2001	JC 1647	30	ClO ₂	1.25				
14:30	09/28/2001	JC 1647	30	ClO ₂	1.25				
16:00	09/28/2001	JC 1647	30	ClO ₂	1.25				
17:10	09/28/2001	JC 1647	30	ClO ₂	1.25				
11:00	09/29/2001	JC 1647	30	ClO ₂	1.25				
11:25	09/29/2001	JC 1647	30	ClO ₂	1.25				
12:15	09/29/2001	JC 1647	30	ClO ₂	1.25				
8:00	09/30/2001	JC 1647	35	ClO ₂	1.25				
9:00	09/30/1931	JC 1647	35	ClO ₂	1.25				
10:00	09/30/2001	JC 1647	35	ClO ₂	1.25				
9:10	10/01/2001	JC 1647	35	ClO ₂	1.25				
10:00	10/01/2001	JC 1647	35	ClO ₂	1.25				
11:00	10/01/2001	JC 1647	35	ClO ₂	1.25				
11:45	10/01/2001	JC 1647	35	ClO ₂	1.25			Cl ₂ /filter	2.00

TIME	DATE	Coagulant	Dose	Disinfectant	Dose	Extra/loc	Dose	Aid/loc	Dose
13:20	10/01/2001	JC 1647	35	ClO ₂	0.00				
14:00	10/01/2001	JC 1647	35	ClO ₂	0.00				
15:30	10/01/2001	JC 1647	25	ClO ₂	0.00				
8:05	10/02/2001	JC 1647	25	ClO ₂	0.00				
9:00	10/02/2001	JC 1647	25	ClO ₂	0.00				
9:45	10/02/2001	JC 1647	25	ClO ₂	0.00			Cl ₂ off filter	
10:30	10/02/2001	JC 1647	25	Cl ₂	2.00				
12:00	10/02/2001	JC 1647	25	Cl ₂	2.00				
13:30	10/02/2001	JC 1647	25	Cl ₂	2.00				
15:00	10/02/2001	JC 1647	25	Cl ₂	2.00				
16:30	10/02/2001	JC 1647	25	Cl ₂	2.00				
17:00	10/02/2001	JC 1647	25	Cl ₂	2.00				
8:00	10/03/2001	JC 1647	15	Cl ₂	2.00				
9:00	10/03/2001	JC 1647	15	Cl ₂	2.00				
9:20	10/03/2001	JC 1647	15	Cl ₂	2.00				
9:40	10/03/2001	JC 1647	10	Cl ₂	2.00				
10:15	10/03/2001	JC 1647	10	Cl ₂	2.00				
11:00	10/03/2001	JC 1647	10	Cl ₂	2.00				
11:20	10/03/2001	JC 1647	10	Cl ₂	2.00				