

**OPERATION PERMIT RENEWAL APPLICATION
SOUTHEAST LANDFILL
HILLSBOROUGH COUNTY, FLORIDA**

41193

**RESPONSES TO THE
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

5029-256427

4029C30075

Submitted to:

**Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619**

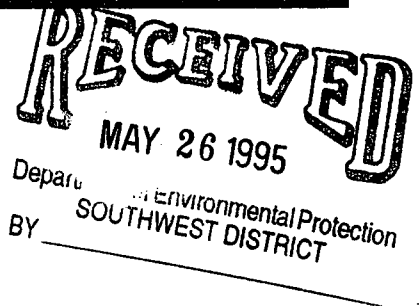
For:

**Hillsborough County Department of Solid Waste
601 East Kennedy Boulevard
P.O. Box 1110
Tampa, Florida 33601**

Submitted by:

**SCS ENGINEERS
3012 U.S. Highway 301 North
Suite 700
Tampa, Florida 33619
(813) 621-0080**

**May 26, 1995
Job No. 0990018.35**

SCS ENGINEERSMay 26, 1995
File No. 0990018.35Mr. Kim B. Ford, P.E.
Florida Department of Environmental Regulation, Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: Response to the Florida Department of Environmental Protection's Letter dated April 25, 1995, Southeast County Landfill, Hillsborough County, Florida Pending Permit No. S029-256427

Dear Mr. Ford:

On behalf of the Hillsborough County Department of Solid Waste (HCDSW), SCS Engineers (SCS) has reviewed the referenced letter from the Florida Department of Environmental Protection (FDEP). We believe the following responses address the questions raised by the FDEP concerning the operation permit renewal for the Southeast County Landfill (SELF). Each of the FDEP's comments is restated in bold below, and followed by our response.

1. **FDEP Statement 1 - Please provide a revised comprehensive Leachate Management Plan (LMP) to include the complete description and sequence of the leachate management system presented in previous sections of the application. Please update these previously submitted sections as necessary. Please include Table 1 and Figure 2 as part of the LMP along with an explanation of the relationship between the two, and describe their use for future compliance. Does Table 1 and Figure 2 indicate leachate will be removed as it is generated? Why is Line B shown on Figure 2 and why does it indicate less hydraulic head without spray irrigation?**

Response - Table 1 and Figure 2, from the March 24, 1995 responses to the FDEP, were revised and are included in the Leachate Management Plan (LMP) for the SELF. The LMP was revised to replace Sections 3.3 and 3.4 of the 1994 Operations Permit Renewal Engineering Report. The revised LMP is attached. Table 1 and Figure 2, from the March 24, 1995 response to the FDEP, were compiled using the daily output from the U.S. Environmental Protection Agency's (U.S. EPA) Hydrologic Evaluation of Landfill Performance (HELP) model. The HELP model provides the following daily output; Rainfall (in.), runoff (in.), evapotranspiration (in.), evaporative zone water (in./in.), head (in.), drainage (in.), and leakage (in.).

Because the clay bottom liner will create subsurface flow into the leachate collection and removal system (LCRS), SCS added the leakage amount to the drainage amount to represent the amount of leachate generated. The HELP model is programed to assume that leachate is removed at the maximum flow rate allowed through the drainage layer. Leachate generation for the SELF was estimated over a 5 year period. Over the five-year simulation, the model calculated an average change in leachate storage in the SELF of 0.12 percent. Therefore, the amount of leachate generated approximately equals the amount collected.



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The Leachate Collected column in Table 1, from the March 24, 1995 responses to the FDEP, was compiled by adding the leachate generated amounts from the daily output of the HELP model for the wet, dry, and maximum leachate generated years (Refer to Exhibit A to see how the HELP model output data was compiled prior to the creation of Table 1). However, in creating Figure 2 from the March 24, 1995 responses to the FDEP, the daily head amounts were used, not the drainage and leakage amounts.

Since not all of the leachate sprayed over the SELF will evaporate, some moisture will infiltrate the landfill and cause an increase in leachate generation as compared to a simulation without spray irrigation. Line B in Figure 2, was included to show the estimated depth over the liner before the application of spray irrigation. As you requested, Line B is not included in this submittal of the landfill hydrograph.

The only relationships that can be seen between Table 1 and Figure 2, from the March 24, 1995 responses to the FDEP, besides the fact that they were both compiled from the same HELP model runs, is that as shown in Table 1, the dry year (with respect to natural precipitation) was the first year, and the fourth year was the year in which the most leachate was generated. This can be seen in Figure 2 by noticing that the average head for year one was the lowest while the average head for the fourth year was the highest. Table 1 and Figure 2, from the March 24, 1995 responses to the FDEP, can be used as a planning tool for estimated leachate hauling quantities and leachate depth over the liner. The revised LMP for the SELF is attached. Table 1 and Figure 2 from the March 24, 1995 responses to the FDEP, are presented in the revised LMP as Table 2 and Figure 2 respectively.

2. **FDEP Statement 2** - Please provide equations and/or a chart for the quantity of leachate stored for each recorded depth of leachate. Please describe how this equation/chart changes as the top of clay settles. Please identify at least four locations for measuring the top of clay settlement in the vicinity of the future Phase VI sump, three of which may include the two existing sumps and the proposed piezometer location. Please include this information in the revised LMP.

Response - Figure 3 of the LMP shows a chart that indicates the estimated leachate storage in the SELF using an estimated top of clay elevation of 118.5 feet based on the national geodetic vertical datum. The volume estimated takes into account the porosity and field capacity of the soils.

By establishing a target maximum leachate level in the proposed piezometer of 2.5 feet, as the landfill settles, the sump elevation will become lower and the horizontal extent of leachate will decrease, thus the amount of leachate storage in the SELF will be reduced. As indicated in the LMP, this chart will be adjusted annually to show the best approximation of leachate storage in the SELF.

The top of clay settlement will be monitored at the existing temporary sumps No. 3 and No. 4. In addition, two temporary settling plates will be installed at the locations shown on Figure 4 of the LMP. Leachate levels will be measured daily and the clay elevations will be surveyed semi-annually. The revised LMP for the SELF is attached.

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3. **FDEP Statement 3** - Please provide the design details for all depth of leachate and top of clay monitoring devices. Please describe the methods and frequencies of all monitoring for the elevations at the top of clay as it settles and the depth of leachate throughout the landfill. Please include this information in the revised LMP.

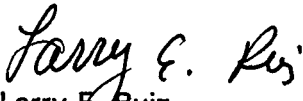
Response - As stated in the response to the FDEP Statement 1, the leachate depth over the liner will be monitored daily at the proposed Phase IV piezometer (Figure 6 of LMP). As stated in the response to the FDEP Statement 2, the top of clay settlement will be monitored at the existing temporary sumps No. 3 and No. 4. The details for the existing temporary sumps No. 3 and No. 4 were included in the March 24, 1995 responses to the FDEP. In addition, two temporary settling plates will be installed at the locations shown on Figure 4 of the LMP. The clay elevations will be surveyed monthly and the detail for the proposed settling plates is shown in the LMP on Figure 5. The revised LMP for the SELF is attached.

4. **FDEP Statement 4** - Please explain how rainfall is recorded at the landfill. Are past rainfall records at the landfill similar to those values used in the HELP model? Was recirculation included in the HELP model? What impact will leachate recirculation have on leachate management?

Response - Rainfall currently is being recorded by a weather station located to the north of the administration building. Before 1994, the rainfall data was recorded by SELF personnel; however, as stated on correspondence dated April 28, 1994 (Exhibit B) from the HCDSW to the FDEP, the data was not recorded properly. As shown in Exhibit C, the rainfall data used for the HELP model was a composite of values from the Parrish, Bartow and Plant City weather stations. The composite values used are the best representation of conditions at the SELF. The impact, due to leachate recirculation on daily cover is shown in the revised HELP run included in Exhibit C. The revised LMP for the SELF is attached.

Please do not hesitate to call if you have any questions.

Very truly yours,


Larry E. Ruiz
Project Engineer


Robert B. Gardner, P.E.
Vice President
SCS ENGINEERS
RSG/SM/ER:lr 5/26/95

Attachments

EXHIBIT A

ACCUMULATIVE LEACHATE STORAGE

**EXHIBIT A. ACCUMULATIVE STORAGE REQUIREMENTS FOR SPRAY IRRIGATION & RECIRCULATION
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA**

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1	0	0.1	60,000	0	54,059	17,250	(23,191)	(23,191)	0	0	0
2	0	0.1	60,000	0	60,629	17,250	(16,621)	(39,812)	0	0	0
3	0	0.1	60,000	0	62,166	17,250	(15,084)	(54,896)	0	0	0
4	0	0.1	60,000	0	63,162	17,250	(14,088)	(68,985)	0	0	0
5	0	0.1	60,000	0	63,851	17,250	(13,399)	(82,384)	0	0	0
6	0	0.1	60,000	0	64,405	17,250	(12,845)	(95,228)	0	0	0
7	0	0.1	60,000	0	64,788	17,250	(12,462)	(107,690)	0	0	0
8	0	0.1	60,000	0	65,076	17,250	(12,174)	(119,864)	0	0	0
9	0	0.1	60,000	0	65,279	17,250	(11,971)	(131,834)	0	0	0
10	0	0.1	60,000	0	65,481	17,250	(11,769)	(143,603)	0	0	0
11	0	0.1	60,000	0	65,746	17,250	(11,504)	(155,107)	0	0	0
12	0	0.1	60,000	0	66,054	17,250	(11,196)	(166,303)	0	0	0
13	0	0.1	60,000	0	66,381	17,250	(10,869)	(177,172)	0	0	0
14	0.15	0.25	60,000	4	66,719	0	6,719	(170,453)	0	0	6,719
15	0.02	0.12	60,000	4	70,661	0	10,661	(159,792)	0	0	17,380
16	0	0.1	60,000	0	70,732	17,250	(6,518)	(166,310)	0	0	10,862
17	0	0.1	60,000	0	70,820	17,250	(6,430)	(172,740)	0	0	4,432
18	0	0.1	60,000	0	70,848	17,250	(6,402)	(179,142)	0	0	0
19	0	0.1	60,000	0	70,878	17,250	(6,372)	(185,513)	0	0	0
20	0.01	0.11	60,000	4	70,954	0	10,954	(174,560)	0	0	10,954
21	0	0.1	60,000	0	71,088	17,250	(6,162)	(180,721)	0	0	4,792
22	0	0.1	60,000	0	71,215	17,250	(6,035)	(186,756)	0	0	0
23	0.29	0.29	0	24	71,346	0	71,346	(115,410)	0	0	71,346
24	0.09	0.09	0	4	71,503	0	71,503	(43,907)	0	0	142,850
25	0.52	0.52	0	24	71,612	0	71,612	27,706	0	0	214,462
26	0	0	0	0	71,732	17,250	54,482	82,188	18,944	18,944	250,000
27	0	0.1	60,000	0	71,818	17,250	(5,432)	76,756	0	18,944	244,568
28	0	0.1	60,000	0	71,971	17,250	(5,279)	71,477	0	18,944	239,289
29	0	0.1	60,000	0	72,061	17,250	(5,189)	66,288	0	18,944	234,100
30	0	0.1	60,000	0	72,132	17,250	(5,118)	61,170	0	18,944	228,982
31	0	0.1	60,000	0	72,241	17,250	(5,009)	56,161	0	18,944	223,973
32	0	0.1	60,000	0	72,353	17,250	(4,897)	51,264	0	18,944	219,076
33	0	0.1	60,000	0	72,363	17,250	(4,887)	46,377	0	18,944	214,189
34	0	0.1	60,000	0	72,273	17,250	(4,977)	41,400	0	18,944	209,212
35	0.11	0.21	60,000	4	72,107	0	12,107	53,507	0	18,944	221,319
36	0	0.1	60,000	0	71,958	17,250	(5,292)	48,214	0	18,944	216,026
37	0	0.1	60,000	0	71,863	17,250	(5,387)	42,827	0	18,944	210,639
38	0.03	0.13	60,000	4	71,837	0	11,837	54,664	0	18,944	222,476
39	0	0.1	60,000	0	71,787	17,250	(5,463)	49,202	0	18,944	217,014
40	0	0.1	60,000	0	71,747	17,250	(5,503)	43,699	0	18,944	211,511
41	0.28	0.28	0	24	71,704	0	71,704	115,403	33,215	52,159	250,000
42	0	0	0	0	71,637	17,250	54,387	169,790	54,387	106,546	250,000
43	0	0.1	60,000	0	71,521	17,250	(5,729)	164,061	0	106,546	244,271
44	0	0.1	60,000	0	71,450	17,250	(5,800)	158,261	0	106,546	238,471
45	0	0.1	60,000	0	71,452	17,250	(5,798)	152,463	0	106,546	232,674
46	0.1	0.2	60,000	4	71,441	0	11,441	163,905	0	106,546	244,115
47	0	0.1	60,000	0	71,445	17,250	(5,805)	158,100	0	106,546	238,311
48	0	0.1	60,000	0	71,479	17,250	(5,771)	152,329	0	106,546	232,539
49	0	0.1	60,000	0	71,513	17,250	(5,737)	146,592	0	106,546	226,802
50	0	0.1	60,000	0	71,516	17,250	(5,734)	140,858	0	106,546	221,068
51	0	0.1	60,000	0	71,506	17,250	(5,744)	135,114	0	106,546	215,325
52	0	0.1	60,000	0	71,627	17,250	(5,623)	129,492	0	106,546	209,702
53	0.2	0.3	60,000	4	71,796	0	11,796	141,287	0	106,546	221,498
54	0.33	0.33	0	24	71,932	0	71,932	213,219	43,430	149,976	250,000
55	0.45	0.45	0	24	72,041	0	72,041	285,261	72,041	222,017	250,000
56	0	0	0	0	72,076	17,250	54,826	340,086	54,826	276,843	250,000
57	0.02	0.12	60,000	4	71,981	0	11,981	352,068	11,981	288,824	250,000
58	0	0.1	60,000	0	71,957	17,250	(5,293)	346,775	0	288,824	244,707
59	0.24	0.34	60,000	4	71,902	0	11,902	358,677	6,609	295,433	250,000
60	0.11	0.21	60,000	4	71,830	0	11,830	370,507	11,830	307,263	250,000
61	0	0.1	60,000	0	71,795	17,250	(5,455)	365,052	0	307,263	244,545
62	0	0.1	60,000	0	71,797	17,250	(5,453)	359,599	0	307,263	239,092
63	0	0.1	60,000	0	71,858	17,250	(5,392)	354,207	0	307,263	233,700
64	0	0.1	60,000	0	71,854	17,250	(5,396)	348,811	0	307,263	228,305
65	0	0.1	60,000	0	71,807	17,250	(5,443)	343,369	0	307,263	222,862
66	0	0.1	60,000	0	71,804	17,250	(5,446)	337,923	0	307,263	217,416
67	0	0.1	60,000	0	71,765	17,250	(5,485)	332,438	0	307,263	211,931
68	0	0.1	60,000	0	71,617	17,250	(5,633)	326,805	0	307,263	206,298

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
69	0.97	0.97	0	24	71,535	0	71,535	398,340	27,833	335,096	250,000
70	0	0	0	0	71,391	17,250	54,141	452,481	54,141	389,237	250,000
71	0.05	0.15	60,000	4	71,238	0	11,238	463,719	11,238	400,475	250,000
72	0	0.1	60,000	0	71,103	17,250	(6,147)	457,572	0	400,475	243,853
73	0	0.1	60,000	0	70,944	17,250	(6,306)	451,266	0	400,475	237,547
74	0	0.1	60,000	0	70,883	17,250	(6,367)	444,899	0	400,475	231,180
75	0	0.1	60,000	0	70,888	17,250	(6,362)	438,537	0	400,475	224,818
76	0	0.1	60,000	0	70,793	17,250	(6,457)	432,080	0	400,475	218,361
77	0	0.1	60,000	0	70,596	17,250	(6,654)	425,426	0	400,475	211,707
78	0.07	0.17	60,000	4	70,420	0	10,420	435,846	0	400,475	222,127
79	0	0.1	60,000	0	70,372	17,250	(6,878)	428,968	0	400,475	215,248
80	0	0.1	60,000	0	70,335	17,250	(6,915)	422,053	0	400,475	208,334
81	0	0.1	60,000	0	70,311	17,250	(6,939)	415,114	0	400,475	201,395
82	0	0.1	60,000	0	70,257	17,250	(6,993)	408,120	0	400,475	194,401
83	0	0.1	60,000	0	70,194	17,250	(7,056)	401,064	0	400,475	187,345
84	0	0.1	60,000	0	70,117	17,250	(7,133)	393,931	0	400,475	180,212
85	0	0.1	60,000	0	70,003	17,250	(7,247)	386,684	0	400,475	180,000
86	0	0.1	60,000	0	69,890	17,250	(7,360)	379,324	0	400,475	180,000
87	0	0.1	60,000	0	69,862	17,250	(7,388)	371,936	0	400,475	180,000
88	0	0.1	60,000	0	69,919	17,250	(7,331)	364,605	0	400,475	180,000
89	0	0.1	60,000	0	69,943	17,250	(7,307)	357,298	0	400,475	180,000
90	0	0.1	60,000	0	70,031	17,250	(7,219)	350,079	0	400,475	180,000
91	0.02	0.12	60,000	4	70,107	0	10,107	360,186	0	400,475	190,107
92	0	0.1	60,000	0	70,145	17,250	(7,105)	353,081	0	400,475	183,002
93	0	0.1	60,000	0	70,142	17,250	(7,108)	345,973	0	400,475	180,000
94	0	0.1	60,000	0	70,137	17,250	(7,113)	338,860	0	400,475	180,000
95	0.05	0.15	60,000	4	70,117	0	10,117	348,978	0	400,475	190,117
96	0	0.1	60,000	0	70,160	17,250	(7,090)	341,887	0	400,475	183,027
97	0.02	0.12	60,000	4	70,213	0	10,213	352,100	0	400,475	193,240
98	0	0.1	60,000	0	70,325	17,250	(6,925)	345,175	0	400,475	186,315
99	0	0.1	60,000	0	70,297	17,250	(6,953)	338,222	0	400,475	180,000
100	0	0.1	60,000	0	70,272	17,250	(6,978)	331,244	0	400,475	180,000
101	0	0.1	60,000	0	70,216	17,250	(7,034)	324,210	0	400,475	180,000
102	0	0.1	60,000	0	70,158	17,250	(7,092)	317,118	0	400,475	180,000
103	0	0.1	60,000	0	70,155	17,250	(7,095)	310,023	0	400,475	180,000
104	0	0.1	60,000	0	70,113	17,250	(7,137)	302,886	0	400,475	180,000
105	0	0.1	60,000	0	70,073	17,250	(7,177)	295,709	0	400,475	180,000
106	0	0.1	60,000	0	70,045	17,250	(7,205)	288,505	0	400,475	180,000
107	0	0.1	60,000	0	69,944	17,250	(7,306)	281,198	0	400,475	180,000
108	0	0.1	60,000	0	69,805	17,250	(7,445)	273,753	0	400,475	180,000
109	0	0.1	60,000	0	69,731	17,250	(7,519)	266,234	0	400,475	180,000
110	0	0.1	60,000	0	69,604	17,250	(7,646)	258,588	0	400,475	180,000
111	0	0.1	60,000	0	69,469	17,250	(7,781)	250,807	0	400,475	180,000
112	0	0.1	60,000	0	69,352	17,250	(7,898)	242,910	0	400,475	180,000
113	0	0.1	60,000	0	69,103	17,250	(8,147)	234,762	0	400,475	180,000
114	0	0.1	60,000	0	68,986	17,250	(8,264)	226,498	0	400,475	180,000
115	0	0.1	60,000	0	68,801	17,250	(8,449)	218,050	0	400,475	180,000
116	0	0.1	60,000	0	68,596	17,250	(8,654)	209,396	0	400,475	180,000
117	0	0.1	60,000	0	68,416	17,250	(8,834)	200,562	0	400,475	180,000
118	0	0.1	60,000	0	68,189	17,250	(9,061)	191,501	0	400,475	180,000
119	0	0.1	60,000	0	68,041	17,250	(9,209)	182,292	0	400,475	180,000
120	0	0.1	60,000	0	68,002	17,250	(9,248)	173,044	0	400,475	180,000
121	0	0.1	60,000	0	67,971	17,250	(9,279)	163,764	0	400,475	180,000
122	0	0.1	60,000	0	67,868	17,250	(9,382)	154,382	0	400,475	180,000
123	0	0.1	60,000	0	67,722	17,250	(9,528)	144,854	0	400,475	180,000
124	0	0.1	60,000	0	67,608	17,250	(9,642)	135,212	0	400,475	180,000
125	0	0.1	60,000	0	67,545	17,250	(9,705)	125,506	0	400,475	180,000
126	0	0.1	60,000	0	67,535	17,250	(9,715)	115,791	0	400,475	180,000
127	0	0.1	60,000	0	67,537	17,250	(9,713)	106,078	0	400,475	180,000
128	0	0.1	60,000	0	67,542	17,250	(9,708)	96,370	0	400,475	180,000
129	0	0.1	60,000	0	67,538	17,250	(9,712)	86,658	0	400,475	180,000
130	0	0.1	60,000	0	67,490	17,250	(9,760)	76,898	0	400,475	180,000
131	0	0.1	60,000	0	67,466	17,250	(9,784)	67,114	0	400,475	180,000
132	0	0.1	60,000	0	67,431	17,250	(9,819)	57,295	0	400,475	180,000
133	0	0.1	60,000	0	67,420	17,250	(9,830)	47,464	0	400,475	180,000
134	0	0.1	60,000	0	67,457	17,250	(9,793)	37,671	0	400,475	180,000
135	0	0.1	60,000	0	67,484	17,250	(9,766)	27,904	0	400,475	180,000
136	0.01	0.11	60,000	4	67,528	0	7,528	35,433	0	400,475	187,528

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
137	0	0.1	60,000	0	67,591	17,250	(9,659)	25,774	0	400,475	180,000
138	0	0.1	60,000	0	67,609	17,250	(9,641)	16,133	0	400,475	180,000
139	0.01	0.11	60,000	4	67,771	0	7,771	23,904	0	400,475	187,771
140	0	0.1	60,000	0	67,881	17,250	(9,369)	14,535	0	400,475	180,000
141	0	0.1	60,000	0	67,897	17,250	(9,353)	5,182	0	400,475	180,000
142	0	0.1	60,000	0	67,904	17,250	(9,346)	(4,164)	0	400,475	180,000
143	0	0.1	60,000	0	67,903	17,250	(9,347)	(13,511)	0	400,475	180,000
144	0.47	0.47	0	24	67,933	0	67,933	54,422	0	400,475	247,933
145	0.18	0.18	0	4	67,915	0	67,915	122,337	65,848	466,323	250,000
146	0	0.1	60,000	0	67,880	17,250	(9,370)	112,966	0	466,323	240,630
147	0	0.1	60,000	0	67,848	17,250	(9,402)	103,564	0	466,323	231,227
148	0	0.1	60,000	0	67,788	17,250	(9,462)	94,101	0	466,323	221,765
149	0	0.1	60,000	0	67,777	17,250	(9,473)	84,629	0	466,323	212,292
150	0	0.1	60,000	0	67,772	17,250	(9,478)	75,150	0	466,323	202,814
151	0	0.1	60,000	0	67,778	17,250	(9,472)	65,679	0	466,323	193,342
152	0	0.1	60,000	0	67,760	17,250	(9,490)	56,189	0	466,323	183,852
153	0.18	0.28	60,000	4	67,632	0	7,632	63,821	0	466,323	191,484
154	0	0.1	60,000	0	67,577	17,250	(9,673)	54,148	0	466,323	181,811
155	0.54	0.54	0	24	67,506	0	67,506	121,654	0	466,323	249,317
156	0	0	0	0	67,400	17,250	50,150	171,803	49,467	515,790	250,000
157	0	0.1	60,000	0	67,311	17,250	(9,939)	161,864	0	515,790	240,061
158	0	0.1	60,000	0	67,244	17,250	(10,006)	151,859	0	515,790	230,055
159	0	0.1	60,000	0	67,192	17,250	(10,058)	141,801	0	515,790	219,998
160	0	0.1	60,000	0	67,177	17,250	(10,073)	131,728	0	515,790	209,925
161	0.09	0.19	60,000	4	67,143	0	7,143	138,871	0	515,790	217,067
162	0	0.1	60,000	0	67,118	17,250	(10,132)	128,738	0	515,790	206,935
163	0	0.1	60,000	0	67,050	17,250	(10,200)	118,539	0	515,790	196,735
164	0	0.1	60,000	0	67,008	17,250	(10,242)	108,296	0	515,790	186,493
165	0	0.1	60,000	0	67,008	17,250	(10,242)	98,054	0	515,790	180,000
166	0	0.1	60,000	0	66,965	17,250	(10,285)	87,769	0	515,790	180,000
167	0	0.1	60,000	0	66,947	17,250	(10,303)	77,467	0	515,790	180,000
168	0.1	0.2	60,000	4	66,872	0	6,872	84,339	0	515,790	186,872
169	1.25	1.25	0	48	66,728	0	66,728	151,066	3,600	519,390	250,000
170	0.12	0.12	0	4	66,581	0	66,581	217,647	66,581	585,970	250,000
171	0	0	0	0	66,490	17,250	49,240	266,887	49,240	635,210	250,000
172	0	0.1	60,000	0	66,433	17,250	(10,817)	256,070	0	635,210	239,183
173	0	0.1	60,000	0	66,427	17,250	(10,823)	245,247	0	635,210	228,360
174	0	0.1	60,000	0	66,422	17,250	(10,828)	234,418	0	635,210	217,532
175	0	0.1	60,000	0	66,407	17,250	(10,843)	223,576	0	635,210	206,689
176	0	0.1	60,000	0	66,355	17,250	(10,895)	212,681	0	635,210	195,794
177	0	0.1	60,000	0	66,289	17,250	(10,961)	201,720	0	635,210	184,833
178	0.08	0.18	60,000	4	66,215	0	6,215	207,935	0	635,210	191,048
179	0	0.1	60,000	0	66,156	17,250	(11,094)	196,841	0	635,210	180,000
180	0.45	0.45	0	24	66,096	0	66,096	262,937	0	635,210	246,096
181	0.34	0.34	0	24	66,006	0	66,006	328,943	62,102	697,313	250,000
182	0	0	0	0	65,888	17,250	48,638	377,582	48,638	745,951	250,000
183	0	0.1	60,000	0	65,791	17,250	(11,459)	366,122	0	745,951	238,541
184	0.93	0.93	0	24	65,744	0	65,744	431,866	54,284	800,235	250,000
185	0.07	0.07	0	4	65,796	0	65,796	497,662	65,796	866,031	250,000
186	0.04	0.14	60,000	4	65,841	0	5,841	503,503	5,841	871,872	250,000
187	0.58	0.58	0	24	65,887	0	65,887	569,390	65,887	937,759	250,000
188	0	0	0	0	65,912	17,250	48,662	618,052	48,662	986,422	250,000
189	0	0.1	60,000	0	65,896	17,250	(11,354)	606,698	0	986,422	238,646
190	1.4	1.4	0	48	65,861	0	65,861	672,559	54,507	1,040,928	250,000
191	0.96	0.96	0	24	65,863	0	65,863	738,422	65,863	1,106,792	250,000
192	0.24	0.24	0	4	65,868	0	65,868	804,290	65,868	1,172,659	250,000
193	0.72	0.72	0	24	65,861	0	65,861	870,151	65,861	1,238,521	250,000
194	0	0	0	0	65,881	17,250	48,631	918,783	48,631	1,287,152	250,000
195	0.73	0.73	0	24	65,894	0	65,894	984,677	65,894	1,353,046	250,000
196	2.06	2.06	0	48	65,908	0	65,908	1,050,584	65,908	1,418,954	250,000
197	1.1	1.1	0	48	65,907	0	65,907	1,116,491	65,907	1,484,861	250,000
198	0.77	0.77	0	24	65,911	0	65,911	1,182,403	65,911	1,550,772	250,000
199	1.43	1.43	0	48	65,908	0	65,908	1,248,310	65,908	1,616,680	250,000
200	0	0	0	0	65,905	17,250	48,655	1,296,965	48,655	1,665,335	250,000
201	0.05	0.05	0	4	65,896	0	65,896	1,362,861	65,896	1,731,230	250,000
202	0	0.1	60,000	0	65,875	17,250	(11,375)	1,351,486	0	1,731,230	238,625
203	0	0.1	60,000	0	65,833	17,250	(11,417)	1,340,068	0	1,731,230	227,207
204	0	0.1	60,000	0	65,763	17,250	(11,487)	1,328,581	0	1,731,230	215,720

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
205	0.34	0.34	0	24	65,755	0	65,755	1,394,337	31,476	1,762,706	250,000
206	0	0	0	0	65,779	17,250	48,529	1,442,866	48,529	1,811,235	250,000
207	0.02	0.12	60,000	4	65,824	0	5,824	1,448,690	5,824	1,817,059	250,000
208	0.11	0.21	60,000	4	65,842	0	5,842	1,454,532	5,842	1,822,901	250,000
209	0	0.1	60,000	0	65,869	17,250	(11,381)	1,443,151	0	1,822,901	238,619
210	0.59	0.59	0	24	65,777	0	65,777	1,508,928	54,396	1,877,298	250,000
211	0	0	0	0	65,758	17,250	48,508	1,557,436	48,508	1,925,805	250,000
212	0	0.1	60,000	0	65,656	17,250	(11,594)	1,545,842	0	1,925,805	238,406
213	0	0.1	60,000	0	65,537	17,250	(11,713)	1,534,129	0	1,925,805	226,693
214	0	0.1	60,000	0	65,412	17,250	(11,838)	1,522,291	0	1,925,805	214,855
215	0	0.1	60,000	0	65,332	17,250	(11,918)	1,510,373	0	1,925,805	202,937
216	0.29	0.29	0	24	65,286	0	65,286	1,575,658	18,222	1,944,028	250,000
217	0.11	0.21	60,000	4	65,295	0	5,295	1,580,953	5,295	1,949,322	250,000
218	0.26	0.26	0	24	65,342	0	65,342	1,646,295	65,342	2,014,665	250,000
219	0.06	0.16	60,000	4	65,428	0	5,428	1,651,724	5,428	2,020,093	250,000
220	0.75	0.75	0	24	65,528	0	65,528	1,717,252	65,528	2,085,621	250,000
221	0	0	0	0	65,617	17,250	48,367	1,765,618	48,367	2,133,988	250,000
222	0.23	0.33	60,000	4	65,614	0	5,614	1,771,232	5,614	2,139,602	250,000
223	0	0.1	60,000	0	65,596	17,250	(11,654)	1,759,578	0	2,139,602	238,346
224	0.02	0.12	60,000	4	65,594	0	5,594	1,765,173	0	2,139,602	243,940
225	0.31	0.31	0	24	65,544	0	65,544	1,830,717	59,485	2,199,086	250,000
226	0	0	0	0	65,500	17,250	48,250	1,878,967	48,250	2,247,337	250,000
227	0.1	0.2	60,000	4	65,445	0	5,445	1,884,412	5,445	2,252,782	250,000
228	0	0.1	60,000	0	65,432	17,250	(11,818)	1,872,594	0	2,252,782	238,182
229	0.06	0.16	60,000	4	65,425	0	5,425	1,878,019	0	2,252,782	243,607
230	2.73	2.73	0	48	65,441	0	65,441	1,943,460	59,048	2,311,829	250,000
231	0	0	0	0	65,483	17,250	48,233	1,991,693	48,233	2,360,063	250,000
232	0.03	0.03	0	4	65,475	0	65,475	2,057,168	65,475	2,425,538	250,000
233	0	0.1	60,000	0	65,425	17,250	(11,825)	2,045,343	0	2,425,538	238,175
234	0.08	0.18	60,000	4	65,339	0	5,339	2,050,683	0	2,425,538	243,515
235	0.02	0.12	60,000	4	65,269	0	5,269	2,055,952	0	2,425,538	248,783
236	0.05	0.15	60,000	4	65,230	0	5,230	2,061,182	4,014	2,429,551	250,000
237	0.4	0.4	0	24	65,214	0	65,214	2,126,396	65,214	2,494,765	250,000
238	0.01	0.01	0	4	65,144	0	65,144	2,191,540	65,144	2,559,909	250,000
239	0.31	0.31	0	24	65,021	0	65,021	2,256,561	65,021	2,624,931	250,000
240	0	0	0	0	64,870	17,250	47,620	2,304,181	47,620	2,672,550	250,000
241	1.21	1.21	0	48	64,624	0	64,624	2,368,805	64,624	2,737,174	250,000
242	0.4	0.4	0	24	64,437	0	64,437	2,433,242	64,437	2,801,612	250,000
243	0.18	0.18	0	4	64,286	0	64,286	2,497,528	64,286	2,865,898	250,000
244	0.26	0.26	0	24	64,159	0	64,159	2,561,687	64,159	2,930,056	250,000
245	0.11	0.11	0	4	64,068	0	64,068	2,625,755	64,068	2,994,124	250,000
246	0	0.1	60,000	0	63,972	17,250	(13,278)	2,612,477	0	2,994,124	236,722
247	0	0.1	60,000	0	63,878	17,250	(13,372)	2,599,105	0	2,994,124	223,350
248	0.1	0.2	60,000	4	63,753	0	3,753	2,602,858	0	2,994,124	227,103
249	0.59	0.59	0	24	63,606	0	63,606	2,666,464	40,709	3,034,833	250,000
250	0	0	0	0	63,386	17,250	46,136	2,712,600	46,136	3,080,969	250,000
251	0	0.1	60,000	0	63,080	17,250	(14,170)	2,698,430	0	3,080,969	235,830
252	0	0.1	60,000	0	62,808	17,250	(14,442)	2,683,988	0	3,080,969	221,388
253	0	0.1	60,000	0	62,525	17,250	(14,725)	2,669,263	0	3,080,969	206,663
254	0	0.1	60,000	0	62,253	17,250	(14,997)	2,654,266	0	3,080,969	191,666
255	0	0.1	60,000	0	61,994	17,250	(15,256)	2,639,010	0	3,080,969	180,000
256	1.11	1.11	0	48	61,835	0	61,835	2,700,845	0	3,080,969	241,835
257	0.19	0.19	0	4	61,718	0	61,718	2,762,563	53,554	3,134,523	250,000
258	0.15	0.15	0	4	62,065	0	62,065	2,824,629	62,065	3,196,588	250,000
259	0	0.1	60,000	0	62,394	17,250	(14,856)	2,809,773	0	3,196,588	235,144
260	0.01	0.11	60,000	4	62,217	0	2,217	2,811,990	0	3,196,588	237,361
261	0	0.1	60,000	0	62,155	17,250	(15,095)	2,796,895	0	3,196,588	222,266
262	0.12	0.22	60,000	4	62,015	0	2,015	2,798,910	0	3,196,588	224,281
263	0.13	0.23	60,000	4	61,851	17,250	(15,399)	2,783,511	0	3,196,588	208,882
264	0	0.1	60,000	0	61,710	17,250	(15,540)	2,767,971	0	3,196,588	193,342
265	0	0.1	60,000	0	61,516	17,250	(15,734)	2,752,237	0	3,196,588	180,000
266	0	0.1	60,000	0	61,343	17,250	(15,907)	2,736,329	0	3,196,588	180,000
267	0	0.1	60,000	0	61,232	17,250	(16,018)	2,720,312	0	3,196,588	180,000
268	0	0.1	60,000	0	61,221	17,250	(16,029)	2,704,283	0	3,196,588	180,000
269	0	0.1	60,000	0	61,272	17,250	(15,978)	2,688,305	0	3,196,588	180,000
270	0.76	0.76	0	24	61,379	0	61,379	2,749,684	0	3,196,588	241,379
271	0.29	0.29	0	24	61,434	0	61,434	2,811,118	52,813	3,249,401	250,000
272	0.07	0.07	0	4	61,499	0	61,499	2,872,617	61,499	3,310,900	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
273	0	0.1	60,000	0	61,457	17,250	(15,793)	2,856,825	0	3,310,900	234,207
274	0.45	0.45	0	24	61,324	0	61,324	2,918,149	45,532	3,356,432	250,000
275	0.25	0.25	0	4	61,192	0	61,192	2,979,341	61,192	3,417,624	250,000
276	0	0.1	60,000	0	61,123	17,250	(16,127)	2,963,214	0	3,417,624	233,873
277	0.11	0.21	60,000	4	61,083	0	1,083	2,964,297	0	3,417,624	234,956
278	0.53	0.53	0	24	61,026	0	61,026	3,025,323	45,982	3,463,606	250,000
279	0	0	0	0	60,975	17,250	43,725	3,069,048	43,725	3,507,331	250,000
280	0.9	0.9	0	24	60,965	0	60,965	3,130,013	60,965	3,568,296	250,000
281	0.16	0.26	60,000	4	60,952	0	952	3,130,965	952	3,569,248	250,000
282	0.36	0.36	0	24	60,972	0	60,972	3,191,936	60,972	3,630,219	250,000
283	0	0	0	0	61,010	17,250	43,760	3,235,696	43,760	3,673,979	250,000
284	0	0.1	60,000	0	61,029	17,250	(16,221)	3,219,475	0	3,673,979	233,779
285	0	0.1	60,000	0	61,144	17,250	(16,106)	3,203,369	0	3,673,979	217,673
286	0	0.1	60,000	0	61,204	17,250	(16,046)	3,187,323	0	3,673,979	201,627
287	0	0.1	60,000	0	61,121	17,250	(16,129)	3,171,194	0	3,673,979	185,498
288	0	0.1	60,000	0	61,049	17,250	(16,201)	3,154,993	0	3,673,979	180,000
289	0.12	0.22	60,000	4	61,030	0	1,030	3,156,022	0	3,673,979	181,030
290	0	0.1	60,000	0	61,109	17,250	(16,141)	3,139,882	0	3,673,979	180,000
291	0	0.1	60,000	0	61,225	17,250	(16,025)	3,123,857	0	3,673,979	180,000
292	0.01	0.11	60,000	4	61,283	0	1,283	3,125,140	0	3,673,979	181,283
293	0	0.1	60,000	0	61,270	17,250	(15,980)	3,109,160	0	3,673,979	180,000
294	0	0.1	60,000	0	61,199	17,250	(16,051)	3,093,110	0	3,673,979	180,000
295	0	0.1	60,000	0	61,111	17,250	(16,139)	3,076,970	0	3,673,979	180,000
296	0	0.1	60,000	0	61,011	17,250	(16,239)	3,060,732	0	3,673,979	180,000
297	0	0.1	60,000	0	60,930	17,250	(16,320)	3,044,411	0	3,673,979	180,000
298	0.66	0.66	0	24	60,857	0	60,857	3,105,268	0	3,673,979	240,857
299	0	0	0	0	60,778	17,250	43,528	3,148,796	34,385	3,708,364	250,000
300	0	0.1	60,000	0	60,689	17,250	(16,561)	3,132,235	0	3,708,364	233,439
301	0	0.1	60,000	0	60,650	17,250	(16,600)	3,115,635	0	3,708,364	216,839
302	0	0.1	60,000	0	60,606	17,250	(16,644)	3,098,991	0	3,708,364	200,195
303	0	0.1	60,000	0	60,523	17,250	(16,727)	3,082,263	0	3,708,364	183,467
304	0	0.1	60,000	0	60,427	17,250	(16,823)	3,065,440	0	3,708,364	180,000
305	0	0.1	60,000	0	60,343	17,250	(16,907)	3,048,534	0	3,708,364	180,000
306	0	0.1	60,000	0	60,286	17,250	(16,964)	3,031,570	0	3,708,364	180,000
307	0	0.1	60,000	0	60,323	17,250	(16,927)	3,014,643	0	3,708,364	180,000
308	0	0.1	60,000	0	60,412	17,250	(16,838)	2,997,805	0	3,708,364	180,000
309	0	0.1	60,000	0	60,511	17,250	(16,739)	2,981,066	0	3,708,364	180,000
310	0	0.1	60,000	0	60,572	17,250	(16,678)	2,964,388	0	3,708,364	180,000
311	0	0.1	60,000	0	60,543	17,250	(16,707)	2,947,681	0	3,708,364	180,000
312	0	0.1	60,000	0	60,452	17,250	(16,798)	2,930,884	0	3,708,364	180,000
313	0	0.1	60,000	0	60,487	17,250	(16,763)	2,914,121	0	3,708,364	180,000
314	0	0.1	60,000	0	60,541	17,250	(16,709)	2,897,412	0	3,708,364	180,000
315	0	0.1	60,000	0	60,569	17,250	(16,681)	2,880,731	0	3,708,364	180,000
316	0	0.1	60,000	0	60,546	17,250	(16,704)	2,864,027	0	3,708,364	180,000
317	0	0.1	60,000	0	60,547	17,250	(16,703)	2,847,324	0	3,708,364	180,000
318	0	0.1	60,000	0	60,524	17,250	(16,726)	2,830,598	0	3,708,364	180,000
319	0	0.1	60,000	0	60,499	17,250	(16,751)	2,813,846	0	3,708,364	180,000
320	0	0.1	60,000	0	60,488	17,250	(16,762)	2,797,085	0	3,708,364	180,000
321	0	0.1	60,000	0	60,431	17,250	(16,819)	2,780,266	0	3,708,364	180,000
322	0	0.1	60,000	0	60,361	17,250	(16,889)	2,763,377	0	3,708,364	180,000
323	0	0.1	60,000	0	60,303	17,250	(16,947)	2,746,431	0	3,708,364	180,000
324	0	0.1	60,000	0	60,214	17,250	(17,036)	2,729,395	0	3,708,364	180,000
325	0	0.1	60,000	0	60,128	17,250	(17,122)	2,712,273	0	3,708,364	180,000
326	0	0.1	60,000	0	59,994	17,250	(17,256)	2,695,017	0	3,708,364	180,000
327	0	0.1	60,000	0	59,859	17,250	(17,391)	2,677,625	0	3,708,364	180,000
328	0	0.1	60,000	0	59,679	17,250	(17,571)	2,660,055	0	3,708,364	180,000
329	0	0.1	60,000	0	59,508	17,250	(17,742)	2,642,313	0	3,708,364	180,000
330	0	0.1	60,000	0	59,351	17,250	(17,899)	2,624,413	0	3,708,364	180,000
331	0	0.1	60,000	0	59,201	17,250	(18,049)	2,606,364	0	3,708,364	180,000
332	0	0.1	60,000	0	59,049	17,250	(18,201)	2,588,163	0	3,708,364	180,000
333	0	0.1	60,000	0	58,896	17,250	(18,354)	2,569,809	0	3,708,364	180,000
334	0	0.1	60,000	0	58,748	17,250	(18,502)	2,551,307	0	3,708,364	180,000
335	0.71	0.71	0	24	58,438	0	58,438	2,607,745	0	3,708,364	236,438
336	0	0	0	0	55,656	17,250	38,406	2,646,151	24,845	3,733,208	250,000
337	0	0.1	60,000	0	55,607	17,250	(21,643)	2,624,508	0	3,733,208	228,357
338	0	0.1	60,000	0	55,513	17,250	(21,737)	2,602,771	0	3,733,208	206,620
339	0	0.1	60,000	0	55,456	17,250	(21,794)	2,580,977	0	3,733,208	184,826
340	0	0.1	60,000	0	55,391	17,250	(21,859)	2,559,118	0	3,733,208	180,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
341	0.77	0.77	0	24	55,341	0	55,341	2,614,459	0	3,733,208	235,341
342	0.47	0.47	0	24	55,337	0	55,337	2,669,796	40,677	3,773,886	250,000
343	0	0	0	0	55,248	17,250	37,998	2,707,794	37,998	3,811,884	250,000
344	0.1	0.2	60,000	4	55,202	0	(4,798)	2,702,996	0	3,811,884	245,202
345	0	0.1	60,000	0	55,209	17,250	(22,041)	2,680,955	0	3,811,884	223,161
346	0.01	0.11	60,000	4	55,212	0	(4,788)	2,676,167	0	3,811,884	218,373
347	0.31	0.31	0	24	55,201	0	55,201	2,731,368	23,575	3,835,458	250,000
348	0	0	0	0	55,223	17,250	37,973	2,769,342	37,973	3,873,432	250,000
349	0.3	0.3	0	24	55,268	0	55,268	2,824,610	55,268	3,928,700	250,000
350	0.37	0.37	0	24	55,369	0	55,369	2,879,979	55,369	3,984,069	250,000
351	0	0	0	0	55,450	17,250	38,200	2,918,179	38,200	4,022,269	250,000
352	0	0.1	60,000	0	55,478	17,250	(21,772)	2,896,407	0	4,022,269	228,228
353	0	0.1	60,000	0	55,502	17,250	(21,748)	2,874,658	0	4,022,269	206,480
354	0	0.1	60,000	0	55,464	17,250	(21,786)	2,852,872	0	4,022,269	184,693
355	0	0.1	60,000	0	55,487	17,250	(21,763)	2,831,110	0	4,022,269	180,000
356	0	0.1	60,000	0	59,454	17,250	(17,796)	2,813,313	0	4,022,269	180,000
357	0	0.1	60,000	0	59,503	17,250	(17,747)	2,795,566	0	4,022,269	180,000
358	0.64	0.64	0	24	59,617	0	59,617	2,855,183	0	4,022,269	239,617
359	1.05	1.05	0	48	59,742	0	59,742	2,914,925	49,359	4,071,628	250,000
360	0	0	0	0	59,837	17,250	42,587	2,957,512	42,587	4,114,215	250,000
361	0	0	0	0	59,927	17,250	42,677	3,000,190	42,677	4,156,892	250,000
362	0	0.1	60,000	0	59,924	17,250	(17,326)	2,982,864	0	4,156,892	232,674
363	0	0.1	60,000	0	59,860	17,250	(17,390)	2,965,473	0	4,156,892	215,284
364	0	0.1	60,000	0	60,041	17,250	(17,209)	2,948,264	0	4,156,892	198,074
365	0	0.1	60,000	0	60,209	17,250	(17,041)	2,931,223	0	4,156,892	181,033
366	0	0.1	60,000	0	60,203	17,250	(17,047)	2,914,176	0	4,156,892	180,000
367	0	0.1	60,000	0	60,231	17,250	(17,019)	2,897,156	0	4,156,892	180,000
368	0	0.1	60,000	0	60,301	17,250	(16,949)	2,880,207	0	4,156,892	180,000
369	0.5	0.5	0	24	60,411	0	60,411	2,940,618	0	4,156,892	240,411
370	0	0	0	0	60,501	17,250	43,251	2,983,869	33,661	4,190,554	250,000
371	0	0.1	60,000	0	60,605	17,250	(16,645)	2,967,223	0	4,190,554	233,355
372	0	0.1	60,000	0	60,671	17,250	(16,579)	2,950,644	0	4,190,554	216,776
373	0	0.1	60,000	0	60,725	17,250	(16,525)	2,934,120	0	4,190,554	200,251
374	0	0.1	60,000	0	60,762	17,250	(16,488)	2,917,632	0	4,190,554	183,764
375	0	0.1	60,000	0	60,795	17,250	(16,455)	2,901,177	0	4,190,554	180,000
376	1.42	1.42	0	48	60,836	0	60,836	2,962,013	0	4,190,554	240,836
377	0.03	0.03	0	4	60,871	0	60,871	3,022,884	51,707	4,242,260	250,000
378	0	0	0	0	60,912	17,250	43,662	3,066,546	43,662	4,285,923	250,000
379	0	0.1	60,000	0	60,927	17,250	(16,323)	3,050,223	0	4,285,923	233,677
380	0	0.1	60,000	0	60,879	17,250	(16,371)	3,033,853	0	4,285,923	217,307
381	0.02	0.12	60,000	4	60,801	0	801	3,034,653	0	4,285,923	218,107
382	0.46	0.46	0	24	60,794	0	60,794	3,095,447	28,901	4,314,824	250,000
383	0	0	0	0	60,790	17,250	43,540	3,138,987	43,540	4,358,364	250,000
384	0	0.1	60,000	0	60,689	17,250	(16,561)	3,122,426	0	4,358,364	233,439
385	0	0.1	60,000	0	60,550	17,250	(16,700)	3,105,727	0	4,358,364	216,739
386	0	0.1	60,000	0	60,362	17,250	(16,888)	3,088,838	0	4,358,364	199,851
387	0	0.1	60,000	0	60,164	17,250	(17,086)	3,071,753	0	4,358,364	182,765
388	1.37	1.37	0	48	59,995	0	59,995	3,131,747	0	4,358,364	242,760
389	0	0	0	0	59,867	17,250	42,617	3,174,364	35,377	4,393,741	250,000
390	0	0	0	0	59,795	17,250	42,545	3,216,909	42,545	4,436,285	250,000
391	0	0.1	60,000	0	59,750	17,250	(17,500)	3,199,409	0	4,436,285	232,500
392	0	0.1	60,000	0	59,642	17,250	(17,608)	3,181,801	0	4,436,285	214,892
393	0	0.1	60,000	0	59,531	17,250	(17,719)	3,164,083	0	4,436,285	197,174
394	0	0.1	60,000	0	59,405	17,250	(17,845)	3,146,238	0	4,436,285	180,000
395	0	0.1	60,000	0	59,187	17,250	(18,063)	3,128,175	0	4,436,285	180,000
396	0	0.1	60,000	0	59,012	17,250	(18,238)	3,109,936	0	4,436,285	180,000
397	0	0.1	60,000	0	59,006	17,250	(18,244)	3,091,693	0	4,436,285	180,000
398	0	0.1	60,000	0	59,152	17,250	(18,098)	3,073,595	0	4,436,285	180,000
399	0	0.1	60,000	0	59,249	17,250	(18,001)	3,055,594	0	4,436,285	180,000
400	0	0.1	60,000	0	59,228	17,250	(18,022)	3,037,572	0	4,436,285	180,000
401	0	0.1	60,000	0	59,101	17,250	(18,149)	3,019,423	0	4,436,285	180,000
402	0	0.1	60,000	0	58,994	17,250	(18,256)	3,001,167	0	4,436,285	180,000
403	0.01	0.11	60,000	4	58,924	0	(1,076)	3,000,091	0	4,436,285	180,000
404	0	0.1	60,000	0	58,898	17,250	(18,352)	2,981,739	0	4,436,285	180,000
405	0.08	0.18	60,000	4	58,894	0	(1,106)	2,980,634	0	4,436,285	180,000
406	0.69	0.69	0	24	58,960	0	58,960	3,039,594	0	4,436,285	238,960
407	0	0	0	0	58,993	17,250	41,743	3,081,336	30,702	4,466,988	250,000
408	0	0.1	60,000	0	59,004	17,250	(18,246)	3,063,090	0	4,466,988	231,754

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
409	0	0.1	60,000	0	59,074	17,250	(18,176)	3,044,914	0	4,466,988	213,578
410	0	0.1	60,000	0	59,139	17,250	(18,111)	3,026,803	0	4,466,988	195,467
411	0	0.1	60,000	0	59,153	17,250	(18,097)	3,008,706	0	4,466,988	180,000
412	0	0.1	60,000	0	59,066	17,250	(18,184)	2,990,522	0	4,466,988	180,000
413	0	0.1	60,000	0	58,997	17,250	(18,253)	2,972,270	0	4,466,988	180,000
414	0	0.1	60,000	0	59,571	17,250	(17,679)	2,954,591	0	4,466,988	180,000
415	0	0.1	60,000	0	60,098	17,250	(17,152)	2,937,439	0	4,466,988	180,000
416	0	0.1	60,000	0	60,131	17,250	(17,119)	2,920,319	0	4,466,988	180,000
417	0.1	0.2	60,000	4	60,134	0	134	2,920,454	0	4,466,988	180,134
418	1.47	1.47	0	48	60,136	0	60,136	2,980,590	0	4,466,988	240,271
419	0	0	0	0	60,117	17,250	42,867	3,023,457	33,137	4,500,125	250,000
420	0.16	0.16	0	4	60,055	0	60,055	3,083,512	60,055	4,560,181	250,000
421	0.31	0.31	0	24	60,006	0	60,006	3,143,518	60,006	4,620,186	250,000
422	0.3	0.3	0	24	59,983	0	59,983	3,203,501	59,983	4,680,169	250,000
423	0	0	0	0	59,912	17,250	42,662	3,246,162	42,662	4,722,830	250,000
424	0	0.1	60,000	0	59,849	17,250	(17,401)	3,228,761	0	4,722,830	232,599
425	0	0.1	60,000	0	59,730	17,250	(17,520)	3,211,242	0	4,722,830	215,079
426	0	0.1	60,000	0	59,677	17,250	(17,573)	3,193,668	0	4,722,830	197,506
427	0	0.1	60,000	0	59,615	17,250	(17,635)	3,176,033	0	4,722,830	180,000
428	0	0.1	60,000	0	59,526	17,250	(17,724)	3,158,310	0	4,722,830	180,000
429	0	0.1	60,000	0	59,392	17,250	(17,858)	3,140,452	0	4,722,830	180,000
430	0	0.1	60,000	0	59,264	17,250	(17,986)	3,122,466	0	4,722,830	180,000
431	0	0.1	60,000	0	59,137	17,250	(18,113)	3,104,353	0	4,722,830	180,000
432	0	0.1	60,000	0	59,042	17,250	(18,208)	3,086,145	0	4,722,830	180,000
433	0	0.1	60,000	0	58,935	17,250	(18,315)	3,067,830	0	4,722,830	180,000
434	0	0.1	60,000	0	58,813	17,250	(18,437)	3,049,393	0	4,722,830	180,000
435	1.18	1.18	0	48	56,615	0	56,615	3,106,007	0	4,722,830	236,615
436	0	0	0	0	55,891	17,250	38,641	3,144,649	25,256	4,748,087	250,000
437	0	0	0	0	55,784	17,250	38,534	3,183,183	38,534	4,786,621	250,000
438	0	0.1	60,000	0	55,681	17,250	(21,569)	3,161,614	0	4,786,621	228,431
439	0	0.1	60,000	0	55,576	17,250	(21,674)	3,139,940	0	4,786,621	206,757
440	0	0.1	60,000	0	55,447	17,250	(21,803)	3,118,138	0	4,786,621	184,955
441	0	0.1	60,000	0	55,348	17,250	(21,902)	3,096,236	0	4,786,621	180,000
442	0	0.1	60,000	0	55,335	17,250	(21,915)	3,074,321	0	4,786,621	180,000
443	0	0.1	60,000	0	55,375	17,250	(21,875)	3,052,446	0	4,786,621	180,000
444	0	0.1	60,000	0	55,443	17,250	(21,807)	3,030,639	0	4,786,621	180,000
445	0	0.1	60,000	0	55,520	17,250	(21,730)	3,008,909	0	4,786,621	180,000
446	0.2	0.3	60,000	4	56,491	0	(3,509)	3,005,399	0	4,786,621	180,000
447	0	0.1	60,000	0	59,288	17,250	(17,962)	2,987,437	0	4,786,621	180,000
448	0	0.1	60,000	0	59,349	17,250	(17,901)	2,969,536	0	4,786,621	180,000
449	0.02	0.12	60,000	4	59,452	0	(548)	2,968,988	0	4,786,621	180,000
450	2.41	2.41	0	48	59,526	0	59,526	3,028,514	0	4,786,621	239,526
451	0	0	0	0	59,569	17,250	42,319	3,070,833	31,845	4,818,466	250,000
452	0	0	0	0	59,599	17,250	42,349	3,113,182	42,349	4,860,815	250,000
453	0	0.1	60,000	0	59,587	17,250	(17,663)	3,095,518	0	4,860,815	232,337
454	0	0.1	60,000	0	59,450	17,250	(17,800)	3,077,719	0	4,860,815	214,537
455	0	0.1	60,000	0	59,486	17,250	(17,764)	3,059,955	0	4,860,815	196,773
456	0	0.1	60,000	0	59,554	17,250	(17,696)	3,042,259	0	4,860,815	180,000
457	0	0.1	60,000	0	59,429	17,250	(17,821)	3,024,438	0	4,860,815	180,000
458	0	0.1	60,000	0	59,267	17,250	(17,983)	3,006,455	0	4,860,815	180,000
459	0	0.1	60,000	0	59,097	17,250	(18,153)	2,988,302	0	4,860,815	180,000
460	0	0.1	60,000	0	59,007	17,250	(18,243)	2,970,059	0	4,860,815	180,000
461	0	0.1	60,000	0	59,023	17,250	(18,227)	2,951,831	0	4,860,815	180,000
462	0	0.1	60,000	0	56,466	17,250	(20,784)	2,931,047	0	4,860,815	180,000
463	0	0.1	60,000	0	55,567	17,250	(21,683)	2,909,364	0	4,860,815	180,000
464	0	0.1	60,000	0	55,454	17,250	(21,796)	2,887,568	0	4,860,815	180,000
465	0	0.1	60,000	0	55,404	17,250	(21,846)	2,865,723	0	4,860,815	180,000
466	0	0.1	60,000	0	59,455	17,250	(17,795)	2,847,927	0	4,860,815	180,000
467	0	0.1	60,000	0	59,466	17,250	(17,784)	2,830,144	0	4,860,815	180,000
468	0	0.1	60,000	0	59,447	17,250	(17,803)	2,812,340	0	4,860,815	180,000
469	0	0.1	60,000	0	59,530	17,250	(17,720)	2,794,621	0	4,860,815	180,000
470	0	0.1	60,000	0	59,698	17,250	(17,552)	2,777,069	0	4,860,815	180,000
471	0	0.1	60,000	0	59,897	17,250	(17,353)	2,759,716	0	4,860,815	180,000
472	0	0.1	60,000	0	59,999	17,250	(17,251)	2,742,465	0	4,860,815	180,000
473	0	0.1	60,000	0	60,198	17,250	(17,052)	2,725,413	0	4,860,815	180,000
474	0.21	0.31	60,000	4	60,123	0	123	2,725,536	0	4,860,815	180,123
475	0	0.1	60,000	0	59,966	17,250	(17,284)	2,708,252	0	4,860,815	180,000
476	0	0.1	60,000	0	59,960	17,250	(17,290)	2,690,961	0	4,860,815	180,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
477	0.08	0.18	60,000	4	60,051	0	51	2,691,012	0	4,860,815	180,051
478	0.26	0.26	0	24	60,074	0	60,074	2,751,086	0	4,860,815	240,125
479	0.36	0.36	0	24	60,025	0	60,025	2,811,111	50,150	4,910,965	250,000
480	0	0	0	0	59,963	17,250	42,713	2,853,824	42,713	4,953,677	250,000
481	0	0.1	60,000	0	59,819	17,250	(17,431)	2,836,393	0	4,953,677	232,569
482	0	0.1	60,000	0	59,677	17,250	(17,573)	2,818,820	0	4,953,677	214,996
483	0	0.1	60,000	0	59,536	17,250	(17,714)	2,801,106	0	4,953,677	197,282
484	0.69	0.69	0	24	59,439	0	59,439	2,860,545	6,721	4,960,399	250,000
485	0.41	0.41	0	24	59,406	0	59,406	2,919,951	59,406	5,019,804	250,000
486	0.16	0.16	0	4	59,425	0	59,425	2,979,376	59,425	5,079,229	250,000
487	0	0.1	60,000	0	59,523	17,250	(17,727)	2,961,649	0	5,079,229	232,273
488	0	0.1	60,000	0	59,613	17,250	(17,637)	2,944,012	0	5,079,229	214,636
489	0	0.1	60,000	0	59,736	17,250	(17,514)	2,926,498	0	5,079,229	197,122
490	0	0.1	60,000	0	59,844	17,250	(17,406)	2,909,093	0	5,079,229	180,000
491	0	0.1	60,000	0	59,946	17,250	(17,304)	2,891,789	0	5,079,229	180,000
492	0	0.1	60,000	0	60,250	17,250	(17,000)	2,874,789	0	5,079,229	180,000
493	0	0.1	60,000	0	60,377	17,250	(16,873)	2,857,916	0	5,079,229	180,000
494	0	0.1	60,000	0	60,527	17,250	(16,723)	2,841,193	0	5,079,229	180,000
495	0	0.1	60,000	0	60,636	17,250	(16,614)	2,824,580	0	5,079,229	180,000
496	0	0.1	60,000	0	60,718	17,250	(16,532)	2,808,048	0	5,079,229	180,000
497	0	0.1	60,000	0	60,810	17,250	(16,440)	2,791,608	0	5,079,229	180,000
498	0	0.1	60,000	0	60,923	17,250	(16,327)	2,775,281	0	5,079,229	180,000
499	0	0.1	60,000	0	61,014	17,250	(16,236)	2,759,045	0	5,079,229	180,000
500	0.25	0.35	60,000	4	61,080	0	1,080	2,760,125	0	5,079,229	181,080
501	0	0.1	60,000	0	61,079	17,250	(16,171)	2,743,954	0	5,079,229	180,000
502	0	0.1	60,000	0	61,082	17,250	(16,168)	2,727,786	0	5,079,229	180,000
503	0	0.1	60,000	0	61,114	17,250	(16,136)	2,711,651	0	5,079,229	180,000
504	0	0.1	60,000	0	61,159	17,250	(16,091)	2,695,560	0	5,079,229	180,000
505	0	0.1	60,000	0	61,216	17,250	(16,034)	2,679,527	0	5,079,229	180,000
506	0	0.1	60,000	0	61,274	17,250	(15,976)	2,663,551	0	5,079,229	180,000
507	0	0.1	60,000	0	61,279	17,250	(15,971)	2,647,580	0	5,079,229	180,000
508	0	0.1	60,000	0	61,336	17,250	(15,914)	2,631,666	0	5,079,229	180,000
509	0	0.1	60,000	0	61,538	17,250	(15,712)	2,615,954	0	5,079,229	180,000
510	0	0.1	60,000	0	61,588	17,250	(15,662)	2,600,292	0	5,079,229	180,000
511	0	0.1	60,000	0	61,681	17,250	(15,569)	2,584,723	0	5,079,229	180,000
512	0	0.1	60,000	0	61,772	17,250	(15,478)	2,569,245	0	5,079,229	180,000
513	0.4	0.4	0	24	61,840	0	61,840	2,631,085	0	5,079,229	241,840
514	0.59	0.59	0	24	61,945	0	61,945	2,693,030	53,785	5,133,014	250,000
515	0	0	0	0	62,051	17,250	44,801	2,737,830	44,801	5,177,815	250,000
516	0	0.1	60,000	0	62,173	17,250	(15,077)	2,722,754	0	5,177,815	234,923
517	0.46	0.46	0	24	62,294	0	62,294	2,785,048	47,218	5,225,032	250,000
518	0.24	0.24	0	4	62,430	0	62,430	2,847,478	62,430	5,287,462	250,000
519	1.13	1.13	0	48	62,561	0	62,561	2,910,038	62,561	5,350,023	250,000
520	0.07	0.07	0	4	62,694	0	62,694	2,972,732	62,694	5,412,717	250,000
521	0.16	0.16	0	4	62,809	0	62,809	3,035,541	62,809	5,475,526	250,000
522	0.03	0.13	60,000	4	62,931	0	2,931	3,038,473	2,931	5,478,457	250,000
523	1.97	1.97	0	48	63,049	0	63,049	3,101,522	63,049	5,541,506	250,000
524	0.2	0.2	0	4	63,163	0	63,163	3,164,685	63,163	5,604,669	250,000
525	0	0	0	0	63,309	17,250	46,059	3,210,744	46,059	5,650,728	250,000
526	0.04	0.14	60,000	4	63,499	0	3,499	3,214,243	3,499	5,654,227	250,000
527	0.71	0.71	0	24	63,688	0	63,688	3,277,931	63,688	5,717,915	250,000
528	0	0	0	0	63,901	17,250	46,651	3,324,582	46,651	5,764,566	250,000
529	3.43	3.43	0	48	64,098	0	64,098	3,388,679	64,098	5,828,664	250,000
530	2.1	2.1	0	48	64,322	0	64,322	3,453,001	64,322	5,892,985	250,000
531	0.31	0.31	0	24	64,531	0	64,531	3,517,532	64,531	5,957,516	250,000
532	0.12	0.12	0	4	64,780	0	64,780	3,582,312	64,780	6,022,296	250,000
533	0	0.1	60,000	0	65,003	17,250	(12,247)	3,570,066	0	6,022,296	237,753
534	2.95	2.95	0	48	65,156	0	65,156	3,635,222	52,909	6,075,206	250,000
535	0.05	0.05	0	4	65,328	0	65,328	3,700,549	65,328	6,140,533	250,000
536	0.28	0.28	0	24	65,603	0	65,603	3,766,152	65,603	6,206,137	250,000
537	0.11	0.11	0	4	65,906	0	65,906	3,832,059	65,906	6,272,043	250,000
538	0	0.1	60,000	0	65,999	17,250	(11,251)	3,820,808	0	6,272,043	238,749
539	0	0.1	60,000	0	66,108	17,250	(11,142)	3,809,666	0	6,272,043	227,607
540	0	0.1	60,000	0	65,960	17,250	(11,290)	3,798,376	0	6,272,043	216,317
541	0.03	0.13	60,000	4	67,224	0	7,224	3,805,600	0	6,272,043	223,541
542	0	0.1	60,000	0	67,974	17,250	(9,276)	3,796,324	0	6,272,043	214,265
543	0	0.1	60,000	0	69,742	17,250	(7,508)	3,788,816	0	6,272,043	206,757
544	0	0.1	60,000	0	70,559	17,250	(6,691)	3,782,124	0	6,272,043	200,065

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
545	0	0.1	60,000	0	70,988	17,250	(6,262)	3,775,862	0	6,272,043	193,803
546	0.15	0.25	60,000	4	71,355	0	11,355	3,787,217	0	6,272,043	205,158
547	0.7	0.7	0	24	71,677	0	71,677	3,858,894	26,835	6,298,879	250,000
548	1.83	1.83	0	48	72,255	0	72,255	3,931,149	72,255	6,371,133	250,000
549	0	0	0	0	73,308	17,250	56,058	3,987,207	56,058	6,427,191	250,000
550	1.43	1.43	0	48	73,455	0	73,455	4,060,662	73,455	6,500,646	250,000
551	0	0	0	0	73,644	17,250	56,394	4,117,056	56,394	6,557,041	250,000
552	0.84	0.84	0	24	73,847	0	73,847	4,190,903	73,847	6,630,887	250,000
553	0.71	0.71	0	24	73,922	0	73,922	4,264,825	73,922	6,704,809	250,000
554	0.87	0.87	0	24	74,046	0	74,046	4,338,871	74,046	6,778,855	250,000
555	0	0	0	0	74,158	17,250	56,908	4,395,779	56,908	6,835,763	250,000
556	0.2	0.3	60,000	4	74,247	0	14,247	4,410,026	14,247	6,850,010	250,000
557	0	0.1	60,000	0	74,161	17,250	(3,089)	4,406,937	0	6,850,010	246,911
558	0	0.1	60,000	0	73,983	17,250	(3,267)	4,403,670	0	6,850,010	243,644
559	0.97	0.97	0	24	73,965	0	73,965	4,477,635	67,609	6,917,619	250,000
560	0.11	0.11	0	4	73,797	0	73,797	4,551,432	73,797	6,991,417	250,000
561	1.45	1.45	0	48	73,650	0	73,650	4,625,082	73,650	7,065,066	250,000
562	0.07	0.07	0	4	73,604	0	73,604	4,698,686	73,604	7,138,670	250,000
563	0.06	0.06	0	4	73,648	0	73,648	4,772,335	73,648	7,212,319	250,000
564	0	0.1	60,000	0	73,646	17,250	(3,604)	4,768,731	0	7,212,319	246,396
565	0.12	0.22	60,000	4	73,634	0	13,634	4,782,365	10,030	7,222,349	250,000
566	0	0.1	60,000	0	73,408	17,250	(3,842)	4,778,523	0	7,222,349	246,158
567	0	0.1	60,000	0	73,235	17,250	(4,015)	4,774,508	0	7,222,349	242,143
568	0	0.1	60,000	0	73,762	17,250	(3,488)	4,771,019	0	7,222,349	238,654
569	3.02	3.02	0	48	74,382	0	74,382	4,845,401	63,036	7,285,386	250,000
570	0.63	0.63	0	24	74,315	0	74,315	4,919,716	74,315	7,359,700	250,000
571	0	0	0	0	74,281	17,250	57,031	4,976,747	57,031	7,416,731	250,000
572	0	0.1	60,000	0	74,351	17,250	(2,899)	4,973,848	0	7,416,731	247,101
573	0.47	0.47	0	24	74,259	0	74,259	5,048,108	71,361	7,488,092	250,000
574	0.19	0.19	0	4	74,172	0	74,172	5,122,280	74,172	7,562,264	250,000
575	0.11	0.21	60,000	4	74,064	0	14,064	5,136,344	14,064	7,576,329	250,000
576	0	0.1	60,000	0	74,092	17,250	(3,158)	5,133,187	0	7,576,329	246,842
577	1.37	1.37	0	48	74,245	0	74,245	5,207,432	71,087	7,647,416	250,000
578	0	0	0	0	74,365	17,250	57,115	5,264,547	57,115	7,704,531	250,000
579	0	0	0	0	74,991	17,250	57,741	5,322,288	57,741	7,762,272	250,000
580	0.1	0.2	60,000	4	75,505	0	15,505	5,337,793	15,505	7,777,777	250,000
581	0	0.1	60,000	0	75,516	17,250	(1,734)	5,336,060	0	7,777,777	248,266
582	0	0.1	60,000	0	75,548	17,250	(1,702)	5,334,358	0	7,777,777	246,564
583	0	0.1	60,000	0	75,228	17,250	(2,022)	5,332,336	0	7,777,777	244,543
584	0	0.1	60,000	0	74,832	17,250	(2,418)	5,329,918	0	7,777,777	242,124
585	0	0.1	60,000	0	74,467	17,250	(2,783)	5,327,135	0	7,777,777	239,341
586	0	0.1	60,000	0	74,370	17,250	(2,880)	5,324,254	0	7,777,777	236,461
587	0.06	0.16	60,000	4	74,235	0	14,235	5,338,490	697	7,778,474	250,000
588	0.03	0.13	60,000	4	73,983	0	13,983	5,352,473	13,983	7,792,457	250,000
589	0.59	0.59	0	24	73,855	0	73,855	5,426,328	73,855	7,866,312	250,000
590	0.73	0.73	0	24	73,581	0	73,581	5,499,908	73,581	7,939,893	250,000
591	0.69	0.69	0	24	73,274	0	73,274	5,573,183	73,274	8,013,167	250,000
592	0.35	0.35	0	24	73,047	0	73,047	5,646,230	73,047	8,086,214	250,000
593	0	0	0	0	72,909	17,250	55,659	5,701,889	55,659	8,141,873	250,000
594	0.19	0.29	60,000	4	72,712	0	12,712	5,714,601	12,712	8,154,585	250,000
595	0	0.1	60,000	0	72,438	17,250	(4,812)	5,709,789	0	8,154,585	245,188
596	0	0.1	60,000	0	72,094	17,250	(5,156)	5,704,633	0	8,154,585	240,031
597	1.15	1.15	0	48	71,806	0	71,806	5,776,439	61,838	8,216,423	250,000
598	0	0	0	0	71,587	17,250	54,337	5,830,776	54,337	8,270,760	250,000
599	0	0	0	0	71,506	17,250	54,256	5,885,032	54,256	8,325,016	250,000
600	0	0.1	60,000	0	71,480	17,250	(5,770)	5,879,261	0	8,325,016	244,230
601	0	0.1	60,000	0	71,279	17,250	(5,971)	5,873,291	0	8,325,016	238,259
602	0.05	0.15	60,000	4	70,705	0	10,705	5,883,996	0	8,325,016	248,964
603	0	0.1	60,000	0	70,852	17,250	(6,398)	5,877,598	0	8,325,016	242,566
604	0	0.1	60,000	0	70,880	17,250	(6,370)	5,871,227	0	8,325,016	236,195
605	0	0.1	60,000	0	70,964	17,250	(6,286)	5,864,942	0	8,325,016	229,910
606	0	0.1	60,000	0	71,096	17,250	(6,154)	5,858,787	0	8,325,016	223,755
607	3.05	3.05	0	48	71,279	0	71,279	5,930,066	45,034	8,370,050	250,000
608	0	0	0	0	71,631	17,250	54,381	5,984,447	54,381	8,424,432	250,000
609	0.48	0.48	0	24	71,894	0	71,894	6,056,342	71,894	8,496,326	250,000
610	0	0	0	0	72,002	17,250	54,752	6,111,093	54,752	8,551,078	250,000
611	0	0.1	60,000	0	72,254	17,250	(4,996)	6,106,098	0	8,551,078	245,004
612	0	0.1	60,000	0	72,288	17,250	(4,962)	6,101,136	0	8,551,078	240,043

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
613	0.26	0.26	0	24	72,386	0	72,386	6,173,522	62,429	8,613,506	250,000
614	0.42	0.42	0	24	72,710	0	72,710	6,246,233	72,710	8,686,217	250,000
615	0.05	0.05	0	4	73,040	0	73,040	6,319,273	73,040	8,759,257	250,000
616	0.1	0.2	60,000	4	73,335	0	13,335	6,332,608	13,335	8,772,593	250,000
617	0	0.1	60,000	0	73,603	17,250	(3,647)	6,328,961	0	8,772,593	246,353
618	0	0.1	60,000	0	74,040	17,250	(3,210)	6,325,751	0	8,772,593	243,142
619	0	0.1	60,000	0	74,735	17,250	(2,515)	6,323,236	0	8,772,593	240,627
620	0	0.1	60,000	0	75,565	17,250	(1,685)	6,321,551	0	8,772,593	238,942
621	0	0.1	60,000	0	76,239	17,250	(1,011)	6,320,539	0	8,772,593	237,931
622	0	0.1	60,000	0	76,868	17,250	(382)	6,320,157	0	8,772,593	237,549
623	0	0.1	60,000	0	77,330	17,250	80	6,320,237	0	8,772,593	237,629
624	0.49	0.49	0	24	77,789	0	77,789	6,398,027	65,418	8,838,011	250,000
625	0	0	0	0	78,111	17,250	60,861	6,458,887	60,861	8,898,871	250,000
626	0	0.1	60,000	0	78,379	17,250	1,129	6,460,016	1,129	8,900,001	250,000
627	0	0.1	60,000	0	78,679	17,250	1,429	6,461,445	1,429	8,901,430	250,000
628	0	0.1	60,000	0	79,039	17,250	1,789	6,463,234	1,789	8,903,218	250,000
629	0	0.1	60,000	0	79,266	17,250	2,016	6,465,250	2,016	8,905,234	250,000
630	0	0.1	60,000	0	79,361	17,250	2,111	6,467,360	2,111	8,907,345	250,000
631	0.03	0.1	60,000	4	79,480	0	19,480	6,486,840	19,480	8,926,824	250,000
632	0.28	0.28	0	24	79,587	0	79,587	6,566,427	79,587	9,006,411	250,000
633	0.5	0.5	0	24	79,701	0	79,701	6,646,128	79,701	9,086,112	250,000
634	0	0	0	0	79,804	17,250	62,554	6,708,681	62,554	9,148,666	250,000
635	0	0.1	60,000	0	79,933	17,250	2,683	6,711,364	2,683	9,151,348	250,000
636	0.03	0.13	60,000	4	80,071	0	20,071	6,731,435	20,071	9,171,420	250,000
637	0	0.1	60,000	0	80,287	17,250	3,037	6,734,473	3,037	9,174,457	250,000
638	0	0.1	60,000	0	80,433	17,250	3,183	6,737,656	3,183	9,177,640	250,000
639	0	0.1	60,000	0	80,592	17,250	3,342	6,740,998	3,342	9,180,983	250,000
640	0.48	0.48	0	24	80,826	0	80,826	6,821,824	80,826	9,261,808	250,000
641	0.03	0.03	0	4	82,105	0	82,105	6,903,929	82,105	9,343,913	250,000
642	1.43	1.43	0	48	85,442	0	85,442	6,989,372	85,442	9,429,356	250,000
643	0.06	0.06	0	4	85,649	0	85,649	7,075,020	85,649	9,515,004	250,000
644	0.37	0.37	0	24	85,819	0	85,819	7,160,839	85,819	9,600,823	250,000
645	0	0	0	0	85,947	17,250	68,697	7,229,536	68,697	9,669,521	250,000
646	0	0.1	60,000	0	86,101	17,250	8,851	7,238,387	8,851	9,678,371	250,000
647	0	0.1	60,000	0	86,279	17,250	9,029	7,247,416	9,029	9,687,400	250,000
648	1.36	1.36	0	48	86,539	0	86,539	7,333,956	86,539	9,773,940	250,000
649	0.55	0.55	0	24	86,763	0	86,763	7,420,719	86,763	9,860,703	250,000
650	1.09	1.09	0	48	86,514	0	86,514	7,507,233	86,514	9,947,217	250,000
651	0	0	0	0	86,343	17,250	69,093	7,576,326	69,093	10,016,311	250,000
652	0	0	0	0	86,555	17,250	69,305	7,645,631	69,305	10,085,615	250,000
653	0	0.1	60,000	0	86,872	17,250	9,622	7,655,253	9,622	10,095,237	250,000
654	0	0.1	60,000	0	87,108	17,250	9,858	7,665,111	9,858	10,105,095	250,000
655	0	0.1	60,000	0	87,294	17,250	10,044	7,675,156	10,044	10,115,140	250,000
656	0.11	0.21	60,000	4	87,457	0	27,457	7,702,613	27,457	10,142,597	250,000
657	0	0.1	60,000	0	87,850	17,250	10,600	7,713,213	10,600	10,153,197	250,000
658	0	0.1	60,000	0	88,273	17,250	11,023	7,724,235	11,023	10,164,220	250,000
659	0	0.1	60,000	0	88,632	17,250	11,382	7,735,618	11,382	10,175,602	250,000
660	0	0.1	60,000	0	88,877	17,250	11,627	7,747,244	11,627	10,187,228	250,000
661	0	0.1	60,000	0	89,068	17,250	11,818	7,759,062	11,818	10,199,047	250,000
662	0	0.1	60,000	0	89,142	17,250	11,892	7,770,954	11,892	10,210,938	250,000
663	0	0.1	60,000	0	89,169	17,250	11,919	7,782,873	11,919	10,222,857	250,000
664	0	0.1	60,000	0	89,212	17,250	11,962	7,794,834	11,962	10,234,819	250,000
665	0	0.1	60,000	0	89,274	17,250	12,024	7,806,858	12,024	10,246,842	250,000
666	0	0.1	60,000	0	89,300	17,250	12,050	7,818,908	12,050	10,258,892	250,000
667	0	0.1	60,000	0	89,274	17,250	12,024	7,830,932	12,024	10,270,916	250,000
668	0	0.1	60,000	0	89,212	17,250	11,962	7,842,894	11,962	10,282,878	250,000
669	0	0.1	60,000	0	89,175	17,250	11,925	7,854,818	11,925	10,294,802	250,000
670	0	0.1	60,000	0	89,107	17,250	11,857	7,866,676	11,857	10,306,660	250,000
671	0.01	0.11	60,000	4	89,015	0	29,015	7,895,691	29,015	10,335,675	250,000
672	0	0.1	60,000	0	88,935	17,250	11,685	7,907,376	11,685	10,347,360	250,000
673	0	0.1	60,000	0	88,810	17,250	11,560	7,918,936	11,560	10,358,920	250,000
674	0	0.1	60,000	0	88,711	17,250	11,461	7,930,397	11,461	10,370,381	250,000
675	0.21	0.31	60,000	4	88,598	0	28,598	7,958,995	28,598	10,398,979	250,000
676	0.34	0.34	0	24	88,542	0	88,542	8,047,537	88,542	10,487,521	250,000
677	0.79	0.79	0	24	88,529	0	88,529	8,136,065	88,529	10,576,050	250,000
678	0.32	0.32	0	24	88,503	0	88,503	8,224,569	88,503	10,664,553	250,000
679	0	0	0	0	88,496	17,250	71,246	8,295,815	71,246	10,735,799	250,000
680	0	0.1	60,000	0	88,476	17,250	11,226	8,307,041	11,226	10,747,025	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
681	0	0.1	60,000	0	88,507	17,250	11,257	8,318,298	11,257	10,758,283	250,000
682	0	0.1	60,000	0	88,606	17,250	11,356	8,329,654	11,356	10,769,638	250,000
683	0	0.1	60,000	0	88,692	17,250	11,442	8,341,096	11,442	10,781,081	250,000
684	0	0.1	60,000	0	88,727	17,250	11,477	8,352,573	11,477	10,792,557	250,000
685	0	0.1	60,000	0	88,730	17,250	11,480	8,364,053	11,480	10,804,038	250,000
686	0	0.1	60,000	0	88,791	17,250	11,541	8,375,594	11,541	10,815,578	250,000
687	0	0.1	60,000	0	88,914	17,250	11,664	8,387,258	11,664	10,827,242	250,000
688	0	0.1	60,000	0	89,069	17,250	11,819	8,399,077	11,819	10,839,061	250,000
689	0	0.1	60,000	0	89,249	17,250	11,999	8,411,076	11,999	10,851,060	250,000
690	0	0.1	60,000	0	89,435	17,250	12,185	8,423,261	12,185	10,863,245	250,000
691	0	0.1	60,000	0	89,603	17,250	12,353	8,435,614	12,353	10,875,598	250,000
692	0	0.1	60,000	0	89,720	17,250	12,470	8,448,084	12,470	10,888,068	250,000
693	0.18	0.28	60,000	4	89,824	0	29,824	8,477,907	29,824	10,917,892	250,000
694	0	0.1	60,000	0	89,871	17,250	12,621	8,490,528	12,621	10,930,513	250,000
695	0	0.1	60,000	0	89,962	17,250	12,712	8,503,240	12,712	10,943,224	250,000
696	0	0.1	60,000	0	90,047	17,250	12,797	8,516,037	12,797	10,956,021	250,000
697	0	0.1	60,000	0	90,214	17,250	12,964	8,529,000	12,964	10,968,984	250,000
698	0	0.1	60,000	0	90,456	17,250	13,206	8,542,206	13,206	10,982,190	250,000
699	0	0.1	60,000	0	90,686	17,250	13,436	8,555,642	13,436	10,995,626	250,000
700	0.47	0.47	0	24	91,133	0	91,133	8,646,775	91,133	11,086,760	250,000
701	0	0	0	0	91,330	17,250	74,080	8,720,855	74,080	11,160,839	250,000
702	0	0.1	60,000	0	91,483	17,250	14,233	8,735,088	14,233	11,175,072	250,000
703	0	0.1	60,000	0	91,580	17,250	14,330	8,749,418	14,330	11,189,402	250,000
704	0	0.1	60,000	0	90,868	17,250	13,618	8,763,036	13,618	11,203,020	250,000
705	0	0.1	60,000	0	91,021	17,250	13,771	8,776,806	13,771	11,216,791	250,000
706	0	0.1	60,000	0	91,114	17,250	13,864	8,790,670	13,864	11,230,654	250,000
707	0	0.1	60,000	0	91,157	17,250	13,907	8,804,577	13,907	11,244,561	250,000
708	0	0.1	60,000	0	91,135	17,250	13,885	8,818,462	13,885	11,258,446	250,000
709	0	0.1	60,000	0	91,114	17,250	13,864	8,832,326	13,864	11,272,310	250,000
710	0	0.1	60,000	0	91,135	17,250	13,885	8,846,211	13,885	11,286,195	250,000
711	0	0.1	60,000	0	91,162	17,250	13,912	8,860,122	13,912	11,300,107	250,000
712	0.46	0.46	0	24	91,169	0	91,169	8,951,291	91,169	11,391,276	250,000
713	0	0	0	0	91,154	17,250	73,904	9,025,195	73,904	11,465,179	250,000
714	0	0.1	60,000	0	91,153	17,250	13,903	9,039,098	13,903	11,479,082	250,000
715	0.34	0.34	0	24	91,089	0	91,089	9,130,187	91,089	11,570,171	250,000
716	0	0	0	0	91,026	17,250	73,776	9,203,963	73,776	11,643,947	250,000
717	0	0.1	60,000	0	90,965	17,250	13,715	9,217,678	13,715	11,657,662	250,000
718	0.14	0.24	60,000	4	90,850	0	30,850	9,248,528	30,850	11,688,512	250,000
719	0	0.1	60,000	0	90,774	17,250	13,524	9,262,052	13,524	11,702,037	250,000
720	0	0.1	60,000	0	90,672	17,250	13,422	9,275,474	13,422	11,715,459	250,000
721	0	0.1	60,000	0	90,568	17,250	13,318	9,288,792	13,318	11,728,777	250,000
722	0	0.1	60,000	0	90,538	17,250	13,288	9,302,080	13,288	11,742,064	250,000
723	0	0.1	60,000	0	90,622	17,250	13,372	9,315,453	13,372	11,755,437	250,000
724	0	0.1	60,000	0	91,756	17,250	14,506	9,329,959	14,506	11,769,943	250,000
725	0	0.1	60,000	0	94,817	17,250	17,567	9,347,526	17,567	11,787,510	250,000
726	0	0.1	60,000	0	94,779	17,250	17,529	9,365,054	17,529	11,805,039	250,000
727	0	0.1	60,000	0	94,786	17,250	17,536	9,382,591	17,536	11,822,575	250,000
728	0	0.1	60,000	0	94,805	17,250	17,555	9,400,146	17,555	11,840,130	250,000
729	0	0.1	60,000	0	94,853	17,250	17,603	9,417,749	17,603	11,857,733	250,000
730	0	0.1	60,000	0	94,934	17,250	17,684	9,435,433	17,684	11,875,417	250,000
731	0	0.1	60,000	0	95,028	17,250	17,778	9,453,211	17,778	11,893,195	250,000
732	0	0.1	60,000	0	95,048	17,250	17,798	9,471,009	17,798	11,910,993	250,000
733	0.11	0.21	60,000	4	95,047	0	35,047	9,506,056	35,047	11,946,040	250,000
734	0	0.1	60,000	0	95,059	17,250	17,809	9,523,865	17,809	11,963,849	250,000
735	0	0.1	60,000	0	94,969	17,250	17,719	9,541,585	17,719	11,981,569	250,000
736	0	0.1	60,000	0	94,931	17,250	17,681	9,559,265	17,681	11,999,250	250,000
737	0	0.1	60,000	0	94,887	17,250	17,637	9,576,902	17,637	12,016,886	250,000
738	0	0.1	60,000	0	94,804	17,250	17,554	9,594,456	17,554	12,034,440	250,000
739	0	0.1	60,000	0	94,712	17,250	17,462	9,611,918	17,462	12,051,903	250,000
740	0.22	0.32	60,000	4	94,561	0	34,561	9,646,479	34,561	12,086,463	250,000
741	0	0.1	60,000	0	94,426	17,250	17,176	9,663,655	17,176	12,103,639	250,000
742	0.04	0.14	60,000	4	94,239	0	34,239	9,697,894	34,239	12,137,878	250,000
743	0	0.1	60,000	0	93,114	17,250	15,864	9,713,758	15,864	12,153,742	250,000
744	0	0.1	60,000	0	93,665	17,250	16,415	9,730,173	16,415	12,170,157	250,000
745	0	0.1	60,000	0	92,148	17,250	14,898	9,745,071	14,898	12,185,055	250,000
746	0	0.1	60,000	0	89,170	17,250	11,920	9,756,991	11,920	12,196,975	250,000
747	0	0.1	60,000	0	89,092	17,250	11,842	9,768,832	11,842	12,208,817	250,000
748	0.39	0.39	0	24	89,020	0	89,020	9,857,852	89,020	12,297,836	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
749	0	0	0	0	88,998	17,250	71,748	9,929,600	71,748	12,369,585	250,000
750	1.16	1.16	0	48	88,924	0	88,924	10,018,524	88,924	12,458,508	250,000
751	0.06	0.06	0	4	88,835	0	88,835	10,107,359	88,835	12,547,343	250,000
752	1.32	1.32	0	48	88,762	0	88,762	10,196,121	88,762	12,636,106	250,000
753	0.26	0.26	0	24	88,532	0	88,532	10,284,653	88,532	12,724,637	250,000
754	0	0	0	0	88,362	17,250	71,112	10,355,766	71,112	12,795,750	250,000
755	0	0.1	60,000	0	88,321	17,250	11,071	10,366,837	11,071	12,806,821	250,000
756	0	0.1	60,000	0	88,243	17,250	10,993	10,377,830	10,993	12,817,815	250,000
757	0	0.1	60,000	0	88,029	17,250	10,779	10,388,610	10,779	12,828,594	250,000
758	0.96	0.96	0	24	87,872	0	87,872	10,476,481	87,872	12,916,466	250,000
759	0	0	0	0	87,867	17,250	70,617	10,547,098	70,617	12,987,082	250,000
760	0	0.1	60,000	0	87,920	17,250	10,670	10,557,769	10,670	12,997,753	250,000
761	0	0.1	60,000	0	87,955	17,250	10,705	10,568,473	10,705	13,008,458	250,000
762	0	0.1	60,000	0	88,021	17,250	10,771	10,579,244	10,771	13,019,229	250,000
763	0	0.1	60,000	0	88,058	17,250	10,808	10,590,052	10,808	13,030,036	250,000
764	0	0.1	60,000	0	88,140	17,250	10,890	10,600,942	10,890	13,040,927	250,000
765	0	0.1	60,000	0	88,100	17,250	10,850	10,611,792	10,850	13,051,777	250,000
766	0	0.1	60,000	0	87,944	17,250	10,694	10,622,486	10,694	13,062,470	250,000
767	0	0.1	60,000	0	87,818	17,250	10,568	10,633,054	10,568	13,073,039	250,000
768	0.03	0.13	60,000	4	87,720	0	27,720	10,660,775	27,720	13,100,759	250,000
769	0	0.1	60,000	0	87,706	17,250	10,456	10,671,231	10,456	13,111,215	250,000
770	0	0.1	60,000	0	87,767	17,250	10,517	10,681,748	10,517	13,121,732	250,000
771	0	0.1	60,000	0	87,775	17,250	10,525	10,692,273	10,525	13,132,257	250,000
772	0.77	0.77	0	24	87,782	0	87,782	10,780,054	87,782	13,220,038	250,000
773	0.05	0.05	0	4	87,758	0	87,758	10,867,812	87,758	13,307,797	250,000
774	0.72	0.72	0	24	87,739	0	87,739	10,955,552	87,739	13,395,536	250,000
775	0	0	0	0	87,664	17,250	70,414	11,025,966	70,414	13,465,950	250,000
776	0.12	0.22	60,000	4	87,642	0	27,642	11,053,608	27,642	13,493,592	250,000
777	0.43	0.43	0	24	87,571	0	87,571	11,141,179	87,571	13,581,163	250,000
778	0	0	0	0	87,193	17,250	69,943	11,211,121	69,943	13,651,106	250,000
779	0	0.1	60,000	0	86,928	17,250	9,678	11,220,799	9,678	13,660,784	250,000
780	0	0.1	60,000	0	86,724	17,250	9,474	11,230,274	9,474	13,670,258	250,000
781	0	0.1	60,000	0	86,486	17,250	9,236	11,239,510	9,236	13,679,494	250,000
782	0.02	0.12	60,000	4	86,235	0	26,235	11,265,745	26,235	13,705,729	250,000
783	0.37	0.37	0	24	86,068	0	86,068	11,351,813	86,068	13,791,798	250,000
784	1.47	1.47	0	48	86,368	0	86,368	11,438,181	86,368	13,878,166	250,000
785	0	0	0	0	86,531	17,250	69,281	11,507,462	69,281	13,947,446	250,000
786	0.57	0.57	0	24	86,224	0	86,224	11,593,686	86,224	14,033,670	250,000
787	0.11	0.11	0	4	85,912	0	85,912	11,679,597	85,912	14,119,582	250,000
788	0.03	0.13	60,000	4	85,399	0	25,399	11,704,997	25,399	14,144,981	250,000
789	0.47	0.47	0	24	85,404	0	85,404	11,790,401	85,404	14,230,385	250,000
790	0	0	0	0	85,274	17,250	68,024	11,858,425	68,024	14,298,409	250,000
791	0.8	0.8	0	24	85,243	0	85,243	11,943,667	85,243	14,383,651	250,000
792	0	0	0	0	85,266	17,250	68,016	12,011,683	68,016	14,451,667	250,000
793	0	0.1	60,000	0	85,279	17,250	8,029	12,019,712	8,029	14,459,696	250,000
794	0	0.1	60,000	0	85,276	17,250	8,026	12,027,738	8,026	14,467,722	250,000
795	0	0.1	60,000	0	85,232	17,250	7,982	12,035,719	7,982	14,475,703	250,000
796	0	0.1	60,000	0	85,247	17,250	7,997	12,043,716	7,997	14,483,700	250,000
797	0	0.1	60,000	0	85,249	17,250	7,999	12,051,714	7,999	14,491,699	250,000
798	0	0.1	60,000	0	85,264	17,250	8,014	12,059,728	8,014	14,499,713	250,000
799	0	0.1	60,000	0	85,165	17,250	7,915	12,067,643	7,915	14,507,627	250,000
800	0	0.1	60,000	0	85,069	17,250	7,819	12,075,462	7,819	14,515,446	250,000
801	0	0.1	60,000	0	85,029	17,250	7,779	12,083,241	7,779	14,523,225	250,000
802	0	0.1	60,000	0	85,058	17,250	7,808	12,091,049	7,808	14,531,033	250,000
803	0	0.1	60,000	0	85,166	17,250	7,916	12,098,964	7,916	14,538,949	250,000
804	0	0.1	60,000	0	85,296	17,250	8,046	12,107,010	8,046	14,546,994	250,000
805	0	0.1	60,000	0	85,428	17,250	8,178	12,115,188	8,178	14,555,173	250,000
806	0.67	0.67	0	24	85,554	0	85,554	12,200,742	85,554	14,640,726	250,000
807	0.11	0.11	0	4	85,622	0	85,622	12,286,364	85,622	14,726,348	250,000
808	0	0.1	60,000	0	85,650	17,250	8,400	12,294,764	8,400	14,734,748	250,000
809	0	0.1	60,000	0	85,609	17,250	8,359	12,303,123	8,359	14,743,107	250,000
810	0	0.1	60,000	0	85,535	17,250	8,285	12,311,407	8,285	14,751,392	250,000
811	0	0.1	60,000	0	85,457	17,250	8,207	12,319,614	8,207	14,759,599	250,000
812	0	0.1	60,000	0	85,364	17,250	8,114	12,327,728	8,114	14,767,712	250,000
813	0	0.1	60,000	0	85,278	17,250	8,028	12,335,756	8,028	14,775,741	250,000
814	0.39	0.39	0	24	83,720	0	83,720	12,419,476	83,720	14,859,461	250,000
815	1.76	1.76	0	48	83,031	0	83,031	12,502,508	83,031	14,942,492	250,000
816	0.29	0.29	0	24	82,331	0	82,331	12,584,839	82,331	15,024,823	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
817	0.05	0.05	0	4	82,231	0	82,231	12,667,070	82,231	15,107,054	250,000
818	0	0.1	60,000	0	82,083	17,250	4,833	12,671,903	4,833	15,111,887	250,000
819	0	0.1	60,000	0	81,962	17,250	4,712	12,676,614	4,712	15,116,598	250,000
820	0	0.1	60,000	0	81,774	17,250	4,524	12,681,138	4,524	15,121,123	250,000
821	0	0.1	60,000	0	81,592	17,250	4,342	12,685,481	4,342	15,125,465	250,000
822	0	0.1	60,000	0	81,579	17,250	4,329	12,689,810	4,329	15,129,794	250,000
823	0	0.1	60,000	0	81,887	17,250	4,637	12,694,447	4,637	15,134,431	250,000
824	0.11	0.21	60,000	4	82,231	0	22,231	12,716,677	22,231	15,156,662	250,000
825	0.22	0.32	60,000	4	82,426	0	22,426	12,739,104	22,426	15,179,088	250,000
826	0	0.1	60,000	0	82,438	17,250	5,188	12,744,292	5,188	15,184,276	250,000
827	0	0.1	60,000	0	82,476	17,250	5,226	12,749,517	5,226	15,189,501	250,000
828	0	0.1	60,000	0	83,290	17,250	6,040	12,755,557	6,040	15,195,541	250,000
829	0	0.1	60,000	0	87,465	17,250	10,215	12,765,772	10,215	15,205,756	250,000
830	0	0.1	60,000	0	87,623	17,250	10,373	12,776,145	10,373	15,216,129	250,000
831	0	0.1	60,000	0	87,703	17,250	10,453	12,786,597	10,453	15,226,582	250,000
832	0	0.1	60,000	0	87,680	17,250	10,430	12,797,028	10,430	15,237,012	250,000
833	0	0.1	60,000	0	87,615	17,250	10,365	12,807,393	10,365	15,247,377	250,000
834	0	0.1	60,000	0	87,503	17,250	10,253	12,817,646	10,253	15,257,630	250,000
835	0	0.1	60,000	0	87,469	17,250	10,219	12,827,865	10,219	15,267,850	250,000
836	0.08	0.18	60,000	4	87,421	0	27,421	12,855,287	27,421	15,295,271	250,000
837	0	0.1	60,000	0	87,384	17,250	10,134	12,865,420	10,134	15,305,405	250,000
838	0	0.1	60,000	0	87,349	17,250	10,099	12,875,520	10,099	15,315,504	250,000
839	0	0.1	60,000	0	87,329	17,250	10,079	12,885,599	10,079	15,325,583	250,000
840	0	0.1	60,000	0	87,251	17,250	10,001	12,895,600	10,001	15,335,584	250,000
841	0	0.1	60,000	0	87,182	17,250	9,932	12,905,532	9,932	15,345,516	250,000
842	0	0.1	60,000	0	87,167	17,250	9,917	12,915,449	9,917	15,355,433	250,000
843	0.31	0.31	0	24	87,170	0	87,170	13,002,619	87,170	15,442,603	250,000
844	0	0	0	0	87,182	17,250	69,932	13,072,551	69,932	15,512,535	250,000
845	0	0.1	60,000	0	87,281	17,250	10,031	13,082,582	10,031	15,522,566	250,000
846	0	0.1	60,000	0	87,382	17,250	10,132	13,092,714	10,132	15,532,698	250,000
847	0	0.1	60,000	0	87,431	17,250	10,181	13,102,895	10,181	15,542,879	250,000
848	0	0.1	60,000	0	87,600	17,250	10,350	13,113,245	10,350	15,553,229	250,000
849	0	0.1	60,000	0	87,875	17,250	10,625	13,123,870	10,625	15,563,854	250,000
850	0	0.1	60,000	0	88,124	17,250	10,874	13,134,745	10,874	15,574,729	250,000
851	0	0.1	60,000	0	88,263	17,250	11,013	13,145,757	11,013	15,585,742	250,000
852	0	0.1	60,000	0	88,405	17,250	11,155	13,156,912	11,155	15,596,897	250,000
853	0	0.1	60,000	0	88,535	17,250	11,285	13,168,197	11,285	15,608,181	250,000
854	0	0.1	60,000	0	88,670	17,250	11,420	13,179,617	11,420	15,619,602	250,000
855	0	0.1	60,000	0	88,852	17,250	11,602	13,191,219	11,602	15,631,204	250,000
856	0	0.1	60,000	0	89,089	17,250	11,839	13,203,058	11,839	15,643,042	250,000
857	0	0.1	60,000	0	89,297	17,250	12,047	13,215,105	12,047	15,655,089	250,000
858	0	0.1	60,000	0	89,487	17,250	12,237	13,227,342	12,237	15,667,326	250,000
859	0	0.1	60,000	0	89,654	17,250	12,404	13,239,746	12,404	15,679,730	250,000
860	0	0.1	60,000	0	89,828	17,250	12,578	13,252,324	12,578	15,692,308	250,000
861	0	0.1	60,000	0	90,029	17,250	12,779	13,265,103	12,779	15,705,087	250,000
862	0	0.1	60,000	0	90,309	17,250	13,059	13,278,162	13,059	15,718,146	250,000
863	0	0.1	60,000	0	90,656	17,250	13,406	13,291,568	13,406	15,731,552	250,000
864	0	0.1	60,000	0	91,038	17,250	13,788	13,305,357	13,788	15,745,341	250,000
865	0	0.1	60,000	0	91,419	17,250	14,169	13,319,526	14,169	15,759,510	250,000
866	0	0.1	60,000	0	91,789	17,250	14,539	13,334,065	14,539	15,774,050	250,000
867	0	0.1	60,000	0	92,146	17,250	14,896	13,348,961	14,896	15,788,946	250,000
868	0	0.1	60,000	0	92,669	17,250	15,419	13,364,380	15,419	15,804,364	250,000
869	0.81	0.81	0	24	93,182	0	93,182	13,457,562	93,182	15,897,547	250,000
870	0	0	0	0	93,528	17,250	76,278	13,533,841	76,278	15,973,825	250,000
871	0	0.1	60,000	0	93,807	17,250	16,557	13,550,398	16,557	15,990,383	250,000
872	0	0.1	60,000	0	94,089	17,250	16,839	13,567,237	16,839	16,007,222	250,000
873	0	0.1	60,000	0	94,337	17,250	17,087	13,584,324	17,087	16,024,308	250,000
874	0	0.1	60,000	0	94,524	17,250	17,274	13,601,598	17,274	16,041,582	250,000
875	0	0.1	60,000	0	94,716	17,250	17,466	13,619,063	17,466	16,059,048	250,000
876	0	0.1	60,000	0	94,902	17,250	17,652	13,636,716	17,652	16,076,700	250,000
877	0	0.1	60,000	0	95,029	17,250	17,779	13,654,495	17,779	16,094,479	250,000
878	0	0.1	60,000	0	95,189	17,250	17,939	13,672,434	17,939	16,112,418	250,000
879	0	0.1	60,000	0	95,395	17,250	18,145	13,690,578	18,145	16,130,563	250,000
880	0	0.1	60,000	0	95,609	17,250	18,359	13,708,937	18,359	16,148,921	250,000
881	0	0.1	60,000	0	95,808	17,250	18,558	13,727,495	18,558	16,167,479	250,000
882	0	0.1	60,000	0	95,990	17,250	18,740	13,746,234	18,740	16,186,219	250,000
883	0	0.1	60,000	0	96,132	17,250	18,882	13,765,116	18,882	16,205,100	250,000
884	0	0.1	60,000	0	96,274	17,250	19,024	13,784,140	19,024	16,224,124	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
885	0	0.1	60,000	0	96,375	17,250	19,125	13,803,264	19,125	16,243,248	250,000
886	0	0.1	60,000	0	96,505	17,250	19,255	13,822,519	19,255	16,262,503	250,000
887	0	0.1	60,000	0	96,737	17,250	19,487	13,842,006	19,487	16,281,990	250,000
888	0	0.1	60,000	0	96,859	17,250	19,609	13,861,614	19,609	16,301,599	250,000
889	0	0.1	60,000	0	96,917	17,250	19,667	13,881,282	19,667	16,321,266	250,000
890	0	0.1	60,000	0	96,958	17,250	19,708	13,900,990	19,708	16,340,974	250,000
891	0	0.1	60,000	0	96,981	17,250	19,731	13,920,721	19,731	16,360,705	250,000
892	0.65	0.65	0	24	97,063	0	97,063	14,017,784	97,063	16,457,768	250,000
893	0	0	0	0	96,979	17,250	79,729	14,097,513	79,729	16,537,497	250,000
894	0.34	0.34	0	24	99,817	0	99,817	14,197,330	99,817	16,637,314	250,000
895	0	0	0	0	101,018	17,250	83,768	14,281,098	83,768	16,721,082	250,000
896	0.65	0.65	0	24	101,130	0	101,130	14,382,227	101,130	16,822,212	250,000
897	0	0	0	0	101,192	17,250	83,942	14,466,170	83,942	16,906,154	250,000
898	0	0.1	60,000	0	101,246	17,250	23,996	14,490,165	23,996	16,930,150	250,000
899	0.17	0.27	60,000	4	101,272	0	41,272	14,531,438	41,272	16,971,422	250,000
900	0	0.1	60,000	0	101,289	17,250	24,039	14,555,477	24,039	16,995,461	250,000
901	0	0.1	60,000	0	101,300	17,250	24,050	14,579,526	24,050	17,019,511	250,000
902	0	0.1	60,000	0	101,278	17,250	24,028	14,603,555	24,028	17,043,539	250,000
903	0	0.1	60,000	0	101,267	17,250	24,017	14,627,572	24,017	17,067,556	250,000
904	0	0.1	60,000	0	101,247	17,250	23,997	14,651,568	23,997	17,091,553	250,000
905	0.11	0.21	60,000	4	101,154	0	41,154	14,692,722	41,154	17,132,706	250,000
906	0	0.1	60,000	0	101,085	17,250	23,835	14,716,557	23,835	17,156,541	250,000
907	0	0.1	60,000	0	101,060	17,250	23,810	14,740,366	23,810	17,180,350	250,000
908	0.02	0.12	60,000	4	101,016	0	41,016	14,781,382	41,016	17,221,366	250,000
909	0.56	0.56	0	24	100,882	0	100,882	14,882,264	100,882	17,322,248	250,000
910	0.21	0.21	0	4	100,747	0	100,747	14,983,011	100,747	17,422,995	250,000
911	0	0.1	60,000	0	100,705	17,250	23,455	15,006,466	23,455	17,446,450	250,000
912	0	0.1	60,000	0	100,660	17,250	23,410	15,029,876	23,410	17,469,860	250,000
913	0	0.1	60,000	0	100,623	17,250	23,373	15,053,249	23,373	17,493,233	250,000
914	0.01	0.11	60,000	4	100,595	0	40,595	15,093,844	40,595	17,533,828	250,000
915	0	0.1	60,000	0	100,604	17,250	23,354	15,117,198	23,354	17,557,182	250,000
916	0	0.1	60,000	0	100,561	17,250	23,311	15,140,508	23,311	17,580,493	250,000
917	0.11	0.21	60,000	4	100,529	0	40,529	15,181,038	40,529	17,621,022	250,000
918	0.56	0.56	0	24	100,500	0	100,500	15,281,538	100,500	17,721,522	250,000
919	0	0	0	0	100,462	17,250	83,212	15,364,750	83,212	17,804,734	250,000
920	2.75	2.75	0	48	100,433	0	100,433	15,465,183	100,433	17,905,167	250,000
921	0.09	0.09	0	4	100,358	0	100,358	15,565,541	100,358	18,005,526	250,000
922	0	0	0	0	100,337	17,250	83,087	15,648,628	83,087	18,088,612	250,000
923	0.41	0.41	0	24	100,318	0	100,318	15,748,946	100,318	18,188,930	250,000
924	0	0	0	0	100,324	17,250	83,074	15,832,020	83,074	18,272,004	250,000
925	0	0.1	60,000	0	100,329	17,250	23,079	15,855,099	23,079	18,295,084	250,000
926	0.05	0.15	60,000	4	100,324	0	40,324	15,895,423	40,324	18,335,407	250,000
927	0	0.1	60,000	0	100,358	17,250	23,108	15,918,532	23,108	18,358,516	250,000
928	0.15	0.25	60,000	4	100,362	0	40,362	15,958,893	40,362	18,398,877	250,000
929	0	0.1	60,000	0	100,406	17,250	23,156	15,982,049	23,156	18,422,033	250,000
930	1.72	1.72	0	48	100,439	0	100,439	16,082,487	100,439	18,522,471	250,000
931	0	0	0	0	100,476	17,250	83,226	16,165,713	83,226	18,605,697	250,000
932	0	0	0	0	100,495	17,250	83,245	16,248,958	83,245	18,688,942	250,000
933	0.43	0.43	0	24	100,517	0	100,517	16,349,475	100,517	18,789,460	250,000
934	0.52	0.52	0	24	100,535	0	100,535	16,450,010	100,535	18,889,995	250,000
935	0	0	0	0	100,570	17,250	83,320	16,533,330	83,320	18,973,315	250,000
936	0.88	0.88	0	24	100,585	0	100,585	16,633,915	100,585	19,073,899	250,000
937	0.27	0.27	0	24	100,619	0	100,619	16,734,534	100,619	19,174,518	250,000
938	0.01	0.01	0	4	100,640	0	100,640	16,835,174	100,640	19,275,158	250,000
939	0.23	0.33	60,000	4	100,667	0	40,667	16,875,841	40,667	19,315,825	250,000
940	1.84	1.84	0	48	100,694	0	100,694	16,976,534	100,694	19,416,519	250,000
941	0.03	0.03	0	4	100,406	0	100,406	17,076,940	100,406	19,516,925	250,000
942	0.08	0.08	0	4	100,161	0	100,161	17,177,101	100,161	19,617,086	250,000
943	0.36	0.36	0	24	100,192	0	100,192	17,277,294	100,192	19,717,278	250,000
944	0.25	0.25	0	4	100,224	0	100,224	17,377,517	100,224	19,817,501	250,000
945	0.01	0.11	60,000	4	98,348	0	38,348	17,415,865	38,348	19,855,849	250,000
946	0	0.1	60,000	0	97,457	17,250	20,207	17,436,072	20,207	19,876,057	250,000
947	0	0.1	60,000	0	96,557	17,250	19,307	17,455,379	19,307	19,895,363	250,000
948	0.04	0.14	60,000	4	96,615	0	36,615	17,491,994	36,615	19,931,978	250,000
949	0	0.1	60,000	0	96,664	17,250	19,414	17,511,408	19,414	19,951,393	250,000
950	0.15	0.25	60,000	4	96,708	0	36,708	17,548,117	36,708	19,988,101	250,000
951	1.06	1.06	0	48	96,745	0	96,745	17,644,862	96,745	20,084,846	250,000
952	0.34	0.34	0	24	96,795	0	96,795	17,741,657	96,795	20,181,641	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
953	0.25	0.25	0	4	96,847	0	96,847	17,838,504	96,847	20,278,488	250,000
954	0.03	0.13	60,000	4	96,913	0	36,913	17,875,416	36,913	20,315,401	250,000
955	1.11	1.11	0	48	96,962	0	96,962	17,972,378	96,962	20,412,363	250,000
956	0.45	0.45	0	24	97,019	0	97,019	18,069,398	97,019	20,509,382	250,000
957	0	0	0	0	97,069	17,250	79,819	18,149,216	79,819	20,589,200	250,000
958	0.28	0.28	0	24	97,101	0	97,101	18,246,317	97,101	20,686,301	250,000
959	0.53	0.53	0	24	97,144	0	97,144	18,343,461	97,144	20,783,445	250,000
960	1.28	1.28	0	48	97,175	0	97,175	18,440,636	97,175	20,880,620	250,000
961	0.04	0.04	0	4	97,202	0	97,202	18,537,838	97,202	20,977,823	250,000
962	0.02	0.02	0	4	97,232	0	97,232	18,635,071	97,232	21,075,055	250,000
963	0	0.1	60,000	0	97,262	17,250	20,012	18,655,083	20,012	21,095,067	250,000
964	0	0.1	60,000	0	97,311	17,250	20,061	18,675,144	20,061	21,115,128	250,000
965	0	0.1	60,000	0	97,332	17,250	20,082	18,695,226	20,082	21,135,210	250,000
966	0.08	0.18	60,000	4	97,378	0	37,378	18,732,604	37,378	21,172,588	250,000
967	0	0.1	60,000	0	97,429	17,250	20,179	18,752,783	20,179	21,192,767	250,000
968	1.76	1.76	0	48	97,521	0	97,521	18,850,303	97,521	21,290,288	250,000
969	0	0	0	0	97,541	17,250	80,291	18,930,594	80,291	21,370,578	250,000
970	0	0	0	0	97,555	17,250	80,305	19,010,899	80,305	21,450,883	250,000
971	0	0.1	60,000	0	97,556	17,250	20,306	19,031,205	20,306	21,471,189	250,000
972	0.66	0.66	0	24	97,587	0	97,587	19,128,792	97,587	21,568,777	250,000
973	0.21	0.21	0	4	97,629	0	97,629	19,226,421	97,629	21,666,406	250,000
974	0.35	0.35	0	24	97,681	0	97,681	19,324,102	97,681	21,764,087	250,000
975	2.35	2.35	0	48	97,745	0	97,745	19,421,847	97,745	21,861,832	250,000
976	1.17	1.17	0	48	97,779	0	97,779	19,519,626	97,779	21,959,610	250,000
977	0	0	0	0	97,858	17,250	80,608	19,600,234	80,608	22,040,218	250,000
978	0	0	0	0	97,941	17,250	80,691	19,680,924	80,691	22,120,908	250,000
979	0.95	0.95	0	24	97,896	0	97,896	19,778,820	97,896	22,218,804	250,000
980	0.04	0.04	0	4	97,957	0	97,957	19,876,777	97,957	22,316,761	250,000
981	0	0.1	60,000	0	98,155	17,250	20,905	19,897,682	20,905	22,337,666	250,000
982	0.12	0.22	60,000	4	98,308	0	38,308	19,935,989	38,308	22,375,974	250,000
983	0	0.1	60,000	0	98,425	17,250	21,175	19,957,164	21,175	22,397,148	250,000
984	0	0.1	60,000	0	98,879	17,250	21,629	19,978,793	21,629	22,418,778	250,000
985	0	0.1	60,000	0	99,436	17,250	22,186	20,000,979	22,186	22,440,964	250,000
986	0	0.1	60,000	0	99,895	17,250	22,645	20,023,624	22,645	22,463,609	250,000
987	0	0.1	60,000	0	101,577	17,250	24,327	20,047,952	24,327	22,487,936	250,000
988	0	0.1	60,000	0	101,794	17,250	24,544	20,072,496	24,544	22,512,480	250,000
989	0.66	0.66	0	24	102,042	0	102,042	20,174,538	102,042	22,614,522	250,000
990	0.15	0.15	0	4	102,189	0	102,189	20,276,726	102,189	22,716,710	250,000
991	0.07	0.17	60,000	4	102,298	0	42,298	20,319,025	42,298	22,759,009	250,000
992	4.09	4.09	0	48	102,345	0	102,345	20,421,370	102,345	22,861,354	250,000
993	0	0	0	0	103,460	17,250	86,210	20,507,580	86,210	22,947,564	250,000
994	0	0	0	0	103,460	17,250	86,210	20,593,790	86,210	23,033,774	250,000
995	0	0.1	60,000	0	103,556	17,250	26,306	20,620,096	26,306	23,060,080	250,000
996	0	0.1	60,000	0	103,620	17,250	26,370	20,646,466	26,370	23,086,451	250,000
997	0	0.1	60,000	0	103,496	17,250	26,246	20,672,713	26,246	23,112,697	250,000
998	0	0.1	60,000	0	103,326	17,250	26,076	20,698,789	26,076	23,138,773	250,000
999	0.3	0.3	0	24	103,317	0	103,317	20,802,106	103,317	23,242,090	250,000
1000	1.02	1.02	0	48	103,861	0	103,861	20,905,967	103,861	23,345,951	250,000
1001	0	0	0	0	105,023	17,250	87,773	20,993,740	87,773	23,433,724	250,000
1002	0.22	0.22	0	4	105,182	0	105,182	21,098,922	105,182	23,538,906	250,000
1003	0	0.1	60,000	0	105,268	17,250	28,018	21,126,940	28,018	23,566,924	250,000
1004	0.31	0.31	0	24	105,336	0	105,336	21,232,276	105,336	23,672,260	250,000
1005	0	0	0	0	105,287	17,250	88,037	21,320,313	88,037	23,760,297	250,000
1006	0	0.1	60,000	0	105,212	17,250	27,962	21,348,274	27,962	23,788,259	250,000
1007	0.02	0.12	60,000	4	105,109	0	45,109	21,393,384	45,109	23,833,368	250,000
1008	0	0.1	60,000	0	105,018	17,250	27,768	21,421,152	27,768	23,861,136	250,000
1009	0	0.1	60,000	0	105,220	17,250	27,970	21,449,122	27,970	23,889,107	250,000
1010	0	0.1	60,000	0	105,926	17,250	28,676	21,477,799	28,676	23,917,783	250,000
1011	0.35	0.35	0	24	105,828	0	105,828	21,583,626	105,828	24,023,611	250,000
1012	0	0	0	0	105,684	17,250	88,434	21,672,060	88,434	24,112,044	250,000
1013	0.06	0.16	60,000	4	105,542	0	45,542	21,717,602	45,542	24,157,586	250,000
1014	0.08	0.18	60,000	4	105,377	0	45,377	21,762,979	45,377	24,202,963	250,000
1015	0	0.1	60,000	0	105,217	17,250	27,967	21,790,945	27,967	24,230,929	250,000
1016	1.43	1.43	0	48	105,082	0	105,082	21,896,028	105,082	24,336,012	250,000
1017	0.06	0.06	0	4	104,019	0	104,019	22,000,047	104,019	24,440,031	250,000
1018	0.11	0.11	0	4	103,914	0	103,914	22,103,961	103,914	24,543,945	250,000
1019	0.01	0.11	60,000	4	103,749	0	43,749	22,147,710	43,749	24,587,695	250,000
1020	0.26	0.26	0	24	103,609	0	103,609	22,251,320	103,609	24,691,304	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1021	0.03	0.03	0	4	103,471	0	103,471	22,354,791	103,471	24,794,775	250,000
1022	0.02	0.12	60,000	4	103,294	0	43,294	22,398,085	43,294	24,838,069	250,000
1023	0.3	0.3	0	24	103,155	0	103,155	22,501,240	103,155	24,941,224	250,000
1024	0	0	0	0	102,229	17,250	84,979	22,586,219	84,979	25,026,203	250,000
1025	0	0.1	60,000	0	99,964	17,250	22,714	22,608,932	22,714	25,048,917	250,000
1026	0	0.1	60,000	0	100,044	17,250	22,794	22,631,727	22,794	25,071,711	250,000
1027	0	0.1	60,000	0	100,010	17,250	22,760	22,654,486	22,760	25,094,471	250,000
1028	0.55	0.55	0	24	100,010	0	100,010	22,754,497	100,010	25,194,481	250,000
1029	0	0	0	0	100,010	17,250	82,760	22,837,257	82,760	25,277,241	250,000
1030	0	0.1	60,000	0	100,017	17,250	22,767	22,860,023	22,767	25,300,008	250,000
1031	0	0.1	60,000	0	99,968	17,250	22,718	22,882,741	22,718	25,322,725	250,000
1032	0	0.1	60,000	0	99,740	17,250	22,490	22,905,232	22,490	25,345,216	250,000
1033	0	0.1	60,000	0	99,393	17,250	22,143	22,927,374	22,143	25,367,358	250,000
1034	0	0.1	60,000	0	99,107	17,250	21,857	22,949,231	21,857	25,389,215	250,000
1035	0	0.1	60,000	0	98,954	17,250	21,704	22,970,935	21,704	25,410,919	250,000
1036	0	0.1	60,000	0	98,783	17,250	21,533	22,992,468	21,533	25,432,452	250,000
1037	0	0.1	60,000	0	98,562	17,250	21,312	23,013,780	21,312	25,453,764	250,000
1038	0	0.1	60,000	0	98,334	17,250	21,084	23,034,863	21,084	25,474,848	250,000
1039	0	0.1	60,000	0	98,250	17,250	21,000	23,055,864	21,000	25,495,848	250,000
1040	0	0.1	60,000	0	98,183	17,250	20,933	23,076,797	20,933	25,516,781	250,000
1041	0.22	0.32	60,000	4	98,134	0	38,134	23,114,931	38,134	25,554,915	250,000
1042	0	0.1	60,000	0	98,074	17,250	20,824	23,135,754	20,824	25,575,738	250,000
1043	0	0.1	60,000	0	97,987	17,250	20,737	23,156,491	20,737	25,596,476	250,000
1044	0	0.1	60,000	0	97,934	17,250	20,684	23,177,175	20,684	25,617,159	250,000
1045	0	0.1	60,000	0	97,836	17,250	20,586	23,197,761	20,586	25,637,746	250,000
1046	0	0.1	60,000	0	97,721	17,250	20,471	23,218,232	20,471	25,658,217	250,000
1047	0	0.1	60,000	0	97,612	17,250	20,362	23,238,594	20,362	25,678,579	250,000
1048	0	0.1	60,000	0	97,509	17,250	20,259	23,258,854	20,259	25,698,838	250,000
1049	0	0.1	60,000	0	97,463	17,250	20,213	23,279,067	20,213	25,719,051	250,000
1050	0	0.1	60,000	0	97,467	17,250	20,217	23,299,284	20,217	25,739,268	250,000
1051	0	0.1	60,000	0	97,438	17,250	20,188	23,319,472	20,188	25,759,456	250,000
1052	0	0.1	60,000	0	97,434	17,250	20,184	23,339,656	20,184	25,779,641	250,000
1053	0	0.1	60,000	0	97,476	17,250	20,226	23,359,882	20,226	25,799,866	250,000
1054	0	0.1	60,000	0	97,478	17,250	20,228	23,380,110	20,228	25,820,094	250,000
1055	0	0.1	60,000	0	97,469	17,250	20,219	23,400,330	20,219	25,840,314	250,000
1056	0	0.1	60,000	0	97,365	17,250	20,115	23,420,445	20,115	25,860,429	250,000
1057	0	0.1	60,000	0	97,324	17,250	20,074	23,440,519	20,074	25,880,503	250,000
1058	0	0.1	60,000	0	97,276	17,250	20,026	23,460,545	20,026	25,900,530	250,000
1059	0	0.1	60,000	0	97,260	17,250	20,010	23,480,555	20,010	25,920,540	250,000
1060	0.26	0.26	0	24	97,225	0	97,225	23,577,780	97,225	26,017,765	250,000
1061	0	0	0	0	97,184	17,250	79,934	23,657,714	79,934	26,097,698	250,000
1062	0	0.1	60,000	0	97,124	17,250	19,874	23,677,588	19,874	26,117,572	250,000
1063	0.02	0.12	60,000	4	97,120	0	37,120	23,714,708	37,120	26,154,693	250,000
1064	0	0.1	60,000	0	96,722	17,250	19,472	23,734,180	19,472	26,174,164	250,000
1065	0.01	0.11	60,000	4	96,320	0	36,320	23,770,500	36,320	26,210,484	250,000
1066	0.48	0.48	0	24	96,296	0	96,296	23,866,796	96,296	26,306,781	250,000
1067	0	0	0	0	96,238	17,250	78,988	23,945,785	78,988	26,385,769	250,000
1068	0	0.1	60,000	0	96,151	17,250	18,901	23,964,686	18,901	26,404,670	250,000
1069	0	0.1	60,000	0	96,092	17,250	18,842	23,983,528	18,842	26,423,512	250,000
1070	0	0.1	60,000	0	96,047	17,250	18,797	24,002,325	18,797	26,442,309	250,000
1071	0	0.1	60,000	0	96,001	17,250	18,751	24,021,076	18,751	26,461,060	250,000
1072	0	0.1	60,000	0	95,944	17,250	18,694	24,039,770	18,694	26,479,754	250,000
1073	0	0.1	60,000	0	95,892	17,250	18,642	24,058,412	18,642	26,498,396	250,000
1074	0	0.1	60,000	0	95,862	17,250	18,612	24,077,024	18,612	26,517,008	250,000
1075	0	0.1	60,000	0	95,848	17,250	18,598	24,095,622	18,598	26,535,606	250,000
1076	0	0.1	60,000	0	95,834	17,250	18,584	24,114,206	18,584	26,554,190	250,000
1077	0	0.1	60,000	0	95,788	17,250	18,538	24,132,744	18,538	26,572,728	250,000
1078	0	0.1	60,000	0	95,732	17,250	18,482	24,151,226	18,482	26,591,210	250,000
1079	0	0.1	60,000	0	95,677	17,250	18,427	24,169,653	18,427	26,609,637	250,000
1080	0	0.1	60,000	0	95,627	17,250	18,377	24,188,030	18,377	26,628,014	250,000
1081	0	0.1	60,000	0	95,606	17,250	18,356	24,206,386	18,356	26,646,370	250,000
1082	0	0.1	60,000	0	95,616	17,250	18,366	24,224,752	18,366	26,664,736	250,000
1083	0	0.1	60,000	0	95,640	17,250	18,390	24,243,142	18,390	26,683,126	250,000
1084	0.44	0.44	0	24	95,632	0	95,632	24,338,774	95,632	26,778,758	250,000
1085	0	0	0	0	95,688	17,250	78,438	24,417,212	78,438	26,857,196	250,000
1086	0	0.1	60,000	0	95,689	17,250	18,439	24,435,651	18,439	26,875,635	250,000
1087	0	0.1	60,000	0	95,670	17,250	18,420	24,454,071	18,420	26,894,055	250,000
1088	0	0.1	60,000	0	95,595	17,250	18,345	24,472,416	18,345	26,912,400	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1089	0.59	0.59	0	24	95,533	0	95,533	24,567,949	95,533	27,007,933	250,000
1090	0	0	0	0	95,502	17,250	78,252	24,646,201	78,252	27,086,185	250,000
1091	0	0.1	60,000	0	95,485	17,250	18,235	24,664,436	18,235	27,104,420	250,000
1092	0	0.1	60,000	0	95,449	17,250	18,199	24,682,635	18,199	27,122,619	250,000
1093	0	0.1	60,000	0	96,334	17,250	19,084	24,701,719	19,084	27,141,704	250,000
1094	0	0.1	60,000	0	99,058	17,250	21,808	24,723,527	21,808	27,163,512	250,000
1095	0	0.1	60,000	0	98,909	17,250	21,659	24,745,186	21,659	27,185,170	250,000
1096	0	0.1	60,000	0	98,776	17,250	21,526	24,766,713	21,526	27,206,697	250,000
1097	0	0.1	60,000	0	98,628	17,250	21,378	24,788,091	21,378	27,228,075	250,000
1098	0	0.1	60,000	0	98,541	17,250	21,291	24,809,381	21,291	27,249,366	250,000
1099	0	0.1	60,000	0	98,480	17,250	21,230	24,830,611	21,230	27,270,595	250,000
1100	0	0.1	60,000	0	98,388	17,250	21,138	24,851,749	21,138	27,291,733	250,000
1101	0	0.1	60,000	0	98,302	17,250	21,052	24,872,801	21,052	27,312,785	250,000
1102	0	0.1	60,000	0	98,199	17,250	20,949	24,893,750	20,949	27,333,734	250,000
1103	0.1	0.2	60,000	4	98,071	0	38,071	24,931,822	38,071	27,371,806	250,000
1104	0.01	0.11	60,000	4	97,879	0	37,879	24,969,700	37,879	27,409,684	250,000
1105	0.02	0.12	60,000	4	97,520	0	37,520	25,007,220	37,520	27,447,204	250,000
1106	0.01	0.11	60,000	4	96,885	0	36,885	25,044,105	36,885	27,484,090	250,000
1107	0	0.1	60,000	0	96,802	17,250	19,552	25,063,657	19,552	27,503,641	250,000
1108	0	0.1	60,000	0	96,775	17,250	19,525	25,083,182	19,525	27,523,166	250,000
1109	0	0.1	60,000	0	96,775	17,250	19,525	25,102,707	19,525	27,542,691	250,000
1110	0	0.1	60,000	0	96,804	17,250	19,554	25,122,261	19,554	27,562,245	250,000
1111	0	0.1	60,000	0	96,872	17,250	19,622	25,141,883	19,622	27,581,867	250,000
1112	0	0.1	60,000	0	96,983	17,250	19,733	25,161,616	19,733	27,601,601	250,000
1113	0.07	0.17	60,000	4	97,050	0	37,050	25,198,667	37,050	27,638,651	250,000
1114	0	0.1	60,000	0	97,095	17,250	19,845	25,218,512	19,845	27,658,496	250,000
1115	0	0.1	60,000	0	97,156	17,250	19,906	25,238,418	19,906	27,678,402	250,000
1116	0	0.1	60,000	0	97,136	17,250	19,886	25,258,303	19,886	27,698,287	250,000
1117	0	0.1	60,000	0	97,054	17,250	19,804	25,278,107	19,804	27,718,091	250,000
1118	0	0.1	60,000	0	97,005	17,250	19,755	25,297,862	19,755	27,737,846	250,000
1119	0	0.1	60,000	0	97,038	17,250	19,788	25,317,650	19,788	27,757,634	250,000
1120	0	0.1	60,000	0	96,993	17,250	19,743	25,337,393	19,743	27,777,377	250,000
1121	0.12	0.22	60,000	4	97,003	0	37,003	25,374,396	37,003	27,814,380	250,000
1122	0.07	0.17	60,000	4	96,941	0	36,941	25,411,337	36,941	27,851,321	250,000
1123	0	0.1	60,000	0	96,875	17,250	19,625	25,430,961	19,625	27,870,946	250,000
1124	0	0.1	60,000	0	96,811	17,250	19,561	25,450,523	19,561	27,890,507	250,000
1125	0	0.1	60,000	0	96,719	17,250	19,469	25,469,992	19,469	27,909,976	250,000
1126	0.48	0.48	0	24	96,676	0	96,676	25,566,668	96,676	28,006,652	250,000
1127	0.04	0.04	0	4	96,571	0	96,571	25,663,239	96,571	28,103,223	250,000
1128	0	0.1	60,000	0	96,499	17,250	19,249	25,682,488	19,249	28,122,472	250,000
1129	0	0.1	60,000	0	96,383	17,250	19,133	25,701,621	19,133	28,141,606	250,000
1130	0	0.1	60,000	0	96,258	17,250	19,008	25,720,630	19,008	28,160,614	250,000
1131	0	0.1	60,000	0	96,219	17,250	18,969	25,739,599	18,969	28,179,583	250,000
1132	0	0.1	60,000	0	96,115	17,250	18,865	25,758,463	18,865	28,198,448	250,000
1133	0	0.1	60,000	0	95,951	17,250	18,701	25,777,165	18,701	28,217,149	250,000
1134	0	0.1	60,000	0	95,728	17,250	18,478	25,795,643	18,478	28,235,627	250,000
1135	0.33	0.33	0	24	95,560	0	95,560	25,891,203	95,560	28,331,187	250,000
1136	0	0	0	0	95,477	17,250	78,227	25,969,430	78,227	28,409,414	250,000
1137	1.78	1.78	0	48	95,404	0	95,404	26,064,834	95,404	28,504,818	250,000
1138	0	0	0	0	95,359	17,250	78,109	26,142,943	78,109	28,582,927	250,000
1139	0	0	0	0	95,288	17,250	78,038	26,220,981	78,038	28,660,966	250,000
1140	0.55	0.55	0	24	95,310	0	95,310	26,316,292	95,310	28,756,276	250,000
1141	0	0	0	0	95,298	17,250	78,048	26,394,340	78,048	28,834,324	250,000
1142	0	0.1	60,000	0	95,216	17,250	17,966	26,412,306	17,966	28,852,290	250,000
1143	0	0.1	60,000	0	95,066	17,250	17,816	26,430,122	17,816	28,870,106	250,000
1144	0.34	0.34	0	24	93,266	0	93,266	26,523,388	93,266	28,963,372	250,000
1145	0.59	0.59	0	24	91,526	0	91,526	26,614,913	91,526	29,054,898	250,000
1146	0	0	0	0	95,308	17,250	78,058	26,692,971	78,058	29,132,955	250,000
1147	0	0.1	60,000	0	95,367	17,250	18,117	26,711,088	18,117	29,151,072	250,000
1148	0	0.1	60,000	0	95,200	17,250	17,950	26,729,038	17,950	29,169,022	250,000
1149	0.52	0.52	0	24	95,196	0	95,196	26,824,233	95,196	29,264,218	250,000
1150	0.11	0.11	0	4	95,130	0	95,130	26,919,363	95,130	29,359,347	250,000
1151	0	0.1	60,000	0	94,993	17,250	17,743	26,937,106	17,743	29,377,090	250,000
1152	0	0.1	60,000	0	94,370	17,250	17,120	26,954,226	17,120	29,394,210	250,000
1153	0	0.1	60,000	0	94,201	17,250	16,951	26,971,177	16,951	29,411,161	250,000
1154	0.12	0.22	60,000	4	94,001	0	34,001	27,005,177	34,001	29,445,161	250,000
1155	0	0.1	60,000	0	93,777	17,250	16,527	27,021,704	16,527	29,461,689	250,000
1156	0	0.1	60,000	0	93,522	17,250	16,272	27,037,977	16,272	29,477,961	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1157	0	0.1	60,000	0	93,175	17,250	15,925	27,053,902	15,925	29,493,886	250,000
1158	0	0.1	60,000	0	92,811	17,250	15,561	27,069,463	15,561	29,509,447	250,000
1159	0	0.1	60,000	0	92,534	17,250	15,284	27,084,747	15,284	29,524,732	250,000
1160	0	0.1	60,000	0	92,203	17,250	14,953	27,099,700	14,953	29,539,684	250,000
1161	0	0.1	60,000	0	90,544	17,250	13,294	27,112,994	13,294	29,552,979	250,000
1162	0	0.1	60,000	0	89,028	17,250	11,778	27,124,772	11,778	29,564,756	250,000
1163	1.02	1.02	0	48	88,892	0	88,892	27,213,664	88,892	29,653,649	250,000
1164	1.73	1.73	0	48	88,707	0	88,707	27,302,372	88,707	29,742,356	250,000
1165	0.17	0.17	0	4	88,489	0	88,489	27,390,861	88,489	29,830,845	250,000
1166	0	0	0	0	88,214	17,250	70,964	27,461,825	70,964	29,901,809	250,000
1167	0.01	0.11	60,000	4	87,981	0	27,981	27,489,806	27,981	29,929,791	250,000
1168	0	0.1	60,000	0	87,889	17,250	10,639	27,500,446	10,639	29,940,430	250,000
1169	0	0.1	60,000	0	87,736	17,250	10,486	27,510,931	10,486	29,950,916	250,000
1170	0	0.1	60,000	0	87,576	17,250	10,326	27,521,258	10,326	29,961,242	250,000
1171	0	0.1	60,000	0	87,364	17,250	10,114	27,531,372	10,114	29,971,356	250,000
1172	0	0.1	60,000	0	87,135	17,250	9,885	27,541,256	9,885	29,981,241	250,000
1173	0	0.1	60,000	0	86,955	17,250	9,705	27,550,961	9,705	29,990,945	250,000
1174	0.13	0.23	60,000	4	86,929	17,250	9,679	27,560,639	9,679	30,000,624	250,000
1175	0	0.1	60,000	0	86,957	17,250	9,707	27,570,346	9,707	30,010,330	250,000
1176	0.1	0.2	60,000	4	87,307	0	27,307	27,597,653	27,307	30,037,638	250,000
1177	0.05	0.15	60,000	4	87,168	0	27,168	27,624,821	27,168	30,064,805	250,000
1178	0	0.1	60,000	0	86,600	17,250	9,350	27,634,171	9,350	30,074,155	250,000
1179	0	0.1	60,000	0	86,405	17,250	9,155	27,643,326	9,155	30,083,310	250,000
1180	0	0.1	60,000	0	86,812	17,250	9,562	27,652,888	9,562	30,092,872	250,000
1181	0	0.1	60,000	0	87,296	17,250	10,046	27,662,935	10,046	30,102,919	250,000
1182	0	0.1	60,000	0	87,269	17,250	10,019	27,672,954	10,019	30,112,938	250,000
1183	0	0.1	60,000	0	87,250	17,250	10,000	27,682,954	10,000	30,122,938	250,000
1184	0	0.1	60,000	0	87,211	17,250	9,961	27,692,915	9,961	30,132,899	250,000
1185	0	0.1	60,000	0	87,172	17,250	9,922	27,702,837	9,922	30,142,821	250,000
1186	0	0.1	60,000	0	87,087	17,250	9,837	27,712,674	9,837	30,152,658	250,000
1187	0	0.1	60,000	0	86,980	17,250	9,730	27,722,404	9,730	30,162,388	250,000
1188	0	0.1	60,000	0	86,861	17,250	9,611	27,732,015	9,611	30,171,999	250,000
1189	0	0.1	60,000	0	86,790	17,250	9,540	27,741,555	9,540	30,181,540	250,000
1190	0	0.1	60,000	0	86,672	17,250	9,422	27,750,977	9,422	30,190,961	250,000
1191	0	0.1	60,000	0	86,550	17,250	9,300	27,760,277	9,300	30,200,261	250,000
1192	0.18	0.28	60,000	4	86,419	0	26,419	27,786,696	26,419	30,226,680	250,000
1193	0	0.1	60,000	0	86,271	17,250	9,021	27,795,717	9,021	30,235,702	250,000
1194	2.01	2.01	0	48	86,096	0	86,096	27,881,813	86,096	30,321,798	250,000
1195	0.47	0.47	0	24	85,918	0	85,918	27,967,732	85,918	30,407,716	250,000
1196	0	0	0	0	85,733	17,250	68,483	28,036,215	68,483	30,476,199	250,000
1197	0	0.1	60,000	0	85,421	17,250	8,171	28,044,386	8,171	30,484,370	250,000
1198	0	0.1	60,000	0	85,101	17,250	7,851	28,052,237	7,851	30,492,221	250,000
1199	0	0.1	60,000	0	84,891	17,250	7,641	28,059,878	7,641	30,499,862	250,000
1200	0	0.1	60,000	0	84,599	17,250	7,349	28,067,227	7,349	30,507,211	250,000
1201	0	0.1	60,000	0	84,268	17,250	7,018	28,074,245	7,018	30,514,229	250,000
1202	0	0.1	60,000	0	83,949	17,250	6,699	28,080,944	6,699	30,520,928	250,000
1203	0	0.1	60,000	0	83,596	17,250	6,346	28,087,289	6,346	30,527,274	250,000
1204	0	0.1	60,000	0	83,257	17,250	6,007	28,093,296	6,007	30,533,281	250,000
1205	0	0.1	60,000	0	82,984	17,250	5,734	28,099,030	5,734	30,539,014	250,000
1206	0	0.1	60,000	0	82,698	17,250	5,448	28,104,478	5,448	30,544,462	250,000
1207	0	0.1	60,000	0	82,459	17,250	5,209	28,109,687	5,209	30,549,671	250,000
1208	0.23	0.33	60,000	4	82,216	0	22,216	28,131,902	22,216	30,571,887	250,000
1209	0	0.1	60,000	0	82,594	17,250	5,344	28,137,247	5,344	30,577,231	250,000
1210	0	0.1	60,000	0	82,580	17,250	5,330	28,142,577	5,330	30,582,561	250,000
1211	0	0.1	60,000	0	82,470	17,250	5,220	28,147,796	5,220	30,587,781	250,000
1212	0	0.1	60,000	0	81,816	17,250	4,566	28,152,362	4,566	30,592,346	250,000
1213	0	0.1	60,000	0	82,005	17,250	4,755	28,157,117	4,755	30,597,101	250,000
1214	0	0.1	60,000	0	82,168	17,250	4,918	28,162,035	4,918	30,602,019	250,000
1215	0	0.1	60,000	0	82,534	17,250	5,284	28,167,319	5,284	30,607,303	250,000
1216	0	0.1	60,000	0	82,782	17,250	5,532	28,172,851	5,532	30,612,835	250,000
1217	0	0.1	60,000	0	83,145	17,250	5,895	28,178,746	5,895	30,618,730	250,000
1218	0.13	0.23	60,000	4	83,387	17,250	6,137	28,184,883	6,137	30,624,867	250,000
1219	0	0.1	60,000	0	83,676	17,250	6,426	28,191,310	6,426	30,631,294	250,000
1220	0	0.1	60,000	0	83,998	17,250	6,748	28,198,058	6,748	30,638,042	250,000
1221	0	0.1	60,000	0	84,269	17,250	7,019	28,205,077	7,019	30,645,061	250,000
1222	0	0.1	60,000	0	84,356	17,250	7,106	28,212,182	7,106	30,652,166	250,000
1223	0	0.1	60,000	0	84,679	17,250	7,429	28,219,612	7,429	30,659,596	250,000
1224	0	0.1	60,000	0	84,894	17,250	7,644	28,227,256	7,644	30,667,240	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1225	0	0.1	60,000	0	85,046	17,250	7,796	28,235,052	7,796	30,675,037	250,000
1226	0	0.1	60,000	0	85,297	17,250	8,047	28,243,099	8,047	30,683,084	250,000
1227	0	0.1	60,000	0	85,652	17,250	8,402	28,251,501	8,402	30,691,486	250,000
1228	0	0.1	60,000	0	86,004	17,250	8,754	28,260,255	8,754	30,700,239	250,000
1229	0.05	0.15	60,000	4	86,222	0	26,222	28,286,477	26,222	30,726,461	250,000
1230	0.28	0.28	0	24	86,283	0	86,283	28,372,760	86,283	30,812,744	250,000
1231	0	0	0	0	86,261	17,250	69,011	28,441,771	69,011	30,881,755	250,000
1232	0	0.1	60,000	0	86,231	17,250	8,981	28,450,752	8,981	30,890,736	250,000
1233	0	0.1	60,000	0	86,265	17,250	9,015	28,459,767	9,015	30,899,751	250,000
1234	0	0.1	60,000	0	86,401	17,250	9,151	28,468,918	9,151	30,908,902	250,000
1235	0	0.1	60,000	0	86,665	17,250	9,415	28,478,333	9,415	30,918,317	250,000
1236	0	0.1	60,000	0	86,895	17,250	9,645	28,487,978	9,645	30,927,962	250,000
1237	0	0.1	60,000	0	87,040	17,250	9,790	28,497,768	9,790	30,937,752	250,000
1238	0	0.1	60,000	0	87,208	17,250	9,958	28,507,726	9,958	30,947,710	250,000
1239	0.3	0.3	0	24	87,406	0	87,406	28,595,132	87,406	31,035,117	250,000
1240	0.63	0.63	0	24	87,637	0	87,637	28,682,769	87,637	31,122,753	250,000
1241	0	0	0	0	87,820	17,250	70,570	28,753,339	70,570	31,193,323	250,000
1242	0.47	0.47	0	24	87,985	0	87,985	28,841,323	87,985	31,281,307	250,000
1243	0	0	0	0	88,139	17,250	70,889	28,912,212	70,889	31,352,196	250,000
1244	0	0.1	60,000	0	88,243	17,250	10,993	28,923,205	10,993	31,363,189	250,000
1245	0.09	0.19	60,000	4	88,346	0	28,346	28,951,550	28,346	31,391,535	250,000
1246	0.06	0.16	60,000	4	88,478	0	28,478	28,980,028	28,478	31,420,012	250,000
1247	0.12	0.22	60,000	4	88,568	0	28,568	29,008,596	28,568	31,448,581	250,000
1248	0.59	0.59	0	24	88,635	0	88,635	29,097,232	88,635	31,537,216	250,000
1249	0	0	0	0	88,665	17,250	71,415	29,168,647	71,415	31,608,631	250,000
1250	0	0.1	60,000	0	88,700	17,250	11,450	29,180,097	11,450	31,620,081	250,000
1251	0.41	0.41	0	24	88,775	0	88,775	29,268,872	88,775	31,708,856	250,000
1252	0.45	0.45	0	24	88,834	0	88,834	29,357,706	88,834	31,797,690	250,000
1253	0	0	0	0	88,922	17,250	71,672	29,429,378	71,672	31,869,362	250,000
1254	0	0.1	60,000	0	89,006	17,250	11,756	29,441,134	11,756	31,881,118	250,000
1255	0.93	0.93	0	24	89,143	0	89,143	29,530,277	89,143	31,970,261	250,000
1256	0.03	0.03	0	4	89,316	0	89,316	29,619,593	89,316	32,059,577	250,000
1257	0	0.1	60,000	0	89,486	17,250	12,236	29,631,829	12,236	32,071,813	250,000
1258	0.5	0.5	0	24	89,644	0	89,644	29,721,473	89,644	32,161,457	250,000
1259	0	0	0	0	89,861	17,250	72,611	29,794,084	72,611	32,234,068	250,000
1260	0.43	0.43	0	24	90,118	0	90,118	29,884,202	90,118	32,324,186	250,000
1261	0	0	0	0	90,464	17,250	73,214	29,957,416	73,214	32,397,400	250,000
1262	0	0.1	60,000	0	90,643	17,250	13,393	29,970,809	13,393	32,410,793	250,000
1263	0.39	0.39	0	24	90,830	0	90,830	30,061,639	90,830	32,501,623	250,000
1264	0	0	0	0	91,028	17,250	73,778	30,135,417	73,778	32,575,401	250,000
1265	0	0.1	60,000	0	91,193	17,250	13,943	30,149,360	13,943	32,589,344	250,000
1266	0	0.1	60,000	0	91,344	17,250	14,094	30,163,454	14,094	32,603,438	250,000
1267	0.03	0.13	60,000	4	91,526	0	31,526	30,194,980	31,526	32,634,964	250,000
1268	0.75	0.75	0	24	91,700	0	91,700	30,286,680	91,700	32,726,664	250,000
1269	0	0	0	0	91,874	17,250	74,624	30,361,303	74,624	32,801,288	250,000
1270	0	0.1	60,000	0	92,059	17,250	14,809	30,376,112	14,809	32,816,096	250,000
1271	0	0.1	60,000	0	92,247	17,250	14,997	30,391,109	14,997	32,831,093	250,000
1272	0.5	0.5	0	24	92,450	0	92,450	30,483,559	92,450	32,923,544	250,000
1273	0	0	0	0	92,676	17,250	75,426	30,558,985	75,426	32,998,969	250,000
1274	1.1	1.1	0	48	92,882	0	92,882	30,651,867	92,882	33,091,851	250,000
1275	0	0	0	0	92,560	17,250	75,310	30,727,177	75,310	33,167,161	250,000
1276	0	0	0	0	92,758	17,250	75,508	30,802,685	75,508	33,242,669	250,000
1277	0.13	0.23	60,000	4	92,768	17,250	15,518	30,818,203	15,518	33,258,187	250,000
1278	0	0.1	60,000	0	92,939	17,250	15,689	30,833,892	15,689	33,273,876	250,000
1279	0.62	0.62	0	24	93,133	0	93,133	30,927,025	93,133	33,367,009	250,000
1280	0	0	0	0	93,305	17,250	76,055	31,003,080	76,055	33,443,064	250,000
1281	0.3	0.3	0	24	93,457	0	93,457	31,096,537	93,457	33,536,521	250,000
1282	0.32	0.32	0	24	93,620	0	93,620	31,190,157	93,620	33,630,141	250,000
1283	0.09	0.09	0	4	93,807	0	93,807	31,283,964	93,807	33,723,948	250,000
1284	4.35	4.35	0	48	93,970	0	93,970	31,377,934	93,970	33,817,918	250,000
1285	0	0	0	0	94,190	17,250	76,940	31,454,874	76,940	33,894,858	250,000
1286	0	0	0	0	94,373	17,250	77,123	31,531,997	77,123	33,971,981	250,000
1287	0	0.1	60,000	0	94,565	17,250	17,315	31,549,312	17,315	33,989,296	250,000
1288	0.3	0.3	0	24	94,771	0	94,771	31,644,083	94,771	34,084,067	250,000
1289	0	0	0	0	94,964	17,250	77,714	31,721,797	77,714	34,161,781	250,000
1290	0	0.1	60,000	0	95,139	17,250	17,889	31,739,686	17,889	34,179,670	250,000
1291	0.56	0.56	0	24	95,319	0	95,319	31,835,005	95,319	34,274,989	250,000
1292	0	0	0	0	95,512	17,250	78,262	31,913,267	78,262	34,353,251	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1293	0	0.1	60,000	0	95,705	17,250	18,455	31,931,722	18,455	34,371,706	250,000
1294	0.89	0.89	0	24	95,878	0	95,878	32,027,600	95,878	34,467,584	250,000
1295	0.05	0.05	0	4	96,073	0	96,073	32,123,673	96,073	34,563,657	250,000
1296	0.03	0.13	60,000	4	96,243	0	36,243	32,159,916	36,243	34,599,900	250,000
1297	0	0.1	60,000	0	96,404	17,250	19,154	32,179,070	19,154	34,619,054	250,000
1298	0.2	0.3	60,000	4	96,541	0	36,541	32,215,612	36,541	34,655,596	250,000
1299	0	0.1	60,000	0	96,665	17,250	19,415	32,235,027	19,415	34,675,011	250,000
1300	0.4	0.4	0	24	96,779	0	96,779	32,331,806	96,779	34,771,790	250,000
1301	0.01	0.01	0	4	96,893	0	96,893	32,428,699	96,893	34,868,683	250,000
1302	0.01	0.11	60,000	4	97,013	0	37,013	32,465,711	37,013	34,905,695	250,000
1303	0	0.1	60,000	0	97,147	17,250	19,897	32,485,608	19,897	34,925,592	250,000
1304	0.6	0.6	0	24	97,310	0	97,310	32,582,918	97,310	35,022,902	250,000
1305	0.04	0.04	0	4	97,516	0	97,516	32,680,434	97,516	35,120,418	250,000
1306	0	0.1	60,000	0	97,706	17,250	20,456	32,700,889	20,456	35,140,873	250,000
1307	2.33	2.33	0	48	97,872	0	97,872	32,798,761	97,872	35,238,746	250,000
1308	1.18	1.18	0	48	99,855	0	99,855	32,898,617	99,855	35,338,601	250,000
1309	0	0	0	0	101,771	17,250	84,521	32,983,138	84,521	35,423,123	250,000
1310	0.12	0.12	0	4	101,845	0	101,845	33,084,984	101,845	35,524,968	250,000
1311	0	0.1	60,000	0	101,894	17,250	24,644	33,109,628	24,644	35,549,612	250,000
1312	0	0.1	60,000	0	101,947	17,250	24,697	33,134,325	24,697	35,574,309	250,000
1313	0	0.1	60,000	0	102,001	17,250	24,751	33,159,076	24,751	35,599,060	250,000
1314	0	0.1	60,000	0	101,983	17,250	24,733	33,183,809	24,733	35,623,794	250,000
1315	0	0.1	60,000	0	102,007	17,250	24,757	33,208,566	24,757	35,648,551	250,000
1316	0.76	0.76	0	24	102,082	0	102,082	33,310,648	102,082	35,750,632	250,000
1317	1.19	1.19	0	48	102,214	0	102,214	33,412,862	102,214	35,852,846	250,000
1318	0.86	0.86	0	24	102,313	0	102,313	33,515,175	102,313	35,955,159	250,000
1319	0	0	0	0	102,396	17,250	85,146	33,600,321	85,146	36,040,305	250,000
1320	0.13	0.23	60,000	4	102,508	17,250	25,258	33,625,579	25,258	36,065,563	250,000
1321	0.15	0.25	60,000	4	102,577	0	42,577	33,668,156	42,577	36,108,140	250,000
1322	0.27	0.27	0	24	102,709	0	102,709	33,770,866	102,709	36,210,850	250,000
1323	0	0	0	0	102,899	17,250	85,649	33,856,514	85,649	36,296,498	250,000
1324	0	0.1	60,000	0	103,034	17,250	25,784	33,882,298	25,784	36,322,282	250,000
1325	0	0.1	60,000	0	103,163	17,250	25,913	33,908,211	25,913	36,348,196	250,000
1326	0.39	0.39	0	24	103,314	0	103,314	34,011,525	103,314	36,451,510	250,000
1327	0.29	0.29	0	24	103,432	0	103,432	34,114,958	103,432	36,554,942	250,000
1328	0	0	0	0	103,493	17,250	86,243	34,201,201	86,243	36,641,185	250,000
1329	0.55	0.55	0	24	103,471	0	103,471	34,304,672	103,471	36,744,656	250,000
1330	0.28	0.28	0	24	103,435	0	103,435	34,408,107	103,435	36,848,091	250,000
1331	0	0	0	0	102,622	17,250	85,372	34,493,479	85,372	36,933,463	250,000
1332	0.33	0.33	0	24	103,771	0	103,771	34,597,250	103,771	37,037,234	250,000
1333	0	0	0	0	104,000	17,250	86,750	34,683,999	86,750	37,123,984	250,000
1334	0.08	0.18	60,000	4	104,138	0	44,138	34,728,137	44,138	37,168,121	250,000
1335	1.88	1.88	0	48	104,235	0	104,235	34,832,373	104,235	37,272,357	250,000
1336	1.68	1.68	0	48	104,290	0	104,290	34,936,662	104,290	37,376,646	250,000
1337	1.55	1.55	0	48	104,361	0	104,361	35,041,023	104,361	37,481,007	250,000
1338	2.34	2.34	0	48	104,473	0	104,473	35,145,496	104,473	37,585,480	250,000
1339	0	0	0	0	104,482	17,250	87,232	35,232,729	87,232	37,672,713	250,000
1340	0	0	0	0	104,510	17,250	87,260	35,319,989	87,260	37,759,973	250,000
1341	0	0.1	60,000	0	104,528	17,250	27,278	35,347,266	27,278	37,787,251	250,000
1342	0	0.1	60,000	0	104,523	17,250	27,273	35,374,540	27,273	37,814,524	250,000
1343	0	0.1	60,000	0	106,044	17,250	28,794	35,403,334	28,794	37,843,318	250,000
1344	0	0.1	60,000	0	107,610	17,250	30,360	35,433,694	30,360	37,873,678	250,000
1345	0	0.1	60,000	0	108,641	17,250	31,391	35,465,085	31,391	37,905,070	250,000
1346	1.66	1.66	0	48	109,192	0	109,192	35,574,277	109,192	38,014,262	250,000
1347	0	0	0	0	110,313	17,250	93,063	35,667,341	93,063	38,107,325	250,000
1348	0.52	0.52	0	24	108,808	0	108,808	35,776,148	108,808	38,216,133	250,000
1349	0	0	0	0	109,607	17,250	92,357	35,868,506	92,357	38,308,490	250,000
1350	0	0.1	60,000	0	107,401	17,250	30,151	35,898,657	30,151	38,338,641	250,000
1351	0	0.1	60,000	0	107,520	17,250	30,270	35,928,926	30,270	38,368,911	250,000
1352	0	0.1	60,000	0	107,622	17,250	30,372	35,959,298	30,372	38,399,282	250,000
1353	0	0.1	60,000	0	107,663	17,250	30,413	35,989,711	30,413	38,429,695	250,000
1354	0	0.1	60,000	0	107,717	17,250	30,467	36,020,178	30,467	38,460,163	250,000
1355	0.18	0.28	60,000	4	107,817	0	47,817	36,067,995	47,817	38,507,980	250,000
1356	0.27	0.27	0	24	108,554	0	108,554	36,176,549	108,554	38,616,533	250,000
1357	0	0	0	0	108,603	17,250	91,353	36,267,902	91,353	38,707,886	250,000
1358	0.07	0.17	60,000	4	108,060	0	48,060	36,315,962	48,060	38,755,946	250,000
1359	0	0.1	60,000	0	107,124	17,250	29,874	36,345,836	29,874	38,785,820	250,000
1360	0	0.1	60,000	0	106,909	17,250	29,659	36,375,495	29,659	38,815,479	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1361	0	0.1	60,000	0	106,614	17,250	29,364	36,404,859	29,364	38,844,843	250,000
1362	0	0.1	60,000	0	106,345	17,250	29,095	36,433,954	29,095	38,873,938	250,000
1363	0.1	0.2	60,000	4	106,411	0	46,411	36,480,364	46,411	38,920,348	250,000
1364	0.09	0.19	60,000	4	106,987	0	46,987	36,527,351	46,987	38,967,335	250,000
1365	0.27	0.27	0	24	106,609	0	106,609	36,633,960	106,609	39,073,945	250,000
1366	0	0	0	0	106,497	17,250	89,247	36,723,207	89,247	39,163,191	250,000
1367	0	0.1	60,000	0	106,649	17,250	29,399	36,752,606	29,399	39,192,590	250,000
1368	0	0.1	60,000	0	106,524	17,250	29,274	36,781,880	29,274	39,221,864	250,000
1369	0	0.1	60,000	0	106,448	17,250	29,198	36,811,078	29,198	39,251,062	250,000
1370	0	0.1	60,000	0	106,373	17,250	29,123	36,840,200	29,123	39,280,184	250,000
1371	0.17	0.27	60,000	4	106,290	0	46,290	36,886,490	46,290	39,326,475	250,000
1372	0.35	0.35	0	24	106,120	0	106,120	36,992,610	106,120	39,432,594	250,000
1373	0	0	0	0	105,698	17,250	88,448	37,081,058	88,448	39,521,042	250,000
1374	0	0.1	60,000	0	105,546	17,250	28,296	37,109,354	28,296	39,549,338	250,000
1375	0	0.1	60,000	0	104,718	17,250	27,468	37,136,822	27,468	39,576,806	250,000
1376	0	0.1	60,000	0	104,618	17,250	27,368	37,164,189	27,368	39,604,173	250,000
1377	0	0.1	60,000	0	104,523	17,250	27,273	37,191,462	27,273	39,631,446	250,000
1378	0	0.1	60,000	0	104,339	17,250	27,089	37,218,551	27,089	39,658,535	250,000
1379	0	0.1	60,000	0	104,105	17,250	26,855	37,245,406	26,855	39,685,390	250,000
1380	0	0.1	60,000	0	103,788	17,250	26,538	37,271,944	26,538	39,711,928	250,000
1381	0.06	0.16	60,000	4	103,403	0	43,403	37,315,347	43,403	39,755,331	250,000
1382	0.77	0.77	0	24	102,824	0	102,824	37,418,171	102,824	39,858,155	250,000
1383	0.03	0.03	0	4	102,565	0	102,565	37,520,736	102,565	39,960,720	250,000
1384	0	0.1	60,000	0	102,292	17,250	25,042	37,545,778	25,042	39,985,762	250,000
1385	0	0.1	60,000	0	102,039	17,250	24,789	37,570,567	24,789	40,010,551	250,000
1386	0	0.1	60,000	0	101,823	17,250	24,573	37,595,140	24,573	40,035,124	250,000
1387	0.03	0.13	60,000	4	101,571	0	41,571	37,636,711	41,571	40,076,695	250,000
1388	0.18	0.28	60,000	4	101,311	0	41,311	37,678,021	41,311	40,118,005	250,000
1389	0	0.1	60,000	0	101,076	17,250	23,826	37,701,847	23,826	40,141,831	250,000
1390	0	0.1	60,000	0	100,884	17,250	23,634	37,725,481	23,634	40,165,465	250,000
1391	0	0.1	60,000	0	100,787	17,250	23,537	37,749,018	23,537	40,189,002	250,000
1392	0.25	0.35	60,000	4	100,746	0	40,746	37,789,764	40,746	40,229,748	250,000
1393	1.36	1.36	0	48	100,787	0	100,787	37,890,551	100,787	40,330,535	250,000
1394	0.01	0.01	0	4	100,832	0	100,832	37,991,383	100,832	40,431,367	250,000
1395	0.01	0.01	0	4	100,815	0	100,815	38,092,198	100,815	40,532,182	250,000
1396	0	0.1	60,000	0	100,805	17,250	23,555	38,115,752	23,555	40,555,737	250,000
1397	0.08	0.18	60,000	4	100,812	0	40,812	38,156,564	40,812	40,596,549	250,000
1398	0	0.1	60,000	0	100,877	17,250	23,627	38,180,192	23,627	40,620,176	250,000
1399	0.26	0.26	0	24	100,878	0	100,878	38,281,070	100,878	40,721,054	250,000
1400	0.03	0.03	0	4	100,867	0	100,867	38,381,937	100,867	40,821,921	250,000
1401	0.39	0.39	0	24	100,831	0	100,831	38,482,768	100,831	40,922,752	250,000
1402	0	0	0	0	100,838	17,250	83,588	38,566,356	83,588	41,006,340	250,000
1403	0	0.1	60,000	0	100,934	17,250	23,684	38,590,040	23,684	41,030,024	250,000
1404	0	0.1	60,000	0	101,029	17,250	23,779	38,613,818	23,779	41,053,803	250,000
1405	0.05	0.15	60,000	4	101,099	0	41,099	38,654,918	41,099	41,094,902	250,000
1406	0	0.1	60,000	0	101,188	17,250	23,938	38,678,855	23,938	41,118,840	250,000
1407	0	0.1	60,000	0	101,233	17,250	23,983	38,702,838	23,983	41,142,822	250,000
1408	0	0.1	60,000	0	101,415	17,250	24,165	38,727,003	24,165	41,166,988	250,000
1409	0	0.1	60,000	0	101,342	17,250	24,092	38,751,095	24,092	41,191,080	250,000
1410	0	0.1	60,000	0	100,996	17,250	23,746	38,774,841	23,746	41,214,825	250,000
1411	0	0.1	60,000	0	100,250	17,250	23,000	38,797,841	23,000	41,237,826	250,000
1412	0	0.1	60,000	0	100,250	17,250	23,000	38,820,841	23,000	41,260,826	250,000
1413	0	0.1	60,000	0	100,353	17,250	23,103	38,843,945	23,103	41,283,929	250,000
1414	0	0.1	60,000	0	100,447	17,250	23,197	38,867,142	23,197	41,307,126	250,000
1415	0	0.1	60,000	0	100,487	17,250	23,237	38,890,379	23,237	41,330,364	250,000
1416	0	0.1	60,000	0	100,518	17,250	23,268	38,913,648	23,268	41,353,632	250,000
1417	0	0.1	60,000	0	100,509	17,250	23,259	38,936,907	23,259	41,376,891	250,000
1418	0	0.1	60,000	0	100,543	17,250	23,293	38,960,200	23,293	41,400,184	250,000
1419	0	0.1	60,000	0	100,598	17,250	23,348	38,983,549	23,348	41,423,533	250,000
1420	0	0.1	60,000	0	100,615	17,250	23,365	39,006,913	23,365	41,446,898	250,000
1421	0	0.1	60,000	0	100,597	17,250	23,347	39,030,260	23,347	41,470,244	250,000
1422	0	0.1	60,000	0	100,585	17,250	23,335	39,053,595	23,335	41,493,580	250,000
1423	0	0.1	60,000	0	100,561	17,250	23,311	39,076,906	23,311	41,516,890	250,000
1424	0	0.1	60,000	0	100,573	17,250	23,323	39,100,229	23,323	41,540,213	250,000
1425	0	0.1	60,000	0	100,596	17,250	23,346	39,123,576	23,346	41,563,560	250,000
1426	0	0.1	60,000	0	100,648	17,250	23,398	39,146,973	23,398	41,586,957	250,000
1427	0	0.1	60,000	0	100,666	17,250	23,416	39,170,389	23,416	41,610,374	250,000
1428	0	0.1	60,000	0	100,639	17,250	23,389	39,193,778	23,389	41,633,762	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1429	0	0.1	60,000	0	100,568	17,250	23,318	39,217,096	23,318	41,657,080	250,000
1430	0	0.1	60,000	0	100,471	17,250	23,221	39,240,317	23,221	41,680,301	250,000
1431	0.15	0.25	60,000	4	100,339	0	40,339	39,280,656	40,339	41,720,641	250,000
1432	0.57	0.57	0	24	100,211	0	100,211	39,380,867	100,211	41,820,852	250,000
1433	0	0	0	0	100,081	17,250	82,831	39,463,699	82,831	41,903,683	250,000
1434	0	0.1	60,000	0	99,934	17,250	22,684	39,486,383	22,684	41,926,367	250,000
1435	0.79	0.79	0	24	99,756	0	99,756	39,586,139	99,756	42,026,123	250,000
1436	0	0	0	0	99,528	17,250	82,278	39,668,417	82,278	42,108,401	250,000
1437	0	0.1	60,000	0	99,252	17,250	22,002	39,690,418	22,002	42,130,402	250,000
1438	0	0.1	60,000	0	98,972	17,250	21,722	39,712,140	21,722	42,152,124	250,000
1439	0	0.1	60,000	0	98,677	17,250	21,427	39,733,567	21,427	42,173,551	250,000
1440	0	0.1	60,000	0	98,424	17,250	21,174	39,754,741	21,174	42,194,726	250,000
1441	0	0.1	60,000	0	98,205	17,250	20,955	39,775,696	20,955	42,215,680	250,000
1442	0.02	0.12	60,000	4	97,964	0	37,964	39,813,660	37,964	42,253,644	250,000
1443	0.6	0.6	0	24	97,718	0	97,718	39,911,377	97,718	42,351,361	250,000
1444	0	0	0	0	97,421	17,250	80,171	39,991,549	80,171	42,431,533	250,000
1445	0	0.1	60,000	0	97,187	17,250	19,937	40,011,486	19,937	42,451,470	250,000
1446	0	0.1	60,000	0	96,982	17,250	19,732	40,031,217	19,732	42,471,202	250,000
1447	0	0.1	60,000	0	96,074	17,250	18,824	40,050,041	18,824	42,490,026	250,000
1448	0	0.1	60,000	0	96,071	17,250	18,821	40,068,862	18,821	42,508,847	250,000
1449	0	0.1	60,000	0	96,139	17,250	18,889	40,087,752	18,889	42,527,736	250,000
1450	0	0.1	60,000	0	96,119	17,250	18,869	40,106,621	18,869	42,546,605	250,000
1451	0	0.1	60,000	0	95,890	17,250	18,640	40,125,261	18,640	42,565,245	250,000
1452	0	0.1	60,000	0	95,630	17,250	18,380	40,143,641	18,380	42,583,625	250,000
1453	0	0.1	60,000	0	95,476	17,250	18,226	40,161,867	18,226	42,601,851	250,000
1454	0	0.1	60,000	0	95,414	17,250	18,164	40,180,031	18,164	42,620,015	250,000
1455	0	0.1	60,000	0	95,368	17,250	18,118	40,198,149	18,118	42,638,133	250,000
1456	0	0.1	60,000	0	95,303	17,250	18,053	40,216,202	18,053	42,656,187	250,000
1457	0	0.1	60,000	0	95,107	17,250	17,857	40,234,059	17,857	42,674,044	250,000
1458	0	0.1	60,000	0	94,907	17,250	17,657	40,251,716	17,657	42,691,700	250,000
1459	0.09	0.19	60,000	4	94,749	0	34,749	40,286,465	34,749	42,726,449	250,000
1460	0	0.1	60,000	0	94,675	17,250	17,425	40,303,890	17,425	42,743,874	250,000
1461	0	0.1	60,000	0	94,608	17,250	17,358	40,321,248	17,358	42,761,232	250,000
1462	0	0.1	60,000	0	94,621	17,250	17,371	40,338,619	17,371	42,778,604	250,000
1463	0	0.1	60,000	0	94,696	17,250	17,446	40,356,065	17,446	42,796,049	250,000
1464	0	0.1	60,000	0	94,676	17,250	17,426	40,373,491	17,426	42,813,475	250,000
1465	0	0.1	60,000	0	94,680	17,250	17,430	40,390,921	17,430	42,830,905	250,000
1466	0	0.1	60,000	0	94,694	17,250	17,444	40,408,365	17,444	42,848,349	250,000
1467	0.15	0.25	60,000	4	94,654	0	34,654	40,443,018	34,654	42,883,003	250,000
1468	0	0.1	60,000	0	94,696	17,250	17,446	40,460,464	17,446	42,900,448	250,000
1469	0	0.1	60,000	0	94,692	17,250	17,442	40,477,906	17,442	42,917,890	250,000
1470	0	0.1	60,000	0	94,654	17,250	17,404	40,495,310	17,404	42,935,295	250,000
1471	0	0.1	60,000	0	94,432	17,250	17,182	40,512,492	17,182	42,952,477	250,000
1472	0	0.1	60,000	0	94,161	17,250	16,911	40,529,403	16,911	42,969,387	250,000
1473	0.16	0.26	60,000	4	93,916	0	33,916	40,563,319	33,916	43,003,303	250,000
1474	0	0.1	60,000	0	93,753	17,250	16,503	40,579,821	16,503	43,019,806	250,000
1475	0.04	0.14	60,000	4	93,546	0	33,546	40,613,367	33,546	43,053,351	250,000
1476	0	0.1	60,000	0	93,328	17,250	16,078	40,629,445	16,078	43,069,429	250,000
1477	0	0.1	60,000	0	92,955	17,250	15,705	40,645,150	15,705	43,085,135	250,000
1478	0	0.1	60,000	0	92,662	17,250	15,412	40,660,562	15,412	43,100,546	250,000
1479	0.17	0.27	60,000	4	92,289	0	32,289	40,692,851	32,289	43,132,836	250,000
1480	0	0.1	60,000	0	91,992	17,250	14,742	40,707,594	14,742	43,147,578	250,000
1481	0	0.1	60,000	0	91,753	17,250	14,503	40,722,097	14,503	43,162,081	250,000
1482	0.04	0.14	60,000	4	91,524	0	31,524	40,753,621	31,524	43,193,605	250,000
1483	0	0.1	60,000	0	91,192	17,250	13,942	40,767,563	13,942	43,207,547	250,000
1484	0	0.1	60,000	0	90,914	17,250	13,664	40,781,227	13,664	43,221,211	250,000
1485	0	0.1	60,000	0	90,747	17,250	13,497	40,794,724	13,497	43,234,708	250,000
1486	0.28	0.28	0	24	90,454	0	90,454	40,885,177	90,454	43,325,162	250,000
1487	0	0	0	0	90,056	17,250	72,806	40,957,984	72,806	43,397,968	250,000
1488	0	0.1	60,000	0	89,675	17,250	12,425	40,970,408	12,425	43,410,393	250,000
1489	0	0.1	60,000	0	89,374	17,250	12,124	40,982,532	12,124	43,422,517	250,000
1490	0.02	0.12	60,000	4	89,000	0	29,000	41,011,532	29,000	43,451,516	250,000
1491	0	0.1	60,000	0	88,609	17,250	11,359	41,022,891	11,359	43,462,875	250,000
1492	0	0.1	60,000	0	87,949	17,250	10,699	41,033,590	10,699	43,473,574	250,000
1493	0	0.1	60,000	0	87,703	17,250	10,453	41,044,043	10,453	43,484,027	250,000
1494	0.08	0.18	60,000	4	87,530	0	27,530	41,071,573	27,530	43,511,557	250,000
1495	0.11	0.21	60,000	4	87,251	0	27,251	41,098,823	27,251	43,538,808	250,000
1496	0.45	0.45	0	24	86,938	0	86,938	41,185,762	86,938	43,625,746	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1497	0	0	0	0	86,765	17,250	69,515	41,255,276	69,515	43,695,261	250,000
1498	0	0.1	60,000	0	86,668	17,250	9,418	41,264,695	9,418	43,704,679	250,000
1499	0	0.1	60,000	0	86,663	17,250	9,413	41,274,108	9,413	43,714,092	250,000
1500	0	0.1	60,000	0	86,658	17,250	9,408	41,283,515	9,408	43,723,500	250,000
1501	0	0.1	60,000	0	86,582	17,250	9,332	41,292,847	9,332	43,732,831	250,000
1502	0	0.1	60,000	0	86,527	17,250	9,277	41,302,124	9,277	43,742,109	250,000
1503	0	0.1	60,000	0	86,543	17,250	9,293	41,311,418	9,293	43,751,402	250,000
1504	0	0.1	60,000	0	86,538	17,250	9,288	41,320,706	9,288	43,760,690	250,000
1505	0	0.1	60,000	0	86,496	17,250	9,246	41,329,952	9,246	43,769,936	250,000
1506	0	0.1	60,000	0	86,415	17,250	9,165	41,339,117	9,165	43,779,102	250,000
1507	0	0.1	60,000	0	86,301	17,250	9,051	41,348,168	9,051	43,788,152	250,000
1508	0	0.1	60,000	0	86,181	17,250	8,931	41,357,100	8,931	43,797,084	250,000
1509	0	0.1	60,000	0	86,119	17,250	8,869	41,365,969	8,869	43,805,953	250,000
1510	0	0.1	60,000	0	86,129	17,250	8,879	41,374,847	8,879	43,814,831	250,000
1511	0	0.1	60,000	0	86,159	17,250	8,909	41,383,756	8,909	43,823,740	250,000
1512	0.38	0.38	0	24	86,177	0	86,177	41,469,933	86,177	43,909,917	250,000
1513	0	0	0	0	86,166	17,250	68,916	41,538,849	68,916	43,978,834	250,000
1514	0	0.1	60,000	0	86,118	17,250	8,868	41,547,718	8,868	43,987,702	250,000
1515	0.26	0.26	0	24	86,081	0	86,081	41,633,799	86,081	44,073,783	250,000
1516	0.34	0.34	0	24	86,069	0	86,069	41,719,868	86,069	44,159,852	250,000
1517	0	0	0	0	85,932	17,250	68,682	41,788,550	68,682	44,228,534	250,000
1518	0	0.1	60,000	0	85,770	17,250	8,520	41,797,070	8,520	44,237,054	250,000
1519	0	0.1	60,000	0	85,657	17,250	8,407	41,805,477	8,407	44,245,461	250,000
1520	0	0.1	60,000	0	85,510	17,250	8,260	41,813,737	8,260	44,253,721	250,000
1521	0	0.1	60,000	0	85,255	17,250	8,005	41,821,742	8,005	44,261,726	250,000
1522	0	0.1	60,000	0	84,965	17,250	7,715	41,829,457	7,715	44,269,441	250,000
1523	0	0.1	60,000	0	84,706	17,250	7,456	41,836,913	7,456	44,276,897	250,000
1524	0	0.1	60,000	0	84,447	17,250	7,197	41,844,110	7,197	44,284,095	250,000
1525	0.01	0.11	60,000	4	84,230	0	24,230	41,868,340	24,230	44,308,324	250,000
1526	0	0.1	60,000	0	84,045	17,250	6,795	41,875,135	6,795	44,315,119	250,000
1527	0.05	0.15	60,000	4	83,827	0	23,827	41,898,962	23,827	44,338,946	250,000
1528	0	0.1	60,000	0	83,602	17,250	6,352	41,905,314	6,352	44,345,298	250,000
1529	0	0.1	60,000	0	83,366	17,250	6,116	41,911,430	6,116	44,351,415	250,000
1530	0.46	0.46	0	24	83,122	0	83,122	41,994,552	83,122	44,434,536	250,000
1531	0.42	0.42	0	24	82,930	0	82,930	42,077,482	82,930	44,517,466	250,000
1532	0	0	0	0	82,780	17,250	65,530	42,143,011	65,530	44,582,996	250,000
1533	0	0.1	60,000	0	82,620	17,250	5,370	42,148,381	5,370	44,588,365	250,000
1534	0	0.1	60,000	0	82,561	17,250	5,311	42,153,692	5,311	44,593,676	250,000
1535	0	0.1	60,000	0	82,503	17,250	5,253	42,158,945	5,253	44,598,929	250,000
1536	0	0.1	60,000	0	82,470	17,250	5,220	42,164,166	5,220	44,604,150	250,000
1537	0	0.1	60,000	0	82,418	17,250	5,168	42,169,334	5,168	44,609,318	250,000
1538	0	0.1	60,000	0	82,378	17,250	5,128	42,174,461	5,128	44,614,446	250,000
1539	0	0.1	60,000	0	82,416	17,250	5,166	42,179,628	5,166	44,619,612	250,000
1540	0	0.1	60,000	0	82,421	17,250	5,171	42,184,798	5,171	44,624,783	250,000
1541	0	0.1	60,000	0	82,366	17,250	5,116	42,189,915	5,116	44,629,899	250,000
1542	0	0.1	60,000	0	82,245	17,250	4,995	42,194,909	4,995	44,634,894	250,000
1543	0	0.1	60,000	0	82,114	17,250	4,864	42,199,774	4,864	44,639,758	250,000
1544	0	0.1	60,000	0	81,999	17,250	4,749	42,204,523	4,749	44,644,507	250,000
1545	0	0.1	60,000	0	81,885	17,250	4,635	42,209,158	4,635	44,649,142	250,000
1546	0	0.1	60,000	0	81,839	17,250	4,589	42,213,747	4,589	44,653,731	250,000
1547	0	0.1	60,000	0	81,838	17,250	4,588	42,218,335	4,588	44,658,319	250,000
1548	0	0.1	60,000	0	81,872	17,250	4,622	42,222,957	4,622	44,662,941	250,000
1549	0	0.1	60,000	0	81,934	17,250	4,684	42,227,641	4,684	44,667,625	250,000
1550	0	0.1	60,000	0	82,053	17,250	4,803	42,232,444	4,803	44,672,428	250,000
1551	0.19	0.29	60,000	4	82,179	0	22,179	42,254,623	22,179	44,694,607	250,000
1552	0.07	0.17	60,000	4	82,313	0	22,313	42,276,936	22,313	44,716,920	250,000
1553	0	0.1	60,000	0	82,451	17,250	5,201	42,282,137	5,201	44,722,121	250,000
1554	0.33	0.33	0	24	82,545	0	82,545	42,364,682	82,545	44,804,666	250,000
1555	0.29	0.29	0	24	82,663	0	82,663	42,447,345	82,663	44,887,329	250,000
1556	0	0	0	0	82,794	17,250	65,544	42,512,889	65,544	44,952,873	250,000
1557	0	0.1	60,000	0	82,885	17,250	5,635	42,518,525	5,635	44,958,509	250,000
1558	0	0.1	60,000	0	83,019	17,250	5,769	42,524,294	5,769	44,964,278	250,000
1559	0	0.1	60,000	0	83,128	17,250	5,878	42,530,172	5,878	44,970,156	250,000
1560	0	0.1	60,000	0	83,304	17,250	6,054	42,536,226	6,054	44,976,210	250,000
1561	0	0.1	60,000	0	83,515	17,250	6,265	42,542,490	6,265	44,982,475	250,000
1562	0	0.1	60,000	0	83,584	17,250	6,334	42,548,825	6,334	44,988,809	250,000
1563	0	0.1	60,000	0	83,655	17,250	6,405	42,555,230	6,405	44,995,214	250,000
1564	0	0.1	60,000	0	83,803	17,250	6,553	42,561,783	6,553	45,001,767	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1565	0	0.1	60,000	0	83,941	17,250	6,691	42,568,474	6,691	45,008,458	250,000
1566	0	0.1	60,000	0	84,079	17,250	6,829	42,575,303	6,829	45,015,287	250,000
1567	0.17	0.27	60,000	4	84,175	0	24,175	42,599,478	24,175	45,039,462	250,000
1568	0	0.1	60,000	0	84,289	17,250	7,039	42,606,516	7,039	45,046,500	250,000
1569	0	0.1	60,000	0	84,345	17,250	7,095	42,613,611	7,095	45,053,595	250,000
1570	0	0.1	60,000	0	84,407	17,250	7,157	42,620,768	7,157	45,060,752	250,000
1571	0	0.1	60,000	0	84,498	17,250	7,248	42,628,016	7,248	45,068,000	250,000
1572	0	0.1	60,000	0	84,511	17,250	7,261	42,635,277	7,261	45,075,261	250,000
1573	0	0.1	60,000	0	84,520	17,250	7,270	42,642,547	7,270	45,082,531	250,000
1574	0	0.1	60,000	0	84,535	17,250	7,285	42,649,832	7,285	45,089,816	250,000
1575	0	0.1	60,000	0	84,572	17,250	7,322	42,657,154	7,322	45,097,139	250,000
1576	0	0.1	60,000	0	84,597	17,250	7,347	42,664,501	7,347	45,104,486	250,000
1577	0	0.1	60,000	0	84,676	17,250	7,426	42,671,927	7,426	45,111,912	250,000
1578	0	0.1	60,000	0	84,717	17,250	7,467	42,679,395	7,467	45,119,379	250,000
1579	0	0.1	60,000	0	84,791	17,250	7,541	42,686,936	7,541	45,126,920	250,000
1580	0	0.1	60,000	0	84,825	17,250	7,575	42,694,511	7,575	45,134,495	250,000
1581	0	0.1	60,000	0	84,904	17,250	7,654	42,702,165	7,654	45,142,149	250,000
1582	0	0.1	60,000	0	85,004	17,250	7,754	42,709,919	7,754	45,149,903	250,000
1583	0	0.1	60,000	0	85,085	17,250	7,835	42,717,754	7,835	45,157,738	250,000
1584	0	0.1	60,000	0	85,192	17,250	7,942	42,725,696	7,942	45,165,680	250,000
1585	0	0.1	60,000	0	85,318	17,250	8,068	42,733,764	8,068	45,173,749	250,000
1586	1.93	1.93	0	48	85,403	0	85,403	42,819,168	85,403	45,259,152	250,000
1587	0	0	0	0	85,453	17,250	68,203	42,887,371	68,203	45,327,355	250,000
1588	0.64	0.64	0	24	85,455	0	85,455	42,972,826	85,455	45,412,810	250,000
1589	0.14	0.14	0	4	85,475	0	85,475	43,058,301	85,475	45,498,285	250,000
1590	0.37	0.37	0	24	85,480	0	85,480	43,143,781	85,480	45,583,766	250,000
1591	0	0	0	0	85,474	17,250	68,224	43,212,006	68,224	45,651,990	250,000
1592	0	0.1	60,000	0	85,511	17,250	8,261	43,220,266	8,261	45,660,251	250,000
1593	0	0.1	60,000	0	85,596	17,250	8,346	43,228,612	8,346	45,668,596	250,000
1594	0	0.1	60,000	0	85,695	17,250	8,445	43,237,057	8,445	45,677,041	250,000
1595	0	0.1	60,000	0	85,809	17,250	8,559	43,245,616	8,559	45,685,600	250,000
1596	0	0.1	60,000	0	85,933	17,250	8,683	43,254,299	8,683	45,694,283	250,000
1597	0	0.1	60,000	0	86,037	17,250	8,787	43,263,085	8,787	45,703,070	250,000
1598	0	0.1	60,000	0	86,160	17,250	8,910	43,271,995	8,910	45,711,979	250,000
1599	0	0.1	60,000	0	86,261	17,250	9,011	43,281,006	9,011	45,720,990	250,000
1600	0	0.1	60,000	0	86,316	17,250	9,066	43,290,072	9,066	45,730,057	250,000
1601	0	0.1	60,000	0	86,291	17,250	9,041	43,299,114	9,041	45,739,098	250,000
1602	0	0.1	60,000	0	86,254	17,250	9,004	43,308,118	9,004	45,748,102	250,000
1603	0	0.1	60,000	0	86,223	17,250	8,973	43,317,090	8,973	45,757,075	250,000
1604	0	0.1	60,000	0	86,211	17,250	8,961	43,326,051	8,961	45,766,035	250,000
1605	2.87	2.87	0	48	86,202	0	86,202	43,412,253	86,202	45,852,237	250,000
1606	0.01	0.01	0	4	86,198	0	86,198	43,498,450	86,198	45,938,435	250,000
1607	0.14	0.14	0	4	86,148	0	86,148	43,584,599	86,148	46,024,583	250,000
1608	0.01	0.11	60,000	4	86,127	0	26,127	43,610,725	26,127	46,050,710	250,000
1609	0	0.1	60,000	0	86,091	17,250	8,841	43,619,566	8,841	46,059,550	250,000
1610	0	0.1	60,000	0	86,066	17,250	8,816	43,628,382	8,816	46,068,366	250,000
1611	0.51	0.51	0	24	86,055	0	86,055	43,714,436	86,055	46,154,421	250,000
1612	0	0	0	0	86,090	17,250	68,840	43,783,277	68,840	46,223,261	250,000
1613	0	0.1	60,000	0	86,178	17,250	8,928	43,792,205	8,928	46,232,189	250,000
1614	0	0.1	60,000	0	86,296	17,250	9,046	43,801,251	9,046	46,241,236	250,000
1615	0.18	0.28	60,000	4	86,470	0	26,470	43,827,721	26,470	46,267,706	250,000
1616	0.19	0.29	60,000	4	86,666	0	26,666	43,854,388	26,666	46,294,372	250,000
1617	0	0.1	60,000	0	86,872	17,250	9,622	43,864,009	9,622	46,303,994	250,000
1618	0	0.1	60,000	0	87,063	17,250	9,813	43,873,823	9,813	46,313,807	250,000
1619	0	0.1	60,000	0	87,190	17,250	9,940	43,883,763	9,940	46,323,747	250,000
1620	0.51	0.51	0	24	87,257	0	87,257	43,971,021	87,257	46,411,005	250,000
1621	0.18	0.18	0	4	87,433	0	87,433	44,058,454	87,433	46,498,438	250,000
1622	0.39	0.39	0	24	87,527	0	87,527	44,145,981	87,527	46,585,965	250,000
1623	0.04	0.04	0	4	87,508	0	87,508	44,233,489	87,508	46,673,473	250,000
1624	0	0.1	60,000	0	87,502	17,250	10,252	44,243,741	10,252	46,683,725	250,000
1625	0	0.1	60,000	0	87,503	17,250	10,253	44,253,994	10,253	46,693,978	250,000
1626	0	0.1	60,000	0	87,578	17,250	10,328	44,264,322	10,328	46,704,306	250,000
1627	0	0.1	60,000	0	87,669	17,250	10,419	44,274,741	10,419	46,714,725	250,000
1628	0	0.1	60,000	0	87,763	17,250	10,513	44,285,254	10,513	46,725,239	250,000
1629	0	0.1	60,000	0	87,825	17,250	10,575	44,295,829	10,575	46,735,814	250,000
1630	0	0.1	60,000	0	87,875	17,250	10,625	44,306,455	10,625	46,746,439	250,000
1631	0	0.1	60,000	0	87,853	17,250	10,603	44,317,058	10,603	46,757,042	250,000
1632	0	0.1	60,000	0	87,793	17,250	10,543	44,327,601	10,543	46,767,585	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1633	0.15	0.25	60,000	4	87,698	0	27,698	44,355,299	27,698	46,795,283	250,000
1634	0.42	0.42	0	24	87,570	0	87,570	44,442,868	87,570	46,882,853	250,000
1635	0.16	0.16	0	4	87,451	0	87,451	44,530,320	87,451	46,970,304	250,000
1636	1.45	1.45	0	48	87,415	0	87,415	44,617,735	87,415	47,057,719	250,000
1637	0.01	0.01	0	4	87,402	0	87,402	44,705,137	87,402	47,145,121	250,000
1638	0	0	0	0	87,386	17,250	70,136	44,775,273	70,136	47,215,257	250,000
1639	0	0.1	60,000	0	87,401	17,250	10,151	44,785,424	10,151	47,225,408	250,000
1640	0	0.1	60,000	0	87,428	17,250	10,178	44,795,602	10,178	47,235,586	250,000
1641	0.38	0.38	0	24	87,429	0	87,429	44,883,031	87,429	47,323,015	250,000
1642	0	0	0	0	87,442	17,250	70,192	44,953,223	70,192	47,393,207	250,000
1643	0	0.1	60,000	0	87,427	17,250	10,177	44,963,399	10,177	47,403,384	250,000
1644	0	0.1	60,000	0	87,375	17,250	10,125	44,973,524	10,125	47,413,509	250,000
1645	0	0.1	60,000	0	87,373	17,250	10,123	44,983,647	10,123	47,423,631	250,000
1646	0.29	0.29	0	24	87,380	0	87,380	45,071,027	87,380	47,511,011	250,000
1647	2.71	2.71	0	48	87,418	0	87,418	45,158,445	87,418	47,598,429	250,000
1648	0.03	0.03	0	4	87,431	0	87,431	45,245,876	87,431	47,685,860	250,000
1649	0.42	0.42	0	24	87,407	0	87,407	45,333,283	87,407	47,773,268	250,000
1650	0	0	0	0	87,452	17,250	70,202	45,403,485	70,202	47,843,470	250,000
1651	0	0.1	60,000	0	87,477	17,250	10,227	45,413,713	10,227	47,853,697	250,000
1652	0	0.1	60,000	0	87,500	17,250	10,250	45,423,963	10,250	47,863,947	250,000
1653	0.98	0.98	0	24	87,533	0	87,533	45,511,496	87,533	47,951,480	250,000
1654	0.14	0.14	0	4	87,531	0	87,531	45,599,027	87,531	48,039,012	250,000
1655	0.21	0.31	60,000	4	87,535	0	27,535	45,626,562	27,535	48,066,547	250,000
1656	1.54	1.54	0	48	87,528	0	87,528	45,714,091	87,528	48,154,075	250,000
1657	1.16	1.16	0	48	87,541	0	87,541	45,801,631	87,541	48,241,615	250,000
1658	0	0	0	0	87,533	17,250	70,283	45,871,914	70,283	48,311,899	250,000
1659	0	0	0	0	87,509	17,250	70,259	45,942,173	70,259	48,382,157	250,000
1660	0	0.1	60,000	0	87,552	17,250	10,302	45,952,475	10,302	48,392,459	250,000
1661	0	0.1	60,000	0	87,546	17,250	10,296	45,962,771	10,296	48,402,755	250,000
1662	0.45	0.45	0	24	87,496	0	87,496	46,050,267	87,496	48,490,251	250,000
1663	0.03	0.03	0	4	87,383	0	87,383	46,137,650	87,383	48,577,634	250,000
1664	0.01	0.11	60,000	4	87,326	0	27,326	46,164,975	27,326	48,604,960	250,000
1665	0.26	0.26	0	24	87,281	0	87,281	46,252,257	87,281	48,692,241	250,000
1666	0	0	0	0	87,250	17,250	70,000	46,322,257	70,000	48,762,241	250,000
1667	0.82	0.82	0	24	87,151	0	87,151	46,409,407	87,151	48,849,391	250,000
1668	0	0	0	0	87,070	17,250	69,820	46,479,227	69,820	48,919,212	250,000
1669	0.13	0.23	60,000	4	86,995	17,250	9,745	46,488,972	9,745	48,928,956	250,000
1670	0	0.1	60,000	0	86,946	17,250	9,696	46,498,668	9,696	48,938,652	250,000
1671	0	0.1	60,000	0	86,607	17,250	9,357	46,508,025	9,357	48,948,009	250,000
1672	0	0.1	60,000	0	86,460	17,250	9,210	46,517,235	9,210	48,957,219	250,000
1673	0	0.1	60,000	0	86,355	17,250	9,105	46,526,340	9,105	48,966,324	250,000
1674	0	0.1	60,000	0	86,341	17,250	9,091	46,535,431	9,091	48,975,415	250,000
1675	0	0.1	60,000	0	86,338	17,250	9,088	46,544,519	9,088	48,984,503	250,000
1676	0	0.1	60,000	0	86,333	17,250	9,083	46,553,603	9,083	48,993,587	250,000
1677	0	0.1	60,000	0	86,370	17,250	9,120	46,562,723	9,120	49,002,707	250,000
1678	0	0.1	60,000	0	86,470	17,250	9,220	46,571,943	9,220	49,011,927	250,000
1679	0	0.1	60,000	0	86,651	17,250	9,401	46,581,344	9,401	49,021,329	250,000
1680	0.63	0.63	0	24	86,470	0	86,470	46,667,814	86,470	49,107,798	250,000
1681	0	0	0	0	86,743	17,250	69,493	46,737,307	69,493	49,177,291	250,000
1682	0	0.1	60,000	0	86,775	17,250	9,525	46,746,832	9,525	49,186,816	250,000
1683	0	0.1	60,000	0	86,860	17,250	9,610	46,756,442	9,610	49,196,426	250,000
1684	0.87	0.87	0	24	86,882	0	86,882	46,843,324	86,882	49,283,308	250,000
1685	0	0	0	0	86,865	17,250	69,615	46,912,939	69,615	49,352,923	250,000
1686	0.27	0.27	0	24	86,847	0	86,847	46,999,786	86,847	49,439,770	250,000
1687	0.15	0.15	0	4	86,801	0	86,801	47,086,587	86,801	49,526,571	250,000
1688	0	0.1	60,000	0	86,835	17,250	9,585	47,096,172	9,585	49,536,156	250,000
1689	0	0.1	60,000	0	86,834	17,250	9,584	47,105,756	9,584	49,545,740	250,000
1690	0.96	0.96	0	24	86,850	0	86,850	47,192,605	86,850	49,632,590	250,000
1691	0	0	0	0	86,783	17,250	69,533	47,262,138	69,533	49,702,123	250,000
1692	0	0.1	60,000	0	86,634	17,250	9,384	47,271,522	9,384	49,711,506	250,000
1693	0	0.1	60,000	0	86,316	17,250	9,066	47,280,589	9,066	49,720,573	250,000
1694	0	0.1	60,000	0	86,087	17,250	8,837	47,289,425	8,837	49,729,409	250,000
1695	0.3	0.3	0	24	85,894	0	85,894	47,375,319	85,894	49,815,304	250,000
1696	0	0	0	0	85,684	17,250	68,434	47,443,753	68,434	49,883,737	250,000
1697	0	0.1	60,000	0	85,419	17,250	8,169	47,451,922	8,169	49,891,906	250,000
1698	0	0.1	60,000	0	85,200	17,250	7,950	47,459,872	7,950	49,899,856	250,000
1699	0.05	0.15	60,000	4	84,978	0	24,978	47,484,849	24,978	49,924,834	250,000
1700	1.56	1.56	0	48	84,781	0	84,781	47,569,631	84,781	50,009,615	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1701	0.67	0.67	0	24	84,594	0	84,594	47,654,224	84,594	50,094,208	250,000
1702	0.3	0.3	0	24	84,373	0	84,373	47,738,597	84,373	50,178,581	250,000
1703	0.74	0.74	0	24	84,162	0	84,162	47,822,759	84,162	50,262,743	250,000
1704	0	0	0	0	83,937	17,250	66,687	47,889,446	66,687	50,329,430	250,000
1705	0.1	0.2	60,000	4	83,766	0	23,766	47,913,211	23,766	50,353,195	250,000
1706	0.52	0.52	0	24	83,649	0	83,649	47,996,860	83,649	50,436,844	250,000
1707	0.09	0.09	0	4	83,536	0	83,536	48,080,396	83,536	50,520,381	250,000
1708	1.6	1.6	0	48	83,327	0	83,327	48,163,723	83,327	50,603,707	250,000
1709	0.45	0.45	0	24	83,145	0	83,145	48,246,868	83,145	50,686,852	250,000
1710	0	0	0	0	82,980	17,250	65,730	48,312,598	65,730	50,752,582	250,000
1711	0	0.1	60,000	0	82,877	17,250	5,627	48,318,225	5,627	50,758,209	250,000
1712	0	0.1	60,000	0	82,821	17,250	5,571	48,323,796	5,571	50,763,781	250,000
1713	0	0.1	60,000	0	82,708	17,250	5,458	48,329,254	5,458	50,769,238	250,000
1714	0	0.1	60,000	0	82,544	17,250	5,294	48,334,548	5,294	50,774,532	250,000
1715	0	0.1	60,000	0	82,310	17,250	5,060	48,339,608	5,060	50,779,592	250,000
1716	0	0.1	60,000	0	82,136	17,250	4,886	48,344,494	4,886	50,784,479	250,000
1717	0	0.1	60,000	0	82,021	17,250	4,771	48,349,266	4,771	50,789,250	250,000
1718	0	0.1	60,000	0	81,938	17,250	4,688	48,353,953	4,688	50,793,937	250,000
1719	0	0.1	60,000	0	81,841	17,250	4,591	48,358,544	4,591	50,798,528	250,000
1720	0.1	0.2	60,000	4	81,732	0	21,732	48,380,276	21,732	50,820,260	250,000
1721	0.08	0.18	60,000	4	81,587	0	21,587	48,401,863	21,587	50,841,847	250,000
1722	0.53	0.53	0	24	81,408	0	81,408	48,483,271	81,408	50,923,255	250,000
1723	0	0	0	0	81,282	17,250	64,032	48,547,303	64,032	50,987,287	250,000
1724	0.5	0.5	0	24	81,101	0	81,101	48,628,404	81,101	51,068,388	250,000
1725	0	0	0	0	80,940	17,250	63,690	48,692,094	63,690	51,132,078	250,000
1726	0	0.1	60,000	0	80,811	17,250	3,561	48,695,656	3,561	51,135,640	250,000
1727	1.26	1.26	0	48	80,660	0	80,660	48,776,315	80,660	51,216,300	250,000
1728	0	0	0	0	80,522	17,250	63,272	48,839,587	63,272	51,279,571	250,000
1729	0	0	0	0	80,371	17,250	63,121	48,902,708	63,121	51,342,692	250,000
1730	0	0.1	60,000	0	80,210	17,250	2,960	48,905,668	2,960	51,345,652	250,000
1731	0.17	0.27	60,000	4	80,066	0	20,066	48,925,734	20,066	51,365,718	250,000
1732	0.46	0.46	0	24	79,944	0	79,944	49,005,677	79,944	51,445,662	250,000
1733	0.01	0.01	0	4	79,815	0	79,815	49,085,493	79,815	51,525,477	250,000
1734	0.27	0.27	0	24	79,703	0	79,703	49,165,196	79,703	51,605,180	250,000
1735	0	0	0	0	79,680	17,250	62,430	49,227,626	62,430	51,667,610	250,000
1736	0	0.1	60,000	0	79,723	17,250	2,473	49,230,099	2,473	51,670,083	250,000
1737	0	0.1	60,000	0	79,819	17,250	2,569	49,232,668	2,569	51,672,652	250,000
1738	0	0.1	60,000	0	80,042	17,250	2,792	49,235,460	2,792	51,675,444	250,000
1739	0	0.1	60,000	0	80,251	17,250	3,001	49,238,461	3,001	51,678,445	250,000
1740	0	0.1	60,000	0	80,372	17,250	3,122	49,241,583	3,122	51,681,567	250,000
1741	0	0.1	60,000	0	80,438	17,250	3,188	49,244,771	3,188	51,684,755	250,000
1742	0	0.1	60,000	0	80,484	17,250	3,234	49,248,005	3,234	51,687,989	250,000
1743	0	0.1	60,000	0	80,472	17,250	3,222	49,251,227	3,222	51,691,211	250,000
1744	0	0.1	60,000	0	80,438	17,250	3,188	49,254,415	3,188	51,694,399	250,000
1745	0	0.1	60,000	0	80,398	17,250	3,148	49,257,563	3,148	51,697,547	250,000
1746	0	0.1	60,000	0	80,367	17,250	3,117	49,260,680	3,117	51,700,664	250,000
1747	0	0.1	60,000	0	80,332	17,250	3,082	49,263,762	3,082	51,703,746	250,000
1748	0	0.1	60,000	0	80,114	17,250	2,864	49,266,626	2,864	51,706,610	250,000
1749	0	0.1	60,000	0	80,064	17,250	2,814	49,269,440	2,814	51,709,424	250,000
1750	0	0.1	60,000	0	80,047	17,250	2,797	49,272,237	2,797	51,712,221	250,000
1751	0	0.1	60,000	0	80,017	17,250	2,767	49,275,004	2,767	51,714,988	250,000
1752	0	0.1	60,000	0	79,993	17,250	2,743	49,277,747	2,743	51,717,731	250,000
1753	0	0.1	60,000	0	79,973	17,250	2,723	49,280,470	2,723	51,720,454	250,000
1754	0.72	0.72	0	24	79,951	0	79,951	49,360,421	79,951	51,800,406	250,000
1755	0.11	0.11	0	4	79,899	0	79,899	49,440,320	79,899	51,880,304	250,000
1756	0	0.1	60,000	0	79,843	17,250	2,593	49,442,912	2,593	51,882,897	250,000
1757	0	0.1	60,000	0	79,802	17,250	2,552	49,445,465	2,552	51,885,449	250,000
1758	1.42	1.42	0	48	79,772	0	79,772	49,525,237	79,772	51,965,221	250,000
1759	0	0	0	0	79,698	17,250	62,448	49,587,685	62,448	52,027,669	250,000
1760	0.99	0.99	0	24	79,580	0	79,580	49,667,265	79,580	52,107,249	250,000
1761	0	0	0	0	79,451	17,250	62,201	49,729,466	62,201	52,169,450	250,000
1762	0	0.1	60,000	0	79,294	17,250	2,044	49,731,510	2,044	52,171,495	250,000
1763	0	0.1	60,000	0	79,110	17,250	1,860	49,733,370	1,860	52,173,354	250,000
1764	0	0.1	60,000	0	78,943	17,250	1,693	49,735,063	1,693	52,175,047	250,000
1765	0	0.1	60,000	0	78,834	17,250	1,584	49,736,647	1,584	52,176,631	250,000
1766	0	0.1	60,000	0	78,771	17,250	1,521	49,738,168	1,521	52,178,153	250,000
1767	0	0.1	60,000	0	78,749	17,250	1,499	49,739,667	1,499	52,179,651	250,000
1768	1.41	1.41	0	48	78,631	0	78,631	49,818,297	78,631	52,258,282	250,000

EXHIBIT A. (continued)

Without Irrigation		With Spray Irrigation & Recirculation									
Day	Precip. (in)	Precip. with Spray (in)	Spray (gal)	Delay (hrs)	Collected (gal)	Recirc. (gal)	Change in Storage (gal)	Accumulated Storage (gal)	Volume Trucked off-site (gal)	Accum. Trucked off-site (gal)	On-site Storage (gal)
1769	0	0	0	0	78,418	17,250	61,168	49,879,465	61,168	52,319,450	250,000
1770	0.16	0.16	0	4	78,241	0	78,241	49,957,706	78,241	52,397,690	250,000
1771	0	0.1	60,000	0	78,109	17,250	859	49,958,565	859	52,398,550	250,000
1772	0	0.1	60,000	0	77,985	17,250	735	49,959,300	735	52,399,284	250,000
1773	0	0.1	60,000	0	77,909	17,250	659	49,959,959	659	52,399,943	250,000
1774	0	0.1	60,000	0	77,834	17,250	584	49,960,542	584	52,400,527	250,000
1775	0	0.1	60,000	0	77,746	17,250	496	49,961,038	496	52,401,023	250,000
1776	0	0.1	60,000	0	77,593	17,250	343	49,961,381	343	52,401,365	250,000
1777	0	0.1	60,000	0	77,296	17,250	46	49,961,427	46	52,401,411	250,000
1778	0	0.1	60,000	0	77,040	17,250	(210)	49,961,217	0	52,401,411	249,790
1779	0	0.1	60,000	0	76,854	17,250	(396)	49,960,821	0	52,401,411	249,394
1780	0	0.1	60,000	0	76,649	17,250	(601)	49,960,220	0	52,401,411	248,793
1781	0	0.1	60,000	0	76,535	17,250	(715)	49,959,504	0	52,401,411	248,077
1782	0	0.1	60,000	0	76,451	17,250	(799)	49,958,706	0	52,401,411	247,279
1783	0	0.1	60,000	0	76,445	17,250	(805)	49,957,901	0	52,401,411	246,474
1784	0	0.1	60,000	0	76,424	17,250	(826)	49,957,075	0	52,401,411	245,648
1785	0	0.1	60,000	0	76,419	17,250	(831)	49,956,244	0	52,401,411	244,817
1786	0	0.1	60,000	0	76,368	17,250	(882)	49,955,362	0	52,401,411	243,935
1787	0	0.1	60,000	0	76,275	17,250	(975)	49,954,386	0	52,401,411	242,960
1788	0	0.1	60,000	0	76,226	17,250	(1,024)	49,953,363	0	52,401,411	241,936
1789	0	0.1	60,000	0	76,186	17,250	(1,064)	49,952,299	0	52,401,411	240,872
1790	0	0.1	60,000	0	76,188	17,250	(1,062)	49,951,237	0	52,401,411	239,810
1791	0.31	0.31	0	24	76,240	0	76,240	50,027,477	66,050	52,467,461	250,000
1792	0	0	0	0	76,324	17,250	59,074	50,086,551	59,074	52,526,535	250,000
1793	0.16	0.26	60,000	4	76,424	0	16,424	50,102,975	16,424	52,542,959	250,000
1794	0	0.1	60,000	0	76,507	17,250	(743)	50,102,232	0	52,542,959	249,257
1795	0	0.1	60,000	0	76,814	17,250	(436)	50,101,796	0	52,542,959	248,821
1796	0	0.1	60,000	0	77,584	17,250	334	50,102,129	0	52,542,959	249,155
1797	0	0.1	60,000	0	77,615	17,250	365	50,102,494	0	52,542,959	249,519
1798	0	0.1	60,000	0	77,623	17,250	373	50,102,867	0	52,542,959	249,893
1799	0.04	0.14	60,000	4	77,664	0	17,664	50,120,532	17,557	52,560,516	250,000
1800	0.05	0.15	60,000	4	77,701	0	17,701	50,138,233	17,701	52,578,217	250,000
1801	0	0.1	60,000	0	77,729	17,250	479	50,138,712	479	52,578,696	250,000
1802	0	0.1	60,000	0	77,755	17,250	505	50,139,216	505	52,579,201	250,000
1803	0	0.1	60,000	0	77,756	17,250	506	50,139,723	506	52,579,707	250,000
1804	0	0.1	60,000	0	77,765	17,250	515	50,140,237	515	52,580,222	250,000
1805	0.08	0.18	60,000	4	77,738	0	17,738	50,157,976	17,738	52,597,960	250,000
1806	0	0.1	60,000	0	77,695	17,250	445	50,158,421	445	52,598,405	250,000
1807	0.07	0.17	60,000	4	77,664	0	17,664	50,176,085	17,664	52,616,069	250,000
1808	0	0.1	60,000	0	77,605	17,250	355	50,176,439	355	52,616,424	250,000
1809	0	0.1	60,000	0	77,533	17,250	283	50,176,723	283	52,616,707	250,000
1810	0	0.1	60,000	0	77,439	17,250	189	50,176,912	189	52,616,896	250,000
1811	0	0.1	60,000	0	77,342	17,250	92	50,177,003	92	52,616,988	250,000
1812	0.08	0.18	60,000	4	77,230	0	17,230	50,194,233	17,230	52,634,217	250,000
1813	0	0.1	60,000	0	77,088	17,250	(162)	50,194,071	0	52,634,217	249,838
1814	0	0.1	60,000	0	74,867	17,250	(2,383)	50,191,688	0	52,634,217	247,455
1815	0	0.1	60,000	0	74,182	17,250	(3,068)	50,188,620	0	52,634,217	244,387
1816	0.04	0.14	60,000	4	74,154	0	14,154	50,202,775	8,542	52,642,759	250,000
1817	0	0.1	60,000	0	74,107	17,250	(3,143)	50,199,632	0	52,642,759	246,857
1818	0	0.1	60,000	0	74,057	17,250	(3,193)	50,196,439	0	52,642,759	243,664
1819	1.89	1.89	0	48	74,006	0	74,006	50,270,445	67,670	52,710,429	250,000
1820	0	0	0	0	73,903	17,250	56,653	50,327,098	56,653	52,767,083	250,000
1821	0	0	0	0	73,798	17,250	56,548	50,383,647	56,548	52,823,631	250,000
1822	0	0.1	60,000	0	73,661	17,250	(3,589)	50,380,058	0	52,823,631	246,411
1823	0	0.1	60,000	0	73,531	17,250	(3,719)	50,376,340	0	52,823,631	242,693
1824	0	0.1	60,000	0	73,396	17,250	(3,854)	50,372,486	0	52,823,631	238,839
1825	0	0.1	60,000	0	73,264	17,250	(3,986)	50,368,500	0	52,823,631	234,853
1826	0	0.1	60,000	0	73,114	17,250	(4,136)	50,364,364	0	52,823,631	230,717

- Note:
1. Data based on drainage layer = 0.005 cm/s and waste layer = 0.0001 cm/s.
 2. Maximum on-site storage = 250,000 gallons.
 3. Minimum on-site storage = 180,000 gallons.
 4. f:\project\0990018.35\spray3.wk3
 5. Calculations have been hand checked by Karl Schmit, 3/16/95.

EXHIBIT B

APRIL 28, 1994, RAINFALL DATA CORRESPONDENCE

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Frederick B. Karl



BOARD OF COUNTY COMMISSIONERS

Phyllis Busensky
Joe Chalhara
Sylvia Kinsbell
Lydia Miller
Jim Norman
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Ed Turancluk

Senior Assistant County Administrator
Patricia Beau

Assistant County Administrators
Edwin Hunsicker
Certa Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

April 28, 1994

Mr. Kim Ford
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast Landfill
Permit No. S029-158504
Quantity Report

Dear Mr. Ford:

The Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of at the Southeast County Landfill. A summary sheet for each day is provided along with the quantities of leachate that were disposed of by the County and the Contractor. The leachate was disposed of at a wastewater treatment facility.

The rainfall data that the DSW has previously submitted has been incorrectly reported. The person or persons responsible for the reading of the raingauges were incorrectly reading the gauges. The DSW is submitting the rainfall data from the Ruskin and Lakeland weather stations as being representative of the Southeast County Landfill rainfall.

The DSW has a computerized weather station at the Southeast County Facility. We are currently awaiting the purchase of a computer modem, so that the information can be downloaded into a computer program. As soon as the data is available, the DSW will provide the Department of Environmental Protection with a copy of the information.

Post Office Box 1110 • Tampa, Florida 33601

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Mr. Kim Ford
Page Two
April 28, 1994

Should you have any questions concerning this information, please contact Sarah Hill at 276-2926.

Sincerely,

Patricia V. Berry
Patricia V. Berry *by Sarah Hill*
Landfill Services Section Manager

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	DAILY AMT
R 1	13,089	30,853	43,942
MAR 2	0	30,831	30,831
MAR 3	20,355	30,889	51,244
MAR 4	13,005	30,839	43,844
MAR 5	0	30,821	30,821
MAR 6	0	0	0
MAR 7	19,630	0	19,630
MAR 8	19,496	30,791	50,287
MAR 9	19,492	24,640	44,132
MAR 10	19,405	18,515	37,920
MAR 11	20,491	24,670	45,161
MAR 12	0	24,711	24,711
MAR 13	0	0	0
MAR 14	19,938	0	19,938
MAR 15	18,772	0	18,772
MAR 16	0	24,601	24,601
MAR 17	12,863	16,901	29,764
MAR 18	19,249	30,811	50,060
MAR 19	0	30,840	30,840
MAR 20	0	0	0
MAR 21	20,260	0	20,260
MAR 22	19,182	30,980	50,162
MAR 23	0	30,819	30,819
MAR 24	20,496	30,797	51,293
MAR 25	19,166	30,815	49,981
MAR 26	0	37,015	37,015
MAR 27	0	0	0
MAR 28	12,749	0	12,749
MAR 29	0	0	0
MAR 30	0	0	0
TOTAL	307,638	541,139	848,777

HERE WAS NO RECIRCULATION OF LEACHATE DUE TO SUBTITLE D

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	DAILY AMT
FEB 1	17,694	30,771	48,465
FEB 2	20,327	30,815	51,142
FEB 3	19,507	30,777	50,284
FEB 4	19,501	30,699	50,200
FEB 5	0	30,828	30,828
FEB 6	0	0	0
FEB 7	19,941	0	19,941
FEB 8	12,783	30,765	43,548
FEB 9	0	30,771	30,771
FEB 10	12,929	30,761	43,690
FEB 11	19,809	30,794	50,603
FEB 12	0	30,861	30,861
FEB 13	0	0	0
FEB 14	20,397	0	20,397
FEB 15	19,268	30,735	50,003
FEB 16	18,893	30,843	49,736
FEB 17	19,607	30,820	50,427
FEB 18	19,161	30,829	49,990
FEB 19	0	30,760	30,760
FEB 20	0	0	0
FEB 21	19,085	30,918	50,003
FEB 22	19,306	0	19,306
FEB 23	19,554	30,750	50,304
FEB 24	19,702	30,804	50,506
FEB 25	6,662	30,785	37,447
FEB 26	0	30,814	30,814
FEB 27	19,710	30,814	50,524
FEB 28	0	0	0
TOTAL	343,836	646,714	990,550

HERE WAS NO RECIRCULATION OF LEACHATE DUE TO SUBTITLE D

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	DAILY AMT
JAN 1	0	0	0
JAN 2	0	0	0
JAN 3	0	0	0
JAN 4	0	37,112	37,112
JAN 5	0	36,957	36,957
JAN 6	19,363	37,000	56,363
JAN 7	19,010	37,995	57,005
JAN 8	0	36,946	36,946
JAN 9	0	0	0
JAN 10	6,414	0	6,414
JAN 11	0	36,904	36,904
JAN 12	0	36,923	36,923
JAN 13	0	36,920	36,920
JAN 14	0	36,888	36,888
JAN 15	0	36,879	36,879
JAN 16	0	0	0
JAN 17	0	0	0
JAN 18	0	36,961	36,961
JAN 19	0	36,909	36,909
JAN 20	12,947	36,947	49,894
JAN 21	13,515	36,920	50,435
JAN 22	0	36,974	36,974
JAN 23	0	0	0
JAN 24	19,874	0	19,874
JAN 25	19,094	36,846	55,940
JAN 26	6,426	36,949	43,375
JAN 27	19,034	36,967	56,001
JAN 28	12,678	37,074	49,752
JAN 29	0	36,875	36,875
JAN 30	0	0	0
JAN 31	0	0	0
TOTAL	148,355	739,946	888,301

HERE WAS NO RECIRCULATION OF LEACHATE DUE TO SUBTITLE D

Rainfall for period 1 March 1993 to 28 Feb 1994

	<u>RUSKIN</u>	<u>Lakeland</u>
March 93	3.13"	3.17"
Arpil 93	3.57"	3.79"
May 93	3.01"	1.65"
June 93	6.60"	4.76"
July 93	8.84"	7.29"
August 93	4.26"	5.10"
Sept. 93	5.33"	11.01"
Oct. 93	3.43"	3.12"
Nov. 93	.79"	.27"
Dec. 93	1.43"	1.38"
Jan 94	4.67"	4.26"
Feb 94	.89"	2.05"
TOTAL	45.95"	47.85"

EXHIBIT C

CURRENT CONDITIONS "HELP" GENERATION RESULTS

CLIENT Hillsborough County	PROJECT SELF	JOB NO. 0990019.35
SUBJECT HELP Model simulation of spray Irrigation	BY Beres P.	DATE 3-14-95
	CHECKED Kms.	DATE 5-17-95

Assumptions:

- 1) Use the same soil & design input parameters from the "calibrated" (50,080 gpd, Drainage layer = 0.005 cfs & Waste = 0.000 cfs).
 - 2) Use synthetic temperature & radiation data.
 - 3) Use 50 gallons/day/Ac subsurface inflow from confined clays (CH₂M Hill Hydrogeological/geotechnical Report).
 - 4) Use the synthetic rainfall data as before (from the "calibrated" model) but include 60,000 gpd of effluent as additional precipitation (0.10"/day) to simulate the spray irrigation, as per specific condition #10.
 - 5) Avg. wind speed approximated at 7.5 MPH (CH₂M Hill Report).
 - 6) HELP model runs are based on 1 AC areas.
 - 7) The landfill will be comprised of 4 parts:
 - 1) Intermediate cap without spray irrigation (69.2 AC)
 - 2) Intermediate cap with spray irrigation (23 AC)
 - 3) Daily Cover Area (5 AC)
 - 4) Side slopes (23.2 AC)
- Total Area = 120.4 AC
- 8) Assumes 12,200 gpd of leachate recirculation as 0.126" of additional rainfall on 5 acres of daily cover on the 1,309 days in which it did not rain.

CLIENT H.C.	PROJECT SELF	JOB NO. 2990018.35
SUBJECT HELP model simulation of spray Irrigation	BY Jared P.	DATE 5-14-95
	CHECKED Kms	DATE 3-16-95

Assumptions: (cont)

- 8) Five year simulations were chosen because that is the length of the permit. The average annual results were used over the five year period when steady state conditions had been approximated (ASSO).
- 9) The leachate generation rate is represented by the avg. annual drainage collected & the percolation through the soil barrier liner as shown on the annual summary section of the HELP model output.

I. Intermediate cap without spray irrigation
(69.2 AC)

See HELP Model Program Initialization Data Sheet for input parameters (attached)

$$\begin{aligned}
 \text{Leachate Generated} &= \text{Lateral Drainage} + \text{Leakage (liner)} \\
 &= 20,128 \text{ cf/yr./AC} + 590 \text{ cf/yr./AC} \\
 &= 20,718 \text{ cf/yr./AC} \checkmark
 \end{aligned}$$

20,718 cf/yr./AC	1 year	7,481 gallons
year · AC	365 days	1 cf

$$= \boxed{29,380 \text{ gpd}} \checkmark$$

CLIENT <u>H.C.</u>	PROJECT <u>SELF</u>	JOB NO. <u>0990019.35</u>
SUBJECT <u>HELP Model simulation of spray Irrigation.</u>	BY <u>Leres P.</u>	DATE <u>3-14-95</u>
	CHECKED <u>WJ</u>	DATE <u>3-16-95</u>

II. Intermediate Cap with spray Irrigation (23 AC)

See HELP Model Program Initialization Data Sheet for input/output parameters (attached).

Leachate Generated = lateral Drainage + Percolation

$$= 74,706 \text{ cf/yr/AC} + 778 \text{ cf/yr/AC}$$

$$= 75,484 \text{ cf/AC/yr} \checkmark$$

75,484 cf	23 AC	1 year	7,481 gallons
year · AC		365 days	1 cf

$$= \boxed{35,580 \text{ gpd}} \checkmark$$

III. Daily Cover (5 AC) - Includes 12,200 gpd recirculation.

See HELP Model Program Initialization Data Sheet for input/output parameters (attached).

$$\text{Leachate Generated} = 90,831 \text{ cf/yr} + 856 \text{ cf/AC/yr}$$

$$= 91,687 \text{ cf/AC/yr} \checkmark$$

CLIENT H.C.	PROJECT SELF	JOB NO. 0990012.35
SUBJECT HELP Model spray Irrigation Simulation	BY Bates P. CHECKED ms	DATE 3-14-95 DATE 3-16-95

III. Daily Cover (cont.)

91,687 cf	5 AC	1 year	7.481 gallons
year · AC		365 days	1 cf

$$= 9,396 \text{ gpd} \checkmark$$

IV. Side Slopes (23.2 AC)

See HELP Model Program Initialization Data Sheet for input/output parameters.

$$\text{Leachate Generated} = 16,071 \text{ cf/yr/AC} + 56.8 \text{ cf/yr/AC}$$

$$= 16,639 \text{ cf/AC/yr} \checkmark$$

16,639 cf	23.2 AC	1 year	7.481 gallons
year · AC		365 days	1 cf

$$= 7,912 \text{ gpd} \checkmark$$

CLIENT <u>H.C.</u>	PROJECT <u>SELF</u>	JOB NO. <u>0990018.55</u>
SUBJECT <u>HELP Model simulation of spray Irrigation</u>	BY <u>Roscos P.</u> CHECKED <u>KAS</u>	DATE <u>3-3-95</u> DATE <u>3-16-95</u>

What is the new estimated Avg. annual leachate generation rate?

Int. cap without spray = 29,380 gpd
Int. cap with spray = 35,580 gpd
Daily Cover = 9,396 gpd
Side Slope = 7,912 gpd

Est. Avg. Annual leachate gen. = 82,300 gpd ✓

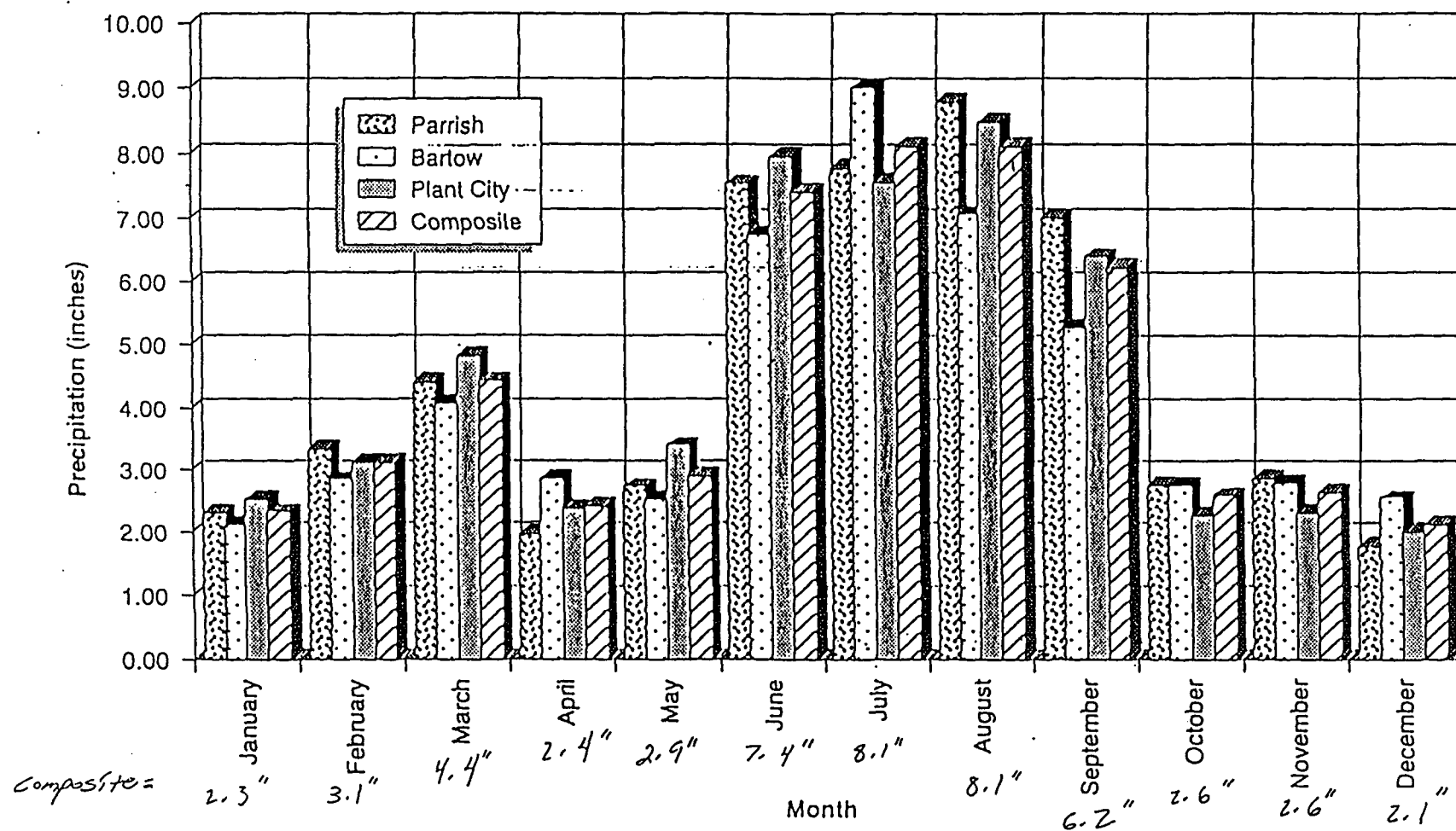


FIGURE 4-4
Precipitation Comparison by Location (1983 - 1992)

The resultant wind direction in the Tampa area is from the north/northeast at an average wind speed of 7.5 miles per hour (mph). The speed and direction, however, can vary significantly throughout the year. During 1992, the maximum observed wind speed (observed for 1 minute or greater) varied from a low of 18 mph during the months of July and October, to a maximum of 29 mph during the months of February and June. The lowest average wind speed occurs during the month of July (5.8 mph), and the highest average wind speed occurs during the month of November (9.1 mph). The highest peak gust measured in 1992 (February) was 45 mph.

Monthly precipitation data collected at the three monitoring stations surrounding the site during the 10-year period from 1983 to 1992 are presented in Figure 4-4 along with a "composite" of the data, which represents the average precipitation at the three stations. This composite should provide a representative value of the monthly precipitation expected at the new Class I landfill site. The average monthly precipitation varies from a low of 2.10 inches during December to a high of 8.12 inches during July. Figure 4-5 shows a comparison of the precipitation data collected at the existing Hillsborough County Southeast Landfill to the composite data. The monthly rainfall collected at the existing facility, which is adjacent to the proposed new Class I landfill site, during the 7-month period reported was abnormally high in comparison to the expected monthly rainfall. Rainfall at the facility was more than double the expected value during the month of August, 1993, and total precipitation measured during the 7-month period was more than 30 percent higher than the total expected rainfall for an entire year.

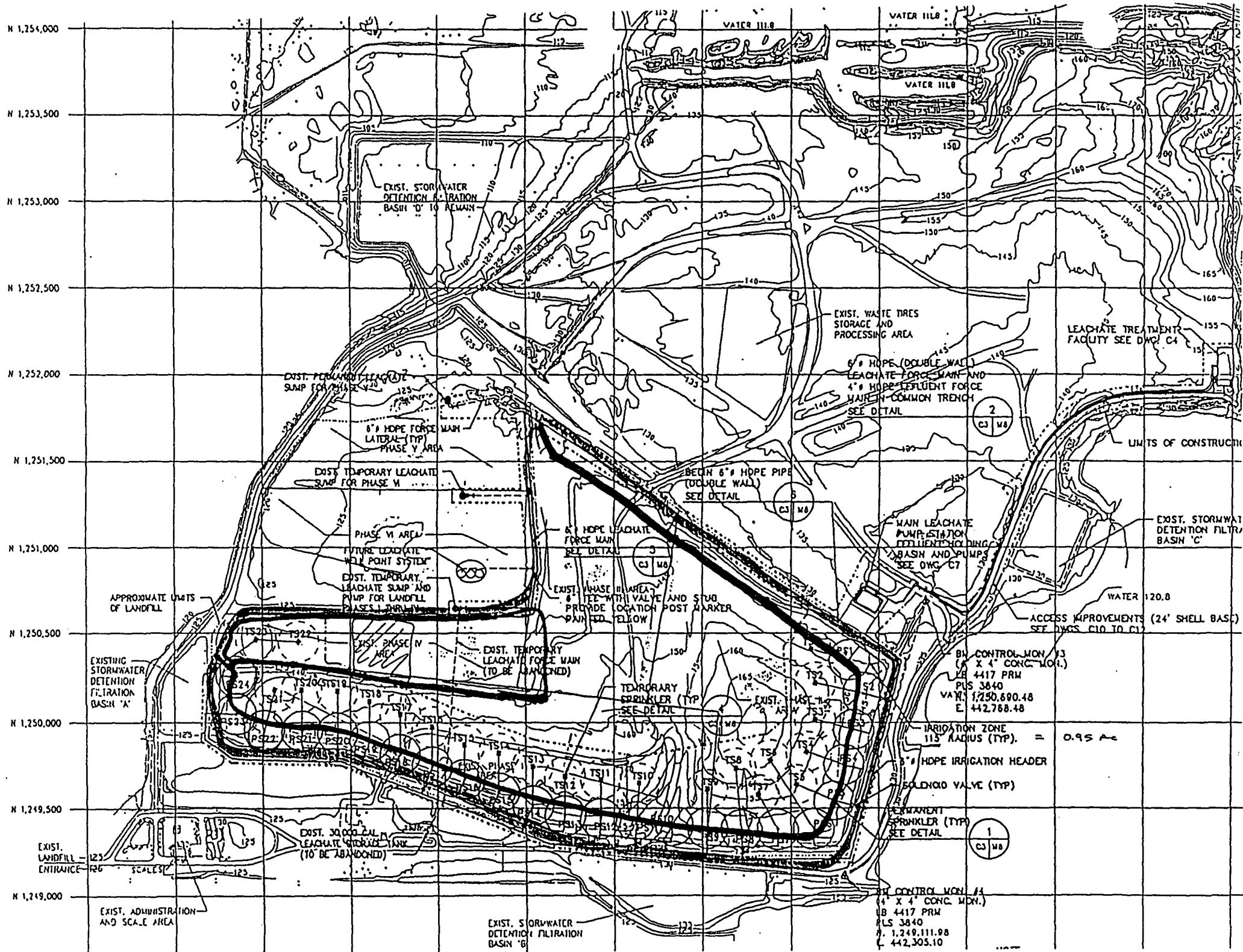
Monthly average pan evaporation data collected from the Lake Alfred Experimental Station is provided in Figure 4-6. Evaporation for the period from 1983 through 1992 varied from an average low of 3.60 inches during December to an average high of 9.36 inches during May.

Soils Series

A review of the published soil data prepared by the United States Soil Conservation Service (SCS) was conducted for the immediate vicinity of the site (Doolittle, et al., 1989). Within the footprint of the proposed municipal solid waste disposal area, only two major soil groups were identified by the SCS. These consist of the Arents soil series and the Haplaquents soil series (Figure 4-7).

The Haplaquents (No. 51), clayey soil series consist of nearly level and very poorly drained, fine textured materials deposited as a result of phosphate mining activities (clay settling ponds). This is the predominant soil series within the proposed municipal solid waste disposal area, and is the result of past phosphate mining activities. Typically, the depth of this soil group can range from about 3 feet to more than 30 feet. These soils contain approximately 88 percent clay, 8 percent silt, and 4 percent sand. The clay is primarily montmorillinite, but also contains kaolinite and illite.

The Arents soil series (No. 4), consists of nearly level heterogeneous materials that have been excavated, reworked and reshaped by earth moving equipment. Arents are near urban centers,



HELP MODEL PROGRAM INITIALIZATION DATA

PROJECT NAME: Southeast Landfill
 LOCATION: Hillsborough County, FL
 ANALYSIS DESCRIPTION: Intermediate cap "calibration"
Before spray irrig.

PROJECT NO.: 0990018.35
 DATE: 3-7-95
 ENGINEER: Beres Powell
 FILENAME: Int.out

SOIL LAYER NUMBER	SOIL DESCRIPTION	LAYER THICKNESS (INCHES)	LAYER TYPE 1=VERTICAL 2=LATERAL 3=SOIL LINER 4=SOIL/GEOM.	SOIL TEXTURE (DEFAULT VALUES FROM MODEL)	WILTING POINT (VOL/VOL)	FIELD CAPACITY (VOL/VOL)	POROSITY (VOL VOIDS/VOL TOTAL)	HYDRAULIC CONDUCTIVITY (CM/SEC)	INITIAL WATER CONTENT (VOL/VOL)
1	Soil	18	1		.1361 (these values were generated by the computer)	.2413	.3980	6×10^{-4}	.1986
2	Waste	456	1		.1400	.2942	.5200	1×10^{-4}	.3142
3	Waste	12	1		"	"	"	"	.3386
4	Waste	12	1		"	"	"	"	.3390
5	Sand	36	2		.0580	.1309	.4570	5×10^{-3}	.3075
6	Clay	48	3		.2899	.3560	.4000	1×10^{-8}	.4000
7									
8									
9									

Additional Computational Information

Rainfall Generation: (Default ☒ Synthetic ☐ Years 5
 Maximum Leaf Index: 2.5
 Evaporative Zone Depth = 48 in
 Growing Season: Start: 0 End: 367
 Soil Water Content (If not initialized by Computer):
 Vegetative Cover: Bare/Poor/Fair/Good/Excellent
 SCS Curve Number = 83.90
 Liner Leakage Fraction =
 Potential Runoff Fraction = 100%
 Landfill Area = 43,560 sf.
 Cap Slope = 5 %
 Cap Drainage Length = 200 ft
 Bottom Liner Slope = 1 %
 Bottom Liner Drainage Length = 200 ft

HELP Analysis Results

Precipitation: Peak Daily = 4.35 in ; Average Annual = 51 in
 Average Annual Percolation = 590 cf/year
 Peak Daily Lateral Drainage = 83 cf/day
 Average Annual Lateral Drainage = 20,128 cf/year
 Peak Daily Runoff = 5,298 cf/day
 Average Annual Runoff = 11,300 cf/year
 Peak Daily Percolation from Bottom Liner = 1.74 cf/day

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	456.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3142	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3386	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3390	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 5

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	36.00	INCHES
POROSITY	=	0.4570	VOL/VOL
FIELD CAPACITY	=	0.1309	VOL/VOL
WILTING POINT	=	0.0580	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3075	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.499999989000E-02	CM/SEC
SLOPE	=	1.00	PERCENT
DRAINAGE LENGTH	=	200.0	FEET
SUBSURFACE INFLOW	=	0.67	INCHES/YR

LAYER 6

TYPE 3 - BARRIER SOIL LINER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	48.00	INCHES
POROSITY	=	0.4000	VOL/VOL
FIELD CAPACITY	=	0.3560	VOL/VOL
WILTING POINT	=	0.2899	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999994000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM A USER-SPECIFIED CURVE NUMBER OF 83.0, A SURFACE SLOPE OF 5.% AND A SLOPE LENGTH OF 200. FEET.

SCS RUNOFF CURVE NUMBER	=	83.90	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	48.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	13.001	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	22.764	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	6.650	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	185.251	INCHES
TOTAL INITIAL WATER	=	185.251	INCHES
TOTAL SUBSURFACE INFLOW	=	0.67	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM TAMPA FLORIDA

MAXIMUM LEAF AREA INDEX	=	2.50
START OF GROWING SEASON (JULIAN DATE)	=	0
END OF GROWING SEASON (JULIAN DATE)	=	367
AVERAGE ANNUAL WIND SPEED	=	7.50 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	74.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	72.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	78.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	76.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR TAMPA FLORIDA

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
2.30	3.10	4.40	2.40	2.90	7.40
8.10	8.10	6.20	2.60	2.60	2.10

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR TAMPA FLORIDA

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
59.80	60.80	66.20	71.60	77.10	80.90
82.20	82.20	80.90	74.50	66.70	61.30

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR TAMPA FLORIDA

STATION LATITUDE = 27.58 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6

DAILY OUTPUT FOR YEAR 1

DAY	A	S O I R	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.
1			0.00	0.000	0.101	0.2690	15.2695	.1576E-01	.4484E-03
2			0.00	0.000	0.097	0.2669	16.5160	.1770E-01	.4572E-03
3			0.00	0.000	0.104	0.2646	16.8037	.1817E-01	.4592E-03
4			0.00	0.000	0.072	0.2628	16.9796	.1847E-01	.4605E-03
5			0.00	0.000	0.090	0.2607	17.0935	.1866E-01	.4613E-03
6			0.00	0.000	0.104	0.2583	17.1714	.1879E-01	.4618E-03
7			0.00	0.000	0.095	0.2560	17.2219	.1887E-01	.4622E-03
8			0.00	0.000	0.099	0.2536	17.2558	.1893E-01	.4624E-03
9			0.00	0.000	0.109	0.2514	17.2740	.1896E-01	.4626E-03
10			0.00	0.000	0.084	0.2495	17.2919	.1899E-01	.4627E-03
11			0.00	0.000	0.086	0.2477	17.3284	.1906E-01	.4630E-03
12			0.00	0.000	0.079	0.2460	17.3760	.1914E-01	.4633E-03
13			0.00	0.000	0.068	0.2443	17.4307	.1923E-01	.4637E-03
14			0.15	0.000	0.073	0.2452	17.4840	.1932E-01	.4641E-03

	1.027	0.586	0.487	0.063	0.014	0.032
STD. DEVIATIONS	0.043	0.046	0.143	0.080	0.300	1.166
	0.481	0.509	0.922	0.052	0.031	0.066
EVAPOTRANSPIRATION						

TOTALS	2.333	2.582	3.211	3.157	2.188	4.648
	6.901	6.170	4.710	3.098	1.695	2.125
STD. DEVIATIONS	0.762	0.729	1.411	2.119	1.560	1.984
	0.413	0.410	0.285	0.585	0.628	0.461
SUBSURFACE INFLOW INTO LAYER 5						

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5						

TOTALS	0.4879	0.4172	0.4357	0.4052	0.4296	0.4339
	0.4653	0.4772	0.4702	0.5110	0.5019	0.5096
STD. DEVIATIONS	0.1401	0.1211	0.1186	0.1058	0.1071	0.1053
	0.1211	0.1329	0.1389	0.1517	0.1443	0.1448
PERCOLATION/LEAKAGE THROUGH LAYER 6						

TOTALS	0.0139	0.0124	0.0136	0.0131	0.0136	0.0133
	0.0138	0.0138	0.0134	0.0140	0.0136	0.0140
STD. DEVIATIONS	0.0007	0.0006	0.0006	0.0005	0.0005	0.0005
	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ACROSS LAYER 6

AVERAGES	15.0644	14.6021	14.0658	13.7067	13.9524	14.3564
	14.7007	14.9291	15.0906	15.5988	15.7594	15.5797
STD. DEVIATIONS	2.9613	2.9067	2.6140	2.4483	2.3830	2.3942
	2.5882	2.8175	3.0087	3.1195	3.0726	3.0336

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	INCHES		CU. FEET	PERCENT
	-----		-----	-----
PRECIPITATION	51.00	(8.833)	185115.5	100.00

RUNOFF	3.113	(1.6178)	11299.51	6.104
EVAPOTRANSPIRATION	42.819	(4.9264)	155432.12	83.965
SUBSURFACE INFLOW INTO LAYER 5	0.67200		2439.360	1.31775
LATERAL DRAINAGE COLLECTED FROM LAYER 5	5.54483	(1.23655)	20127.748	10.87308
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.16249	(0.00592)	589.845	0.31864
AVERAGE HEAD ACROSS TOP OF LAYER 6	14.784	(2.244)		
CHANGE IN WATER STORAGE	0.029	(3.8031)	106.97	0.058

PEAK DAILY VALUES FOR YEARS	1 THROUGH	5
	(INCHES)	(CU. FT.)
PRECIPITATION	4.35	15790.500
RUNOFF	1.459	5297.5000
DRAINAGE COLLECTED FROM LAYER 5	0.02283	82.86140
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000478	1.73507
AVERAGE HEAD ACROSS LAYER 6	19.450	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.3502
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.1349

FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	3.5707	0.1984
2	143.3563	0.3144
3	4.0609	0.3384
4	4.0700	0.3392
5	11.1406	0.3095
6	19.2000	0.4000
SNOW WATER	0.000	

HELP MODEL PROGRAM INITIALIZATION DATA

PROJECT NAME: Southeast Landfill

PROJECT NO.: 0290018.35

LOCATION: Hillsborough County, FL

DATE: 3-10-95

ANALYSIS DESCRIPTION: Intermediate cover with spray irrigation

ENGINEER: Beres Purrell

FILENAME: INT3.out

SOIL LAYER NUMBER	SOIL DESCRIPTION	LAYER THICKNESS (INCHES)	LAYER TYPE 1=VERTICAL 2=LATERAL 3=SOIL LINER 4=SOIL/GEOM.	SOIL TEXTURE (DEFAULT VALUES FROM MODEL)	WILTING POINT (VOL/VOL)	FIELD CAPACITY (VOL/VOL)	POROSITY (VOL VOIDS/VOL TOTAL)	HYDRAULIC CONDUCTIVITY (CH/SEC)	INITIAL WATER CONTENT (VOL/VOL)
1	Sand	18	1		.1361 (these values were generated by the computer)	.2943	.3980	6×10^{-4}	.2515
2	Waste	456	1		.1400	.2942	.5200	1×10^{-4}	.3624
3	Waste	12	1		"	"	"	"	.3676
4	Waste	12	1		"	"	"	"	.3701
5	Sand	36	2		.0580	.1309	.4570	5×10^{-3}	.3622
6	Clay	48	3		.2899	.3560	.4000	1×10^{-8}	.4000
7									
8									
9									

Additional Computational Information

Rainfall Generation: (Default - Synthetic X) Years 5

Maximum Leaf Index: 2.5

Evaporative Zone Depth = 48 in

Growing Season: Start: 0 End: 367

Soil Water Content (If not initialized by Computer):

Vegetative Cover: Bare/Poor (Fair) Good/Excellent

SCS Curve Number = 83.90

Liner Leakage Fraction =

Potential Runoff Fraction = 100%

Landfill Area = 43,560 sq. ft.

Cap Slope = 5 %

Cap Drainage Length = 200 ft

Bottom Liner Slope = 1 %

Bottom Liner Drainage Length = 200 ft

HELP Analysis Results

Precipitation: Peak Daily = 4.35 in ; Average Annual = 76.63 in

Average Annual Percolation = 778 cf/year

Peak Daily Lateral Drainage = 316 cf/day

Average Annual Lateral Drainage = 74,706 cf/year

Peak Daily Runoff = 6,407 cf/day

Average Annual Runoff = 15,040 cf/year

Peak Daily Percolation from Bottom Liner = 2.61 cf/day

HELP

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*
HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 3.03 (31 DECEMBER 1994)
DEVELOPED BY ENVIRONMENTAL LABORATORY
USAE WATERWAYS EXPERIMENT STATION
FOR USEPA RISK REDUCTION ENGINEERING LABORATORY
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PRECIPITATION DATA FILE: P:\HELP3\INT3.D4
TEMPERATURE DATA FILE: P:\HELP3\INT.D7
SOLAR RADIATION DATA FILE: P:\HELP3\INT.D13
EVAPOTRANSPIRATION DATA: P:\HELP3\INT.D11
SOIL AND DESIGN DATA FILE: P:\HELP3\INT3.D10
OUTPUT DATA FILE: P:\HELP3\INT3.OUT

```

TIME: 12:10 DATE: 3/10/1995

```

*****
TITLE: SOUTHEAST LANDFILL - Intermediate Cap (After irrigation)
*****

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NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
WERE SPECIFIED BY THE USER.

LAYER 1 -----

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TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0
THICKNESS = 18.00 INCHES
POROSITY = 0.3980 VOL/VOL
FIELD CAPACITY = 0.2443 VOL/VOL
WILTING POINT = 0.1361 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2515 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.600000028000E-03 CM/SEC

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LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	456.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3624	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3676	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3701	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 5

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	36.00	INCHES
POROSITY	=	0.4570	VOL/VOL
FIELD CAPACITY	=	0.1309	VOL/VOL
WILTING POINT	=	0.0580	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3622	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.499999989000E-02	CM/SEC
SLOPE	=	1.00	PERCENT
DRAINAGE LENGTH	=	200.0	FEET
SUBSURFACE INFLOW	=	0.67	INCHES/YR

LAYER 6

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	48.00	INCHES
POROSITY	=	0.4000	VOL/VOL
FIELD CAPACITY	=	0.3560	VOL/VOL
WILTING POINT	=	0.2899	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999994000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM A USER-SPECIFIED CURVE NUMBER OF 83.0, A SURFACE SLOPE OF 5.% AND A SLOPE LENGTH OF 200. FEET.

SCS RUNOFF CURVE NUMBER	=	83.90	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	48.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	15.399	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	22.764	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	6.650	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	210.873	INCHES
TOTAL INITIAL WATER	=	210.873	INCHES
TOTAL SUBSURFACE INFLOW	=	0.67	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
TAMPA FLORIDA

MAXIMUM LEAF AREA INDEX	=	2.50
START OF GROWING SEASON (JULIAN DATE)	=	0
END OF GROWING SEASON (JULIAN DATE)	=	367
AVERAGE ANNUAL WIND SPEED	=	7.50 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	74.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	72.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	78.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	76.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
2.30	3.10	4.40	2.40	2.90	7.40
8.10	8.10	6.20	2.60	2.60	2.10

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR TAMPA FLORIDA

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
59.80	60.80	66.20	71.60	77.10	80.90
82.20	82.20	80.90	74.50	66.70	61.30

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR TAMPA FLORIDA

STATION LATITUDE = 27.58 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6

DAILY OUTPUT FOR YEAR 1

DAY	A	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.
1			0.10	0.000	0.081	0.3204	20.7225	.2550E-01	.4870E-03
2			0.10	0.000	0.079	0.3198	22.4639	.2885E-01	.4993E-03
3			0.10	0.000	0.095	0.3188	22.7516	.2944E-01	.5014E-03
4			0.10	0.000	0.059	0.3186	22.9379	.2983E-01	.5027E-03
5			0.10	0.000	0.071	0.3186	23.0905	.3015E-01	.5038E-03
6			0.10	0.000	0.080	0.3184	23.2542	.3049E-01	.5049E-03
7			0.10	0.000	0.082	0.3180	23.3732	.3074E-01	.5058E-03
8			0.10	0.000	0.078	0.3176	23.4574	.3092E-01	.5064E-03
9			0.10	0.000	0.090	0.3168	23.5321	.3107E-01	.5069E-03
10			0.10	0.000	0.065	0.3162	23.6044	.3123E-01	.5074E-03
11			0.10	0.000	0.071	0.3155	23.6693	.3137E-01	.5079E-03
12			0.10	0.000	0.066	0.3148	23.7599	.3156E-01	.5085E-03
13			0.10	0.000	0.062	0.3142	23.8487	.3175E-01	.5092E-03
14			0.25	0.000	0.073	0.3163	23.9456	.3196E-01	.5098E-03

	1.214	0.752	0.617	0.137	0.029	0.088
STD. DEVIATIONS	0.145	0.120	0.250	0.140	0.354	1.297
	0.528	0.623	1.113	0.108	0.065	0.152
EVAPOTRANSPIRATION						

TOTALS	2.738	2.922	3.823	5.024	5.051	6.036
	6.941	6.028	4.902	3.698	2.970	2.430
STD. DEVIATIONS	0.125	0.110	0.062	0.265	0.664	0.752
	0.212	0.250	0.275	0.238	0.115	0.211
SUBSURFACE INFLOW INTO LAYER 5						

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5						

TOTALS	1.8034	1.5834	1.6358	1.5615	1.6784	1.7667
	1.9012	1.8800	1.7577	1.7338	1.6066	1.6718
STD. DEVIATIONS	0.6245	0.4705	0.4360	0.3600	0.4180	0.4316
	0.4552	0.4170	0.3881	0.4344	0.4416	0.6014
PERCOLATION/LEAKAGE THROUGH LAYER 6						

TOTALS	0.0186	0.0165	0.0177	0.0171	0.0180	0.0179
	0.0187	0.0187	0.0178	0.0181	0.0173	0.0180
STD. DEVIATIONS	0.0023	0.0016	0.0013	0.0011	0.0015	0.0018
	0.0020	0.0016	0.0015	0.0014	0.0015	0.0021

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)						

DAILY AVERAGE HEAD ACROSS LAYER 6						

AVERAGES	35.9765	35.0974	32.7368	32.4872	33.7719	36.1129
	37.1917	36.9677	35.6859	34.6082	33.3525	33.7566
STD. DEVIATIONS	10.1259	8.1233	6.0110	5.2181	6.7446	8.4325
	8.9894	7.4153	6.8212	6.5829	6.8930	9.5284

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5						

	INCHES		CU. FEET		PERCENT	
	-----		-----		-----	
PRECIPITATION	76.83	(7.789)	278892.5		100.00	

RUNOFF	4.143	(1.9759)	15040.18	5.393
EVAPOTRANSPIRATION	52.562	(1.3404)	190801.80	68.414
SUBSURFACE INFLOW INTO LAYER 5	0.67200		2439.360	0.87466
LATERAL DRAINAGE COLLECTED FROM LAYER 5	20.58023	(4.33907)	74706.227	26.78675
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.21433	(0.01544)	778.024	0.27897
AVERAGE HEAD ACROSS TOP OF LAYER 6	34.812	(5.960)		
CHANGE IN WATER STORAGE	0.002	(5.2624)	7.33	0.003

PEAK DAILY VALUES FOR YEARS	1 THROUGH	5
	(INCHES)	(CU. FT.)
PRECIPITATION	4.35	15790.500
RUNOFF	1.765	6406.8247
DRAINAGE COLLECTED FROM LAYER 5	0.08709	316.15021
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000720	2.61331
AVERAGE HEAD ACROSS LAYER 6	53.590	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL_ WATER (VOL/VOL)		0.3839
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.1866

FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	4.5266	0.2515
2	165.2646	0.3624
3	4.4113	0.3676
4	4.4408	0.3701
5	13.0398	0.3622
6	19.2000	0.4000

SNOW WATER 0.000

CLIENT H.C.	PROJECT Southeast Landfill	JOB NO. 0990018.35
SUBJECT Day cover Recirculation	BY Leres P.	DATE 5-2-95
	CHECKED	DATE

Daily Cover Area = 5 AC

Average Recirculation Rate = 12,200 gpd

There are 1,309 days with no rain.

There are a total of 1,850 days being simulated.

How many inches of rain need to fall on 1,309 days to equal 12,200 gpd?

Total Volume:

$$\frac{12,200 \text{ gallons}}{\text{day}} \times 1,850 \text{ days} = 22,570,000 \text{ gallons}$$

$$7.481 \text{ gallons/cf}$$

Flow rate over 1,309 days

$$\frac{22,570,000 \text{ gallons}}{1,309 \text{ days}} = 17,242 \text{ gpd}$$

17,242 gallons
day

5 AC

43,560 sf

1 AC

1 CF

7.481 gallons

12 in

1 ft

$$= 0.126''$$

show 0.126" of rainfall on the 1,309 days in which it does not naturally rain.

HELP MODEL PROGRAM INITIALIZATION DATA

PROJECT NAME: Southeast Landfill

PROJECT NO.: 0990018.35

LOCATION: Hillsborough County FL

DATE: 5-3-95

ANALYSIS DESCRIPTION: Daily Cover
Includes Recirculation
current conditions

ENGINEER: Rene Powell

FILENAME: Day2.out

SOIL LAYER NUMBER	SOIL DESCRIPTION	LAYER THICKNESS (INCHES)	LAYER TYPE 1=VERTICAL 2=LATERAL 3=SOIL LINER 4=SOIL/GEOM.	SOIL TEXTURE (DEFAULT VALUES FROM MODEL)	WILTING POINT (VOL/VOL)	FIELD CAPACITY (VOL/VOL)	POROSITY (VOL VOIDS/VOL TOTAL)	HYDRAULIC CONDUCTIVITY (CM/SEC)	INITIAL WATER CONTENT (VOL/VOL)
1	Soil	6		1	.1361 (these values were generated by the computer)	.2945	.3800	1×10^{-3}	.1520
2	Waste	60		1	.1400	.2942	.5200	1×10^{-4}	.3124
3	Waste	12		1	"	"	"	"	.3357
4	Waste	12		1	"	"	"	"	.3343
5	Waste	12		1	"	"	"	"	.3457
6	Waste	12		1	"	"	"	"	.3559
7	Waste	12		1	"	"	"	"	.3576
8	Sand	36		2	.0580	.1309	.4570	5×10^{-3}	.3520
9	clay	48		3	.2899	.3560	.4000	1×10^{-8}	.4000

Additional Computational Information

Rainfall Generation: (Default ☐ Synthetic ☒) Years 5

Maximum Leaf Index: 0

Evaporative Zone Depth = 48 in

Growing Season: Start: 0 End: 367

Soil Water Content (If not initialized by Computer):

Vegetative Cover: Good/Poor/Fair/Good/Excellent

SCS Curve Number =

Liner Leakage Fraction =

Potential Runoff Fraction = .07

Landfill Area = 43,560 sq. ft.

Cap Slope = 5 %

Cap Drainage Length = 200 ft

Bottom Liner Slope = 1 %

Bottom Liner Drainage Length = 200 ft

HELP Analysis Results

Precipitation: Peak Daily = 4.35 in ; Average Annual = 83.38 in

Average Annual Percolation = 856 cf/year

Peak Daily Lateral Drainage = 512 cf/day

Average Annual Lateral Drainage = 90,831 cf/year

Peak Daily Runoff = 0 cf/day

Average Annual Runoff = 0 cf/year

Peak Daily Percolation from Bottom Liner = 3.59 cf/day

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*
HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 3.03 (31 DECEMBER 1994)
DEVELOPED BY ENVIRONMENTAL LABORATORY
USAE WATERWAYS EXPERIMENT STATION
FOR USEPA RISK REDUCTION ENGINEERING LABORATORY
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PRECIPITATION DATA FILE: P:\HELP3\DAY2.D4
TEMPERATURE DATA FILE: P:\HELP3\DAY.D7
SOLAR RADIATION DATA FILE: P:\HELP3\DAY.D13
EVAPOTRANSPIRATION DATA: P:\HELP3\DAY.D11
SOIL AND DESIGN DATA FILE: P:\HELP3\DAY.D10
OUTPUT DATA FILE: P:\HELP3\DAY2.OUT

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TIME: 8:20 DATE: 5/ 3/1995

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*****
TITLE: SOUTHEAST LANDFILL - Daily cover (Includes Recirculation)
*****

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NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
WERE SPECIFIED BY THE USER.

LAYER 1 -----

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	6.00	INCHES
POROSITY	=	0.3800	VOL/VOL
FIELD CAPACITY	=	0.2443	VOL/VOL
WILTING POINT	=	0.1361	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1520	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000005000E-02	CM/SEC

LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	60.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3124	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3357	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3343	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3457	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 6

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3559	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 7

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3576	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 8

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	36.00	INCHES
POROSITY	=	0.4570	VOL/VOL
FIELD CAPACITY	=	0.1309	VOL/VOL
WILTING POINT	=	0.0580	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3520	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.499999989000E-02	CM/SEC
SLOPE	=	1.00	PERCENT
DRAINAGE LENGTH	=	200.0	FEET
SUBSURFACE INFLOW	=	0.67	INCHES/YR

LAYER 9

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	48.00	INCHES
POROSITY	=	0.4000	VOL/VOL
FIELD CAPACITY	=	0.3560	VOL/VOL
WILTING POINT	=	0.2899	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999994000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	80.00	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	48.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	14.033	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	24.120	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	6.697	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	72.278	INCHES
TOTAL INITIAL WATER	=	72.278	INCHES
TOTAL SUBSURFACE INFLOW	=	0.67	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
TAMPA FLORIDA

MAXIMUM LEAF AREA INDEX	=	0.00
START OF GROWING SEASON (JULIAN DATE)	=	0
END OF GROWING SEASON (JULIAN DATE)	=	367
AVERAGE ANNUAL WIND SPEED	=	7.50 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	74.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	72.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	78.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	76.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR TAMPA FLORIDA

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
2.30	3.10	4.40	2.40	2.90	7.40
8.10	8.10	6.20	2.60	2.60	2.10

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR TAMPA FLORIDA

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
59.80	60.80	66.20	71.60	77.10	80.90

82.20

82.20

80.90

74.50

66.70

61.30

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR TAMPA FLORIDA

STATION LATITUDE = 27.58 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 9
DRAIN #1: LATERAL DRAINAGE FROM LAYER 8 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 9

DAILY OUTPUT FOR YEAR 1

DAY	A	S O I R	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.
1			0.13	0.000	0.101	0.2928	19.6562	.2338E-01	.4794E-03
2			0.13	0.000	0.097	0.2932	21.3307	.2658E-01	.4913E-03
3			0.13	0.000	0.103	0.2934	21.6336	.2718E-01	.4935E-03
4			0.13	0.000	0.072	0.2942	21.8231	.2756E-01	.4948E-03
5			0.13	0.000	0.090	0.2948	21.9444	.2780E-01	.4957E-03
6			0.13	0.000	0.104	0.2951	22.0211	.2795E-01	.4962E-03
7			0.13	0.000	0.102	0.2955	22.0735	.2806E-01	.4966E-03
8			0.13	0.000	0.098	0.2961	22.1169	.2815E-01	.4969E-03
9			0.13	0.000	0.110	0.2964	22.1555	.2823E-01	.4972E-03
10			0.13	0.000	0.084	0.2972	22.1994	.2831E-01	.4975E-03
11			0.13	0.000	0.093	0.2979	22.2494	.2842E-01	.4978E-03
12			0.13	0.000	0.085	0.2987	22.3026	.2852E-01	.4982E-03
13			0.13	0.000	0.067	0.2998	22.3607	.2864E-01	.4986E-03
14			0.15	0.000	0.073	0.3012	22.4214	.2877E-01	.4990E-03
15			0.02	0.000	0.064	0.3005	22.4802	.2889E-01	.4995E-03
16			0.13	0.000	0.077	0.3010	22.5315	.2899E-01	.4998E-03
17			0.13	0.000	0.077	0.3017	22.5809	.2909E-01	.5002E-03
18			0.13	0.000	0.086	0.3024	22.6251	.2918E-01	.5005E-03
19			0.13	0.000	0.116	0.3025	22.6555	.2925E-01	.5007E-03
20			0.01	0.000	0.121	0.3002	22.6751	.2929E-01	.5008E-03
21			0.13	0.000	0.160	0.2991	22.6903	.2932E-01	.5009E-03
22			0.13	0.000	0.119	0.2988	22.6999	.2934E-01	.5010E-03
23			0.29	0.000	0.112	0.3019	22.7134	.2936E-01	.5011E-03
24			0.09	0.000	0.093	0.3022	22.7263	.2939E-01	.5012E-03
25			0.52	0.000	0.115	0.3094	22.7247	.2939E-01	.5012E-03
26			0.13	0.000	0.131	0.3103	22.7266	.2939E-01	.5012E-03
27			0.13	0.000	0.145	0.3097	22.7166	.2937E-01	.5011E-03
28			0.13	0.000	0.144	0.3091	22.7060	.2935E-01	.5011E-03
29			0.13	0.000	0.133	0.3086	22.7148	.2937E-01	.5011E-03
30			0.13	0.000	0.119	0.3086	22.7304	.2940E-01	.5012E-03
31			0.13	0.000	0.102	0.3089	22.7457	.2943E-01	.5013E-03

LATERAL DRAINAGE COLLECTED FROM LAYER 8

TOTALS	1.9254	1.6688	1.9339	1.9607	1.9723	1.7575
	1.8898	1.9669	2.3474	2.7132	2.4891	2.3975
STD. DEVIATIONS	0.7420	0.5166	0.7158	0.8024	0.8469	0.7454
	1.0699	1.3347	1.1171	1.0871	0.8576	0.6159

PERCOLATION/LEAKAGE THROUGH LAYER 9

TOTALS	0.0192	0.0167	0.0190	0.0189	0.0194	0.0180
	0.0191	0.0196	0.0209	0.0228	0.0213	0.0210
STD. DEVIATIONS	0.0028	0.0018	0.0028	0.0031	0.0032	0.0026
	0.0045	0.0060	0.0050	0.0050	0.0039	0.0026

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ACROSS LAYER 9

AVERAGES	38.5832	36.4134	38.4857	41.0137	40.1250	36.8277
	38.9999	40.9996	50.1906	55.8213	52.0972	47.7975
STD. DEVIATIONS	12.0150	8.9759	12.5941	14.7064	14.6629	12.4503
	20.3567	27.3497	23.5223	22.5995	18.4458	11.9627

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	INCHES		CU. FEET	PERCENT
PRECIPITATION	83.38	(8.498)	302661.8	100.00
RUNOFF	0.000	(0.0000)	0.00	0.000
EVAPOTRANSPIRATION	56.999	(1.9473)	206906.05	68.362
SUBSURFACE INFLOW INTO LAYER 8	0.67200		2439.360	0.80597
LATERAL DRAINAGE COLLECTED FROM LAYER 8	25.02241	(9.28040)	90831.352	30.01084
PERCOLATION/LEAKAGE THROUGH LAYER 9	0.23589	(0.03718)	856.298	0.28292
AVERAGE HEAD ACROSS TOP OF LAYER 9	43.113	(14.311)		
CHANGE IN WATER STORAGE	1.793	(3.4484)	6509.06	2.151

PEAK DAILY VALUES FOR YEARS	1 THROUGH	5
	(INCHES)	(CU. FT.)
PRECIPITATION	4.35	15790.500
RUNOFF	0.000	0.0000
DRAINAGE COLLECTED FROM LAYER 8	0.14097	511.72339
PERCOLATION/LEAKAGE THROUGH LAYER 9	0.000989	3.59122
AVERAGE HEAD ACROSS LAYER 9	91.606	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.4387
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.2584

FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	1.6094	0.2682
2	21.8793	0.3647
3	4.2065	0.3505
4	4.3427	0.3619
5	4.2719	0.3560
6	4.4028	0.3669
7	4.8794	0.4066
8	16.4520	0.4570
9	19.2000	0.4000
SNOW WATER	0.000	

HELP MODEL PROGRAM INITIALIZATION DATA

PROJECT NAME: Southwest Landfill
 LOCATION: Hillsborough County, FL
 ANALYSIS DESCRIPTION: sideslopes "calibration"
Before/After Irrigation

PROJECT NO.: 099018.35
 DATE: 3-7-95
 ENGINEER: Beres Poinell
 FILENAME: side.out

SOIL LAYER NUMBER	SOIL DESCRIPTION	LAYER THICKNESS (INCHES)	LAYER TYPE 1=VERTICAL 2=LATERAL 3=SOIL LINER 4=SOIL/GEOM.	SOIL TEXTURE (DEFAULT VALUES FROM MODEL)	WILTING POINT (VOL/VOL)	FIELD CAPACITY (VOL/VOL)	POROSITY (VOL VOIDS/VOL TOTAL)	HYDRAULIC CONDUCTIVITY (CH/SEC)	INITIAL WATER CONTENT (VOL/VOL)
1	seeded clay layer	18	1		.1360 (These values were generated by the computer)	.2440	.3980	2×10^{-4}	.2087
2-9	Waste	12	1		.1400	.2942	.5200	1×10^{-4}	.Varies
810	Sand	36	2		.0580	.1309	.4570	5×10^{-3}	.2335
X11	clay	48	3		.2899	.3560	.4000	1×10^{-8}	.4000
5									
6									
7									
8									
9									

Additional Computational Information

Rainfall Generation: (Default X Synthetic) Years 5
 Maximum Leaf Index: 2.5
 Evaporative Zone Depth = 48 in
 Growing Season: Start: 0 End: 367
 Soil Water Content (If not initialized by Computer):
 Vegetative Cover: Bare/Poor/Fair/Good/Excellent
 SCS Curve Number = 84.60
 Liner Leakage Fraction =
 Potential Runoff Fraction = 100%
 Landfill Area = 43,560 sf.
 Cap Slope = 25%
 Cap Drainage Length = 200 ft
 Bottom Liner Slope = 1%
 Bottom Liner Drainage Length = 200 ft

HELP Analysis Results

Precipitation: Peak Daily = 4.35 in ; Average Annual = 51 in
 Average Annual Percolation = 568 cf/year
 Peak Daily Lateral Drainage = 75 cf/day
 Average Annual Lateral Drainage = 16,071 cf/year
 Peak Daily Runoff = 6,003 cf/day
 Average Annual Runoff = 14,191 cf/year
 Peak Daily Percolation from Bottom Liner = 1.71 cf/day

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**
**      HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
**      HELP MODEL VERSION 3.03  (31 DECEMBER 1994)
**      DEVELOPED BY ENVIRONMENTAL LABORATORY
**      USAE WATERWAYS EXPERIMENT STATION
**      FOR USEPA RISK REDUCTION ENGINEERING LABORATORY
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PRECIPITATION DATA FILE:  P:\HELP3\SIDE.D4
TEMPERATURE DATA FILE:   P:\HELP3\SIDE.D7
SOLAR RADIATION DATA FILE: P:\HELP3\SIDE.D13
EVAPOTRANSPIRATION DATA:  P:\HELP3\SIDE.D11
SOIL AND DESIGN DATA FILE: P:\HELP3\SIDE.D10
OUTPUT DATA FILE:        P:\HELP3\SIDE.OUT

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TIME: 10:24 DATE: 3/ 7/1995

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*****
      TITLE:  SOUTHEAST LANDFILL - Side slopes Before & (After Irrigation)
*****

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NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
WERE SPECIFIED BY THE USER.

LAYER 1

```

      TYPE 1 - VERTICAL PERCOLATION LAYER
      MATERIAL TEXTURE NUMBER 0
THICKNESS           =      18.00  INCHES
POROSITY             =      0.3980 VOL/VOL
FIELD CAPACITY       =      0.2440 VOL/VOL
WILTING POINT       =      0.1360 VOL/VOL
INITIAL SOIL WATER CONTENT =      0.2087 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.199999995000E-03 CM/SEC

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LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2569	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3245	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2671	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2942	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 6

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2942	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 7

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2942	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 8

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2942	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 9

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.5200	VOL/VOL
FIELD CAPACITY	=	0.2942	VOL/VOL
WILTING POINT	=	0.1400	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2942	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-04	CM/SEC

LAYER 10

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	36.00	INCHES
POROSITY	=	0.4570	VOL/VOL
FIELD CAPACITY	=	0.1309	VOL/VOL
WILTING POINT	=	0.0580	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2335	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.499999989000E-02	CM/SEC
SLOPE	=	1.00	PERCENT
DRAINAGE LENGTH	=	200.0	FEET
SUBSURFACE INFLOW	=	0.67	INCHES/YR

LAYER 11

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	48.00	INCHES
POROSITY	=	0.4000	VOL/VOL
FIELD CAPACITY	=	0.3560	VOL/VOL
WILTING POINT	=	0.2899	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999994000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM A USER-SPECIFIED CURVE NUMBER OF 83.0, A SURFACE SLOPE OF 25.% AND A SLOPE LENGTH OF 200. FEET.

SCS RUNOFF CURVE NUMBER	=	84.60	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	48.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	12.336	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	22.764	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	6.648	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	59.197	INCHES
TOTAL INITIAL WATER	=	59.197	INCHES
TOTAL SUBSURFACE INFLOW	=	0.67	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
TAMPA FLORIDA

		S							
JAY	A	O	RAIN	RUNOFF	ET	E. ZONE	HEAD	DRAIN	LEAK
	I	I				WATER	#1	#1	#1
	R	L	IN.	IN.	IN.	IN./IN.	IN.	IN.	IN.

351	0.08	0.000	0.080	0.2402	11.2915	.1003E-01	.4202E-03
352	0.00	0.000	0.102	0.2384	11.2670	.9995E-02	.4200E-03
353	0.00	0.000	0.091	0.2365	11.2426	.9964E-02	.4198E-03
354	0.00	0.000	0.083	0.2347	11.2183	.9933E-02	.4197E-03
355	0.04	0.000	0.063	0.2341	11.1928	.9901E-02	.4195E-03
356	0.00	0.000	0.054	0.2330	11.1668	.9868E-02	.4193E-03
357	0.00	0.000	0.056	0.2319	11.1427	.9838E-02	.4191E-03
358	1.89	0.185	0.067	0.2616	11.1185	.9808E-02	.4189E-03
359	0.00	0.000	0.090	0.2642	11.0941	.9777E-02	.4188E-03
360	0.00	0.000	0.100	0.2621	11.0703	.9748E-02	.4186E-03
361	0.00	0.000	0.086	0.2603	11.0465	.9718E-02	.4184E-03
362	0.00	0.000	0.090	0.2584	11.0228	.9688E-02	.4183E-03
363	0.00	0.000	0.076	0.2568	10.9992	.9659E-02	.4181E-03
364	0.00	0.000	0.056	0.2556	10.9757	.9630E-02	.4179E-03
365	0.00	0.000	0.089	0.2538	10.9522	.9601E-02	.4178E-03

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.50	161535.000	100.00
RUNOFF	2.327	8448.154	5.23
EVAPOTRANSPIRATION	38.337	139162.469	86.15
SUBSURFACE INFLOW INTO LAYER 10	0.672000	2439.360	1.51
DRAINAGE COLLECTED FROM LAYER 10	4.8510	17609.104	10.90
PERC./LEAKAGE THROUGH LAYER 11	0.159394	578.600	0.36
AVG. HEAD ON TOP OF LAYER 11	13.6161		
CHANGE IN WATER STORAGE	-0.502	-1823.890	-1.13
SOIL WATER AT START OF YEAR	59.693	216686.719	
SOIL WATER AT END OF YEAR	59.191	214862.828	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.080	0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	2.24 11.78	3.20 8.57	2.68 5.46	1.31 3.89	2.33 0.97	6.14 2.43
STD. DEVIATIONS	1.78 2.30	1.56 2.56	1.42 3.62	1.12 0.90	2.47 0.92	4.89 1.34
RUNOFF						
TOTALS	0.050 1.268	0.059 0.774	0.141 0.615	0.041 0.113	0.145 0.028	0.634 0.043
STD. DEVIATIONS	0.070 0.530	0.060 0.738	0.158 1.124	0.091 0.100	0.324 0.062	1.372 0.081
EVAPOTRANSPIRATION						
TOTALS	2.832 6.795	2.651 6.250	3.498 4.592	3.146 3.046	1.936 1.892	4.293 2.244
STD. DEVIATIONS	0.235 0.523	0.706 0.318	1.473 0.522	2.448 0.691	1.571 0.476	1.836 0.316
SUBSURFACE INFLOW INTO LAYER 10						
TOTALS	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 10						
TOTALS	0.3252 0.4060	0.3121 0.3912	0.3736 0.3601	0.3948 0.3622	0.4169 0.3443	0.4001 0.3407
STD. DEVIATIONS	0.1081 0.2091	0.1215 0.1852	0.1644 0.1572	0.1975 0.1260	0.2192 0.0934	0.2167 0.0902
PERCOLATION/LEAKAGE THROUGH LAYER 11						
TOTALS	0.0131 0.0134	0.0119 0.0134	0.0133 0.0128	0.0130 0.0133	0.0135 0.0128	0.0130 0.0132
STD. DEVIATIONS	0.0007 0.0011	0.0007 0.0010	0.0009 0.0008	0.0010 0.0007	0.0011 0.0005	0.0011 0.0005

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ACROSS LAYER 11

AVERAGES	11.3986 13.0232	11.8842 12.7830	12.4541 12.4247	13.1096 12.3203	13.2417 12.2497	13.1262 11.8883
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STD. DEVIATIONS	2.7173	3.3474	3.9914	4.8206	5.1763	5.3440
	5.0214	4.4846	3.9742	3.0607	2.4344	2.3409

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	INCHES		CU. FEET	PERCENT
PRECIPITATION	51.00 (8.833)		185115.5	100.00
RUNOFF	3.909 (1.9476)		14190.91	7.666
EVAPOTRANSPIRATION	43.176 (5.4100)		156729.67	84.666
SUBSURFACE INFLOW INTO LAYER 10	0.67200		2439.360	1.31775
LATERAL DRAINAGE COLLECTED FROM LAYER 10	4.42740 (1.80988)		16071.452	8.68185
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.15656 (0.00971)		568.313	0.30700
AVERAGE HEAD ACROSS TOP OF LAYER 11	12.492 (3.712)			
CHANGE IN WATER STORAGE	-0.001 (2.7070)		-4.13	-0.002

PEAK DAILY VALUES FOR YEARS	1 THROUGH	5
	(INCHES)	(CU. FT.)
PRECIPITATION	4.35	15790.500
RUNOFF	1.654	6002.6958
DRAINAGE COLLECTED FROM LAYER 10	0.02080	75.48696
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.000470	1.70626
AVERAGE HEAD ACROSS LAYER 11	18.329	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.3514
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.1317

FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	3.7567	0.2087
2	3.0828	0.2569
3	3.8945	0.3245
4	3.2037	0.2670
5	3.5304	0.2942
6	3.5304	0.2942
7	3.5304	0.2942
8	3.5304	0.2942
9	3.5304	0.2942
10	8.4012	0.2334
11	19.2000	0.4000

SNOW WATER 0.000

