

Johnson, Sabrina O

From: Ray Oates <ray.oates@citrusbocc.com>
Sent: Thursday, October 4, 2018 1:37 PM
To: SWD_Waste
Subject: FW: WACS ID: 39859, Citrus County Central Landfill 3rd Quarter Leachate Generation and Daily Precipitation Report
Attachments: 2018 Citrus County CLF 3rd Qtr Leachate Rpt.pdf

From: Ray Oates
Sent: Thursday, October 4, 2018 1:15 PM
To: 'SWD' ; Scott Borderieux (scott.borderieux@floridadep.gov)
Cc: Randall S. Olney ; Henry C. Norris ; DAN S. SHERLOCK ; 'Troy Hays'
Subject: WACS ID: 39859, Citrus County Central Landfill 3rd Quarter Leachate Generation and Daily Precipitation Report

Scott:

Attached is our most recent leachate and rain report.

Please contact me if you have any questions.

Regards,

Ray Oates, PG
Solid Waste Compliance Manager
Division of Solid Waste Management
230 W. Gulf to Lake Highway
P.O. Box 340
Lecanto, FL 34461
Phone: 352-527-7679 Fax: 352-527-7672
Email: ray.oates@citrusbocc.com
FTP: www.share.citrusbocc.com

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Board of County Commissioners
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE MANAGEMENT DIVISION
P.O. Box 340, Lecanto, Florida 34460
Email: landfillinfo@citrusbocc.com
Telephone: (352) 527-7670 Fax: (352) 527-7672

October 4, 2018

Mr. Scott Borderieux, PG
Engineering Specialist, Compliance Assurance Section
Department of Environmental Protection
13051 North Telecom Pkwy
Temple Terrace, Florida 33637-0926

Re: Citrus County Central Landfill - Permit No. 21375-025-SO/018-01
2018 Third Quarter Leachate Generation and Daily Precipitation Report
WACS ID: # 39859

Dear Mr. Borderieux:

During the reporting period, 51 Phase 3 secondary flow exceedances occurred. Rainfall totals were 22.72 inches for the quarter.

The leachate exceedances were caused by two separate lightning events that damaged variable frequency drives (VFDs) which operate pumps. Also during the period each of two leachate tanks was re-lined, during which time our capacity to treat leachate was reduced by 50%.

If you should need additional information, please let me know.

Sincerely,

Dan S. Sherlock
Acting Director, Citrus County Division of Solid Waste Management

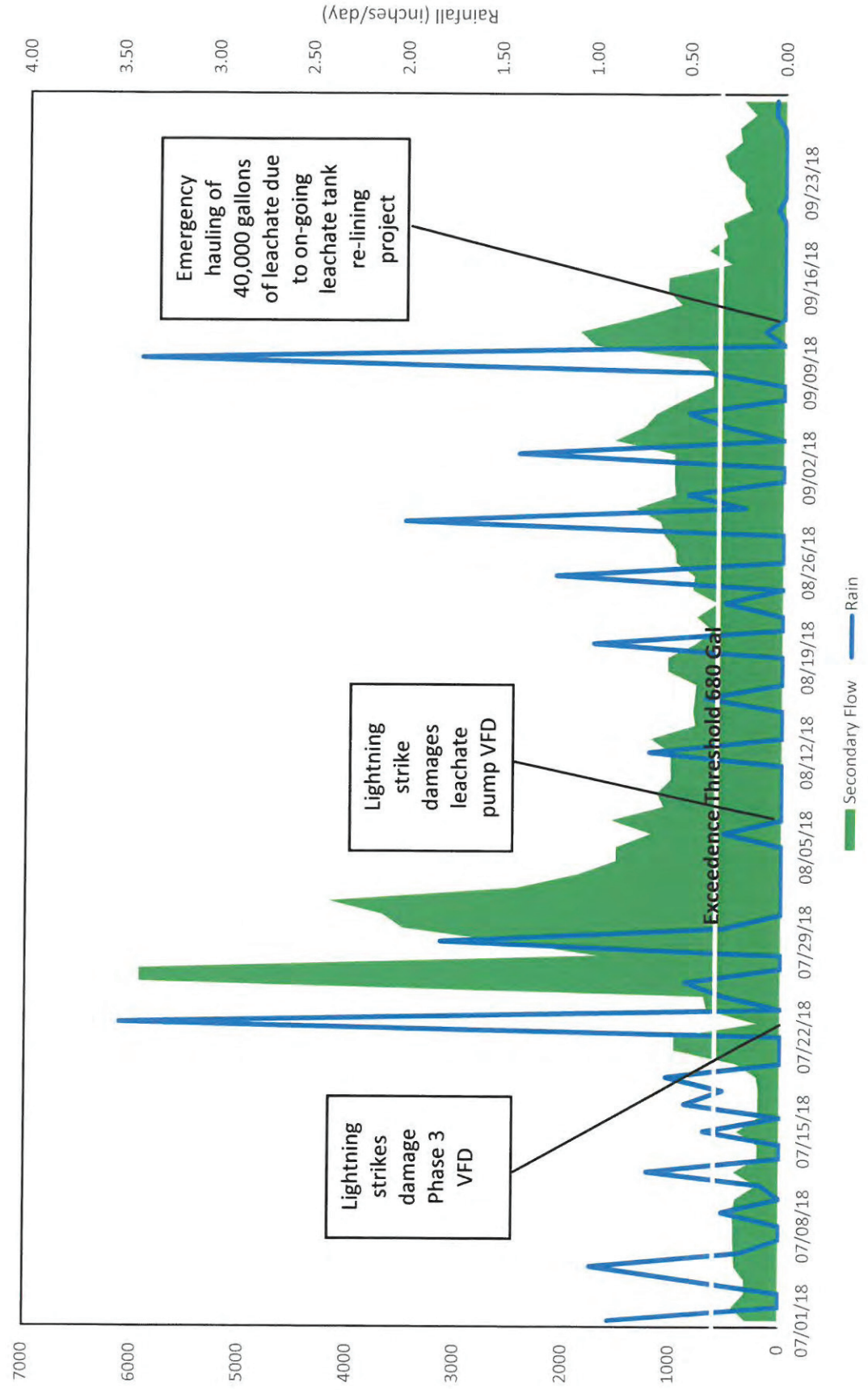
DSS:ro
Enclosures

cc: Randall Olney, PE, Director, Department of Public Works
Troy Hays, Senior Manager/VP, Jones Edmunds & Associates

Scanned to E-Bridge
Date 10/4/18
Initials RD
Solid Waste Management

Submitted Electronically
SWD_Waste@dep
Addresses & cc
Date: 10/4/18
Initials RD

Citrus County Central Landfill Phase 3 Secondary Leachate Flow 3rd Quarter 2018



CITRUS COUNTY CENTRAL LANDFILL

			PHASE 1 AND 1A				PHASE 2				PHASE 3				7 ACRE		TOTAL	Force Main Flow				
DATE	DAY	RAIN IN INCHES	80-1 (S) LS METER	Secondary 80-1 (S) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-1 (P) LS METER	Primary 80-1 (P) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-3 (S) LS METER	Secondary 80-3 (S) FLOW GAL	80 (P-1) LS METER	Primary 80 (P-1) FLOW GAL	80 (P-2) LS METER	Secondary 80 (P-2) FLOW GAL	LIFT STATION METER #5 (P)	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL	
07/01/18	Sun	0.17	33670	11	6384520	2700	1592099	0	6418783	36325	82267	26	28745158	5824	1154025	300	3990276	366	45552	17930	14000	
07/02/18	Mon	0.00	33681	8	6387220	0	1592099	0	6455108	17269	82293	32	28750982	7010	1154325	422	3990642	335	35076	17944	5000	
07/03/18	Tue	0.45	33689	13	6387220	3408	1592099	0	6472377	15634	82325	27	28767992	8731	1154747	309	3990977	224	28346	17949	12000	
07/04/18	Wed	0.00	33702	13	6390628	3408	1592099	0	6488011	15634	82352	27	28776723	8730	1155056	308	3991201	224	28344	17961	11000	
07/05/18	Thu	0.59	33715	14	6394036	0	1592099	0	6503645	20672	82379	27	28785453	21107	1155364	401	3991425	338	42559	17972	20000	
07/06/18	Fri	0.05	33729	17	6394036	0	1592099	0	6524317	14371	82406	22	28806560	0	1155765	405	3991763	0	14815	17992	5000	
07/07/18	Sat	0.14	33746	10	6394036	0	1592099	0	6538688	11599	82428	20	28806560	10527	1156170	412	3991763	393	22961	17997	17000	
07/08/18	Sun	0.01	33756	10	6394036	0	1592099	0	6550287	11599	82448	19	28817087	10527	1156582	411	3992156	393	22959	18014	16000	
07/09/18	Mon	0.10	33766	12	6394036	7475	1592099	0	6561886	10156	82467	22	28827614	19753	1156993	421	3992549	333	38172	18030	16000	
07/10/18	Tue	0.00	33778	5	6401511	0	1592099	0	6572042	9336	82489	382	28847367	17320	1157414	395	3992882	0	27444	18046	18000	
07/11/18	Wed	0.18	33783	7	6401517	0	1592099	0	6581378	8031	82871	6	28864687	16276	1157809	207	3992882	449	24976	18064	12000	
07/12/18	Thu	0.37	33790	14	6401517	0	1592099	0	6598909	9261	82877	1	28880963	9736	1158016	410	3993331	334	19755	18076	1000	
07/13/18	Fri	0.02	33804	5	6401517	8786	1592099	0	6598670	6498	82877	12	28895872	12682	1158426	201	3993665	734	31026	18077	1000	
07/14/18	Sat	0.26	33809	5	6401517	0	1592099	0	6605168	8606	82878	12	28895872	12682	1158426	201	3993665	734	31026	18078	7000	
07/15/18	Sun	0.00	33814	5	6410303	0	1592099	0	6613774	8625	82890	9	28908554	21921	1158828	383	3994399	0	30943	18085	34000	
07/16/18	Mon	0.00	33819	4	6410303	0	1592099	0	6622399	5381	82899	4	28930475	976	1159211	197	3994399	338	6900	18119	37000	
07/17/18	Tue	0.38	33823	4	6410303	0	1592099	0	6627780	6452	82903	9	28931451	10226	1159408	199	3994737	0	16890	18156	22000	
07/18/18	Wed	0.55	33827	4	6410303	9016	1592099	0	6634232	7394	82912	17	28941677	10082	1159607	197	3994737	783	27493	18178	0	
07/19/18	Thu	1.06	33831	4	6419319	0	1592099	0	6641626	7180	82929	24	28951759	10487	1159804	214	3995520	0	17909	18178	0	
07/20/18	Fri	0.06	33835	6	6419319	0	1592099	0	6648806	28907	82953	57	28962246	14615	1160018	393	3995520	336	44314	18178	30000	
07/21/18	Sat	0.02	33841	7	6419319	4724	1592099	0	6677713	44760	83010	25	28976861	14510	1160411	973	3995856	369	65368	18208	15000	
07/22/18	Mon	2.55	33848	7	6424043	4724	1592099	0	6722473	44760	83035	24	28991371	14510	1161384	973	3996225	369	65367	18223	15000	
07/23/18	Mon	0.22	33855	31	6428767	0	1592099	0	6767233	116725	83059	17	29005881	1608	1162357	215	3996594	339	118935	18238	147000	
07/24/18	Tue	0.00	33866	11	6428767	446	1592099	0	6883958	62595	83076	41	29007489	14104	1162572	672	3996933	403	78272	18385	46000	
07/25/18	Wed	0.00	33897	5	6429213	10586	1592099	0	6946553	9011	83117	9	29021593	25232	1163244	703	3997336	0	45546	18431	9000	
07/26/18	Thu	0.58	33902	7	6439799	8842	1592099	0	6955564	45581	83126	18	29046825	8256	1163947	5944	3997336	341	68989	18440	3000	
07/27/18	Fri	0.00	33909	7	6448641	-20	1592099	0	7001145	28934	83144	39	29055081	8256	1168891	5944	3997677	74	43234	18443	22000	
07/28/18	Sat	0.00	33916	6	6448621	0	1592099	0	7030079	23883	83183	31	29063337	85129	1175835	1693	3997751	86	110828	18465	47000	
07/29/18	Sun	1.48	33922	14	6448621	5418	1592099	0	7053962	49542	83214	13	29148466	27324	1177528	2551	3997837	0	84862	18512	118000	
07/30/18	Mon	0.25	33936	9	6454039	0	1592099	-193	7103504	66580	83227	65	29175790	63002	1180079	3503	3997837	133	133099	18630	61000	
07/31/18	Tue	0.03	33945	6	6454039	0	1591906	-143	7170084	33657	83292	92	29238792	0	1183582	3687	3997970	0	37299	18691	50000	
08/01/18	Wed	0.00	33951		6454039		1591763		7203741		83384		29238792		1187269		3997970		18741			
TOTAL		9.52		281		69519		-336		784958		1117		493634		33244		769				811000

Leakage Action Rates:
Phase 1/1A - 930 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 2,210

Start Leachate in Storage

29,510
GALLONS

End Leachate in Storage

GALLONS

REVIEWED BY
Dan S. Sherlock
Dan S. Sherlock

CITRUS COUNTY CENTRAL LANDFILL

PHASE 1 AND 1A			PHASE 2						PHASE 3				7 ACRE		TOTAL	Force Main Flow						
DATE	DAY	RAIN IN INCHES	80-1 (S) LS METER	Secondary 80-1 (S) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-1 (P) LS METER	Primary 80-1 (P) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-3 (S) LS METER	Secondary 80-3 (S) FLOW GAL	80 (P-1) LS METER	Primary 80 (P-1) FLOW GAL	80 (P-2) LS METER	Secondary 80 (P-2) FLOW GAL	LIFT STATION METER #5 (P)	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL	
			80-1 (S) LS METER	Secondary 80-1 (S) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-1 (P) LS METER	Primary 80-1 (P) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-3 (S) LS METER	Secondary 80-3 (S) FLOW GAL	80 (P-1) LS METER	Primary 80 (P-1) FLOW GAL	80 (P-2) LS METER	Secondary 80 (P-2) FLOW GAL	LIFT STATION METER #5 (P)	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL	
08/01/18	Wed	0.00	33951	7	6454039	3958	1591763	0	7203741	33845	83384	111	29238792	30219	1187269	4188	3997970	43	72371	18741	68000	
08/02/18	Thu	0.00	33958	11	6457997	3931	1591763	0	7237586	20973	83495	53	29269011	34551	1191457	2435	3998013	35	61989	18809	1000	
08/03/18	Fri	0.00	33969	9	6461928	3931	1591763	-482	7258559	16782	83548	78	29303562	16293	1193892	1873	3998048	49	18309	18810	35000	
08/04/18	Sat	0.00	33978	8	6461928	3041	1591281	-104	7275341	16477	83626	78	29303562	16293	1195765	1529	3998097	0	37322	18845	17000	
08/05/18	Sun	0.00	33986	8	6464969	3040	1591177	-105	7291818	16476	83704	77	29319855	16292	1197294	1529	3998097	0	37317	18862	16000	
08/06/18	Mon	0.30	33994	7	6468009	0	1591072	-81	7308294	13325	83781	60	29336147	34580	1200026	1579	3998174	77	14591	18878	41000	
08/07/18	Tue	0.00	34001	5	6468009	0	1590991	-125	7321619	14118	83841	51	29336147	34580	1200026	1579	3998174	77	14591	18878	41000	
08/08/18	Wed	0.00	34006	5	6468009	0	1590886	-69	7335737	8774	83892	26	29370727	0	1201605	1090	3998174	48	9874	18953	0	
08/09/18	Thu	0.00	34011	3	6468009	7158	1590797	-119	7344511	13600	83918	92	29370727	0	1202695	1150	3998222	60	21944	18953	0	
08/10/18	Fri	0.00	34014	4	6475167	0	1590678	-74	7358111	9207	84010	47	29370727	0	1203845	1019	3998282	0	10203	18953	19000	
08/11/18	Sat	0.00	34018	6	6475167	883	1590604	0	7367318	11625	84057	56	29370727	16667	1204864	1021	3998282	46	30304	18972	0	
08/12/18	Sun	0.70	34024	5	6476050	882	1590604	0	7378943	11625	84113	55	29387394	16666	1205885	1021	3998328	45	30299	18972	0	
08/13/18	Mon	0.00	34029	4	6476932	5905	1590604	0	7390568	10665	84168	68	29404060	0	1206906	1213	3998373	34	17889	18972	0	
08/14/18	Tue	0.00	34033	8	6482837	0	1590604	0	7401233	9262	84236	49	29404060	0	1208119	797	3998407	159	10275	18972	0	
08/15/18	Wed	0.00	34041	8	6482837	5245	1590604	-458	7410495	3140	84285	39	29404060	3	1208916	817	3998566	0	8794	18972	0	
08/16/18	Thu	0.40	34049	9	6488082	0	1590146	-28	7413635	10588	84324	19	29404063	0	1209733	801	3998566	734	12123	18972	17000	
08/17/18	Fri	0.00	34058	5	6488082	6022	1590118	-63	7424223	9110	84343	46	29404063	0	1210534	789	3999300	0	15909	18989	14000	
08/18/18	Sat	0.00	34063	7	6494104	4293	1590055	-44	7433333	10288	84389	33	29404063	17022	1211323	1053	3999300	396	33048	19003	25000	
08/19/18	Sun	0.00	34070	6	6498397	4292	1590011	-43	7443621	10288	84422	33	29421085	17022	1212376	1053	3999696	395	33046	19028	25000	
08/20/18	Mon	1.00	34076	7	6502689	0	1589968	0	7453909	9499	84455	16	29438107	0	1213429	798	4000091	0	10320	19053	18000	
08/21/18	Tue	0.00	34083	4	6502689	6918	1589968	-118	7463408	9872	84471	56	29438107	0	1214227	638	4000091	240	17610	19071	15000	
08/22/18	Wed	0.00	34087	5	6509607	0	1589850	-26	7473280	7808	84527	18	29438107	0	1214865	788	4000331	499	9092	19071	8000	
08/23/18	Thu	0.30	34092	5	6509607	0	1589824	-21	7481088	6387	84545	15	29438107	0	1215653	591	4000830	0	6977	19086	8000	
08/24/18	Fri	0.00	34097	5	6509607	0	1589803	-25	7484745	6726	84560	18	29438107	0	1216244	829	4000830	338	7891	19094	0	
08/25/18	Sat	1.20	34102	11	6509607	7424	1589778	-92	7494201	11082	84578	61	29438107	0	1217073	811	400168	204	19501	19094	2000	
08/26/18	Sun	0.00	34113	6	6517031	0	1589686	-38	7505283	10163	84639	22	29438107	1	1217884	984	4001372	536	11674	19096	36000	
08/27/18	Mon	0.00	34119	5	6517031	2524	1589648	0	7515446	12571	84661	32	29438107	0	1218668	991	4001908	0	16123	19132	12000	
08/28/18	Tue	0.00	34124	15	6519555	3172	1589648	0	7528017	23241	84693	48	29438108	35906	1219859	1098	4001908	736	64216	19144	52000	
08/29/18	Wed	2.00	34139	16	6522727	4084	1589648	-204	7551258	24327	84741	49	29474014	0	1220957	1135	4002644	339	29746	19196	4000	
08/30/18	Thu	0.20	34155	8	6526811	5179	1589648	-104	7575585	23138	84790	62	29474014	0	1222092	1369	4002983	0	29652	19200	49000	
08/31/18	Fri	0.50	34163	7	6531990	188	1589340	0	7598723	19148	84852	37	29474014	0	1223461	990	4002983	583	20953	19249	6000	
09/01/18	Sat		34170		6532178		1589340		7617871		84889		29474014		1224451		4003566			19255		
TOTAL				219		78139		-2423		414130		1505		235222		37182		5596				514000

Leakage Action Rates:
Phase 1/1A - 930 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 2,210

Start Leachate in Storage

GALLONS

End Leachate in Storage

GALLONS

REVIEWED BY

Dan S. Sherlock

CITRUS COUNTY CENTRAL LANDFILL

			PHASE 1 AND 1A				PHASE 2				PHASE 3				7 ACRE		TOTAL	Force Main Flow			
DATE	DAY	RAIN IN INCHES	80-1 (S) LS METER	Secondary 80-1 (S) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-1 (P) LS METER	Primary 80-1 (P) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-3 (S) LS METER	Secondary 80-3 (S) FLOW GAL	80 (P-1) LS METER	Primary 80 (P-1) FLOW GAL	80 (P-2) LS METER	Secondary 80 (P-2) FLOW GAL	LIFT STATION METER #5 (P)	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL
09/01/18	Sat	0.00	34170	7	6532178	3518	1589340	-72	7617871	19975	84889	52	29474014	0	1224451	1005	4003566	283	24768	19255	0
09/02/18	Sun	0.00	34177	6	6535696	3518	1589268	-72	7637846	19975	84941	52	29474014	0	1225456	1005	4003849	283	24767	19255	0
09/03/18	Mon	1.40	34183	6	6539214	3518	1589196	-74	7657821	19973	84993	52	29474014	0	1226461	1003	4004132	281	24759	19255	0
09/04/18	Tue	0.00	34189	4	6542732	0	1589122	-182	7677794	28945	85045	58	29474014	0	1227464	1568	4004413	414	30807	19255	0
09/05/18	Wed	0.30	34193	6	6542732	0	1588940	-110	7706739	22056	85103	41	29474014	29396	1229032	1293	4004827	340	53022	19255	69000
09/06/18	Thu	0.50	34199	8	6542732	4655	1588830	-111	7728795	17735	85144	54	29503410	7627	1230325	1180	4005167	0	31148	19324	22000
09/07/18	Fri	0.00	34207	10	6547387	503	1588719	0	7746530	17369	85198	40	29511037	25084	1231505	926	4005167	793	44725	19346	34000
09/08/18	Sat	0.00	34217	11	6547890	2350	1588719	0	7763899	11930	85238	28	29536121	21052	1232431	651	4005960	171	36193	19380	8000
09/09/18	Sun	0.40	34228	10	6550240	2350	1588719	0	7775829	11929	85266	27	29557173	21052	1233082	601	4006131	171	36190	19388	7000
09/10/18	Mon	3.40	34238	12	6552590	5612	1588719	-262	7787758	79623	85293	12	29578225	1	1234533	1756	4006707	360	57409	19517	122000
09/11/18	Tue	0.00	34250	-4	6558202	4070	1588457	-175	7867381	51330	85305	71	29578225	2506	1236289	1897	4007067	0	41338	19648	29000
09/12/18	Wed	0.10	34246	15	6562272	6236	1588282	-150	7918711	30766	85376	68	29580732	32639	1238186	1392	4007067	784	65129	19677	64000
09/13/18	Thu	0.00	34261	4	6568508	6523	1588132	-130	7949477	23852	85444	65	29580732	32639	1238186	1392	4007067	0	41338	19648	29000
09/14/18	Fri	0.00	34265	4	6575031	37	1588002	-56	7973329	18326	85509	39	29613371	0	1239578	946	4007851	0	19296	19741	11000
09/15/18	Sat	0.00	34269	4	6575068	5533	1587946	0	7991655	16687	85548	54	29613371	17296	1240524	1076	4007851	371	41021	19752	34000
09/16/18	Sun	0.00	34273	3	6580601	5532	1587946	0	8008342	16686	85602	53	29630667	17296	1241600	1075	4008222	370	41015	19786	33000
09/17/18	Mon	0.00	34276	3	6586133	3373	1587946	-286	8025028	11850	85655	34	29647963	22745	1242675	484	4008592	342	38545	19819	33000
09/18/18	Tue	0.00	34279	9	6589506	2564	1587660	0	8036878	13691	85689	31	29670708	20024	1243159	700	4008934	740	37019	19852	4000
09/19/18	Wed	0.00	34288	7	6592070	0	1587660	-147	8050569	10598	85720	23	29690732	23037	1243859	535	4008934	0	31820	19856	13000
09/20/18	Thu	0.00	34295	6	6592070	1068	1587513	0	8061167	11618	85743	25	29713769	18523	1244394	580	4009674	0	8287	19895	5000
09/21/18	Fri	0.00	34301	8	6593138	0	1587513	-110	8072785	7805	85768	16	29732292	261	1244974	307	4009674	0	8287	19895	5000
09/22/18	Sat	0.00	34309	10	6593138	0	1587403	0	8080590	8539	85784	22	29732553	5975	1245281	376	4009674	376	15298	19900	28000
09/23/18	Sun	0.00	34319	9	6593138	0	1587403	0	8089129	8539	85806	21	29738528	5975	1245657	376	4010050	375	15295	19928	28000
09/24/18	Mon	0.00	34328	5	6593138	0	1587403	0	8097668	7465	85827	20	29744503	0	1246033	523	4010425	338	8351	19956	0
09/25/18	Tue	0.00	34333	5	6593138	7946	1587403	0	8105133	9223	85847	46	29744503	0	1246556	567	4010763	0	17787	19956	0
09/26/18	Wed	0.00	34338	9	6601084	10575	1587403	0	8114356	10083	85893	47	29744503	0	1247123	402	4010763	745	21861	19956	29000
09/27/18	Thu	0.00	34347	6	6611659	0	1587403	-351	8124439	6178	85940	14	29744503	18705	1247525	421	4011508	0	24973	19985	22000
09/28/18	Fri	0.50	34353	5	6611659	5828	1587052	-66	8130617	7790	85954	38	29763208	0	1247946	274	4011508	334	14203	20007	4000
09/29/18	Sat	0.00	34358	7	6617487	399	1586986	0	8138407	6519	85992	17	29763208	0	1248220	385	4011842	204	7531	20011	0
09/30/18	Sun	0.00	34365	7	6617886	399	1586986	0	8144926	6519	86009	17	29763208	0	1248605	385	4012046	204	7531	20011	0
10/01/18	Mon		34372		6618285		1586986		8151445		86026		29763208		1248990		4012250			20011	0
TOTAL			6.60	202	86107	86107	-2354	533574	1137	289194	24539	8684	756000	24539	8684	756000	8684	756000	8684	756000	756000

Leakage Action Rates:
Phase 1/1A - 920 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 2,210

Start Leachate in Storage

56,048 GALLONS

End Leachate in Storage

83,543 GALLONS

REVIEWED BY

Dan S. Sherlock