

Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS

SOLID WASTE MANAGEMENT DIVISION

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April 15, 2016

Department of Environmental Protection
Solid Waste Section
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926

Re: **Citrus County Central Landfill - Permit No. 21375-018-SO/01**
Leachate Generation and Daily Precipitation Report – 1st Quarter 2016
WACS I.D. # 39859 - Electronic Submittal

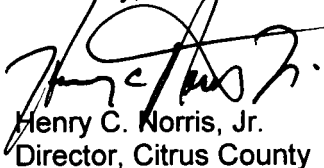
Gentlemen:

In compliance with Specific Condition C.8.e.2, of the above referenced permit, enclosed please find the quarterly Leachate Generation and Daily Precipitation Report for the months of January, February and March 2016, together with the Year-to-Date Leachate Tracking Summary.

Attached please find the summary of the secondary exceedances for Phase 2 and Phase 3 for the months of January and February. There were no exceedances during the month of March. The County has completed construction the stormwater swale on the north slope of Phase 2, as outlined in the Action Plan for Phase 3 Secondary Containment included in the Operations Permit Renewal and to be further outlined in the Request for Additional Information.

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

Sincerely,



Henry C. Norris, Jr.
Director, Citrus County
Division of Solid Waste Management

HCN:CW

CC: Jeff Rogers, P.E., Director, Department of Public Works (Electronic)
Ed Hilton, SCS Engineers – Tampa Office (Electronic)

**CITRUS COUNTY CENTRAL LANDFILL
LEACHATE GALLONS**

MONTH	RAIN DATA	7-ACRE TOTAL OF LEACHATE	80-ACRE TOTAL OF PRIMARY LEACHATE PHASE 1,1A, 2 & 3	80-ACRE TOTAL OF SECONDARY LEACHATE PHASE 1,1A, 2 & 3	SURFACE LEACHATE OR SPECIAL PROJECT	TOTAL INFLUENT LEACHATE	HAULED LEACHATE (RAW) FOR DISPOSAL OFF-SITE	FORCE MAIN LEACHATE (RAW) FOR DISPOSAL OFF-SITE	EFFLUENT DISPOSAL ON-SITE	TOTAL DISPOSAL	BALANCE
JANUARY	5.50	11170	401476	16427	0	429073	0	404000	0	404000	25073
FEBRUARY	4.10	9836	522781	13040	0	545657	0	379000	0	379000	166657
MARCH	4.50	10385	799802	8651	0	818838	0	331000	0	331000	487838
APRIL	0.00	0	0	0	0	0	0	0	0	0	0
MAY	0.00	0	0	0	0	0	0	0	0	0	0
JUNE	0.00	0	0	0	0	0	0	0	0	0	0
JULY	0.00	0	0	0	0	0	0	0	0	0	0
AUGUST	0.00	0	0	0	0	0	0	0	0	0	0
SEPTEMBER	0.00	0	0	0	0	0	0	0	0	0	0
OCTOBER	0.00	0	0	0	0	0	0	0	0	0	0
NOVEMBER	0.00	0	0	0	0	0	0	0	0	0	0
DECEMBER	0.00	0	0	0	0	0	0	0	0	0	0
											0
YTD TOTAL	14.1	31391	1724059	38118	0	1793568	0	1114000	0	1114000	679568

CITRUS COUNTY CENTRAL LANDFILL

DAILY GALLONS LEACHATE GENERATED, DISPOSED AND PRECIPITATION DATA

DATE	DAY	RAIN DATA	80-ACRE TOTAL SECONDARY PHASE 1, 1A, 2 & 3	80-ACRE TOTAL PRIMARY PHASE 1, 1A, 2 & 3	7 ACRE LEACHATE FLOW	SURFACE LEACHATE OR SPECIAL PROJECT	TOTAL LEACHATE GENERATED	HAULED LEACHATE (RAW) FOR DISPOSAL OFF SITE	FORCE MAIN LEACHATE (RAW) FOR DISPOSAL OFF SITE	TOTAL LEACHATE (RAW) DISPOSED OFF SITE	BALANCE
1/7/16	Fri	0.00	557	8708	322	0	9587	0	7000	7000	
1/2/16	Sat	1.00	809	12052	48	0	12910	0	9000	9000	
1/3/16	Sun	0.50	864	12822	679	0	14366	0	20000	20000	
1/4/16	Mon	0.00	537	5936	446	0	6919	0	6000	6000	
1/5/16	Tue	0.00	576	11494	324	0	12394	0	10000	10000	
1/6/16	Wed	0.00	437	7384	448	0	8269	0	14000	14000	
1/7/16	Thu	0.00	182	8270	321	0	8773	0	10000	10000	
1/8/16	Fri	0.00	399	12295	449	0	13143	0	10000	10000	
1/9/16	Sat	0.30	221	5008	317	0	5546	0	10000	10000	
1/10/16	Sun	0.00	572	8601	0	0	9173	0	9000	9000	
1/11/16	Mon	0.00	303	8105	761	0	9169	0	8000	8000	
1/12/16	Tue	0.00	567	8858	0	0	9425	0	9000	9000	
1/13/16	Wed	0.00	745	10737	763	0	12245	0	12000	12000	
1/14/16	Thu	0.00	128	9251	0	0	9379	0	10000	10000	
1/15/16	Fri	0.90	734	18992	725	0	20452	0	19000	19000	
1/16/16	Sat	0.80	378	16996	6	0	17381	0	21000	21000	
1/17/16	Sun	0.00	1082	20014	740	0	21836	0	21000	21000	
1/18/16	Mon	0.00	560	13402	0	0	13962	0	14000	14000	
1/19/16	Tue	0.00	582	12993	321	0	13896	0	12000	12000	
1/20/16	Wed	0.00	546	13188	410	0	14144	0	13000	13000	
1/21/16	Thu	0.30	329	12143	322	0	12794	0	12000	12000	
1/22/16	Fri	0.80	540	20483	348	0	21372	0	20000	20000	
1/23/16	Sat	0.00	651	14677	376	0	15704	0	19000	19000	
1/24/16	Sun	0.00	563	14489	438	0	15490	0	15000	15000	
1/25/16	Mon	0.00	1101	13058	331	0	14490	0	12000	12000	
1/26/16	Tue	0.80	284	19411	455	0	20151	0	5000	5000	
1/27/16	Wed	0.10	292	25711	348	0	26351	0	27000	27000	
1/28/16	Thu	0.00	439	15850	12	0	16301	0	20000	20000	
1/29/16	Fri	0.00	644	15241	702	0	16587	0	11000	11000	
1/30/16	Sat	0.00	402	12654	378	0	13434	0	10000	10000	
1/31/16	Sun	0.00	403	12653	380	0	13436	0	9000	9000	
TOTALS		5.50	16427	401476	11170	0	429073	0	404000	404000	25073

PHASE 1, 1A, 2 & 3 TOTAL ACRES 32.6 - 6.8 OPEN, 25.8 INTERMEDIATE, 0.0 CLOSED

1/1/16- Calculating flows for the Phase 2 Cell primary pumps with the hour meter reading due to erratic meter reading from the new flow meters until meters can be corrected.
 1/27/16 - Phase 2 80-P pump off due to flow meter not working.

CITRUS COUNTY CENTRAL LANDFILL

DAILY GALLONS LEACHATE GENERATED, DISPOSED AND PRECIPITATION DATA

DATE	DAY	RAIN DATA	80-ACRE TOTAL SECONDARY PHASE 1, 1A, 2 & 3	80-ACRE TOTAL PRIMARY PHASE 1, 1A, 2 & 3	7 ACRE LEACHATE FLOW	SURFACE LEACHATE OR SPECIAL PROJECT	TOTAL LEACHATE GENERATED	HAULED LEACHATE (RAW) FOR DISPOSAL OFF SITE	FORCE MAIN LEACHATE (RAW) FOR DISPOSAL OFF SITE	TOTAL LEACHATE (RAW) DISPOSED OFF SITE	BALANCE
2/1/16	Mon	0.00	272	12092	0	0	12364	0	21000	21000	
2/2/16	Tue	0.00	340	11785	729	0	12854	0	12000	12000	
2/3/16	Wed	0.00	22	10642	0	0	10664	0	0	0	
2/4/16	Thu	0.00	1021	61732	713	0	63466	0	23000	23000	
2/5/16	Fri	2.00	568	31195	0	0	31763	0	15000	15000	
2/6/16	Sat	0.00	758	22759	575	0	24092	0	8000	8000	
2/7/16	Sun	0.00	756	22758	538	0	24052	0	7000	7000	
2/8/16	Mon	0.50	495	17195	0	0	17690	0	30000	30000	
2/9/16	Tue	0.00	553	15824	445	0	16822	0	19000	19000	
2/10/16	Wed	0.00	920	13931	315	0	15166	0	13000	13000	
2/11/16	Thu	0.00	221	13444	448	0	14113	0	15000	15000	
2/12/16	Fri	0.00	492	14544	298	0	15334	0	4000	4000	
2/13/16	Sat	0.00	526	12176	367	0	13069	0	13000	13000	
2/14/16	Sun	0.00	525	12176	366	0	13067	0	12000	12000	
2/15/16	Mon	0.00	296	18949	323	0	19568	0	25000	25000	
2/16/16	Tue	1.10	445	11414	409	0	12268	0	13000	13000	
2/17/16	Wed	0.00	472	16078	297	0	16847	0	16000	16000	
2/18/16	Thu	0.00	429	10081	452	0	10962	0	12000	12000	
2/19/16	Fri	0.00	430	9909	0	0	10339	0	6000	6000	
2/20/16	Sat	0.00	281	9930	404	0	10615	0	8000	8000	
2/21/16	Sun	0.00	282	9929	403	0	10614	0	9000	9000	
2/22/16	Mon	0.00	276	9282	253	0	9811	0	21000	21000	
2/23/16	Tue	0.00	253	10481	751	0	11485	0	13000	13000	
2/24/16	Wed	0.50	351	14688	0	0	15039	0	13000	13000	
2/25/16	Thu	0.00	565	13907	767	0	15239	0	12000	12000	
2/26/16	Fri	0.00	320	34086	0	0	34406	0	6000	6000	
2/27/16	Sat	0.00	336	34954	347	0	35637	0	9000	9000	
2/28/16	Sun	0.00	637	34950	373	0	35960	0	9000	9000	
2/29/16	Mon	0.00	198	11890	263	0	12351	0	15000	15000	
TOTALS		4.10	13040	522781	9836	0	545657	0	379000	379000	166657

PHASE 1, 1A, 2 & 3 TOTAL ACRES 32.6 - 6.8 OPEN, 25.8 INTERMEDIATE, 0.0 CLOSED

- 1/27/16 - Phase 2, 80-2P pump off due to flow meter not working.
- 2/19/16 - Phase 2, 80-1P and 80-3S pump off due to flow meter not working.
- 2/24/16 - Phase 2, 80-1P, 80-2P, 80-3S all back up and running in automatic.

CITRUS COUNTY CENTRAL LANDFILL

DAILY GALLONS LEACHATE GENERATED, DISPOSED AND PRECIPITATION DATA

DATE	DAY	RAIN DATA	80-ACRE TOTAL SECONDARY PHASE 1, 1A, 2 & 3	80-ACRE TOTAL PRIMARY PHASE 1, 1A, 2 & 3	7 ACRE LEACHATE FLOW	SURFACE LEACHATE OR SPECIAL PROJECT	TOTAL LEACHATE GENERATED	HAULED LEACHATE (RAW) FOR DISPOSAL OFF SITE	FORCE MAIN LEACHATE (RAW) FOR DISPOSAL OFF SITE	TOTAL LEACHATE (RAW) DISPOSED OFF SITE	BALANCE
3/1/16	Tue	0.00	326	9369	502	0	10197	0	12000	12000	
3/2/16	Wed	0.00	437	11577	0	0	12014	0	9000	9000	
3/3/16	Thu	0.20	131	8220	752	0	9103	0	9000	9000	
3/4/16	Fri	0.00	460	9983	0	0	10443	0	3000	3000	
3/5/16	Sat	0.00	366	9369	317	0	10052	0	8000	8000	
3/6/16	Sun	0.00	365	9367	318	0	10050	0	8000	8000	
3/7/16	Mon	0.00	115	7231	266	0	7612	0	15000	15000	
3/8/16	Tue	0.00	291	64819	442	0	65552	0	10000	10000	
3/9/16	Wed	0.00	291	46090	269	0	46650	0	8000	8000	
3/10/16	Thu	0.00	46	60259	568	0	60873	0	10000	10000	
3/11/16	Fri	0.00	327	7042	0	0	7369	0	0	0	
3/12/16	Sat	0.00	157	10873	479	0	11509	0	6000	6000	
3/13/16	Sun	0.40	154	10873	480	0	11507	0	5000	5000	
3/14/16	Mon	0.00	34	10201	373	0	10608	0	11000	11000	
3/15/16	Tue	0.00	241	11183	264	0	11688	0	11000	11000	
3/16/16	Wed	0.00	245	7700	0	0	7945	0	7000	7000	
3/17/16	Thu	0.00	42	17129	707	0	17878	0	7000	7000	
3/18/16	Fri	1.00	275	17344	280	0	17899	0	5000	5000	
3/19/16	Sat	0.00	351	15655	368	0	16374	0	7000	7000	
3/20/16	Sun	0.40	350	15652	368	0	16370	0	8000	8000	
3/21/16	Mon	0.00	292	12105	449	0	12846	0	29000	29000	
3/22/16	Tue	0.00	516	12791	0	0	13307	0	15000	15000	
3/23/16	Wed	0.00	400	13560	314	0	14274	0	14000	14000	
3/24/16	Thu	1.00	298	14601	404	0	15303	0	14000	14000	
3/25/16	Fri	0.30	308	40990	291	0	41589	0	10000	10000	
3/26/16	Sat	0.00	296	99088	352	0	99736	0	8000	8000	
3/27/16	Sun	0.50	295	99087	352	0	99734	0	8000	8000	
3/28/16	Mon	0.50	343	100083	732	0	101158	0	28000	28000	
3/29/16	Tue	0.20	333	18170	4	0	18507	0	19000	19000	
3/30/16	Wed	0.00	294	13295	3	0	13592	0	12000	12000	
3/31/16	Thu	0.00	272	16096	731	0	17099	0	15000	15000	
TOTALS		4.50	8651	799802	10385	0	818838	0	331000	331000	487838

PHASE 1, 1A, 2 & 3 TOTAL ACRES 32.6 - 6.8 OPEN, 25.8 INTERMEDIATE, 0.0 CLOSED

**CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SECONDARY EXCEEDANCES**

DATE	DAY	RAIN IN INCHES
01/01/16	Fri	0.00
01/02/16	Sat	1.00
01/03/16	Sun	0.50
01/04/16	Mon	0.00
01/05/16	Tue	0.00
01/06/16	Wed	0.00
01/07/16	Thu	0.00
01/08/16	Fri	0.00
01/09/16	Sat	0.30
01/10/16	Sun	0.00
01/11/16	Mon	0.00
01/12/16	Tue	0.00
01/13/16	Wed	0.00
01/14/16	Thu	0.00
01/15/16	Fri	0.90
01/16/16	Sat	0.80
01/17/16	Sun	0.00
01/18/16	Mon	0.00
01/19/16	Tue	0.00
01/20/16	Wed	0.00
01/21/16	Thu	0.30
01/22/16	Fri	0.80
01/23/16	Sat	0.00
01/24/16	Sun	0.00
01/25/16	Mon	0.00
01/26/16	Tue	0.80
01/27/16	Wed	0.10
01/28/16	Thu	0.00
01/29/16	Fri	0.00
01/30/16	Sat	0.00
01/31/16	Sun	0.00
TOTAL		5.50

80-1 (P) LS METER	P O C	Primary 80-1 (P) FLOW GAL	80-2 (P) LS METER	P O C	Primary 80-2 (P) FLOW GAL	80-3 (S) LS METER	P O C	Secondary 80-3 (S) FLOW GAL
315322	A	135	41355	A	3160	1228	A	184
315457	A	53	44515	A	271	1412	A	155
315510	A	148	182786	A	91	1567	A	7
315658	A	12	202877	A	187	1574	A	6
315670	A	264	237064	A	393	1580	A	4
339934	A	151	378457	A	0	1584	A	5
397085	A	1280	378457	A	134	1589	A	9
399905	A	176	389591	A	553	1598	A	7
402081	A	611	390144	A	258	1605	A	7
434692	A	321	390402	A	524	1612	A	5
437923	A	1065	390926	A	238	1617	A	3
438988	A	1089	391164	A	619	1620	A	3
440077	A	2530	429783	A	972	1623	A	151
442607	A	156	433755	A	452	1774	A	4
450763	A	968	448207	A	1923	1778	A	3
475731	A	178	460130	A	924	1781	A	2
489909	A	2147	461054	A	296	1783	A	2
492056	A	2161	461350	A	714	1785	A	2
494217	A	441	462064	A	1530	1787	A	11
530658	A	1200	463594	A	1051	1798	A	4
538980	A	0	464645	A	592	1802	A	7
541150	A	0	465237	A	498	1809	A	4
544230	A	1187	465735	A	650	1813	A	4
555417	A	2101	466385	A	618	1817	A	2
615340	A	0	467003	A	1800	1819	A	638
639724	A	3450	468803	A	3865	2457	A	0
643174	A	1976	472668	A	7763	2457	A	2
662943	A	2175	550293	O	0	2459	A	50
665118	A	2141	550293	O	0	2509	A	103
667259	A	2702	550293	O	0	2612	A	0
669961	A	2702	550293	O	0	2612	A	0
TOTAL		33520			30076			1384

Leakage Action Rate: 600 gpd

PHASE 3					
80 (P-1) LS METER	P O C	Primary 80 (P-1) FLOW GAL	80 (P-2) LS METER	P O C	Secondary 80 (P-2) FLOW GAL
20207983	A	3455	821134	A	265
20211438	A	7813	821399	A	234
20219251	A	10704	821633	A	482
20229955	A	4797	822115	A	255
20234752	A	7971	822370	A	222
20242723	A	5290	822592	A	160
20248013	A	5562	822752	A	7
20253575	A	7138	822759	A	256
20260713	A	4139	823015	A	179
20264852	A	5835	823194	A	234
20270687	A	4851	823428	A	1
20275538	A	5213	823429	A	235
20280751	A	5228	823664	A	219
20285979	A	4700	823883	A	10
20290679	A	14160	823893	A	523
20304839	A	13716	824416	A	243
20318555	A	15602	824659	A	782
20334157	A	10522	825441	A	243
20344679	A	9140	825684	A	267
20353819	A	8938	825951	A	251
20362757	A	8462	826202	A	243
20371219	A	17095	826445	A	243
20388314	A	11051	826688	A	254
20399365	A	9877	826942	A	243
20409242	A	8695	827185	A	237
20417937	A	9666	827422	A	241
20427603	A	13320	827663	A	247
20440923	A	11747	827910	A	252
20452670	A	12532	828162	A	252
20465202	A	8509	828414	A	263
20473711	A	8509	828677	A	263
TOTAL		274237			7806

Leakage Action Rate: 680 gpd

**CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SECONDARY EXCEEDANCES**

			PHASE 3					
DATE	DAY	RAIN IN INCHES	80 (P-1) LS METER	P O C	Primary 80 (P-1) FLOW GAL	80 (P-2) LS METER	P O C	Secondary 80 (P-2) FLOW GAL
02/01/16	Mon	0.00	20482220	A	7218	828940	A	243
02/02/16	Tue	0.00	20489438	A	7658	829183	A	258
02/03/16	Wed	0.00	20497096	A	6540	829441	A	5
02/04/16	Thu	2.00	20503636	A	55541	829446	A	800
02/05/16	Fri	0.00	20559177	A	24804	830246	A	290
02/06/16	Sat	0.00	20583981	A	16418	830536	A	401
02/07/16	Sun	0.50	20600399	A	16417	830937	A	400
02/08/16	Mon	0.00	20616816	A	12036	831337	A	276
02/09/16	Tue	0.00	20628852	A	10713	831613	A	254
02/10/16	Wed	0.00	20639565	A	9853	831867	A	528
02/11/16	Thu	0.00	20649418	A	8221	832395	A	6
02/12/16	Fri	0.00	20657639	A	9345	832401	A	247
02/13/16	Sat	0.00	20666984	A	7510	832648	A	257
02/14/16	Sun	0.00	20674494	A	7509	832905	A	257
02/15/16	Mon	1.10	20682003	A	11685	833162	A	248
02/16/16	Tue	0.00	20693688	A	9222	833410	A	255
02/17/16	Wed	0.00	20702910	A	10058	833665	A	254
02/18/16	Thu	0.00	20712968	A	8970	833919	A	248
02/19/16	Fri	0.00	20721938	A	8008	834167	A	256
02/20/16	Sat	0.00	20729946	A	6965	834423	A	131
02/21/16	Sun	0.00	20736911	A	6964	834554	A	131
02/22/16	Mon	0.00	20743875	A	7363	834685	A	250
02/23/16	Tue	0.50	20751238	A	7657	834935	A	233
02/24/16	Wed	0.00	20758895	A	5847	835168	A	241
02/25/16	Thu	0.00	20764742	A	8272	835409	A	254
02/26/16	Fri	0.00	20773014	A	7421	835663	A	15
02/27/16	Sat	0.00	20780435	A	6178	835678	A	236
02/28/16	Sun	0.00	20786613	A	6177	835914	A	236
02/29/16	Mon	0.00	20792790	A	5357	836150	A	4
(3/1/16 Data)			20798147			836154		
TOTAL		4.10			315927			7214

F:\Shared\DPW\SWMF\DEP Leachate Files\Leachate Files\Leachate System Flow\2016\Leachate Flow 2016.xls
Feb P3