Smith, George

From: Tift, Rachel

Sent: Tuesday, September 05, 2017 9:06 AM

To: SWD_Waste

Subject: FW: WACS 39859, Citrus County Central Landfill Inspection Response

Attachments: FDEP Inspection Response 8.30.17.pdf

From: Ray Oates [mailto:ray.oates@citrusbocc.com]

Sent: Friday, September 1, 2017 3:46 PM

To: Tift, Rachel

Cc: Henry C. Norris; Troy D. Hays (thays@jonesedmunds.com); LARRY J. BROCK **Subject:** WACS 39859, Citrus County Central Landfill Inspection Response

Dear Ms. Tift:

In reply to your site inspection of February 22, 2017, and subsequent inspection-related correspondence dated August 15, 2017; attached please find our response(s) to each of two (2) FDEP Current Violations and seven (7) Areas of Concern.

The attached file also includes the following.

- 1. Annual Site Life Calculation dated January 13, 2016.
- 2. Final Closure Soils Certification (related to *Declaration of Restrictive Covenant and Access Agreement*), dated August 27, 2017.
- 3. Second Quarter, 2017, Leachate Generation and Daily Precipitation Report, dated April 5, 2017, and
- 4. Second Quarter 2017, Phase 3 Secondary Leachate Flow Chart (3-D, Flow vs. Rainfall over time).

Should you have any questions regarding this correspondence, please do not hesitate to contact me.

Respectfully,

Ray Oates, PG

Solid Waste Compliance Manager
Citrus County Division of Solid Waste Management
230 W. Gulf to Lake Hwy
Lecanto, FL 34460
(352) 527-7670
(352) 527-7679 Direct #
(352) 527-7672 Fax
Ray.Oates@citrusbocc.com

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Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION

8/30/2017

Ms. Rachel Tift
Engineering Specialist, Compliance Assurance
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida, 33637-0926

RE: Citrus County Central Class I Landfill and Closed Class I Landfill

Facility ID Number 39859

Citrus County

Dear Ms. Tift:

In response to your correspondence dated August 15, 2017, enclosed please find our response to matters pertaining to Consent Order #05-1078 and your current areas of concern:

CITRUS CENTRAL SLF 02/22/2017

FDEP Current Violations:

Rule: 62-701.510(3), 62-701.510(4), 62-701.730(10), 62-701.730(8)(f), 62-713.400(3)

Question Number: 1.6

Explanation: VOCs were reported above groundwater standards at MW-7 and MW-19 in the second SA 2016 Groundwater Monitoring Report and first SA 2017 Groundwater Monitoring Report. The first SA 2016 Groundwater Monitoring Report attributed the VOC exceedances at these wells to landfill gas. Corrective Action: On 2/22/2017 prior to the inspection, DEP, Citrus County, and Jones Edmunds had a meeting to discuss landfill gas migration and groundwater exceedances at the facility. After the inspection, the facility assessed the adequacy of the existing landfill gas monitoring system and groundwater monitoring system and submitted a plan (Landfill Gas Assessment and Groundwater Delineation plan, revised 6/6/2017, received 6/9/2017) to retrofit/expand both systems to determine the extent and path of landfill gas migration and impacts to groundwater. Please submit updates on the implementation of the Landfill Gas Assessment and Groundwater Delineation plan. The results of the expanded monitoring should be used to develop a remediation plan.

County Response Question Number 1.6:

The three groundwater wells and the eleven landfill gas monitoring probes proposed in the 6/6/2017 Landfill Gas Assessment and Groundwater Delineation Plan (Plan) were installed July 24th through August 18th at the landfill. The three groundwater wells have been developed and sampled and we are currently awaiting the analytical results from the laboratory. All of the landfill gas monitoring probes were fitted with dedicated tubing. As detailed in the Plan, the existing and

new landfill gas monitoring probes were fitted with tubing to multiple depths for measuring landfill gas levels at discrete intervals in the probe. The County is currently working on a report detailing the well and probe construction details and the initial sampling event of the new groundwater wells. The report will be submitted to FDEP by the October 24, 2017 deadline included in the Landfill Gas Assessment and Groundwater Delineation plan.

FDEP Current Areas of Concern:

Area: Phase III

Rule: 62-701.500(7)(d)

Question Number: 2.17

Explanation: At the time of the inspection, a narrow working face was not being practiced in Phase 3, and daily and intermediate cover was sparse in places leaving waste exposed. Corrective Action: Documentation was provided via email on 3/3/2017 and 3/10/2017 which included: pictures of efforts to reduce the working face area and improve cover, the landfill daily inspection log updated to include a checklist item for maintaining the working face width < 50' x 75', and a copy of a Citrus County memo dated 2/24/2017 used to brief operations staff on the permit requirements related to the working face and daily and intermediate cover. Please continue to maintain a narrow working face and apply initial and intermediate cover as required so that waste is not exposed.

Area: Phase III

Rule: 62-701.500(7)(e)
Question Number: 2.18
Explanation: See 2.17
Corrective Action: See 2.17

Area: Phase III

Rule: 62-701.500(7)(f)
Question Number: 2.19
Explanation: See 2.17.

Corrective Action: See 2.17.

County Response Question Number 2.17:

As documented via email on 3/3/2017 and 3/10/2017 and per your direction, we are continuing to maintain a narrow working face and applying initial and intermediate cover as required so that waste is not exposed.

Comment 1.2 - It appears that a landfill survey was conducted in September 2016 but an annual estimate of remaining life was not received. Please provide.

County Response Comment Number 1.2:

Please see the attached Annual Site Life Calculation Report and supporting documentation prepared on December 21, 2016. GET SEALED COPY FROM MARK SCHROEDER

Comment 1.8 - Please be reminded that the wording in the next audit note submitted should be revised per the request sent to Ms. Angela Vick of the Citrus County Board of County Commissioners by the Solid Waste Financial Assurance group on 4/27/2016.

County Response Comment 1.8:

FDEP's reminder is noted. The Citrus County Clerk's Office (Solid Waste Financial Assurance group) in in receipt of the FDEP's letter by Mr. Tor JM Benjar, (dated April 27, 2016). We have reminded our Clerk's Office personnel of the importance of making the FDEP's requested language changes in the 2017 Financial Assurance Report.

Comment 1.9 - Please be reminded that the report required by Appendix 4 of Permit 21375-25-SO/01, Declaration of Restrictive Covenant and Access Easement Agreement, Item 2.c, is due to the Department by July 1 each year. The report is necessary in order for the Department to review cost estimates. Please provide the report as soon as practical, but by no later than September 1, 2017.

County Response Comment 1.9:

The Soils Covenant Area Report was forwarded to Ms. Melissa Madden of FDEP on August 28, 2017. Attached is a copy of the report.

Comment 2.22 - Several Phase 3 leakage action rate (LAR) exceedances were noted during the month of June 2017 in the 2017 Quarter 2 Leachate Generation and Daily Precipitation Report. Please provide an update on the status of the storm water controls currently in place and their effectiveness in reducing leachate generation in Phase 3. If these controls are found to be adequate, additional investigation into the continued exceedances of the Phase 3 LAR may be required. Please note that the 2017 Quarter 1 Leachate Generation and Daily Precipitation Report (.xls file) was not attached to the submittal email dated April 7, 2017. Please provide this report.

County Response Comment 2.22:

Attached is a copy of the 2017 Quarter 1 Leachate Generation and Daily Precipation report. In our continued efforts to reduce Phase 3 leakage action rates (LAR's), we have performed maintenance to the swales located at the top of the embankments of the active waste cell to reduce the area of influence of leachate generation and to decrease the potential for surface water infiltration into the secondary liner.

Attached is graph of Second Quarter 2017 Phase 3 Secondary Leachate Flow, plotted along with date and rainfall data. The graphs shows exceedances for the periods of June 10th through June 14th, and June 29th through June 30th, when respective rainfall amounts of 3.3 inches and 1.9 inches were recorded.

In the past, summer rainfall events exceeding 1.0-2.0 inches occasionally resulted in secondary liner exceedances of 680 gallons/day. Based on our observations of the relationship between rainfall and LAR exceedances, our maintenance to the swales surrounding the active waste cell appear to support a consequential reduction in secondary leachate flow.

Comment 3.13 - GP-3 appeared damaged at the time of the inspection. Jones Edmunds personnel evaluated the adequacy of this well and determined that the probe was bent in the protective casing. The County proposed to cut this probe at the surface and install a new pad with a flush mount cover. Please provide updates on the progress of this repair.

County Response Comment 3.13:

GP-3 was bent over; however, the probe was open to the original total depth and functioning correctly. The casing was put back vertical and the pad was reinforced with compacted soil under and around it. The PVC probe is not damaged and is working as intended. At this time the probe will continue to have the above ground stick-up. Therefore, flush mount completion is not necessary. It has been repaired.

Comment 3.14 - Landfill gas odors were detected at the facility near the property boundary north of the closed landfill areas. Please continue to monitor this area and implement the Landfill Gas Assessment and Groundwater Delineation plan (see Corrective Action for Area of Concern Item 1.6).

County Response Comment 3.14:

We will continue to monitor landfill gas odors throughout the facility as well as near the property boundary north of the closed landfill areas. Newly installed gas and groundwater wells (see County Response 1.6) should detect concentrations of any north and northwest migrating landfill gas. The GCCS expansion design by Jones Edmunds is approximately 90% and we expect the expansion of the solar powered vapor extraction north of the closed cells to be operational by the second quarter of 2018.

If you should need additional information or clarification of these responses, please let me know.

Sincerely

Henry C. Norris, Jr.

Director, Citrus County Division of Solid Waste Management

HCN:RO

CC: Jeff Rogers, P.E., Director, Department of Public Works (Electronic)

Troy Hays, Jones Edmunds



Board of County Commissioners DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION

P.O. Box 340, Lecanto, Florida 34460 Telephone: (352) 527-7670 FAX: (352) 527-7672 TDD Telephone 527-5303

email: landfillinfo@bocc.citrus.fl.us

Citrus Springs/Dunnellon/Inglis/Yankeetown area Toll Free (352) 489-2120

January 13, 2016

Mr. Steve Morgan Dept of Environmental Protection 13051 N Telecom Parkway Temple Terrace, FI 33637-0926

Re: Citrus County Central Class I Landfill (FDEP Permit No. 21375-018-S0/01)

Annual Site Life Calculation Transmittal for Phases 1/1A, 2 and 3

Dear Mr. Morgan:

Pursuant to Specific Condition # C.13.e. of the subject operation permit (which requires landfill site life calculations to be submitted annually no later than January 15th of each year), please find enclosed 2015 Site Life Calculations reports and supporting documentation prepared by Citrus County Division of Engineering.

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

Sincerely,

Henry C. Norris, Jr. Director, Division of

Solid Waste Management

CC: Jeff Rogers, P.E. Director, Dept. Of Public Works (w/o map attachments)

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Date 2/2/17
Initials 70
Solid Waste Management

HCN: F:\Shared\DPW\SWM\FDEP Site Life Reports\Site Life Report.Transmittal 2016/DEP.2016 Site Life Report.doc



DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING

3600 W. Sovereign Path, Suite 241 Lecanto, Florida 34461

Telephone: (352) 527-5446 Fax: (352) 527-5476

Citrus Springs/Dunnellon/Inglis/Yankeetown area - Toll Free (352) 489-2120

TTY Telephone: (352) 527-0825 or (352) 527-5312

CITRUS COUNTY CENTRAL LANDFILL OCTOBER 2016 SITE LIFE CALCULATION ANNUAL REPORT

FDEP PERMIT NO. 21375-008-S0/01 PHASES 1/1A, 2 and 3

Located in S1/T19S/R18E, Citrus County, Florida

Prepared for:

Citrus County Department of Public Works
Solid Waste Management Division
Attn: Henry Norris, Director
230 W. Gulf-to-Lake Highway
Lecanto, FL 34461
(352) 527-7670

Prepared on December 19, 2016

Mark E Schroder, P.E. FL. License No. 67585

County Engineer

Citrus County's Department of Public Works - Division of Engineering has calculated the remaining site life for Phases 1/1A, 2 and 3 of the Citrus County Central Landfill based on the past twelve months of data. The remaining airspace was estimated using population projections, projections of future waste receipts and topographic survey efforts performed by the Citrus County Survey Section in September 2016. The topographic survey information was compiled using real time kinematic satellite navigation (GPS) and is based on NAVD88 datum.

Phases 1/1A,2, and 3:

The airspace consumed from October 1, 2015 (the date of the previous topographic survey as prepared by the Citrus County Survey Section and as referenced in the December 2015 Site Life Calculation Report) to September 29, 2016 (the date of the current survey) was calculated by comparing the digitally generated surfaces from the two surveys. The airspace consumed during this time period was 89,425CY, as shown on sheet 1 of 3 in attachment A. Waste tonnage records supplied by Citrus County Solid Waste Management Division for the same period recorded 88,186 tons entering the landfill. This translates to an effective airspace consumption rate of 1,904lb./CY or 1.05 CY/TN of waste disposed. The volume of the Cap was entered on the calculation as zero. For the calculations, the final closure surface has been lowered by two feet and the final 4' cap will be installed after 2' of settlement. Therefore the volume of the cap was entered into the calculations as 0CY assuming that the airspace will be available before placement.

The remaining life through build out of Phases 1/1A, 2 and 3 was estimated by multiplying the future projected quantities of waste by the current effective airspace consumption rate. Waste tonnage was assumed to increase each year at the same rate as the population. Population growth in Citrus County from 2015 to 2016 was significantly higher than past years. This year population growth has been estimated using the "Medium" projections in the University of Florida Bureau of Economic Research (BEBR) population projections for Citrus County. The projected waste tonnage for each year is multiplied by the effective airspace consumption rate to obtain the airspace volume consumed each year. This is then subtracted from the remaining airspace for each year until the available airspace is depleted. The calculations indicate that Phases 1/1A, 2, and 3 have approximately 1,823,829CY of available airspace as of the September 29, 2016 survey (Attachment #1, Sheet 2) and that this airspace could be completely utilized by July 2032. This assumes that waste will continue to be added to the landfill at the current generation rates and effective density. As Statutory Recycling is implemented waste generation rates will decrease thereby adding a factor of safety to the calculations. For quick reference, the previous Site Life Calculation Report prepared on December, 15 2015 estimated this date to be September 2030 Using Low projection.

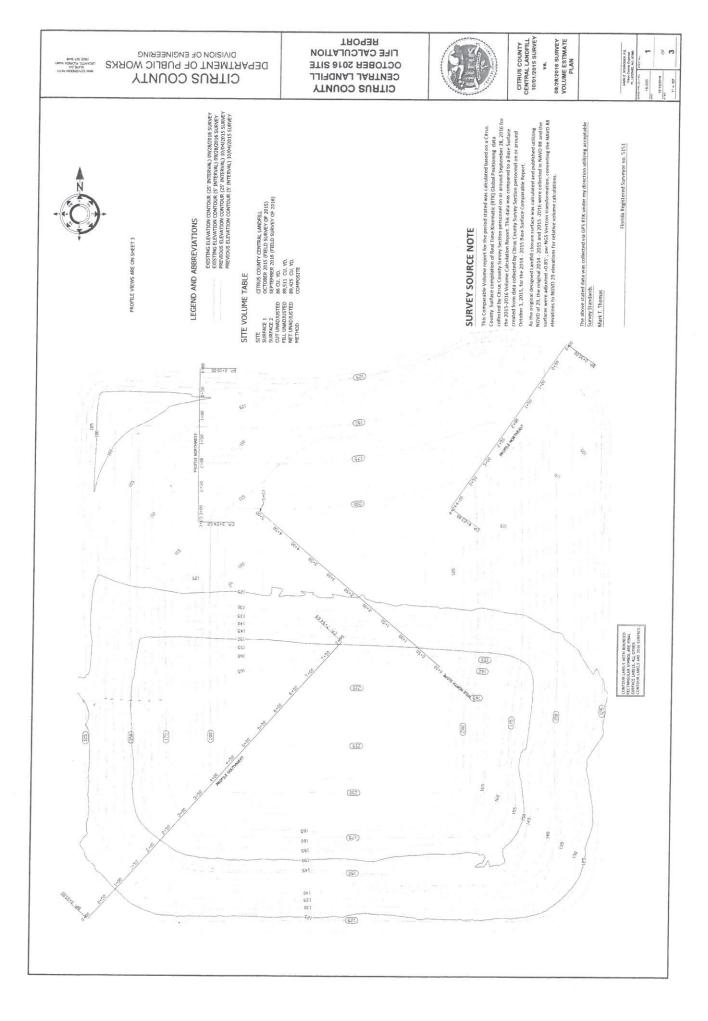
Phases 1/1A, 2, and 3

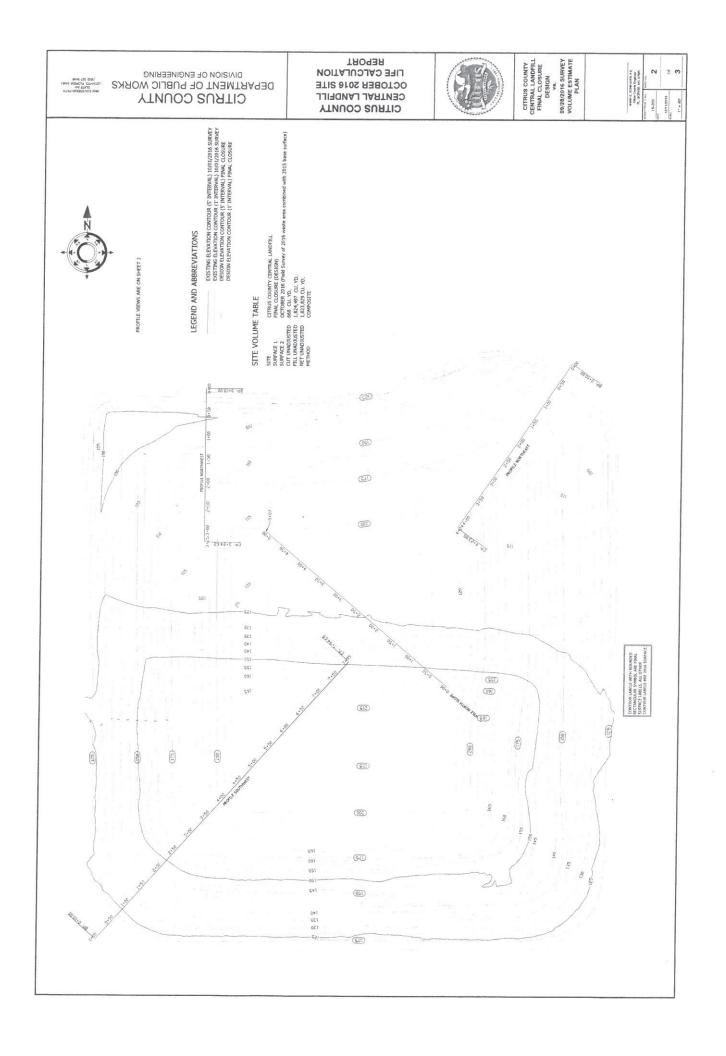
Landfill Side Slopes

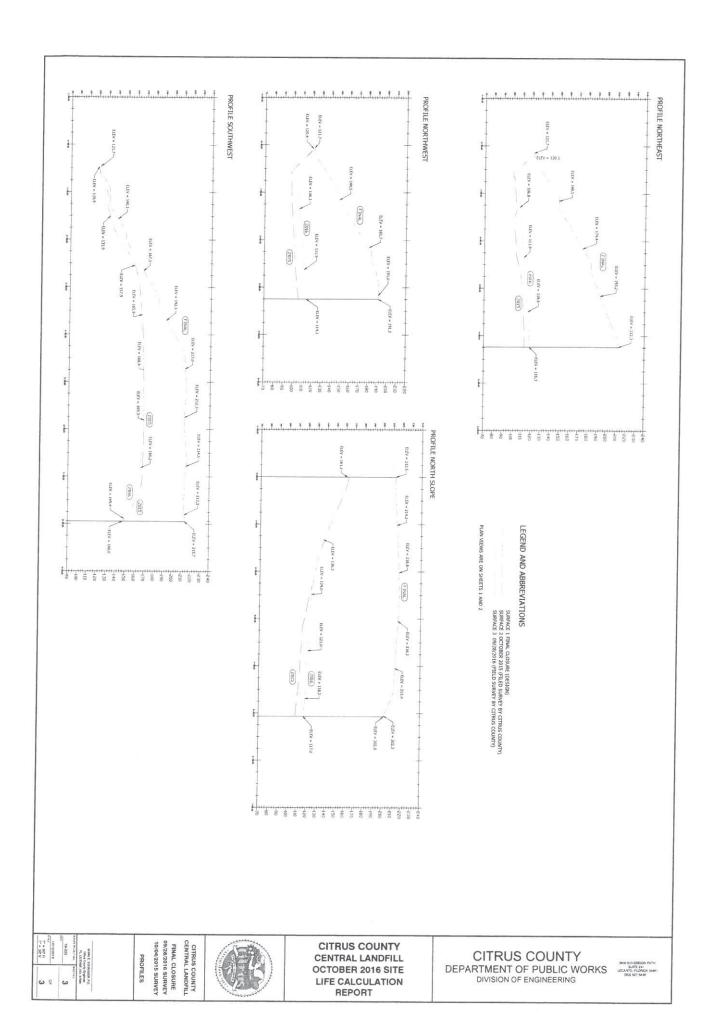
Specific Condition C.13.f of the site's FDEP Permit (Permit No. 21375-008-S0/01) requires that the disposal capacity and site life calculations submitted each year be accompanied by a survey indicating that the actual above grade side slopes are no greater than the design slopes and that the top elevation does not exceed the design elevation. As shown in the cross-sections provided on Sheet 3 of Attachment #1, the side slopes appear to be less than or equal to the design slopes, and the design top elevation of the landfill has not been attained.

ATTACHMENT 1 VOLUME CALCULATION DRAWINGS

(Refer to 24"x36" Drawings)







ATTACHMENT 2 SITE LIFE CALCULATIONS

ATTACHMENT 2 SITE LIFE CALCULATIONS

CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CENTRAL LANDFILL SITE LIFE CALCULATION **DECEMBER 2016 REPORT**

Objective:

Calculate the October 2016 remaining site life for Phases 1 thru 3 using waste tonnage records from Citrus

County and calculated waste generation projections.

Approach:

1. Calculate the available airspace as of the most recent survey.

2. Calculate the "Effective Density" using volume consumed between October 2015 through September 2016.

3. Use the effective density to calculate the remaining life of the available airspace.

Available Airspace Calculation:

Airspace available from Oct 2016 to Final Grade =

1,823,829

(From Survey)

Air volume consumed Oct 2015 through September 2016 =

92,654 CY

(From SWM)

Effective Density Calculation:

Waste Disposed of between 10/2015 through 09/2016 =

88,186 tons

(From Landfill Records)

Effective Density=

88,186

ton 2,000

CY

1,903.56

92,654

ton

lbs/CY

Effective Airspace Consumption Rate=

92.654 CY 88,186 ton 1.05

CY/ton

Assuming the waste will be filled up to the final capacity and allowed to settle before placing the cover soil.

Cap Volume =

0

Subtract Cap Volume from air volume (airspace available) to determine useable waste volume for site life calculation.

CY

Remaining Volume= 1,823,829

1,823,829 CY

Site Life Calculation

The site life calculation is based on Citrus County waste tonnage records and population projections from the University of Florida Bureau of Business and Economic Research (BEBR). The historic population growth trends have been lower than the BEBR Low estimates. This year population growth was significantly higher than past years. Therefore, the Medium population projection was used.

0

FISCAL YEAR	TONNAGE	VOLUME CONSUMED (CY)	NET REMAINING AIRSPACE (CY)
2013-2014	79,908	113,295	
2014-2015	82,992	87,197	1,823,829
2015-2016	88,186	92,654	1,731,175
2016-2017	90,079	94,643	1,636,532
2017-2018	91,036	95,648	1,540,884
2018-2019	91,992	96,653	1,444,231
2019-2020	92,949	97,658	1,346,572
2020-2021	93,924	98,683	1,247,889
2021-2022	94,899	99,708	1,148,182
2022-2023	95,875	100,732	1,047,450
2023-2024	96,850	101,757	945,693
2024-2025	97,825	102,781	842,911
2025-2026	98,728	103,730	739,182
2026-2027	99,631	104,678	634,503
2027-2028	100,533	105,627	528,876
2028-2029	101,436	106,575	422,301
2029-2030	102,339	107,524	314,777
2030-2031	103,120	108,345	206,432
2031-2032	103,902	109,166	97,266
2032-2033	104,684	109,988	-12,722
2033-2034	105,465	110,809	-123,531
2034-2035	106,247	111,630	-235,161

CONCLUSION:

Estimated Phases 1/1A, 2 & 3 Fill Completion Date = July 2032

CITRUS COUNTY CENTRAL LANDFILL WASTE TONNAGE PROJECTION

Year	*Population (BEBR Medium	% Change in	
	Estimate)	Population	Tons/Year
2010 ⁽¹⁾	141,236		
2011 ⁽¹⁾	140,956	-0.20%	81,477
2012 ⁽¹⁾	140,761	-0.14%	81,326
2013 ⁽¹⁾	140,519	-0.17%	81,326
2014 ⁽¹⁾	140,796	0.20%	79,908
2015 ⁽¹⁾	138,100	-1.95%	82,992
2016	143,054	3.46%	88,186
2017	146,192	2.15%	90,079
2018	147,762	1.06%	91,036
2019	149,331	1.05%	91,992
2020	150,900	1.04%	92,949
2021	152,500	1.05%	93,924
2022	154,100	1.04%	94,899
2023	155,700	1.03%	95,875
2024	157,300	1.02%	96,850
2025	158,900	1.01%	97,825
2026	160,380	0.92%	98,728
2027	161,860	0.91%	99,631
2028	163,340	0.91%	100,533
2029	164,820	0.90%	101,436
2030	166,300	0.89%	102,339
2031	167,580	0.76%	103,120
2032	168,860	0.76%	103,902
2033	170,140	0.75%	104,684
2034	171,420	0.75%	105,465
2035	172,700	0.74%	106,247
2036	173,860	0.67%	106,956
2037	175,020	0.66%	107,665
2038	176,180	0.66%	108,374
2039	177,340	0.65%	109,083
2040	178,500	0.65%	109,792

^{*}Population projection data for Citrus County originated from the University of Florida Bureau of Economic and Business Research (BEBR) Florida Population Studies, Bulletin 168. A linear interpolation for yearly population increase was performed between the years in bold.

The 2016 "Tons/Year" amount is based on scale house data supplied by the Waste Management Department and is based upon the monthly collection reports from 10/01/2015 - 09/30/2016.

⁽¹⁾ Previously reported value: 2015 Site Life Calculation Annual report.

CITRUS COUNTY CENTRAL LANDFILL WASTE TONNAGE PROJECTION

Year	*Population (BEBR Medium	% Change in	
	Estimate)	Population	Tons/Year
2010 ⁽¹⁾	141,236		
And the second s			
2011(1)	140,956	-0.20%	81,477
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2015 ⁽¹⁾	138,100	-1.95%	82,992
2016	143,054	3.46%	88,186
2017	146,192	2.15%	90,079
2018	147,762	1.06%	91,036
2019	149,331	1.05%	91,992
2020	150,900	1.04%	92,949
2021	152,500	1.05%	93,924
2022	154,100	1.04%	94,899
2023	155,700	1.03%	95,875
2024	157,300	1.02%	96,850
2025	158,900	1.01%	97,825
2026	160,380	0.92%	98,728
2027	161,860	0.91%	99,631
2028	163,340	0.91%	100,533
2029	164,820	0.90%	101,436
2030	166,300	0.89%	102,339
2031	167,580	0.76%	103,120
2032	168,860	0.76%	103,902
2033	170,140	0.75%	104,684
2034	171,420	0.75%	105,465
2035	172,700	0.74%	106,247
2036	173,860	0.67%	106,956
2037	175,020	0.66%	107,665
2038	176,180	0.66%	108,374
2039	177,340	0.65%	109,083
2040	178,500	0.65%	109,792

^{*}Population projection data for Citrus County originated from the University of Florida Bureau of Economic and Business Research (BEBR) Florida Population Studies, Bulletin 168. A linear interpolation for yearly population increase was performed between the years in bold.

The 2016 "Tons/Year" amount is based on scale house data supplied by the Waste Management Department and is based upon the monthly collection reports from 10/01/2015 - 09/30/2016.

⁽¹⁾ Previously reported value: 2015 Site Life Calculation Annual report.



Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING

3600 W. Sovereign Path, Suite 241 Lecanto, Florida 34461

Telephone: (352) 527-5446 Fax: (352) 527-5482 Citrus Springs/Dunnellon/Inglis/Yankeetown area - Toll Free (352) 489-2120 TTY Telephone: (352) 527-0825 or (352) 527-5312

August 25, 2017

Mr. Henry C. Norris, Jr., Director Citrus County Division of Solid Waste Management 230 W. Gulf to Lake Hwy Lecanto, FL 34461

RE: FDEP Permit #21375-18-SO/01

Final Closure Soils

DearMr. Norris,

In accordance with Appendix 4 of the above-referenced permit, *Declaration of Restrictive Covenant and Access Agreement*, Item 2.c, I have performed a site inspection and topographic analysis of the "Soils Covenant Area" depicted in Figure 1 attached to the SCS Engineers letter to Mr. Henry Freedenberg PE, PG dated May, 3, 2016. With this Letter I hereby provide the following certification:

The Quantity Of Suitable Soils Needed For Use As Final Cover Of The Facility Remains Within The Restricted Property.

If you have any questions or require additional information, please don't hesitate to contact me.

Sincerely,

No 67585

NO 6/585

_

STATE

Mark E Schroder P.E.O

FL License #67585, ONALES.

Citrus County Departifient by Public Works

Engineering Division - Engineer I

Scanned to E-Bridge

Date 8/28 17

Solid Waste Management

Submitted Electronically SWD_Waste@dep

Addresses & cc

Date: 8/28/17 Initials Ru

813 621-0080 FAX 813 623-6757 www.scsengineers.com

SCS ENGINEERS

May 3, 2016

File No: 09210021.26

Mr. Henry Freedenberg PE, PG

Solid Waste Section Florida Department of Environmental Protection 2600 Blair Stone Road, MS 4565 Tallahassee, Florida 32399

RE:

Soils Covenant for the Citrus County Central Landfill Operations Permit Renewal

Permit No: 21375-18-SO/01

Dear Mr. Freedenberg,

Citrus County intends to complete a covenant with the Florida Department of Environmental Protection in order to allow for the preservation of a volume of soil that the State of Florida could utilize to close the permitted landfill Phases 1 through 3. This would only occur if the County fails to conduct the closure when the landfill is filled to the permitted capacity. SCS Engineers has computed the necessary volumes to provide the closure soil based on computer modeling for the final configuration of the landfill. The area shown on Figure 1 will provide sufficient cover material to close Phases 1 through 3. The attached cover material calculations include one foot of intermediate cover and two feet of protective liner cover.

Please note that the calculations include the one foot thick intermediate cover as per the regulations. The County has been placing the intermediate cover in accordance with the regulations on those locations where the waste fill has reached final grades. Therefore, more soil material is available in the covenant designated borrow area than is necessary for the final closure.

On behalf of Citrus County, SCS is pleased to present this information.

Sincerely,

Ian U. Spurlock, E.I. Staff Professional

SCS ENGINEERS

CC: Cory Dilmore, FDEP

Philip J. Ciaravella, FDEP Larry Brock, Citrus County Henry Norris, Citrus County

Cathy Winter, Citrus County

Attachments

Charles E. "Ed" Hilton, Jr. P.E.

Vice President 513110

SCS ENGINEERS

	SCS ENGINEERS				
		SHEET	1	_ OF .	1
CLIENT	PROJECT		JOB NO.		
Citrus County	Operations Permit Renewal		09210021.20	6	
SUBJECT		BY	On the second	DATE	
Closure Soil Calculations		IUS		3/9/2016	
		CHECKED		DATE	
		CEH		3/9/2016	

Volume of Soil for closure of Phases 1-3

The volume includes 12" of Intermediate Cover addition to in place cover plus 24" protective cover soil over the liner. From the Closure Cost Estimate Calculations sheets the total soil volume required is:

3' x 1,531,581 sq. ft. = 4,594,743 cu. ft. = 170,176 cu. yd.

The calculation is based on the surface area of the proposed closure, including side slope consideration.

Immediately following this page, Figure 1 shows the approximate area being set aside for soils covenant area. The area is approximately 148,226 sq. ft. and 80 feet deep at its deepest. This area contains a total volume of 171,875 cu. yd. of soil. Therefore there is enough soil in the soils covenant area for the closure construction.

Soil Classifications

Based on the CH2M HILL geotechnical investigation provided to DEP in the <u>Application for Permit, Citrus County Transfer Station</u>, Volume II, received by FDEP on June 11, 2009, the following information is provided.

"The soil boring and soundings generally encountered medium dense to dense sand, silty sand and clayey sand to the maximum borings and sounding depth of 80 feet, except for borings B-1, B-3, B-6 and B-12, which encountered very loose to loose sand from ground surface to approximately 10 feet below the ground surface. The water table was not encountered in any of the borings."

Borings B-1(60'), B-3(60'), B-10(30'), P-6(30') and P-7(25') are near or inside the soils covenant area as seen on Figure 1. The locations of all the borings can be seen on Figure 2 by King Engineering Associates. Based on the Soil classifications from the report the soils are classified as SP, SM, SP-SM, SM-SC and SP-SC. These soil types are acceptable for closures. During the closure project(s) the material excavated will be monitored for unsuitable material and any found will be removed from the application.

Note: The County has decided not to build the Transfer Station and associated improvements shown on the King drawing.



FIGURE 1 - SOILS COVENANT AREA



Bo: J of County Commiss. ners DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION

P.O. Box 340, Lecanto, Florida 34460 Telephone: (352) 527-7670 FAX: (352) 527-7672 TDD Telephone 527-5303

email: landfillinfo@bocc.citrus.fl.us

Citrus Springs/Dunnellon/Inglis/Yankeetown area Toll Free (352) 489-2120

April 5, 2017

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

Re:

Citrus County Central Landfill - Permit No. 21375-018-SO/01 Leachate Generation and Daily Precipitation Report WACS I.D. # 39859 - Electronic Submittal

Dear FDEP:

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, 2017; together with the Year-to-Date Leachate Tracking Summary.

Exceedances on 2/16/17 and 3/03/17-3/-5/17 from secondary flow phases 1 and 1A were related to intermittent pump failure.

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

Sincerely

Henry C. Norris, Jr. Director, Citrus County

Division of Solid Waste Management

Scanned to E-Bridge Date 4/7/17

Initials

Solid Waste Management

HCN:RO

CC: Jeff Rogers, P.E., Director, Department of Public Works (Electronic)

Troy Hays, Jones Edmunds – Gainesville (Electronic)

CITRUS COUNTY CENTRAL LANDFILL

				-		453		73587		48719		56853		10776		3.90	IOIAL	1
			924951		24383884		0307											
9441	1080	303	924648 A	6009	AC/01/047	0	6367	-	3002139	\neg	1408260		5144736		216618		OBAA ZIZIOZO	11070
9386	897	88	924580 A	6209	243/1466 A	0	V 2959	2523	2999616 A	_	1407373 A	22	5144714 A	777	214741 A	0.00	i lue	11/12/10
14632	1012	200	924380 A	6539	W 17640047 70	20	6364 4	1455	2998161 A	- 1	1405651 A	0	5144714 A	823	213918 A	0.00	_	11/00/10
14634	1014	201	924179 A	6539		200	A 0020	2766	2995395 A		1403769 A	3445	5141269 A	780	213138 A	0.00		/1/87/10
9002	788	72	924107 A	6/20	33 3435030 A	22	6206	2766	2992629 A		1401887 A	3447	5137822 A		212358 A	0.00		11/87/10
9339	564	71	924036 A	6115	24340994 A	1	6100 A	2770	2989909 A		1400895 A	11	5137811 A	612	211746 A	0.00		11/2/10
9950	743	277	923/59 A	/649	24339345 A	40	6185 4	1450	2988457 A	1772	1399123 A	0	5137811 A	486	211260 A	0.00	+	11/42/10
13081	588	74	923685 A	8584	2433076 A		6185 4	1464	2986993 A	837	1398286 A	0	5137811 A	466	210794 A	0.00	-	11/67/10
9954	421	47	923638 A	/661	24323100 A		6185	2595			1396392 A	8	5137803 A	514	210280 A	0.00	I lue	01/24/17
19901	270	80	923558 A	7896	24373100 A		6185 0	1410	2982986 A	\neg	1395511 A	0	5137803 A	374	209906 A	0.00		01/23/1/
19903	271	80	9234/8 A	968/	A 900 / 100 H		6185 0	3365	2979621 A	2606	1392905 A	6034	5131769 A	190	209716 A	1.20		71/22/10
14789	483	316	923162 A	2685	24307300 A		6185	1	2976255 A		1390299 A	6035	191 5125734 A	191	209525 A	000		11/1/10
12222	330		923078 A	5664	7478717 A		0100	1	2973704 A	1171	1389128 A	7135	5118599 A	167	209358 A	0.00	-	11/02/10
10417	229		923069 A	4/50	0 2429285 A		6185	1	2971166 A	1779	1387349 A	2241	5116358 A		209112 A	0.00	_	71/61/10
10943	201	6	923063 A	4805	24200057 A		6186		2968599 A	824	1386525 A	2276	5114082 A	220	208892 A		1/ Wed	11/01/10
7622	446	246	922817 A	5381	0 24282116 A		6100 7	1364	2967235 A	1819	1384706 A	2955	5111127 A	195	208697 A		17 Tue	71/1/10
12211	220	2	922815 A	6039	242/6/3/ A		0100	1357	2965885 A	891	1383815 A	0	200 5111127 A	200	208497 A	0.00		01/16/17
12213	220	2	922813 A	5040	24270697 A		0.000	1	2963393 A	1304	1382511 A	2376	218 5108751 A	218	208279 A	0.00		01/15/1/
9678	206	5	922808 A	5548	0 24270E07 A	0 0	6185	1	1304 2960901 A	1304	1381207 A	2377	5106374 A	218	208061 A	0.00	_	11/4/10
10271	426	240	A 895776	60.00	00202000		6185 4	1	654 2959525 A	1654	1379553 A	0	5106374 A		V 098707	0.00	-	01/10/11
16047	256		922566 A	17604	0 24243636 A		6185 A	1	2957021 A	978	1378575 A	0	5106374 A	186	207674 A	0.00		11/2/10
20436	253	ü	922563 A	9/10	24235945 A		6195 4	1	2954320 A	1742	1376833 A	0	254 5106374 A	254	207420 A	0.00	-	74/11/10
4055	516	232	922331 A	0	242325046 A		6185 4	1	2951638 A		1375057 A	6268	250 5100106 A	250	207170 A	0.00	ani ve	11/01/10
18930	491		922329 A	1415/	W 68717757 MC	04	6176 A	1090	2950548 A	2935	1372122 A	30	5100076 A	275	206895 A			71/60/10
18930	493	u	922326 A	14157	24207632 A	25	6133 A	1	2947186 A		1370717 A	6	5100070 A		206460 A		17 Sun	01/08/17
9434	189		922326 A	0	24207632 A		6065 A	T	2009000 A		1369312 A	6	5100064 A		206025 A	0.00	17 Sat	01/07/17
18947	762	235	922091 A	12515	233 24195117 A		5833 A	T	A MOUNTES		1366468 4	2429	5097635 A	188	205837 A	2.70	17 Fn	01/06/17
5631	248	6	922085 A	3204	24191913 A		5833 A	T	V +600.5007	1771	1364697 4	2082	5095553 A	294	205543 A	0.00	17 Thu	01/05/17
8380	141	0	922085 A	2928	24188985 A	0	A CCBC	T	2033500	027	1363760 A	0	5095553 A	242	205301 A	0.00	01/04/17 Wed	01/04
11206	162	3	922082 A	3671	24185314 A		5000 A	1			1361961 A	1167	5094386 A	141	205160 A	0.00	17 Tue	01/03/17
9551	267	8	922074 A	3607	24181/0/ A	0	COOS A	1			1361060 A	4113			205001 A	0.00	17 Mon	01/02/17
PRIMARY GALLONS	SECONDARY PRI	GAL	METER	-	MEIER	CAL	5022	,	7	1	-	2390	5087883 A	259	204742 A	0.00	17 Sun	71/10/10
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80 ACRE 80 ACRE	80 ACRE 80	80 (P-2)	2)	80 (P-1)	Ė	_	2	-				FLOW	LS	FLOW	LS 0			
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TOTAL PHASE 1, 1-A, 2 & 3	TOTAL PHA	SEC. 271.00.0	ASE 3	PHAS		STATE	AND INCOME STATE OF											
			Street, or other Designation of the last o			STATE OF THE PARTY OF	MOTOR STATEMENT	THE REAL PROPERTY.	WHO WELLER				AND TA	PRASE I AND TA		Management of the	STREET, SQUARE, SQUARE,	September 1

POC - PUMP OPERATION CODE
A - AUTOMATIC
M - MANUAL
O - OFF

Scanned to E-Bridge Date 4/7/7 Initials 4/7/7 Solid Waste Management

CITRUS COUNTY CENTRAL LANDFILL

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	215518 A	622	5144736 A		1408260 A				6367	1		6	METER	GAL	SECONDARY	PRIMARY	GALLONS
0.00	216140 0	713	5144766 A		1409138 A			1	6367	0	24383684 A	4644	924951 A	29	651	6841	7492
0.00	216853 0	531	5144766 A	0	1410004		300000	T	030/	0	24388328 A	5937	924980 A	37	750	8190	8940
0.00	217384 0	795	5144766 A		1411811		3006366	T	030/	0	24394265 A	3420		45	576	6667	7243
000	218179 0	795	5145909 A	1	1413080 0			T	6367 4	0	24397685 A	5455		180	975	9910	10885
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	220192 0	690	5152446 A	1754	V 010317			T	6367 A	0	24412076 A	6221		42	717	12983	13700
	220882 0	676	5154200 A	1	1417864 A	T			6367 A		24418297 A	7412			1075	13289	14364
0.00	221558 0	830	5154200 A		1418747		3017001	T	0007		24425709 A	5957			726	8138	8864
0.00	222388 0	615	5154228 A	2170	1410610			T	035Z A		24431666 A	6789	1		922	9069	9991
0.00	223003 0	614	5156367 A	2199	1421409 0		3034344	T	0003		24438455 A	4989	1	186	805	10873	11678
0.00	223617 0	706	5158566 A	1979	1423199 A		W BSCECUE		0007	4	24443444 A	4989		186	804	10932	11736
0.00	224323 0	628	5160545 A	2979	1424131 A		A BCDSCOE	1	000		2444B433 A	5886		81	787	11457	12244
0.00	224951 0	658	5163524 A	0	1425802 A		3027562	T	001	0	24454319 A	5496		22	650	11780	12
0.00	225609 0		5163524 A	5	1426808 A		3030168 4	1	200		744390 IS A	53//	1	62	720	6868	9709
0.00	226759 0		5163529 A	2012	1428443 A		3031456 4	T	000	T	24465192 A	3182	1	251	1401	6110	7
0.00	227507 0	686	5165541 A	4339	1429372 A	J	V CSBCEUE	T	0011	T	24468374 A		1	9	757	9918	10675
0.00	228193 0	686	5169880 A	4338	1430737 A	I	3035450	1	0011		244/3855 A			12	754	13775	14529
0.70	228879 0	561	5174218 A	0	1432102 A		A 8502505	T	7000		244/9428 A		1	11	753	13784	14537
0.00	229440 0	653	5174218 A	2408	1432953 A		A ECCEPTOR	T	6777 A		24485001 A	5369	1	224	786	7485	8271
0.20	230093 0	725	5176626 A	0	1434680 A		3041826 4	1	W #710		244903/0 A	5934		70	723	12672	13395
1.10	230818 ()	546	5176626 A	2121	1436429 A	1655	3044300	T	0724 M		244963U4 A	11295	926924 A	94	819	15608	16427
0.10	231364 ()	534	5178747 A	0	1438084 A	808	3045847	1	W #770		2450/599 A	10166	927018 A	450	996	15399	16395
0.00	231898 0		5178747 A	0	1438982 A	1360	A VEBRUE	T	W #7/0		2451//65 A	8925	927468 A	63	597	12350	12947
0.00	232733 0	835	5178747 A	0	1440342 A	1350	A EUCUSIOE	1	W 4770		24526690 A	7984	927531 A	296	1131	11273	12404
0.00	233568 0	712	5178747 A	0	1441701 A	1250	3052222	1	W #770		245346/4 A	7983	927827 A	295	1130	11271	12401
0.00	234280 0	597	5178747 A	7	1442951 A	1202	V 0036506	1	0724 A	0	2454265/ A	7961	928122 A	15	727	10599	11326
000	234877		5181189	_	1444254		3056100	T	6770 A	4	24550618 A	6217	928137 A	231	832	12532	13364
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POC - PUMP OPERATION CODE
A - AUTOMATIC
M - MANUAL
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Date 129
Initials 4/7///
Solid Waste Management

CITRUS COUNTY CENTRAL LANDFILL

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6452	556	50	933435 A	1001	24744000		6933		3121645		1486407		5241200		029897		JBC /	11 11 0 140
9106	570	57	9333/8 A	3/43			6933 A	1	3120256 A		1485502 A		5241123 A	506	259114 O	0.00	P Fn	03/37/7/
8387	653	124	933234 A	2702	0 0000000000000000000000000000000000000	0 0	6033		3117815 A		1484596 A	2016	5239107 A	513	258601 O	0.00	DILL / INCKE	100/00/
10310	936	2//	A //6766	4031	0 247039300 A		6933 A	1390	3116425 A		1482832 A	2048	5237059 A	529	258072 O	000	Day / 1/67/50	167/50
9762	788	99	A 9/8766	4444	27600366 V		6933 4	2515	3113910 A	\neg	1481854 A	2286	5234773 A	659	257413 O	000	- Iue	/LIBZING
9524	702	179	A 669766	4429	24604023 A		6933 A		3111374 A	$\overline{}$	1480124 A	1052	5233721 A		256724 O	0.00	_	11/17/60
9527	902	1/9	A 075756	6766	24600004 A		6933 A		3109360 A		1478819 A	1776	5231945 A	523	256201 O	000	nuc /	11/47/60
9230	663	801	93241Z A	2000	24686064 A	0	6933 A		3107345 A		1477513 A	1777	5230168 A	723	255478 O	0.00	Jac val	11/02/100
7382	723		932314 A	2000	0 24682182 4	0	6933 A	1	3105937 A	\neg	1475719 A	2146	5228022 A	555	254923 O	0.00	2 1	11/47/50
7551	858	282	932032 A	4385	24678207 A		6933 A		3103384 A	\neg	1474775 A	0	5228022 A		254298 O	000	_	03/23/17
11741			931/63 A	4900	24000042 A		6033 A	1	3101980 A	\neg	1473013 A		5228022 A	576	253722 O	000	-	03/22/17
7282			931497 A	4466	24669050 A		6033 A	1	3099299 A	\neg	1471653 A	\neg	5225282 A	684	253038 O	0.00	17 Tue	03/21/17
9834			931292 A	4954			00000	1	3097860 A	_	1470292 A	25	5225257 A	748	252290 O	0 00	U3/20/17 Mon	03/20/
9837			931086 A	4954	A 8/CECOP7	000	A CCCO	2404	3095465 A	1329	1468963 A	1147	5224110 A	729	251561 O	0.00	17 Sun	03/19/17
7964	971		930992 A	3313	W C9764047		6033	1	3093060 A	1330	1467633 A	1148	5222962 A	730	250831 O	0 00	17 Sat	03/18/17
8962		309	930683 A	5800	24043465 A	9 4	00224	T	3091308 A	888	1466745 A	11	5222951 A	877	249954 O	0.00		03/17/17
10280			930567 A	6359	2403/106 A	2 4	6004	1307	3089916 4	1760	1464985 A	10	5222941 A	777	249177 O	000	17 Thu	03/16/17
12085			930430 A	7930	W 9/167067	3	6015	1	3087342 A		1463644 A	6	5222935 A	872	248305 O	000	03/15/17 Wed	03/16/
19064	700	76	1	6563	24622613 A		8004	1	3084545 A	_	1462302 A	\neg	5222919 A	894	247411 O	0.00	17 Tue	03/14/17
8751				6704	7 740777047	7	6804	1	3080771 A	1862	1460440 A	6865	5216054 A	617	246794 O	1.00		05/13/1/
8754		242		4829	A CCG71047	0	A BBBB	1	3079390 A	1322	1459118 A		5214835 A	661	246133 O	0.00	Nu Sun	03/12/17
7885			929536 A	4437	24008518 A	2	V 1883	1	3078008 A	1323	1457795 A	1220	5213615 A	662	245471 O	0.00		03/11/17
11125	969		929458 A	4/59	33 240U3/59 A		6970 A	2504	3075504 A		1456851 A	0	5213615 A	667	244804 O	000	_	03/10/17
11753			1	6853	16 24595906 A	10	A 90.69	T	3072884 A		1455141 A	2036	5211579 A		243966 O	0.00	17 Thu	03/09/17
8748		340		5481	6 24591425 A	0	6010 A	1	3060037 4		1453188 A	0	5211579 A	747	243219 O	0.00	03/08/17 Wed	03/08/
14273			928781 A	6641	0 24584784 A	0	0804 A	1	3089459	1789	1451400 A	0	5211579 A	660	242559 O	0.00	17 Tue	03/07/17
21674		181	928600 A	5899	24578885 A	7	6/9/ A	T	A CCSSSOC	1851	1449549 A	2946	5208633 A		241839 O	0.00	17 Mon	03/06/17
21675				5899	24572986 A	7	6/90 A	T	3001290 A	1101	1448368 0	12432	5196201 A		240037 O	0.00	17 Sun	03/05/17
8319		39	928377 A	5202	24567784 A	2	0700 A	1	2000000	1181	1447187 A	_	5183769 A	1802	238235 O	0.00	17 Sat	03/04/17
7658	902	4	928373 A	5454	22 24562330 A	22	0/00/A	T	2000305	1180	1446005 A	_	5183227 A	1842	236293 O	0.00	17 Fn	03/03/17
10876	585	6		5495	24556835 A	39	0727 A	1	3058874	873	1445130 A	0	876 5183227 A	876	235417 0	0.00	17 Thu	03/02/17
PRIMARY GALLONS	SECONDARY	GAL	1	GAL	36.50	200			~	878	1444254 A	2038	5181189 A	540	234877 O	0.00	17 Wed	03/01/17
TOTAL TOTAL FLOW	TOTAL		2	TOWN TOWN	METER	_	20		20		METER C	GAL	METER C	GAL	METER	DAY INCHES	•	DAIE
80 ACRE 80 ACRE	80 ACRE	80 (P-2)	2	(I1)	5 7	_		_		FLOW	LS 0	FLOW	LS 0	FLOW		2		2
		Secondary		Primary	0	Secondary 80.3 (S)	80-3 (S) P	Primary 80-2 (P)	80-2 (P) P	Primary 80-1 (P)	80-1 (P) P	80-2 (P)	80-2 (P) P	80-1 (S)	(S)	RAIN		
TOTAL PHASE 1, 1-A, 2 & 3	TOTAL	CR 25	MASE 3	PHA	The same of the same	STATE	THE PERSON NAMED IN					The same						
	The state of the s					ALCOHOL: NAME OF PERSONS		THE SUNCESSION	PHASE 2			NOT THE REAL PROPERTY.	AT UNA	FRASE I AND TA		The second named in	ALC: UNKNOWN	

POC - PUMP OPERATION CODE
A - AUTOMATIC
M - MANUAL
O - OFF

Initials /Co Scanned to E-Bridge
Date 448/2017 4/7//7
Initials 176

CITRUS COUNTY CENTRAL LANDFILL LEACHATE GALLONS

605007	525000	0	525000	0	1130007	0	67391	1036623	25993	8.00	IOIAL
0										3	1014
0	0	0	0	0	0	0	0	0	C	0.00	DECEMBER
0	0	0	0	0	0	0	0		0 0	0.00	DECEMBED.
0	0	0	0	0	C	C				0 00	NOVEMBER
0								0	0	0.00	OCTOBER
	0		0	D	0	0	0	0	0	0.00	SEPTEMBER
0	0	0	0	0	0	0	0	0	0	0.00	AUGUST
0	0	0	0	0	0	0	0	0	0	0.00	JULY
0	0	0	0	0	0	0	0	0	0	0.00	JUNE
0	0	0	0	0	0	0	0	0	0	0.00	MAY
0	0	0	0	0	0	0	0	0	0	0.00	ATKIL
233826	159000	0	159000	0	392826	0	30067	355838	1760	1.00	5000
134772	197000	0	19/000	C	331/12		20101			3 3	MARCH
200700	10000				224772		22127	299849	8986	3.10	FLBRUARY
236400	169000	0	169000	0	405409	0	14187	381136	10086	3.90	'UARY
						74					
BALANCE	TOTAL	DISPOSAL ON-SITE	OFF-SITE	OFF-SITE	LEACHATE	PROJECT	PHASE 1,1A, 2 & 3	LEACHATE PHASE 1,1A, 2 & 3	LEACHATE	-	MONTH
		EFFLUENT	(RAW) FOR	(RAW) FOR		OR	SECONDARY		TOTAL OF	RAIN	
			LEACHATE			LEACHATE	TOTAL OF)		
			FORCE MAIN	HAULED		SURFACE	80-ACRE	80-ACRE			

Scanned to E-Bridge
Date 4/7/7
Initials 20
Solid Waste Menagement

YTDSUM - Copy.XLS 2017

