

Atkins North America, Inc. 482 South Keller Road Orlando, Florida 32810-6101

Telephone: +1.407.647.7275

www.atkinsglobal.com/northamerica

August 10, 2011

Nancy Gaskin Solid Waste Section Southwest District Florida Department of Environmental Protection 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926

Re: Lena Road Class I Landfill Facility

> Pending Permit No.: 39884-020-SO/20, Manatee County Response to 1st Request for Additional Information

WACS ID#: 44795

Dear Ms. Gaskin:

On behalf of Manatee County, Atkins is providing this response to your July 19, 2011 letter requesting additional information.

Eclosed are the following:

Four copies of the revised closure cost estimate for the additional fluorescent bulbs that may be stored on site. The long-term care cost estimate was not revised.

Four full size (24" x 36") copies of revised drawing C-2 General Ste Plan. This drawing was she of the state o revised to show the location of the additional 18 foot wide by 41 foot long shed for storage of electronic waste.

If you have any questions, please call me at 407-806-4153, or e-mail me at joseph miller@atkinsglobal.com.

Joseph L. Miller, P.P. #39177

Project Engineer

"...Bryan White, Manatee County Solid Waste w/2 copy

Enclosures as noted.

u:\so\projects\manatee ii\wa-11 renew lena ldf operation permit\permit mod\nancy gaskin ltr august 10 2011.doc



Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form # 62-701.900(28), F.A.C.

Form Title: Closure Cost Estimating Form For Solid Waste Facilities

Effective Date: January 6, 2010

Incorporated in Rule 62-701.630(3), F.A.C

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

| | | | Date of D | EP Approval: | · | |
|---|-------------------|---------------------------------|--|---|--|--|
| I. GENERAL INFORMATION: | | | | | | |
| Facility Name: Manatee Co | unty Lena R | oad Class I La | andfill | V | VACS ID: SWD - | 41-44795 |
| Permit Application or Consent | Order No.: | 39884-018-9 | SO/01 | | tion Date: | |
| Facility Address: 3333 Lena | Road, Brad | lenton, FL. 34 | 211 | | | <u> </u> |
| Permittee or Owner/Operator: | Manatee | County Gove | rnment - Utilities De | epartment | | |
| Mailing Address: 3333 Lena | Road, Brad | lenton, FL 342 | 211 | | | |
| | | | | | | |
| Latitude: 27 ° | . 28' | 10 " | Longitude: | 82° | 26' | 35 " |
| Coordinate Method: US Sta | te Plane | | oatum: <u>NAD 1983 (</u> 9 | 00) | _ | |
| Collected by: Patrick McCorn | mack, PSM | | Company/Affiliation | PBS&J | | |
| | | | | | — | |
| Solid Waste Disposal Units Inc | luded in Es | timate: | | <u> </u> | <u> </u> | |
| Phase / Cell | Acres | Date Unit Began Accepting Waste | Active Life of Unit From Date of Initial Receipt of Waste | If active: Remaining life of unit | If closed: Date last waste received | If closed: Official date of closing |
| Stage I (30 acres w/final cap) | 132 | 1972 | 68 | 30 | | <u> </u> |
| Stage III | 66 | 2004 | 10 | 4 | r.FLORIO | |
| Stage II | 118 | 2014 | 26 | 26 | ENVIRONN | USPARTME. |
| Otage II | 1 | 2014 | 20 | 20 | AUG | ~ 1 16315 |
| | <u> </u> | | | | | |
| | | | | | SOUTHW! | ST DISTRICT |
| | | | | | TA | VIPA THICT |
| Total disposal unit acreage inc | | | Closure: 286 | | ng-Term Care: | 316 |
| Facility type: ⊠ (Check all that apply) □ | Class I Other: | | Class III | C&D Debris | Disposal | |
| II. TYPE OF FINANCIAL ASS | SURANCE I | OCUMENT (| Check type) | | | |
| ☐ Letter of Credit* | | | nce Certificate | □ Esc | row Account | |
| | | | m 29 (FA Def | erral) | | |
| ☐ Guarantee Bond* | | | und Agreement | | | |
| | ns that require | | by Trust Fund Agreemen | t | | |
| | • | | , | | | dia and Division |
| Northwest District Northe | ast District | Central District | Southwest District | South Distri | ct Sot | theast District |

Northwest District 160 Government Center Pensacola, FL 32502-5794 850-595-8360 Northeast District 7825 Baymeadows Way, Ste. B200 Jacksonville, FL 32255-7590 904-807-3300

Central District 3319 Maguire Blvd., Ste. 232 Orlando, FL 32803-3767 407-894-7555 Southwest District 13051 N. Telecom Pky. Temple Terrace, FL 33637 813-632-7600 South District 2295 Victoria Ave., Ste. 364 Fort Myers, FL 33901-3881 239-332-6975 Southeast District 400 N. Congress Ave., Ste. 200 West Palm Beach, FL 33401 561-681-6600

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, (F.A.C.) sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate ajustment below.

(b) Recalculated or New Cost Estimates

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business.

| The inflation factor is the result of also be obtained from the Solid W | | | | | |
|---|---|------------------------|-------------|---|---|
| This adjustment is based on th | e Department approved cl | osing cost estimate da | ited: | *************************************** | |
| Latest Department Approved Closing Cost Estimate: | Current Year Infla Factor, e.g. 1.0 | | | | justed Closing Estimate: |
| | × | | = | | |
| This adjustment is based on th | e Department approved lo | ng-term care cost esti | mate dated: | · · · · · · · · · · · · · · · · · · · | |
| Latest Department Approved Annual Long-Term Care Cost Estimate: | Current Year Infla Factor, e.g. 1.0 | | | Long-Teri | ijusted Annual m Care Cost imate: |
| | × | | = | | |
| Number of Years or | f Long Term Care Remaini | ng: | × | | |
| Inflation Adjusted | Long-Term Care Cost Es | stimate: | ; = | | |
| Signature by: | □ Owner/Operator | □ Engineer | (check what | applies) | |
| Sign | ature | | | Address | |
| Name | & Title | | City, S | State, Zip Code | |
| Da | ate | | E-N | lail Address | |
| Telephon | e Number | | | | |

IV. ESTIMATED CLOSING COST (check what applies)

- Notes: 1. Cost estimates for the time period when the extent and manner of landfill operation makes closing most exp
 - 2. Cost estimate must be certified by a professional engineer.
 - 3. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.
 - 4. In some cases, a price quote in support of individual item estimates may be required.

| | | Number | | |
|----------------------------------|--------------|--------------------|----------------------------|----------------|
| Description | Unit | of Units | Cost / Unit | Total Cost |
| 1. Proposed Monitoring Wells | (Do not incl | ude wells already | / in existence.) | |
| • | EA | | | |
| | | Subtotal F | Proposed Monitoring Wells: | |
| . Slope and Fill (bedding layer | between wast | te and barrier lay | er): | |
| Excavation | CY | | | |
| Placement and Spreading | CY | 462,000 | \$1.88 | \$868,560.00 |
| Compaction | CY | 462,000 | \$0.64 | \$295,680.00 |
| Off-Site Material | CY | 462,000 | \$2.00 | \$924,000.00 |
| Delivery | CY | 462,000 | \$2.00 | \$924,000.00 |
| | | | Subtotal Slope and Fill: | \$3,012,240.00 |
| . Cover Material (Barrier Layer) | : • | | | |
| Off-Site Clay | CY | | | |
| Synthetics - 40 mil | SY | 1,384,2 | \$4.05 | \$5,606,172.00 |
| Synthetics - GCL | SY | | | |
| Synthetics - Geonet | SY | 1,384,2 | \$7.20 | \$9,966,528.00 |
| Synthetics - Other (explain) | | | . | |
| | | | Subtotal Cover Material: | \$15,572,700.0 |
| . Top Soil Cover: | - | | | |
| Off-Site Material | CY | 923,000 | \$2.00 | \$1,846,000.00 |
| Delivery | CY | 923,000 | \$2.00 | \$1,846,000.00 |
| Spread | CY | 923,000 | \$1.88 | \$1,735,240.00 |
| | | | Subtotal Top Soil Cover: | \$5,427,240.00 |
| . Vegetative Layer | | | | |
| Sodding | SY | 1,384,2 | \$1 .50 | \$2,076,360.00 |
| Hydroseeding | AC | | | |
| Fertilizer | AC | | | |
| Mulch | AC | | | |
| Other (explain) | <u> </u> | | | |
| | | | Subtotal Vegetative Layer: | \$2,076,360.00 |
| . Stormwater Control System: | | | | |
| Earthwork | CY | <u></u> | | |
| Grading | SY | | | |
| Piping | LF | | - | |
| Ditches | LF | 18,900 | \$65.00 | \$1,228,500.0 |
| Berms | LF | | | |
| Control Structures | EA | 216 | \$2,400.00 | \$518,400.00 |
| Other (explain) | | | | |
| | | Subtotal | Stormwater Control System: | \$1,746,900.00 |

| Description | | Unit | | Number of Units | | Cost / Unit | Total Cost |
|--------------------------|-------------------|----------|-----------------|-----------------|-----------|---------------------------------------|-------------------------|
| 7. Passive Gas Contro | l: | | | | | | |
| Wells | | EA | | | | | |
| Pipe and Fittings | | LF | | | - | | |
| Monitoring Probes | | EA | | | - | | |
| NSPS/Title V requi | rements | LS | | 1 . | • | | 7- 7- 4 |
| | | | | | Subtota | l Passive Gas Control: | |
| 8. Active Gas Extraction | on Control: | | | | | | |
| Traps | | EΑ | | | | | |
| Sumps | | EA | | | | · · · · · · · · · · · · · · · · · · · | |
| Flare Assembly | | EA | | | | | |
| Flame Arrestor | | EA | | | _ | · · · | |
| Mist Eliminator | | EA | | | _ | · | |
| Flow Meter | | EA | | | _ | <u> </u> | |
| Blowers | | EA | | | _ | <u> </u> | <u> </u> |
| Collection System | | LF | | | | · | 47 |
| Other (explain) | · · · · · · · · · | | | 1 | | \$3,618,140.0 | \$3,618,140.00 |
| | | | | Subtotal | Active (| Gas Extraction Control: | \$3,618,140.00 |
| 9. Security System: | | | | | | | |
| Fencing | | LF | | | _ | <u> </u> | · |
| Gate(s) | | EA | | | | | |
| Sign(s) | | EA | | | | | |
| | | | | | Su | btotal Security System: | |
| 10. Engineering: | | * * | | | | | : 11 |
| Closure Plan Repo | ort | LS | | 1 | | \$210,000.00 | \$210,000.00 |
| Certified Engineering | Drawings | LS | | 1 | | \$265,000.00 | \$265,000.00 |
| NSPS/Title V Air P | ermit | LS | | 1 | | \$40,000.00 | \$40,000.00 |
| Final Survey | | LS | - | | | \$25,000.00 | \$25,000.00 |
| Certification of Clos | sure | LS | | 1 | | \$15,000.00 | \$15,000.00 |
| Other (explain) | | | | | | | |
| | | | | | | Subtotal Engineering: | \$555,000.00 |
| Description | Hours | | ost / Ho | | Hours | Cost / Hour | Total Cost |
| 11. Professional Service | | | JUST / HU | our | Hours | COST / HOUI | Total Cost |
| Totossional octivit | | : Manage | ment | | Oua | lity Assurance | |
| P.E. Supervisor | 400 | . manage | \$150 23 | | 400 | \$150 E | \$120,000.00 |
| On-Site Engineer | 2,000 | | \$120 | | 2,000 | \$120 E K | \$480,000.00 |
| Office Engineer | 400 | | \$100 | | 400 | \$100 E K | \$80,000.00 |
| On-Site Technician | | | | | 2,000 | \$80.0 | \$160,000.00 |
| Other (explain) | | | | | , | | \$100,000.00 |
| Caro. (Oxpiani) | | | | | | | |
| ···· | | | | | | | |
| | | | | Number | | | |
| Description | | Unit | | of Units | i | Cost / Unit | Total Cost |
| Quality Assurance | Testing | LS | | 1 | | \$115,469.00 | \$115,469.00 |
| | | | | | 0.4-4-4-1 | Professional Services: | \$955,469.00 |

| Subtotal of 1-11 Above: _ | \$32,964,049.00 |
|---|-----------------|
| 12. Contingency 5 % of Subtotal of 1-11 Above | \$1,648,202.45 |
| Subtotal Contingency: | \$1,648,202.45 |
| Estimated Closing Cost Subtotal: | \$34,612,251.45 |
| Description | Total Cost |
| 13. Site Specific Costs | ; |
| Mobilization | \$500,000.00 |
| Waste Tire Facility | \$33,030.00 |
| Materials Recovery Facility | |
| Special Wastes | \$87,000.00 |
| Leachate Management System Modification | |
| Other (explain) (Year 2011 inflation factor | \$352,272.81 |
| at 1% of previous estimate3 Subtotal Site Specific Costs: | \$972,302.81 |

TOTAL ESTIMATED CLOSING COSTS (\$): (\$35,584,554.26

| V. ANNUAL COST FOR L | ONG-TERM CARE | | | \$ |
|--|---------------------------------|---------------------------------------|---------------------------------------|-----------------|
| See 62-701.600(1)a.1., 62-70 | | | | |
| certified closed and Departme (Check Term Length) 5 Year | | | • | ears remaining. |
| · · | stimates must be certified by a | · · | | |
| | | | | aarkot valua |
| | stimates based on third party | • | | laiket value. |
| | e cases, a price quote in supp | | | |
| All items must be address | sed. Attach a detailed exp | lanation for all entri | es left blank. | |
| | Sampling | | • | |
| | Frequency | Number of | (Cost / Well) / | * |
| Description | (Events / Year) | Wells | Event | Annual Cost |
| | | | | |
| 1. Groundwater Monitorin | |)(a)] | | |
| Monthly | 12 | | | <u> </u> |
| Quarterly | 4 | | | <u> </u> |
| Semi-Annually | 2 | | | |
| Annually | 1 | | | <u> </u> |
| | | Subtotal | Groundwater Monitoring: | |
| 2. Surface Water Monitor | ring [62-701.510(4), and (8 | B)(b)] | | |
| Monthly | 12 | | | |
| Quarterly | 4 | , | | |
| Semi-Annually | 2 | · · · · · · · · · · · · · · · · · · · | | |
| Annually | 1 | | | |
| | | Subtotal S | Surface Water Monitoring: | |
| 3. Gas Monitoring [62-701 | 1.400(10)] | | | |
| Monthly | 12 | | | |
| Quarterly | 4 | | · · · · · · · · · · · · · · · · · · · | |
| Semi-Annually | 2. | · | | |
| Annually | 1 | | · . | |
| · | | - | Subtotal Gas Monitoring: | 7 |
| 4. Leachate Monitoring [| 62-701.510(5), (6)(b) and | 62-701.510(8)c] | | |
| Monthly | 12 | | , * .* | |
| Quarterly | 4 | | | |
| Semi-Annually | 2 | | | |
| Annually | 1 | . | | |
| Other (explain) | | | · · | |
| | | Subt | total Leachate Monitoring: | |
| | | Number of | | |
| Description | Unit | Units / Year | Cost / Unit | Annual Cost |
| 5. Leachate Collection/T | | | | |
| Maintenance | | | | |
| Collection Pipes | LF | | | |
| Sumps, Traps | EA | | | |
| Lift Stations | EA | | | |
| Cleaning | LS | 1 | | - |
| Tanke | EΛ | _ | · | |

| Description | Unit | Number of Units / Year | Cost / Unit | Annual Cost |
|------------------------------|-----------------|---------------------------|--------------------------|---------------------------------------|
| 5. (continued) | | | | |
| <u>Impoundments</u> | | | | |
| Liner Repair | SY | | | |
| Sludge Removal | CY | | | |
| Aeration Systems | | | | |
| Floating Aerators | EA | | | |
| Spray Aerators | EA | <u></u> | | |
| <u>Disposal</u> | | | | |
| Off-site (Includes | 1000 gallon | | | |
| transportation and disposal) | _ | Subtotal Leachat | e Collection / Treatment | |
| | | | Systems Maintenance: | |
| 6. Groundwater Monitoring We | II Maintenance | | | |
| Monitoring Wells | LF | | | |
| Replacement | EA | | | |
| Abandonment | EA | | | |
| | Subto | otal Groundwater Monit | oring Well Maintenance: | |
| 7. Gas System Maintenance | | | | |
| Piping, Vents | LF | | | |
| Blowers | EA | | | |
| Flaring Units | EA | | | |
| Meters, Valves | EA | | | |
| Compressors | EA | | | |
| Flame Arrestors | EA | | | |
| Operation | LS | 1 | 194 | |
| | | Subtotal G | as System Maintenance: | |
| 8. Landscape Maintenance | | | | · · · · · · · · · · · · · · · · · · · |
| Mowing | AC | | | |
| Fertilizer | AC | <u>.</u> | | |
| | , | Subtotal L | andscape Maintenance: | |
| 9. Erosion Control and Cover | Maintenance | | | |
| Sodding | SY | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Regrading | AC | | | |
| Liner Repair | SY | | | * |
| Clay | CY | | | |
| · | Su | ubtotal Erosion Control | and Cover Maintenance: | |
| 10. Storm Water Management | System Maintena | ance | • . | |
| Conveyance Maintenance | LS | 1 | | |
| | | torm Water Manageme | nt System Maintenance: | . 121 |
| 11. Security System Maintena | | - | | |
| Fences | LS | 1 | | : |
| Gate(s) | EA | | , | |
| Sign(s) | EA | | | |
| | | Subtotal Secur | ity System Maintenance: | |

| | | Number of | | |
|---------------------------------------|--------------|----------------------------|---------------------------|--|
| Description | Unit | Units / Year | Cost / Unit | Annual Cost |
| 12. Utilities | LS | 1 | | |
| | | | Subtotal Utilities: | |
| 13. Leachate Collection/Treatm | nent Systems | Operation | · · | * |
| <u>Operation</u> | | | | |
| P.E. Supervisor | HR | | · | |
| On-Site Engineer | HR | · | | |
| Office Engineer | HR | | | |
| OnSite Technician | HR | | | |
| Materials | LS | | | |
| | Subtotal | Leachate Collection/Treatm | ent Systems Operation: | |
| 14. Administrative | | | • | |
| P.E. Supervisor | HR | | | on the second of |
| On-Site Engineer | HR | | | |
| Office Engineer | HR | | | |
| OnSite Technician | HR | | | |
| Other | | · | | |
| | | | Subtotal Administrative: | |
| | | | • | |
| | | S | ubtotal of 1-14 Above: | · · |
| | | | | |
| 15. Contingency | | % of Subtotal of 1-14 Ab | pove | |
| | | | Subtotal Contingency: | |
| | | | · | |
| | | Number of | | |
| Description | Unit | Units / Year | Cost / Unit | Annual Cost |
| 16. Site Specific Costs | | | | |
| Approved long-term care cost per year | 1 | 1 | \$447,322.68 | \$447,322.68 |
| See FDEP letter dated April 21, 2011 | | | | |
| | | | | |
| | | Subt | otal Site Specific Costs: | \$447,322.68 |
| | | | | 446 |
| | | ANNUAL LONG-TERM C | ARE COST (\$ / YEAR): | \$447,322.68 |
| | | | | |
| | | Number of Ye | ears of Long-Term Care: | 30 |
| | | | FEDW 04 DE 0007 (*) | |
| | | TOTAL LONG-1 | TERM CARE COST (\$): | \$13,419,680,32 |

VI. CERTIFICATION BY ENGINEER

This is to certify that the Cost Estimates pertaining to the engineering features of this solid waste management facility have been examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and/or long-term care of the facility and comply with the requirements of Rule 62-701.630 F.A.C. and all other Department of Ermonmental Protection rules, and statutes of the State of Florida. It is understood that the Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4); F.A.C.

Joseph L. Miller, Project Manager

Name and Title (please type)

August 10, 2011

Date

39177

Florida Registration Number (please affix seal)

ATKINS, 482 South Keller Road

Mailing Address

Orlando, Florida 32810

City, State, Zip Code

joseph.miller@atkinsglobal.com

E-Mail address (if available)

407-806-4153

Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR

1)m(7.(-

Signature of Applicant

Daniel T. Gray, Director

Name and Title (please type)

dan.gray@mymanatee.org

E-Mail address (if available)

4410 66th Street West

Mailing Address

Bradenton, FL 34210

City, State, Zip Code

941-792-8811

Telephone Number



Florida Department of Environmental Protection

Southwest District 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926 Telephone: 813-632-7600 Rick Scott Governor

Jennifer Carroll Lt. Governor

Herschel T. Vinyard Jr. Secretary

Transmitted electronically only: dan.gray@mymanatee.org

Mr. Daniel T. Gray, Director Utilities Department Manatee County Utilities 4410 66th St. West Bradenton, FL 34210 CApril 21, 20117

RE:

Lena Road Landfill

Financial Assurance Cost Estimates Pending Permit No.: 39884-018-SO/01 Manatee County, WACS No. 44795

Dear Mr. Gray:

This letter is to acknowledge receipt of the inflation-adjusted cost estimates dated February 14, 2011 (received February 16, 2011), prepared by PBS&J, for closure and long-term care of the Lena Road Landfill. The cost estimates received on February 16, 2011 (total for closure \$35,579,554.26 and long-term care \$447,322.68/year x 30 years= \$13,419,680.32), are **APPROVED for 2011**. The next annual update (revised or inflation-adjusted estimates) is due no later than **March 1, 2012**.

A copy of these estimates will be forwarded to Mr. Fred Wick, Solid Waste Section, FDEP, 2600 Blair Stone Road, Tallahassee, Florida 32399-2407. Please work with him directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C. If you have any questions, you may contact me at (813) 632-7600 ext. 385.

Sincerely

Steven G. Morgan Solid Waste Section

Southwest District

sgm cc:

Mike Gore, Manatee County Solid Waste Operations Manager, <u>mike.gore@mymanatee.org</u>
Mr. Joseph Miller, P.E., PBS&J, <u>ILMiller@pbsj.com</u>
Fred Wick/Frank Hornbrook, FDEP, Tallahassee (via email)
Susan Pelz, P.E., FDEP Tampa (via email)

- quantity of waste generated
- location of disposal site
- proximity to a permitted hazardous waste landfill or recycling facility
- state and local taxes

Negotiate with hazardous waste brokers, transporters, waste management companies, and disposal sites to obtain lowest fees.

(Recycling Costs

Recycling costs for fluorescent lamps are typically calculated by linear foot. HID lamp recycling costs are typically quoted on a per-lamp basis.

- fluorescent recycling costs range from \$0.06/ft to \$0.15/ft
- average cost is \$0.10/ft
- approximately \$0.40 per F40 lamp
- HID recycling costs range from \$1.25/lamp to \$4.50/lamp
- average cost is \$2.50/lamp

Note: Estimated costs do not include packaging, transportation, or profile fees.



Chemical or Hazardous Waste Landfill Costs

(Disposal costs for fluorescent lamps at a hazardous waste-landfill range from 25-50 cents per 4-foot tube, not including costs for packaging, transportation, or profile fees

Packing Lamps for Disposal To prevent used fluorescent and HID lamps from breaking, lamps should be properly packed for storage and transportation. When lamps are removed and replaced with new lamps (e.g., during group relamping), the used lamps should be packed in the cardboard boxes that contained the replacement lamps. The boxes containing the hazardous waste must be properly labeled. Preprinted labels or rubber stamps that meet Department of Transportation regulations are recommended for high-volume disposal.

Storing Lamps for Disposal RCRA sets storage requirements for generators depending on how much hazardous waste they dispose each month.

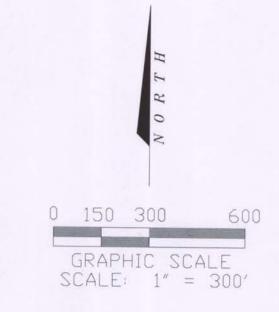
- Small quantity generators dispose 100 to 1,000 kg of hazardous waste per month (which roughly corresponds to 350 to 3,600 four foot lamps), and can store hazardous waste up to 180 days.
- Large quantity generators dispose over 1,000 kg of hazardous waste per month (more than 3,600 four foot lamps), and can store hazardous waste up to 90
- Conditionally exempt small quantity generators dispose 100 kg or less of hazardous waste per month and are exempt from RCRA storage requirements.

In addition to proper packing, care should be taken when stacking the boxes of used lamps for storage to avoid crushing the bottom boxes under the weight of the boxes on top. If you work with a contractor to maintain your lighting system, you may want to specify a safe storage arrangement in your contract. This approach ensures that your used lamps are not accidentally broken or crushed before they are sent to a disposal facility.

3000 tube x \$0.50/tube = \$1,500
Packasing and transportation = \$3,500
\$5,000

8/10/2011





AERIAL PHOTOGRAPH PROVIDED BY:
I.F. ROOKS & ASSOCIATES, INC.
106 N.W. DRANE ST. PLANT CITY, FL 33566 (813) 752-2113

DATE FLOWN: JANUARY 25, 2010

REPLACE 2009 AERIAL PHOTOGRAPHY WITH 2010 AERIAL PHOTOGRAPHY

C-2

5300 West Cypress Street Suite 200 Tampa FL 33607 FBPR Certificate of Authorization No.: 24

MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS LENA ROAD LANDFILL FILL SEQUENCE PLAN

GENERAL SITE PLAN

ORIGINAL NOV. 2009
REVISIONS:
APRIL 2010

JOB NO. 100008517 DESIGN RGC/JLM CHECKED_

SHEET