

# PASCOCCUNTY FLORIDA

Departm.
SOUTHWEST DISTRICT

DADE CITY
LAND O'LAKES
NEW PORT RICHEY
FAX

(352)521-4274 (813)996-7341 (813)856-0119 (813)856-0007 EST DISTRICT PASCO COUNTY SOLID WASTE
RESOURCE RECOVERY FACILITY

14230 HAYS ROAD SPRING HILL, FL 34610

December 19, 1997

Mr. Peter H. Burghardt
Environmental Specialist
Division of Water Facilities
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619-8318

RE: Proposed Treatment and Disposal of Excess Ash Monofill Leachate at Regional Wastewater Treatment Plants (WWTP).

Dear Mr. Brughardt:

The transport of leachate from Ash Disposal Units A-1 and A-2 was temporarily suspended. I am pleased to report that leachate transport has once again resumed.

From December 10, 1997 through December 19, 1997 - 90,000 gallons were transported to New Port Richey WWTP; December 19, 1997 - 12,000 gallons were transported to Tampa WWTP.

The New Port Richey WWTP is receiving 12,000 gallons a day; Tampa WWTP is receiving 12,000 gallons a day.

We have planned seven day deliveries, except December 25, 1997 and January 1, 1998. We anticipate increasing transport to Tampa WWTP sometime in January, 1998. I will keep you informed.

Very truly yours,

Vincent Mannella, P.E.

VM/drc

Joseph G. Amato, P.E. II, Division of Water Facilities, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318 Robert J. Butera, P.E. III, Division of Waste Management, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Mr. Peter H. Burghardt December 19, 1997

John Daily, Industrial Wastewater Supervisor, City of Tampa Wastewater Treatment Plant, 2700 Maritime Boulevard, Tampa, FL 33605 Kim B. Ford, P.E. I, Division of Waste Management, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Richard D. Garrity, Ph.D., Director of District Management. Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator

Ronald J. Walker, Solid Waste Superintendent

Kin,

I didn't read

this as throughly as

I should that I

see no condition

relating to every 3 hours

for a Tarker load.



### CITY OF TAMPA

Department of Sanitary Sewers

Howard F. Curren
Advanced Wastewater Treatment Plant

Mr. Doug Bramlett
Pasco County Utilities Services Branch
Public Works/Utilities Bldg., S-213
7530 Little Rd.
New Port Richey, FL 34654

DEC 2 6 1997

RECEIVED

1/3

December 10, 1997

Pl-please share?

Re: Issuance of a Temporary Waste Hauler Discharge Permit to Pasco County Utilities Services Branch, by the City of Tampa, Department of Sanitary Sewers.

#### Dear Mr. Bramlett:

The enclosed issued permit, No. 11-21-97-A, governs the discharge of hauled wastewater at a location to be determined at the City of Tampa Howard F. Curren Advanced Wastewater Treatment Plant. All discharges from your vehicles and actions and reports relating thereto shall be in accordance with the terms and conditions of this permit.

The discharge permit is attached to this letter. I am enclosing two copies of the front page of the discharge permit with a block reserved for your signature indicating acceptance of the limitations and conditions specified in this permit. Please sign both copies of the front page of the permit and return one of the signed copies to John M. Daily, City of Tampa, Industrial Waste Section, 2700 Maritime Blvd., Tampa, FL 33605.

If you have any questions about this permit please do not hesitate to contact John M. Daily at 247-3451.

Sincerely,

Ralph L. Metcalf II, P.E.

Director

Department of Sanitary Sewers

RLM:jmd

xc: Richard D. Garrity, Ph.D., FDEP

2700 Maritime Boulevard • Tampa, Florida 33605 • 813/247-3451 • Fax: 813/248-5269

# CITY OF TAMPA DEPARTMENT OF SANITARY SEWERS TEMPORARY WASTE HAULER DISCHARGE PERMIT

Facility Name	Pasco County Utilities Serv		Permit No.	11-21-97-A	
	·				
		en .			
	Acceptan	ce of Permit	:		
Paso	co County Utilities Services Bran	nch	8	accepts the co	nditions of the
	(name of facility)				
permit and agrees	to meet the conditions herein.				
Permit period:	December 1, 1997 t	hrough	May 31, 1	998	
		(A 1)			
	Ву	(aighatura	us Will	(24()	197
		(signature)	,	(date)	
	*Name	Dou	ug Bramlett		
	Title	Assistant (	County Admir	nistrator	<del></del>

<sup>\*</sup> Must be an authorized representative of Pasco County.

Facility Name	Pasco County Utilities Services Branch	Permit No. <u>11-21-97-A</u>			
	Acceptance of Permit				
Paso	co County Utilities Services Branch	accepts the conditions of the			
	(name of facility)				
permit and agrees	to meet the conditions herein.				
	• •				
<b>.</b>	Dec. 1 . 1 1007 4band 14au 21	1009			
Permit period:	December 1, 1997 through May 31,	1998			
	By(signature)				
	(signature)	(date)			
	*NameDoug Bramlett				
	Title Assistant County Adm	inistrator			

<sup>\*</sup> Must be an authorized representative of Pasco County.

#### City of Tampa

Department of Sanitary Sewers

Waste Hauler Discharge Permit

#### Cover Page

Permit No. 11-21-97-A

In accordance with the provisions of Section 26-122 of the City of Tampa Code:

Facility Name	Pasco County Utilities Services Branch	· · · · · · · · · · · · · · · · · · ·
Address	Public Works/Utilities Bldg., S-213	and the same of th
	7530 Little Rd., New Port Richey, FL 34654	<del></del>
Telephone Number_	813-847-8145	
Name of Applicant_	Doug Bramlett	
located at 2700 Maritime Bl Compliance with this permit discharge regulations, standard	orarily discharge hauled wastewater at the City of T lvd., Tampa, FL 33605 in accordance with the cost does not relieve the permittee of its obligation to discorrequirements under local, State, and Federal law aws that may become effective during the term of the	onditions set forth in this permit comply with any or all applicable is, including any such regulations.
Noncompliance with any term ordinance.	or condition of this permit shall constitute a violatio	n of the City of Tampa sewer use
This permit shall become effe and shall expire at midnight o	December 1, 1997  May 31, 1998	

Department of Sanitary Sewers

#### PART 1 - APPLICABLE EFFLUENT LIMITATIONS

#### **SECTION 1 - DISCHARGE REQUIREMENTS**

- A. The discharge of all hauled wastes must be performed at a location to be determined at the Howard F. Curren Advanced Wastewater Treatment Plant (HFCAWTP). Discharge to the City of Tampa sewer system at any other location is prohibited.
- B. Hauled wastes are subject to sampling by the Industrial Waste Section for billing and compliance purposes. Bills will be sent by our Customer Service division on a monthly basis. The hauler may be required to suspend the discharging of wastes until the analyses are complete. The City of Tampa reserves the right to refuse permission to dump any load.
- C. Only ash leachate generated at the Resource Recovery Site located on Hays Road in Spring Hill can be discharged to the HFCAWTP facility.
- D. All hauling must be conducted using pre-cleaned tank trailers. All hauling companies must be permitted by the Industrial Waste Section.
- E. The discharge will be limited to 60,000 gallons per day for a period not to exceed 120 days.
- F. The dumping must take place in a clean and orderly manner. Under no circumstances should any wastes be allowed to leak or spill onto the roadway. Each hauler is responsible for providing all fittings, hoses, etc. necessary to discharge directly to an 8" drain.
- G. Each driver before discharging wastes shall sign a "Wastewater Discharge Invoice" certifying the quantity of leachate being discharged. Each driver must also provide a manifest signed by the Authorized Representative of Pasco County certifying the source of the wastes.
- H. The disposal charges will be \$4.13 per thousand gallons, plus a \$7.00 per load service charge. Surcharges will be added for the disposal of extra strength wastes. The surcharges will be \$0.201 per pound of Biochemical Oxygen Demand (BOD) if the concentration of any wastes exceeds 230 mg/l., \$0.286 per pound of Total Suspended Solids (TSS) if the concentration of any wastes exceeds 190 mg/l, and \$1.732 per pound of Total Kjeldahl Nitrogen (TKN) if the concentration of any wastes exceeds 30.0 mg/l. Surcharges are subject to change.
- I. The Industrial Waste Section shall be notified of any changes involving address, phone, contact person, etc. within seven days of the change.
- J. Permits are not transferable.
- K. Safe vehicle operation on the plant site is expected.

L. Violation of any of these conditions could result in the loss of dumping privileges as well as fines as outlined in Chapter 26 of the City of Tampa Code.

#### **SECTION 2 - SPECIFIC LIMITATIONS**

- A. Any waste that may cause pass through of pollutants or interference with the wastewater treatment plant operations or that violates Federal, State, or local restrictions shall not be discharged to the wastewater plant.
- B. Any waste transported from an industry subject to categorical pretreatment standards must meet the applicable Federal categorical standards. Authorization by the City of Tampa, Industrial Waste Section prior to dumping must be obtained for the hauling of categorical wastes.
- C. It shall be unlawful for any person to discharge or deposit any of the following materials, waste materials, wastes, gases or liquids into the dump pit:
  - 1. Any pollutant which creates a fire or explosion hazard in the POTW, including, but not limited to, wastewaters with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21.
  - 2. Any water or wastes having a pH lower than 6.0 or higher that 11.0, or having any other corrosive properties capable of either causing damage or creating a hazard to structures, equipment and/or personnel of the department. A variance to the upper pH limit may be granted if it has been determined to be beneficial to the department. An application for the variance must be made in writing to the Director. The variance may be terminated at any time it is determined the discharge is causing damage or creating a hazard to structures, equipment and/or personnel of the department.
  - 3. Any solid or viscous substance in quantities capable of causing obstruction to flow in sewers or resulting in interference with the proper operation of the treatment works, including but not limited to ashes, cinders, ceramic wastes, sand, mud, straw, shavings, thread, glass, rags, metal, feathers, bones, tar, plastics, wood, paunch manure, insulation materials, fibers of any kind, stock or poultry feed, processed grains, viscera or other fleshy particles from meat, poultry or seafood processing or packing plants, lime or similar sludges.
  - 4. Any pollutants, including oxygen-demanding pollutants (BOD), etc., discharged into any treatment works in such a flow rate or strength as to cause interference with the operation or performance of the treatment works.
  - 5. Any waste, liquid or vapor at such a temperature as will create hazardous conditions within, or cause deterioration of, the sanitary sewers, or inhibit the biological activity in the treatment works resulting in interference, but in no case heat in such quantities that the temperature of the influent at the treatment works exceeds forty (40) degrees Centigrade (one hundred four (104) degrees Fahrenheit). Unless a specific temperature is a condition of the user's wastewater discharge permit, no user shall discharge effluent into any sewer line of the treatment works exceeding sixty (60) degrees Centigrade (one hundred-forty (140) degrees Fahrenheit).

- 6. Any water or waste containing fats, wax, grease or oil, whether or not emulsified, in excess of one hundred (100) milligrams per liter by weight, which may solidify or become viscous at temperatures between forty (40) and one hundred-forty (140) degrees Fahrenheit.
- 7. Wastewater from industrial plants containing floatable oils, fat or grease.
- 8. Any garbage that has not been properly shredded.
- 9. Any waters or wastes having a color which is not removable by the existing wastewater treatment plant processes and which causes the plant effluent to exceed color requirements for discharge to the receiving waters.
- 10. Any gasoline, benzene, naphtha, kerosene, toluene, xylene or other hydrocarbon solvents or oils, or other flammable or explosive liquids, solids or gases or fuel tank bottom waters or fuel contaminated ground water.
- 11. Any noxious of malodorous gas or any substance capable of creating a public nuisance or hazard to life or preventing entry of workmen into the treatment plant or collection system for maintenance, inspection or repair.
- 12. Any unpolluted wastewater of stormwater runoff or ground water.
- 13. Any contents removed from septic tanks, grease traps, or food services separators.
- 14. Any toxic or poisonous substance or any other materials in sufficient quantity, either singly or by interaction with other pollutants, to injure or interfere with the wastewater treatment processes, or to contribute a hazard to humans or animals, or to cause a violation of the water quality standards for the stream or watercourse receiving the effluent from department operated treatment works, or cause sludge products to be unsuitable for reclamation and reuse or to exceed the limitations set forth in a pretreatment standard. A toxic pollutant shall include, but not be limited to, any pollutant identified pursuant to Section 307(a) of the Clean Water Act.
- 15. Permissible concentrations of heavy metals and other incompatible pollutants in the discharge of any user of the treatment works will be evaluated and revised from time to time. Such limitations will recognize the total quantity of each such material received at the treatment works, the tolerance of the treatment processes thereto, the efficiency in removal of the material and the appropriate effluent or stream standards adopted by the state or federal regulatory agencies.
- 16. Material considered a hazardous waste under the Resource Conservation and Recovery Act (RCRA).

17. The following maximum daily concentrations and monthly averages of certain metals are hereby established:

Metal	Daily Maximum mg/l	Monthly Average mg/l		
Arsenic as As	0.10	0.05		
Barium as Ba	10.0	5.0		
Cadmium as Cd	0.4	0.2		
Chromium as Cr (Total)	5.0	2.5		
Copper as Cu	3.6	1.8		
Lead as Pb	0.6	0.3		
Manganese as Mn	2.0	1.0		
Mercury as Hg	0.010	0.005		
Nickel as Ni	3.6	1.8		
Selenium as Se	0.04	0.02		
Silver as Ag	1.0	0.5		
Zinc as Zn	3.6	1.8		

- 18. Cyanide or cyanogen compounds capable of liberating hydrocyanic gas on acidification in excess of one (1) mg/l by weight as CN are prohibited.
- 19. Any radioactive isotope in concentration greater than that permitted by the latest effective regulations promulgated under applicable federal or state law.
- 20. Any pollutant, except in compliance with federal standards promulgated pursuant to the Clean Water Act, and any more stringent state or local standards.

#### PART 2 - MONITORING AND REPORTING REQUIREMENTS

#### **SECTION 1 - MONITORING REQUIREMENTS**

A. During the period of this permit when wastes are hauled for disposal at the HFCAWTP, the permittee shall monitor the leachate at the Resource Recovery Site for the following:

<u>Parameter</u>	Location	Frequency	Sample Type
pН	Resource Recovery Site	Weekly	Grab
BOD, mg/l	Resource Recovery Site	Weekly	Grab
TSS, mg/l	Resource Recovery Site	Weekly	Grab
TKN, mg/l	Resource Recovery Site	Weekly	Grab
Chloride, mg/l	Resource Recovery Site	Weekly	Grab
Arsenic, mg/l	Resource Recovery Site	Weekly	Grab
Cadmium, mg/l	Resource Recovery Site	Weekly	Grab
Chromium, mg/l	Resource Recovery Site	Weekly	Grab
Copper, mg/l	Resource Recovery Site	Weekly	Grab
Lead, mg/l	Resource Recovery Site	Weekly	Grab
Nickel, mg/l	Resource Recovery Site	Weekly	Grab
Selenium, mg/l	Resource Recovery Site	Weekly	Grab
Silver, mg/l	Resource Recovery Site	Weekly	Grab
Zinc, mg/l	Resource Recovery Site	Weekly	Grab

- B. All sampling, handling, preservation, and analyses of collected samples shall be performed in accordance with Chapter 17-160 F.A.C. unless specified otherwise in this section of the permit. Laboratory service may be provided by qualified in-house personnel, provided the laboratory is HRS certified for the parameters tested and has an approved DEP QA/QC plan for all work reported to the City; or by contract with an HRS certified external laboratory.
- C. See PART 4 SECTION 4 Paragraph A of this permit regarding sampling requirements.

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Permit No. 11-21-97-A

#### **SECTION 2 - REPORTING REQUIREMENTS**

#### A. Monitoring Reports

- 1. Analytical monitoring results obtained shall be summarized and reported within 30 days following the sampling date. The report shall include a copy of all analytical results, and the certification statement established in PART 4 SECTION 4 (E) of this permit.
- B. Pursuant to the reporting requirements of 62-625.600(6)(e) F.A.C., the results of all monitoring performed more frequently than required by this permit, using test procedures approved under PART 2 SECTION 1 (B), shall be submitted with the report.
- C. When a self-monitoring report shows any violation of the applicable standards included in PART 1 of this permit, the permittee <u>must</u> resample and submit both results within 30 days of receiving original sample results, except the permittee is not required to resample if:
  - (1) The Control Authority performs sampling at the permittee at a frequency of at least once per month, or
  - (2) The Control Authority performs sampling at the permittee between the time when the permittee performs its initial sampling and the time when the permittee receives the results of this sampling.

The permittee <u>must</u> notify the Industrial Waste Division within 24 hours of receipt of monitoring results if the results indicate any violation of applicable standards.

D. Signatory requirements are established in PART 4 SECTION 4 (E) of this permit.

#### E. Accidental Discharge Report

- 1. The permittee shall notify the City of Tampa, Industrial Waste Section, immediately upon its having knowledge of the occurrence of an accidental discharge of substances regulated by this permit or prohibited by Chapter 26, City of Tampa Code. At all times the City of Tampa, Industrial Waste Section shall be notified by telephone at (813) 247-3451. The notification shall include location of discharge, date and time thereof, type of waste, including concentration and volume, and corrective actions taken.
- 2. Within five days following such notice, the permittee shall submit to the City of Tampa AWTP a detailed written report. The report shall specify:
  - a. Description and cause of the upset, slug or accidental discharge, the cause thereof, and the impact on the permittee's compliance status. The description should also include location of discharge, type, concentration and volume of waste.

- b. Duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur.
- c. All steps taken or to be taken to reduce, eliminate, and prevent recurrence of such an upset, slug, accidental discharge, or other conditions of non-compliance.
- d. All reports required of this permit shall be submitted to:

City of Tampa Industrial Waste Section 2700 Maritime Blvd. Tampa, FL 33605.

#### PART 3 - SPECIAL CONDITIONS / COMPLIANCE SCHEDULES

- 1. The City of Tampa reserves the right to limit or suspend the discharge of wastes or to immediately terminate this permit in the event the HFCAWTP experiences interference or any other treatment problems during the period of this permit.
- 2. The City of Tampa reserves the right to limit or suspend the discharge of wastes or to adjust disposal charges in the event the treatment of sulfide compounds in the ash leachate creates odor abatement problems, or if the treatment of chemical oxygen demand in the ash leachate creates excess oxygen demand.

Facility Name	Pasco County	<u>Utilities</u>	Services Branch	
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Permit No. 11-21-97-A

#### **PART 4 - STANDARD CONDITIONS**

#### **SECTION 1 - DEFINITIONS**

- A. AWTP Advanced Wastewater Treatment Plant
- B. Composite sample shall mean a minimum of eight (8) grab samples collected at equally spaced one (1) hour intervals, per operating shift, and proportioned according to flow. The use of a properly operated automatic composite sampler is acceptable.
- C. <u>Daily maximum</u> the maximum allowable discharge concentration of pollutant during a calendar day.
- D. <u>Grab sample</u> for monitoring requirements, is defined as an individual sample which is taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time. Daily pH monitoring may be performed by either grab sample or continuous pH electrometric probe monitoring.
- E. Monthly average the maximum allowable value for the average of all observations obtained during one calendar month.
- F. POTW Publicly Owned Treatment Works

#### **SECTION 2 - GENERAL CONDITIONS**

#### A. Duty to Comply

The permittee must comply with all conditions of this permit. Failure to comply with the requirements may be grounds for administrative action, or enforcement proceedings including civil or criminal penalties, injunctive relief and summary abatements.

#### B. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment, public health or POTW resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

#### C. Permit Action

This permit may be modified, revoked and reissued, or terminated for causes including, but not limited to, the following:

- Violation of any terms or conditions of this permit;
- Transfer of ownership;
- Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- A change in any condition of the discharge that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- Information indicating that the permitted discharge poses a threat to human health or welfare, or property real;
- Upon request of the permittee, provided such request does not create a violation of any existing applicable requirements, standards, laws, or rules and regulations;
- Material or substantial alterations or additions to the dischargers operation that adversely impact the wastewater discharge and which were not in existence as of the date of the issued permit;
- To incorporate any new or revised Federal, State, or City pretreatment standards or requirements, to protect the operation of the treatment plant;
- Wastewater discharge volumes that have an average change of 20% or more during the six month period.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

#### D. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

#### E. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

#### F. Limitation on Permit Transfer

Wastewater discharge permits are issued to a specific user for a specific operation and are not assignable or transferable to any other user. The permittee must inform the City of Tampa at least thirty (30) days in advance of all proposed owner/operator transfers.

#### G. Dilution

No Permittee shall increase the use of potable or process water, or in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

#### H. Duty To Reapply

If the permittee desires to continue to discharge after the expiration of this permit, the permittee shall reapply on the application forms then in use at least ninety (90) days before this permit expires. Under no circumstances shall the permittee continue to discharge after the expiration of the permit, unless reapplication was submitted as required. Continued discharge under the conditions of the expired permit is authorized until the new permit is issued.

#### I. Personnel Safety

The permittee shall provide safe inspection conditions for city pretreatment program personnel and shall provide such personnel with all necessary safety information regarding the facility's safety policy pertaining to required personal safety gear.

#### **SECTION 3 - OPERATIONS AND MAINTENANCE OF POLLUTION CONTROLS**

#### A. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes but is not limited to: effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

Facility Name	Pasco County Utilities Services Branch	Permit No.	11-21-97-A
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#### B. Duty to Halt or Reduce Activity

Upon reduction, loss or failure of the pretreatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or all discharges or both until operation of the pretreatment facility is restored. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#### C. Bypass of Treatment Facilities

- 1. Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternative exists.
- 2. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation.

#### 3. Notification of bypass:

- Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, if possible at least ten days before the date of the bypass, to the City of Tampa AWTP (addresses specified in PART 2 SECTION 2 (E) of this permit).
- Unanticipated bypass. The permittee shall immediately notify the City of Tampa AWTP and submit a written notice to the City of Tampa AWTP within five days of the bypass as specified in PART 2 SECTION 2 (E) of this permit.

#### D. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in accordance with section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

#### **SECTION 4 - MONITORING AND RECORDS**

#### A. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. The sampling shall be done on a day of normal to maximum process operation. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water or substance. Monitoring points shall not be changed without notification to and the approval of the City of Tampa.

#### B. Inspection and Entry

The permittee shall allow the City of Tampa, or an authorized representative, upon the presentation of a City of Tampa employee photo-identification card, to:

- Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- Have access to and copy any records that must be kept under the conditions of this permit;
- Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit;
- Sample or monitor, for the purposes of assuring permit compliance, any substances or parameters at any location;
- Inspect any production, manufacturing, fabricating or storage area where pollutants, regulated under the permit, could originate.

#### C. Retention of Records

- 1. The permittee shall retain records of all monitoring information, including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the City of Tampa at any time.
- 2. All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the City of Tampa shall be retained and preserved by the permittee until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

#### D. Record Contents

Records of sampling information shall include:

- The date, exact place, time and methods of sampling or measurements, and sample preservation techniques or procedures;
- Who performed the sampling or measurements;

- The date(s) analyses were performed;
- Who performed the analyses;
- The analytical techniques or methods used;
- The results of such analyses; and
- Proper chain of custody documentation.

#### E. Signatory Requirements

All applications, permits, reports or information submitted to the City of Tampa shall be signed and certified as indicated below:

- 1. By an authorized representative of Pasco County. An authorized representative of Pasco County shall mean:
  - a. An elected official or their legal representative.
  - d. A duly authorized representative of a person indicated in (a) above if authorization has been made in writing on a prescribed authorization form submitted to the City of Tampa Industrial Waste Section. (Should authorization no longer be accurate because a different individual or position has responsibility for environmental matters for the county, a new authorization form for the new representative must be submitted to the City of Tampa Industrial Waste Section.)
- 2. Certification. Any person signing a document required by this permit shall make the following certification:
  - "I certify under penalty of law that I am familiar with the information contained in this report and its attachments and that to the best of my knowledge and belief such information is true, complete and accurate."
- 3. Any change in signature shall be submitted to the City of Tampa writing within 30 days after the change.

#### F. Falsifying Information

Knowingly making any false statement on any report or other document required by this permit or knowingly rendering any monitoring device or method inaccurate, may result in punishment under criminal law proceedings as well as being subjected to civil penalties and injunctive relief.

Facility Name	Pasco County Utilities Services Branch	Permit No	11-21-97-A
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#### **SECTION 5 - ADDITIONAL REPORTING REQUIREMENTS**

#### A. Planned Changes

The permittee shall give notice to the City of Tampa 30 days prior to any facility expansion, production increase, or process modifications which results in new or increased discharge volumes that have an average change of 20% or more, over a six month period or which results in a change in the nature of the discharge.

#### B. Duty to Provide Information

The permittee shall furnish to the City of Tampa, within a reasonable time, any information which the City of Tampa may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the City of Tampa upon request, copies of records required to be kept by this permit.

#### **SECTION 6 - ENFORCEMENT**

#### A. Recovery of Costs Incurred

The permittee violating any of the provisions of this permit, Chapter 26, City of Tampa Code, or causing a discharge producing a deposit or obstruction, or causing damage to or otherwise inhibiting the City's wastewater disposal system shall be liable to the City for any expense, loss, or damage caused by such violation or discharge. The City shall bill the permittee for the costs incurred for any cleaning, repair, or replacement work caused by the violation or discharge. Refusal to pay the assessed costs shall constitute a violation of this permit and Chapter 26, City of Tampa Code.

#### B. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil and/or criminal penalties for non-compliance under Chapter 26, City of Tampa Code.

#### C. Penalties for Violations

- 1. Pursuant to Chapter 1, City of Tampa Code, any person who violates a permit condition is subject to a civil penalty not to exceed \$1000 per day, or by imprisonment for a period not exceeding six (6) months or by both. Each day any such violation shall continue shall constitute a separate offense and shall be punished as such.
- 2. The Director of the Sanitary Sewer Department shall endeavor to assure compliance with the requirements of Chapter 26, City of Tampa Code. If such efforts, over a reasonable period of time are futile, the Director shall take formal action to include but not limited to disconnection of water and sewer service.

- 3. In the event the permittee's discharge exceeds the limits established by this permit and thereby causes damage to the City of Tampa's infrastructure or causes violations of the AWTP discharge permits, or causes injury to any person or property, the permittee shall indemnify the City of Tampa for all costs, including court costs, Attorney's fee and liabilities incurred as a result of said discharge.
- 4. Issuance of this permit shall not relieve the permittee from complying with all applicable permits, laws, regulations and ordinances promulgated by the City or other governmental authorities. Nor shall issuance of this permit be construed as a representation by the City that the discharge permitted herein complies with all such permits, laws, regulations and ordinances.
- 5. Any non-compliance with this permit or Chapter 26, City of Tampa Code, shall be grounds for administrative action and/or enforcement proceedings including civil or criminal penalties, injunctive relief and summary abatements.

#### AUTHORIZATION OF APPROVED REPRESENTATIVE

Permittee Name	
Address	
Date	
Discharge Permit No.	
To:	Industrial Waste Section City of Tampa 2700 Maritime Blvd. Tampa, FL 33605
I,County and am able to per	, hereby certify that I am an elected or legal representative of Pasco rform policy and decision making functions for the county.
I hereby duly authorize representative. I authorize to the City of Tampa on n	, whose signature also appears below to be my my representative to sign all applications, permits, reports or information submitted my behalf.
Signed	
Title	
Signature of Authorized F	Representative
Title of Representative	

# inte 1

## SCHEDULE OF ACTIVITIES

Macio	12(22)97 DATE	SPRAY DRYER REPAIRS AND MISC. MODIFICAT LEACHATE TREATMENT PLANT	110149
EN	DATE	DESCRIPTION	STATUS
	NOV.17-24	Niro replacement of corrosion damaged duct, nozzle, and dryer roof (partial)	Completed NOV 21
To KO	NOV 19-21	RCC and Palmer Tank cleanup and repair of FRP Spray Dryer Feed Tank and install new nozzles	Completed NOV 21
Z Ž	DEC 1-5	Smith Electric changeout of VFD and transformer for new Spray Machine	Amanged for by Niro
10 m 10 m	DEC 8-9	MISI (Insulator) removal of existing SD insulation	Completed DEC 8
7671	DEC 15-19	SD cleanup and application of protective coating on SD replacement materials and roof by Cannon Sline	Completed DEC 18
From Dent Co. 10	DEC 29-JAN 9, 1998	Installation of new insulation and jacketing on replacement duct, nozzle, and SD roof, wall, and bottom cone	Schedule delayed by weather, cleaning/coating progress, and holidays
47-8145	DEC 10-JAN 9	<ul> <li>RCC and Eclipse additions and medifications:</li> <li>Install new BC waste piping</li> <li>Extend sedium sulfate piping to BC sump</li> <li>Install Spray Dryer feed tank steam heating</li> <li>Modify and repair SD feed piping</li> <li>Install rebuilt retary valve</li> <li>Punchlist Work</li> </ul>	Field Order work in progress
	DEC 12-JAN 9	Delivery and installation of new Spray Machine	New Spray Machine delivered. Installation delayed.
	JAN 5	Re-start Brine Concentrator	Earliest Possible
*	JAN 12	Re-start Spray Dryer	Approximate Schedule



ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

DEC 2 2 199

BY SUUTHWEST MARGINETICS

December 19, 1997

Mr. Richard D. Garrity, Ph.D. Director of District Management Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, Florida 33619-8318

Subject:

West Pasco Landfill

Ash Disposal Units A-1 and A-2 Number PA87-23, Pasco County LAW Project 40141-7-0317

Dear Dr. Garrity:

Law Engineering and Environmental Services, Inc. on behalf of Pasco County is providing the following information as a follow-up to our meeting on December 11, 1997:

Maintenance activities in A-1 - As you recall Pasco County plugged the leachate collection system outfalls from Ash Disposal Unit (A-1) as an emergency measure to avert an overflow from the pump station. The existing valves between the collection system and the manholes will not close completely because they are damaged. The leakage rate is on the order of 110,000 gallons per night and as you know the County has had no place to dispose of this rate of flow. Installing the plug was the only way to stop flows to the manhole and the pump station further downstream. Obviously, the next step was to replace the valves but it could not be done safely without possible spillage of leachate when the valve are removed. It was decided to place the new valves downstream of the manholes and to abandon the damaged ones in an open position. In order to do that it was necessary to raise the manholes to a height sufficient to allow leachate to rise in the manhole to a level equal to the level of leachate in the disposal unit when the new valve was closed. These activities have been completed.

Estimated quantity of leachate in A-1 and A-2. The quantity of leachate in A-1 is estimated to be 8.6 million gallons based on the geometry of the disposal unit, the elevation of the leachate and a porosity of 0.4 for the drainage sand and the ash. The geometry of the disposal unit was taken from the construction record drawings. The elevation of the leachate was determined by opening an old valve, closing the new valve and allowing the leachate to rise in the raised manhole up to the level in the disposal unit. The elevation of leachate in the unit is 61.25 or approximately two feet below the top of perimeter berm. In regard to the porosity, the ash appears to act as an excessively well drained sand or small gravel so a value of 0.4 for porosity is reasonable.

#### **BEST AVAILABLE COPY**

Mr. Richard D. Garrity, Ph.D. Florida Department of Environmental Protection December 19, 1997
Page 2

The quantity of leachate in A-2 is calculated to be 14.3 million gallons. The elevation of leachate in A-2 was estimated by observing the leachate level at the southwest corner of the disposal unit. There is a two feet drainage layer and two feet of ash and the leachate level appeared to be 9 inches deep. Adding these depths to the elevation in this corner from the construction record drawings leads to the estimated elevation of 57.55. Then the area filled with ash above the level of the leachate and the area open or unfilled with ash were estimated. The estimate was 40 % filled and 60 % unfilled. The same porosity was used for the ash and drainage sand as in A-1 and a porosity of 1 was used for the unfilled area.

The total leachate in the two disposal units is approximately 23 million gallons. In addition, the tank at the treatment plant contains approximately 2 million gallons. The calculations are enclosed in a table. The County is constructing a staff gage in A-2 to allow monitoring the leachate level and LAW will provide a calibration to relate level to the estimated quantity in A-2.

**Disposal/Pumping** Activities - The County hauled 96,000 gallons of leachate to the New Port Richey Wastewater Treatment Plant during the period from December 10 to 18, 1997. The hauling to the Tampa plant is scheduled to begin December 19, 1997. The County is pumping leachate from A-1 to A-2 at a rate of approximately 100,000 gallons per day. The total to date is 320,000 gallons.

Proposed future actions - We believe it is now critical that Florida Department of Environmental Protection allow Pasco County to reinstall the meter and pump at least 30,000 gallons/day to the Shady Hills Wastewater Treatment Plant. We have a potential environmental disaster ready to happen. The cell berms have not been designed or built to withstand ten feet of hydrostatic load. At a hauling/processing rate of 128,000 gallons per day it will take 180 days to lower the leachate level to the one-foot criteria if it does not rain again during that time.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Richard E. Mayer, P.E.

Principal Engineer

REM/cjs/40140/LETTER/4014170317.L1

cc: Robert Butera

Kim Ford

Doug Bramlett - Pasco County

#### WEST PASCO CLASS I LANDFILL

#### Cell A-1

CELL WIDTH			CELL LENGTH WATER			WATER CELL BASE ELEVATION			Volume .	Filled/	Porosity	Gallons			
Base	Тор	Avg.	Base	Тор	Avg.	LEVEL	NE	SE	sw	NW	Avg.	(cf)	Unfilled	•	(Millions)
310	370	340	970	1045	1007.5	61.25	50.7	50.3	54.6	55.8	52.85	2877420	1	0.4	8.62

#### Cell A-2

CELL WIDTH			CELL LENGTH			WATER	3	CELL	BASE EL	EVATION	i .	Volume	Filled/	Porosity	Gallons
Base	Тор	Avg.	Base	Тор	Avg.	LEVEL	≟ NE ·	SE	sw	NW	Avg.	(cf)	Unfilled		(Millions)
310	355	332.5	955	1050	1002.5	57.55	47	50	52	51	50	2516650.94	0.4	0.4	3.02
													0.6	1	11.31

TOTAL GALLONS (in millions)

22.94



## PASCO COUNTY, FLORIDA

LAND O'LAKES NEW PORT RICHEY DADE CITY (813)856-0007 (813)996-7341 (813)847-8145 (352)521-4274 UTILITIES SERVICES BRANCH RESOURCE RECOVERY FACILITY 14230 HAYS ROAD SPRING HILL, FL 34610

DEC 1 8 1997

December 12, 1997

Kim Ford, P.E.

Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, F1 33619-8318

RE: Notice of bypassing Municipal Solid Waste to Class I Disposal Unit, SW-1.

Dear Mr. Ford:

Pursant to my fax of December 12, 1997, sent at 11:33 A.M., regarding bypassing of Municipal Solid Waste (MSW) to an approved Class 1 Disposal Unit; this communication is for clarification and record.

Today at 12:00 P.M. Pasco County started to bypass MSW to Disposal Unit SW-1. I believe we will be bypassing for an approximate period of 14 (fourteen) days, or about December 31, 1997. A total bypassed MSW should be something less than 9,800 tons. We anticipate removal from SW-1 to the Resource Recovery Plant to be completed by June 1, 1998, the MSW in Disposal Unit SW-1 will be covered by tire chips.

Any questions you may have, please do not hesitate to call me direct at (813) 856-0119.

Very truly yours,

Incent Mannella, P. E.

Solid Waste Facility Manager

VM/drc

cc: Robert Butera, P.E., Environmental Specialist II, Division of Water Facilities Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Fl 33619-8318

Richard D. Garrity, Ph.D., Director of District Management, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Fl 33619-8318 Robert Sitz, Ogden Martin, 14230 Hays Road, Spring Hill, Fl 34610

John J. Gallagher, County Administrator

Douglas S. Bramlett Assistant County Administrator

Douglas S. Bramlett, Assistant County Administrator, Utilities Services Ronald J. Walker, Solid Waste Superintendent



### PASCO COUNTY, FLORIDA

VINCENT MANNELLA, P.E.
SOLID WASTE/RESOURCE RECOVERY MANAGER

14230 HAYS ROAD SPRING HILL, FL. 34610 PHONE: (813) 856-0119

FAX: (813)856-0007

DATE: DEC. 12 11997

TO: BOB BUTERA / KIM FORD

COMPANY: FLORIDA DEPORTMENT OF ENVIRONMENTAL PROTECTION

TELECOPIER TEL NO: 813-744-6084

FROM: VINCE MALLELLA

CLIENT/MATTER NO: BY - PASSING MEW 4- DISPOSAL UNIT SW-1

TOTAL NO. OF PAGES TRANSMITTED (INCLUDING COVER LETTER):

MESSAGE: EMERGENCY FAX -

READ / DELLVER IMMEDIATELY

BE ADVISED EFFECTVE HOW PASCO COUNTY SUDLIO WASTE / PESOURCE RECOVERY DIVISION WILL BE BY PASSING MSW TO SW-1.

FIRST LOAD WILL BE DELIVERED APROX @ 12:00 HRS 12/12/97. BY PASSING WILL BE FOR APROX. 14 DOYS. TOTAL REMAINST FROM SW-1 to RRP TO BE COMPLETED OH OR BEFORE 6/1/98

VINE

DATE: 12/12/97

TIME: // 33 A.M

PLEASE CALL BACK AS SOON AS POSSIBLE
IF YOU DO NOT RECEIVE ALL OF THE PAGES INDICATED

TELECOPIER OPERATOR: Source Camplell

5 Thison 1/2. CUST PASCO METINGODOTES J GALLAGER - RICL G D BRANLOTT Bos 6 Unamolis tim F Dimayen (Lawting) DB DISCUSSED HIS HANDOUTS AND 17tms on-AUENDA (SEE FILE HOLLOPY) All Durisses Communers, For AUF 30 DAys I (SEE NOTES FOR RICK'S M.O.U.) DB SAND SALTBAGS WILL GO ON WEST EAR OF A-2 AND ADDITIONAL COSER. USES ON-FAST END AS FULLD. KE SUGGETTED apposite: SALT BAGS IN EAST END AND APPRITIONAL LINEA. TO COLLECT STORMWARM. n WEST 1/2 OF A-2 TOB SALD MANHOLE EXTENDED FOR A-1 TO present over flow with puls RETUDITED FROM A-1 piping KF SAID PERMISSION ONEVER GIVEN FOR PLUCS AND RAISING MANHOLZ SHOULD HAVE BEEN DONE INSTEAD OF PLUCS 4 MONTHS AGO. JM EXPLAINED PLUGS REQUIRED 4 MONTHS AGO

BECAUSE MANHOLE FOR A-1 QUERFLOWED & KE SAND DED WAS NEVER NOTIFIED OF OVERFLOW & KE ASILED FOR ADERLOW OF ALL CHANCES TO A-1 SYSTEMS.

KE DISIDSSED ALW LEACHATE REPORT

FORMAS AND REQUESTED A

STAFF GAUVE IN A-2. TO

INDICATE COMMOND STURED. UM SAID

CANTIDOIT ACCURATELY. KE SAID

ITS AN ESTIMATE PLUS OR MINUS

I, EDD, QOD GAMONS ON. CLOSED

IF POSSIBLE, CALCULATER BY AN

EQUATION-IN RESPONSE TO STAFF GAUVE

TELADINGS. D.M. SAND O.L..

Someone Askers with will rediew lattice (FOFF.

RICH ASKER BOB. BOB SAID HIMSELF AND

SUBAN- & KE SUGGESTED SEND IN
RESPONSED BY JANUARY 5, 1998 SO THERE IS

OND NEED FOR OTHERS. DIM SAID

PREFERRED WORLEND WITH KE.

do 1- 12/12/57

## SEE E-WAIL"

By Junuary 5, 1998 provide the response to DEPS Wovember 21, 1998 Letter (attached).

By Junoary 15, 1998 increase off-site disposal to 60,000 gpd.

Proside a description of all charges (existing al proposed) for disposal unit A-I leachate removal system including piping, shows, al manholes. The description should include the reason for the charge all all other related information that may be useful for evaluating officer correctors actions such as official disposal, pumping to unit A-2, or additional coser material. So deadline was set.

Provide a staff gauge in disposal unit A-2 al two new columns on the leachate reports for staff gauge elevation and gallons stored in mit A-2. No dealline was set.



## Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

November 21, 1997

Mr. Vince Mannella, P.E. Solid Waste Management Pasco County Utilities 7536 State Street New Port Richey, FL 34654

Re: West Pasco Landfill, Disposal Units A-1 and A-2 #PA87-23, Pasco County

Dear Mr. Mannella:

On November 18, 1997, the Department sent Warning Letter #WL97-0008SW51SWD regarding Disposal Units A-1 and A-2 (copy attached). Attached are documents concerning additional related issues that have not been resolved.

- 1. DEP's March 12, 1997 letter and copy of the approved operations plan for the landfill disposal units A-1 and A-2, Sections 8.2.6 and 8.2.8 describe the use of control valves and berms to isolate and minimize leachate generation. The current method and sequence of filling conflicts with this approved plan. A revised operations plan has been requested but has not been provided. On March 18, 1997, staff observed the bottom of disposal unit A-2 covered with ash rather than segmenting stormwater from leachate. Leachate generation has not been minimized.
- Pasco County's September 29, 1997 letter describes placement of super sacks of chlorides in disposal unit A-2, and CDM's January 11, 1996 letter regards the same. On October 6, 1997, staff observed broken and damaged sacks and uncontained/spilled chlorides. The bag breaches have not been minimized.
- 3. Leak detection system flow rates have varied from 5,800 to 2,600 gallons of leachate removed from disposal unit A-2 from October 2 until November 12, 1997. An evaluation describing the significance of these leakage rates has been requested by phone as we discussed on November 21, 1997.

The Department requests an amended operations plan to provide for minimized leachate generation and containment of chlorides by December 5, 1997. The amended operations plan should be accompanied by a corrective actions plan to resolve current deviations from the approved operational plan and unfavorable site conditions addressed in this letter and a schedule for completion.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Vincent Mannella, P.E. Solid Waste Management

November 21, 1997 Page Two

On all future correspondence, please include Robert Butera on distribution. If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab Attachment

John Gallagher, Pasco County Douglas Bramlett, Pasco County (1) Robert Butera, P.E., FDEP Tampa Steve Morgan, FDEP Tampa

PASCO COUNTY: UTILITIES SERVICES BRANCH LEACHATE REPORT CALENDAR YEAR END 12/31/97

	REMOVED									OTHER	ON-SITE LEACHATE		
MONTH & DAY	MEASURED RAINFALL	ASH CELL I	A-I . RECORDEREDE	ASH CELL II	A-2 SECURE SPEEK	SOLID WASTE CELL	33V-1 280040 12638	TOTAL LEACHATE REMOVED	SHADY HILLS WWTP	OFF-SITE WWTP	Management Plant	TOTAL LEACHATE DISPOSAL	BALANCE
Jan-97	2.100	159,979	1,911	1,200	0	142,361	5,929	311,380	311,380	٥	0	311,380	0
Fab-97	1.600	136,907	2,548	82,100	1,200	158,697	1,176	382,628	382,528	G	. 0	382,628	0
Mar-97	2.650	86,735	1,225	60,168	Û	205,209	2,401	355,738	355,738	0	0	355,738	0
Apr-97	7.300	170	1,715	1,582,100	100	282,330	3,724	1,950,139	975,149	a	974,990	1,950,139	0
May-97	0.800	374,493	1,127	292,800	15,000	433,890	3,430	1,120,740	998,420	a	122,320	1,120,740	0
Jun-97	6.500	82,350	2,744	321,000	24,800	787,078	8,762	1,224,734	1,025,164	0	199,570	1,224,734	Q
Jul-97	11.850	137,945	1,323	1,371,800	46,700	2,493,884	3,871	4,055,523	3,758,505	0	297,018	4,055,523	. 0
Aug-97	7.950	204,289	833	330,300	a	1,788,445	3,675	2,325,542	1,790,120	o	305,655	2,095,775	229,787
Sep-97	8.300	40	1,813	0	55,777	957,830	4,067	1,019,527	961,897	96,000	401,580	1,459,477	(210,183)
Oct-87	8.700	10	2,646	0	121,700	734,530	10,143	869,029	744,873	72,600	432,290	1,249,563	(590,717)
Nov-97	5.800	0	1,568	56,100	68,000	800,900	3,773	940,341	804,873	18,000	0	822,673	(473,049)
79-ped	0.000	0	0	0		0	0	. 0	0	0	0	0	(473,049)
1997	61.550	1,182,918	19,453	4,187,563	333,277	8,783,154	48,951	14,555.321	12,108,347	166,600	2,733,423	15,028,370	(473,049)

<sup>\*\*</sup> West Pasco Class I Landfill has a total of 30 acres, which are comprised of three cells. The cells consist of the following:

<sup>-</sup> Ash Coll - 10 scres INTERMEDIATE COVER

<sup>-</sup> Ash Cell II - 10 acres OPEN

<sup>-</sup> Sold Waste Cell I - 10 seres OPEN

MATHDOWSCEEDCTOFDEP Reports Louiste Louis Data Leachab - MOY97, wiel

PASCO COUNTY: UTILITIES SERVICES BRANCH

LEACHATE REPORT

FISCAL YEAR END 9/30/98

	_	<u>.</u> .		WEST PASC	CLASS REMOVED	1	:			•	ON-SITE LEACHATE		•	EAUGE A-17	570200
MONTH & DAY	MEASURED RAINFALL	ASH CELL!	MACCHICA LOUISE	ASH CELL II	SHOWED LINES.	CELT I	2000 (140),	TOTAL LEACHATE REMOVED	SHACYHILS WWTP	WWTP WWTP	PLANT	DISPOSAL	BALANCE	A Z	A-2
01-Nev-37	3.500	0	0	25,801	3,900	254,510	0	284,210	254,510	8,000		260,510	1		
02-Nev-97	0.000	. Ф	a	20,800	4,000	à	ū	24,800	0	0	0	0			
C3-Nov-87	0.000	0	a	13,500	3,300	228,650	O	243,450	226,650	6,000		232,650			
C4-Nov-97	0.000	0	9	0	3,300	32,790	٥	36,090	32,790	Q	o a	32,790			
05-Nov-37	0,000	9	9	٥	2,700	22,280	0	24,930	22,260	Q	ā	22,230	}		
08-Nov-37	0.000	D	0	8,000	3,500	16,490	Э	25,990	16,490	9	3	16,490	1		
J7-Nov-57	0.000	0	0	0	2,500	13,910	0	16,510	13,910	o.	. 0	13,910	İ		
23-Noy-57	0.000	O	0	0	2,800	11,630	0	14,230	11,630	5	0	11,630			
03-Nov-97	0.000	O	O	0	2,600	0	0	2,600	0	U	0	0	ĺ		
1C-Nov-97	0.000	O	O-	9	2,300	6,300	0	11,800	9,300	0	0	9,300	1		
11-Nov-97	0.000	0	Q	Q	2300	D	0	2,300	Q.	0	0	0	1		
12-Nov-97	0.000	0	0	0	2,600	10,230	0	12,880	10,260	0	3	10,230			
13-Nov-97	0.000	O	1,568	0	2,200	3,420	3,773	10,961	7,193	0	9	7,193	1		
14-Nov-97	2.000	Ģ	0.	0	2,500	55,540	0	58,340	55,540	0	5	55,540	1	·	
15-Nov-97	0.003	a	O	0	1,900	42,840	0	51,740	49,540	0 400	0	49,840	1		
18-Nov-97	0.000	٥	Q	Ĵ	2,000	٥	a	2,000		6,000	_	6,000		1	
17-Nov-97	0.000	o	a	3	2,200	42,560	a	44,760	42,560	Q	~	42,560		•	
18-Nov-97	0.000	. 0	0	3	2,100	7,920	9	10,020	7,920	· 0	•	7,920			
19-Nov-97	0.000	0	3	9	1,800	9,430	3	11,030	9,430	3	0	9,430			
20-Nov-97	0.000	3	o o	0	2,000	6,820	3	3,920	8,920	J	0	6,320		ì	
21-Nov-97	0.000	0	0	0	1,500	6,210	0	8,410	6,910	0		8,910		ł.	
22-Nov-97	0.000	0	0	0	1,400	3,440	0	4,840	3,440	0		3,440		i	
23-Nov-97	0.000	0	0	0	0	0	Ō	0	44 223	0		1	11	•	•
24-Nov-97	0.000	0	o	0	3,500	11,320	0	14,820	11,320 0	0		11,320		ŧ	
25-404-27	0.000	0	Q	0	1,800	0.	0	1,600	2,380	n	. 0	0 3 3 9 0	,		
26-Nov-27	0.000	0	2	0	1,100	2,330	0	3,480	2300	0	, 0	2,380			
27-Nov-57	0.000	0	9	0	1,800	0	0	1,800	9	4	, ,		1	İ	
28-Nov-97	0.000	0	0	0	1,600	0	0	1,600	3,420	0	, 0	1 -	•	}	
23-Nov-87	0.000	0	0	ō	1,400	3,420	0	4,820	ىرىدى 13	•	, 0	3,420		<b>.</b>	
30-Hov-57	0.000	Ô	Ç	a	1,630	O	0	1,500	0	0	-	1	1		j
	5.000		4.500	00.100	~ ~~	200.003	n	<u> </u>	804,673	18,000		<del></del>	<b>_</b>	į.	
Nov-97	5.500	0	1,568	<del>\$8</del> ,100	68,000	800,900	3,773	940,341	004,013	10,000	, <u> </u>	822,373	117,568		ļ

<sup>\*\*</sup> West Press Class I Landill has a total of 30 series, which are comprised of three cells. The cells consist of the following:

<sup>·</sup> ALL CALL - 10 acres INTERMEDIATE COVER

<sup>-</sup> स्केटलार-१३ व्यक्त व्यक्त

<sup>-</sup> Solid West Call 1 - 10 arres OPEN

#### PASCO COUNTY/FDEP INFORMAL CONFERENCE DECEMBER 11, 1997

#### WL97-0008SW51SWD - PROCESSING OF ASH LEACHATE

D.E.P.

- RCC contract meeting summary of 11/6/97
- DEC 1 1 1997

Southwest District

• RCC schedule of repairs

I

- Anticipated date of LMF full operations
- II Leachate deliveries to City of New Port Richey WWTP
  - Leachate transport award of bid start deliveries to Tampa WWTP by 12/19/97
  - City of Tampa Purchase Order and Industrial Permit

#### WEST PASCO CLASS "I" LANDFILL - OPERATIONS

- Law Environmental Task Order
   Procurement/bidding documents for rain cap/rain containment of Cells A-1 and A-2 and revised operational plan.
- Operations plan salt sack disposal, filling sequence and secondary liner leakage rates delay requested until 12/23/97



# Department of Environmental Protection

NOV 2 0 1997

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. John Gallagher County Administrator, Pasco County 7530 Little Road New Port Richey, FL 34654

#### WARNING LETTER #WL97-0008SW51SWD

RE:

West Pasco Class I Landfill, Disposal Units A-1 and A-2

PA87-23, Pasco County

Dear Mr. Gallagher:

The purpose of this letter is to advise you of possible violations of law for which you may be responsible, and to seek your cooperation in resolving the matter. Written and verbal notifications and reports by Pasco County, as well as field inspections conducted on October 6 and October 28, 1997 of the West Pasco Class I Landfill indicate that violations of Florida Statutes and Rules may exist at the above-referenced facility. Department of Environmental Protection personnel observed the following at the facility:

- 1) A significant quantity (what has been determined to be millions of gallons) of leachate, at one time observed to be three to five feet deep, is impounded in portions of Disposal Unit A-2.
- 2) In addition Pasco County has failed to remove leachate from the collection system of Disposal Unit A-1.

Florida Administrative Code Rule 62-701.400(3) provides minimum design standards for the construction of landfills. According to this rule double lined landfills shall have a primary leachate collection and removal system designed to limit the leachate head to one foot above the liner during routine landfill operations. This rule further requires a leak detection and secondary leachate collection system designed to limit the maximum hydraulic head on the lower liner to one inch. It is a violation of F.A.C. Rule 62-701.500(8)(b) to fail to maintain the leachate collection and removal system as designed. Failure to comply with Department rules or a permit issued by the Department pursuant to its lawful authority is a violation of Section 403.161(1)(b), F.S.

You are advised that any activity at your facility that may be contributing to violations of the above described statutes and rules should cease immediately. The operation of a facility in violation of state statutes or rules may result in liability for damages and restoration, and the judicial imposition of civil penalties up to \$10,000 per violation per day pursuant to Sections

403.141 and 403.161, Florida Statutes. You should note, according to Department guidelines for calculation of civil penalties, the violations described above typically warrant penalties in the range of \$4,600 - \$6,000 per day.

PLEASE BE ADVISED that this Warning Letter is part of an agency investigation, preliminary to agency action in accordance with Section 120.57(4), Florida Statutes.

You are requested to contact the Department within 5 days of receipt of this letter to arrange a meeting with the Department to discuss resolution of these issues. At this meeting, you should be prepared to provide to the Department for discussion the **specific** plans for corrective actions to be implemented by Pasco County to rectify the situation, including a time table for completion of the activities.

Sincerely

Richard D. Garrity, Ph.D

Director of District Management

**Southwest District** 

cc: Douglas Bramlett, Pasco County

Vincent Mannella, P.E., Pasco County

- Robert J. Butera, P.E., FDEP - Kim FORD -

D.E.P. DEC 1 1 1997

**AGENDA** 

THURSDAY, NOVEMBER 6, 1997

9:00 A.M.

### LEACHATE MANAGEMENT FACILITY (REVISED)

- GENERAL PERFORMANCE OF LEACHATE MANAGEMENT FACILITY
- ► RESPONSIBILITY OF PAYMENT TO REPAIRS OF SPRAY DRIER
- SCHEDULE OF REPAIRS/DATES OF MAINTENANCE
- SCHEDULE OF LEACHATE MANAGEMENT PLANT DESIGN PERFORMANCE
- ► OCTOBER 30, 1997 RCC LETTER & COUNTY'S RESPONSE
- PROTOCOL FOR FUTURE CORRESPONDENCE

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TOPICS DISCU				ACTION/NOTES
106	DJ. GAMAGHAN		for.w	813-847-8115
	NARO JELATONICH	DC Atty C	ffice	813-897-8120
Dan	Strobridgy	CDM		813 281-2900
JOE	BOSTUANCIE	RCC		425-828-2400
Bob	Houser	CDM		(813) 281-290V
- Kick	Shel-to-	COM		813-281-2900
	ug Fredericks	CDM		813/281-2900
	3) Sponn	RCC		125-828-2400
VINE	e Mannella	Pasco co		813-840 856-0119
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#### MAY 1 - MAY 29, 1997:

- RCC on-site technical services commenced May 1 to perform LMP checkout, startup, and training
- CDM technicians on-site to train on LMP operations and assist startup
- LMP checkout progress was slowed by numerous installation problems:
  - LMP startup progress was paced by checkout.
  - Spray Dryer startup hindered by control circuit problems.
  - Spray dryer insulation completed during checkout.
- RCC continued with startup efforts to support DEP certification for Pasco County
- Training of Pasco County staff on Brine Concentrator was completed later than scheduled.
- Training on the Spray dryer by Niro was impacted by startup problems.
- RCC technical services budget of (240) man-hours was completed May 28.
- Niro exited site on May 29 following Spray Dryer startup.

#### MAY 29 - JUNE 30, 1997:

- CDM technician on-site for continued operations support through July 1997.
- May 29 June 5: RCC on-site to work punchlist and observe operations:
  - Operating techniques of Pasco Staff were not always correct more training needed.
  - Spray Dryer problems were evident from beginning after startup:
    - Powder bridging in baghouse above rotary valve more insulation needed
    - Collection bags (baghouse) fouled by water and oil in purge air.
    - Brine feed control starved pump head increased on June 4.
    - Control loops sluggish and difficult to operate fine tuning needed.
  - Brine Concentrator feed heat exchanger under-performed and additional plates ordered
- June 6: RCC recommends additional technical on-site support for training.
- June 11 13: Niro technician on-site for training and to observe SD operations
  - Training on SD was limited by minimum availability of Pasco staff.
  - SD inlet and outlet air temperature control loops required tuning.
  - SD shutdowns on loss of atomizer cooling water were corrected.
  - SD reported to be operating stable at half capacity on June 13.
- June 16 19: Insulation added to SD baghouse, manway cover, and rotary valve.
- June 25: RCC requests increase of SD outlet temperature from 340 to 380°F.
- June 25 26: RCC programmer was on-site to automate SD feed line flush cycle.
- June 26 30: SD baghouse bridging problems continued, but less frequently.

#### **JULY 1 - JULY 31, 1997**

- July 1 July 3: SD shutdown on high temperature and burner cannot be restarted (relit).
- July 3 4: Niro technician on site to restart SD and investigate burner relighting.
  - The gas regulator was found to be fully open and had to be adjusted to original setting.
  - 100% burner lights were achieved with adjustments to lower gas flow and increase air flow.
- July 8: RCC repeats recommendation of additional training for Pasco staff.
- July 9 24: SD operation reportedly improved, but still at half capacity.
- July 14 17: RCC and contractor on-site to install additional plates in B.C. feed heat exchanger.
- July 25: CDM working on correcting air compressor and water problem.
- July 28: Pasco staff reports Spray dryer operating problems.
  - Powder conveying duct was plugging with hardened powder
  - Water in baghouse pulse air and baghouse rappers inoperable.
  - Occasional alarms and SD shutdowns occurred for no reason.
  - Baghouse bridging again causing SD shutdowns.
- July 29: RCC repeats recommendation for 24 hour per day LMP operation.
- July 29: SD burner lighting problems are again reported
  - Niro orders replacement burner control module delivered to site July 31.
  - Pasco staff and CDM review burner lighting procedures

#### **AUGUST 6 - 29, 1997:**

- August 1: New SD burner control module installed burner still cannot be lit.
- August 6 7: Niro technician and RCC engineer at LMP site to work on SD problems:
  - SD burner flame rod replaced and burner control circuitry checked and repaired
  - Multiple burner relighting procedures were successful and Niro exited on August 7
- August 8 12: Problems continue with SD fouling, frequent shutdowns, and burner relighting.
- August 13 20: Niro engineer was on site to work with RCC on the following:
  - Established burner flame rod and flame control circuit reliability circuit completely rewired.
  - Checked out, verified, and corrected where necessary all SD system control logic and circuitry.
  - Corrected natural gas supply deficiency a new meter was required from the gas company.
- August 18 (approximately): Pasco staff began 24 hour per day operation on two shift basis.
- August 21: SD System shutdown occurred as a result of bearing failure in the Spray Machine.
- August 22 26: Spray Machine was removed and sent to Niro for rebuild.
- August 27 28: Rebuilt Spray machine installed and SD System restarted.
- August 29: RCC exits site with SD System operating again with still unreliable gas supply.

#### SEPTEMBER 2 - OCTOBER 2, 1997:

- September 2 8: SD system operating at half capacity with continuing duct plugging and baghouse bridging problems reported by Pasco staff.
- September 4: Brine Concentrator feed pump modified to maximum size impeller.
- September 8 10: Niro technician on site to provide SD lubrication training.
  - Niro concerned about spray machine noise installed spare atomizer wheel.
  - Lower spray machine bearing failed again.
  - Lubrication spec. revised to higher temperature oil.
  - September 16 17: Plugging problems in powder conveying duct reported by Pasco staff.
- September 22 25: RCC engineers on LMP site to work punchlist and observe SD system operation.
  - SD system running at half capacity with conveying duct slowly plugging.
  - Baghouse rappers failing repeatedly on dirty compressed air.
  - Maintenance on SD system to remove plugging/fouling powder was hampered by rainfall.
- September 26: Niro technician on site to work on increasing SD capacity:
  - Chain drive on baghouse rotary valve broke and repaired no spare parts available.
  - Niro attempt to increase capacity resulted in baghouse fouling Niro exited site.
- September 27 October 2: RCC continues on site to work LMP punchlist and observe SD operation:
  - Insulation modified to cool spray machine well and penthouse floor.
  - Insulation added to spray chamber roof and sloped for storm water runoff.
  - Added insulation blanket to powder conveying duct low point (elbows).
  - Brine Concentrator sump density increased to optimize waste volume and reduce SD feed inventory.

#### OCTOBER 3 - 23, 1997:

- October 3 7: RCC engineering reviewed SD system problems with Niro and requested concentrated effort on obtaining full capacity and trouble free operation.
- October 8 23: RCC and Niro engineers on site to solve Spray Dryer operations:
  - SD capacity of 3.05 GPM achieved on October 9 with increased air flow.
  - LMP capacity limited to 70% by Leachate Transfer pump SD shutdown for inspection.
  - Spray Machine seized and shutdown due to bearing failure on night of October 10.
  - Niro supplied interim Spray Machine for installation and system restart on October 12.
  - SD capacity of 2.59 2.64 GPM achieved on October 15 under stable conditions.
  - Niro reduces atomizer speed in attempt to eliminate powder buildup baghouse fouls.
  - With atomizer speed restored, numerous SD restarts result in conveying duct blockage.
  - Some SD outages continue to occur due to gas train control problems adjustments are made, but another checkout of control system is required.
  - Conveying duct blockage continues to result in SD shutdowns.
  - Changes in air flow and spray machine position do not eliminate duct blockage.
  - Solids buildup in Spray Chamber and duct cannot be eliminated by changes in SD operating parameters and continue to cause shutdowns.
  - Inspection on October 22 reveals corrosion of hot air duct, inlet nozzle, and spray chamber roof SD system shutdown for repairs.

## PASCO COUNTY LEACHATE TREATMENT PLANT REPAIRS AND MODIFICATIONS

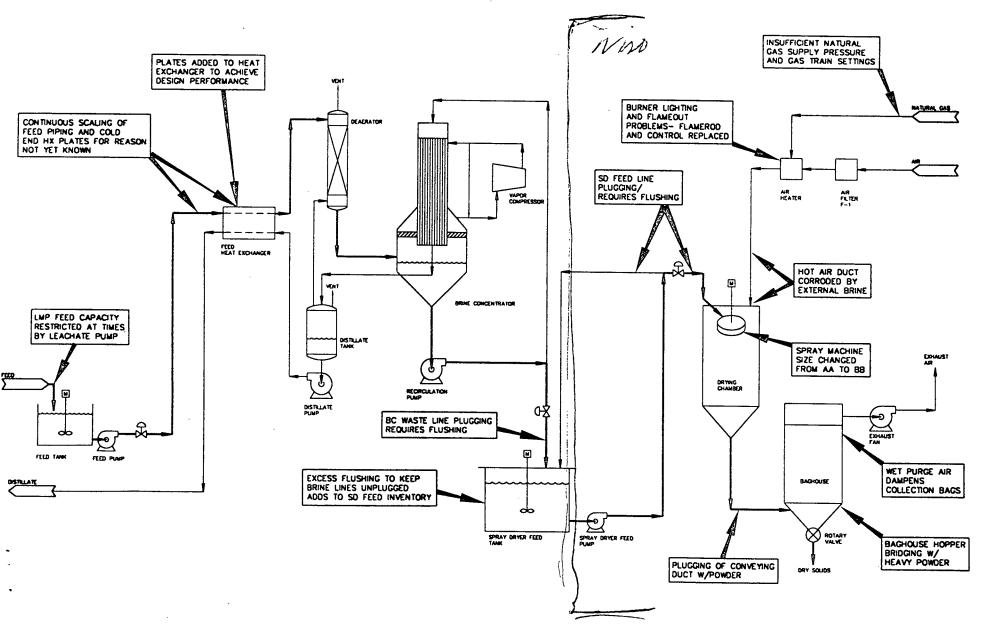
#### SPRAY DRYER SYSTEM:

- \$26,960 P.O. issued to Niro on October 28 for replacement materials to repair corrosion.
- Field repair work is scheduled for November 17 21 for T&M cost estimated at \$14,760.
- Niro has committed to change the Spray Machine from AA to BB size. Delivery is 5 6 weeks. Exchange of spare Spray Machine has been quoted at \$8,089 cost to Pasco County.
- Niro's field installer will scope handling and lift support required from others.
- RCC is investigating the following for installation following SD repairs:
  - High temperature protective coating for stainless steel external surfaces.
  - Leaktight and non-absorbent insulation and jacketing.
  - Brine spill or splash containment protection of stainless steel materials.
- Niro will not consider modification of conveying duct or baghouse until after restart of repaired SD system. Niro is investigating the rotary valve.

#### OTHER REPAIRS AND CHANGES:

- Brine Concentrator waste piping will be modified to eliminate plugging or fouling.
- Spray Dryer Feed tank will be inspected and repaired when empty.
- RCC is investigating modifications to the Spray Dryer feed piping to eliminate brine leaks and system plugging or fouling.
- Modification to sodium sulfate addition has been proposed to Pasco County to eliminate BC Feed Heat Exchanger fouling.
- RCC continues to study sulfates and sulfides in Leachate in connection with B.C. Feed system scaling/fouling problem.

### PASCO COUNTY LMP SYSTEM OVERVIEW







3006 Northup Way Bellevue, WA 98004-1407 Tel: 425 828-2400 Fax: 425 828-0526 A Division of Ionics, Incorporated

Pasco County Florida Solid Waste Facility 14230 Hays Road Spring Hill, FL 34610 December 1, 1997 PAS-L303

Attention:

Vince Mannella

Subject:

Schedule of Activities/Spray Dryer Repairs and Miscellaneous

Pasco County Leachate Treatment Plant

Dear Vince,

Attached is a schedule of on-site activities as currently planned for Spray Dryer repairs and restart of the Leachate Treatment Plant.

RCC has purchased the protective coating material for the new hot duct, inlet nozzle, and drying chamber roof, but we have not yet been successful in finding an installer. We may have to delete this scope or delay installation of the new insulation.

Most of the materials required for the piping modifications have been purchased by RCC. Deliveries have been specified, but not yet confirmed for the planned December 8-19 installation. We also do not have Eclipse's commitment for completing the work during this time frame.

The attached schedule is a plan. I will advise you when or if this plan changes. Please call if you have any questions;

Very truly yours,

Mike Spann //
Project Manager

RESOURCES CONSERVATION COMPANY

cc:

Dan Strobridge (CDM) Bob Hurley (RCC)

# SCHEDULE OF ACTIVITIES SPRAY DRYER REPAIRS AND MISC. MODIFCIATIONS LEACHATE TREATMENT PLANT

DATE	DESCRIPTION	STATUS
NOV 17-24	Niro replacement of corrosion damaged duct, nozzle, and dryer roof (partial)	Completed NOV 21
NOV 19-21	RCC and Palmer Tank cleanup and repair of FRP Spray Dryer Feed Tank and install new nozzles	Completed NOV 21
DEC 1-5	Smith Electric changeout of VFD and transformer for new Spray Machine	Arranged for by Niro
DEC 3-5	Protective coating of SD replacement materials	Quoting (out for bids)
DEC 8-12	Installation of new insulation and jacketing on replacement duct, nozzle, and SD roof	Designed and quoted (in bid evaluation)
DEC 8-19	<ul> <li>RCC and Eclipse additions and modifications:</li> <li>Install new BC waste piping</li> <li>Extend sodium sulfate piping to BC sump</li> <li>Install Spray Dryer feed tank steam heating</li> <li>Modify and repair SD feed piping</li> <li>Install rebuilt rotary valve</li> </ul>	Field Orders issued to Eclipse for pricing
DEC 12-19	Delivery and installation of new Spray Machine	Niro Schedule
DEC 29	Re-start Brine Concentrator	Earliest Possible
JAN 5, 1998	Re-start Spray Dryer	Approximate Schedule



### Department of Environmental Protection

PASCO COUNTY UTILITIES

NOV 2 4 1997

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

November 21, 1997 Pasco County

Mr. Douglas Bramlett, Assistant County Administrator, Pasco County Utilities Services Public Works/Utilities Bld., S-205 7530 Little Road New Port Richey, FL 34654

RE: Co-Treatment of Ash Leachate: City of New Port Richey WWTP.

Dear Mr. Bramlett:

The Department has received and reviewed your request, dated November 12, 1997, to transport ash leachate from your Hay's Road Resource Recovery Facility's Ash Cells [a.k.a. Cell A-1 & Cell A-2] to the City of New Port Richey wastewater treatment plant ("WWTP") for co-treatment.

Based on the information currently available, the Department has no objections to your proposal to transport the above referenced ash leachate to City of New Port Richey WWTP for co-treatment, with the following provisos:

- 1) The City's WWTP must continue to operate within its permitted surface water discharge limits.
- The WWTP effluent is NOT being distributed to any Chapter 62-610 F.A.C. effluent reuse system.

The Department strongly recommends that the ability of the WWTP to co-treat this leachate prior to discharge to Cross Bayou be evaluated by initially transporting for treatment a proportionally small volume of leachate (for example 10% of the anticipated total daily loading of leachate) and observing the effect of the leachate on the plant and its effluent. As the WWTP demonstrates it's ability to satisfactorily assimilate & treat the leachate, increase the loading.

If you have any questions, or require any further assistance, please contact Mr. Pete Burghardt, Environmental Specialist II, at (813) 744-6100, extension 311.

Richard D. Garrity, Ph.D.,

Director of District Management

Southwest District

cc: Ronald Kramer, City of New Port Richey Pete Burghardt, E.S. II, FDEP E. G. Snipes, P.E., FDEP J. A. Amato, P.E., FDEP Robert Butera, P.E., FDEP Kim Ford, P.E., FDEP Henry Dominick, P.E., FDEP

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

#### **BEST AVAILABLE COPY**



### PASCO C

Post-it® Fax Note

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Post-it* Fax Note 7671	Date -9-97 pages 1
TO JOHN DRAPP	From Dean Lett
@ Rept of TPA	GASCO CTY UTIL
Phone #	Phone # 847-8145
Fax # 813-248-526	G Fax #

LAND O' LAKES **NEW PORT RICHEY FAX** 

(813) 996-7341 (813) 847-8145

(352) 521-4274

(813) 847-8064

December 9, 1997

DADE CITY

Mr. H. Chris Menkemeyer Coastal Environmental Services, Inc. 531 Main Street, Suite C Safety Harbor, FL 34695

Transport and Disposal of Ash Leachate - Bid No. 98-014

Dear Mr. Menkemeyer:

Please accept this letter as your "Notice to Proceed" to begin transporting of leachate on or before Friday, December 19, 1997.

We request that you coordinate all deliveries with Pasco County and the City of Tampa and please be aware that an industrial waste permit will be required by the City of Tampa for your firm.

Please call me at the above-listed telephone number if you have any questions regarding this letter.

Doyglas S. Bramlett

**Assistant County Administrator** 

(Utilities Services)

DSB/mvv

cc: Robert J. Butera, P.E. III, Division of Waste Management, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318 John Drapp, City of Tampa's Howard F. Curren WWTP, 2700 Maritime Blvd., Tampa, FL 33605 Vincent Mannella, P.E., Solid Waste Facility Manager



### PASCO COUNTY, FLORIDA

DADE CITY (352) 521-4274 LAND O' LAKES (813) 996-7341 **NEW PORT RICHEY** (813) 847-8145 FAX

(813) 847-8064

**UTILITIES SERVICES BRANCH** PUB. WKS./UTILITIES BLDG., S-213 7530 LITTLE ROAD **NEW PORT RICHEY, FL 34654** 

December 10, 1997

Mr. John Drapp City of Tampa's Howard F. Curren Advanced Wastewater Treatment Plant 2700 Maritime Boulevard Tampa, FL 33605

Post-it® Fax Note 7671	Date - 10-97 # of pages ▶ 1
TOJ. DRAPP	From Dug BRAMLETT
Somble OF Jby	PASCO CTU UTILS
	Phone # 847 - 8145
Fa813-248-5269	Fax #

RE:

Leachate Transport and Disposal - Temporary Waste

Hauler Discharge Permit No. 11-27-97-A

Dear Mr. Drapp:

Please be advised that Pasco County awarded the transport bid to Coastal Environmental Services, Inc. (813-797-3224) on Tuesday, December 9, 1997. The company was given a "Notice to Proceed" to start deliveries of leachate to your wastewater treatment plant facility on Friday, December 19, 1997. We assume that Coastal Environmental Services can use the referenced waste hauler discharge permit to deliver leachate to your facility.

Please be advised that our Purchase Order number is 103575 for billings from the City for the treatment cost as previously discussed. I request that you direct all invoices to me.

Please contact me if you have any questions regarding this matter.

Døuglas S. Bramlett

Assistant County Administrator

(Utilities Services)

7671 Post-it® Fax Note Nenemeyer 800 C

#### DSB/mvv

Sincerely

Mr. H. Chris Menkemeyer, Coastal Environmental Services, Inc., 531 Main Street, Suite C, Safety Harbor, FL 34695

Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director Vincent Mannella, P.E., Solid Waste Facility Manager

#### PASCO COUNTY, FLORIDA INTEROFFICE MEMORANDUM

TO:

Honorable Chairman and Members of the Board of

**County Commissioners** 

DATE: 12/4/97

FILE: PU98-137

SUBJECT: Transport and Disposal

of Ash Leachate

FROM: Frank Fortino

**Purchasing Director** 

REFERENCES:

Bid No. 98-014

It is recommended that the data herein presented be given formal consideration by the Board of County Commissioners.

#### **DESCRIPTION AND CONDITIONS:**

On November 13, 1997, the Purchasing Department, at the request of the Utilities Services Branch, solicited bids for transporting and disposal of concentrated industrial wastewater (ash leachate) and Notice of Bid was published in the the transport of industrial wastewater (ash leachate). St. Petersburg Times on November 19, 1997, and posted on the bulletin boards of the Pasco County Courthouse, West Pasco Government Center, and all County buildings. All provisions of Purchasing Ordinance No. 96-02 have been met.

On December 4, 1997, all bids received were publicly opened and read. The results are shown on the attached tabulation sheet.

Eighteen vendors were mailed invitations to bid, of which two were from Pasco County. Six responses were received, none from Pasco County.

#### **ALTERNATIVES AND ANALYSIS:**

- Approve staff's recommendation. 1.
- 2. Choose one of the other vendors.
- Reject all bids and readvertise. 3.

#### **RECOMMENDATION AND FUNDING:**

The Purchasing Department, with concurrence from the Utilities Services Branch, recommends award to Coastal Environmental Services, Inc., the lowest and best bid for all work specified for Items 1 and 2 combined, at the prices shown on their Bid Proposal. It is anticipated that \$135,000.00 will be spent for the transporting and disposal of ash leachate but, if additional funds are needed, the Purchasing Department recommends that they be authorized to increase the anticipated amount without further Board approval, subject to the appropriation of funds approved by the Board.

Funding is contained in Account No. B450-752200-33400 of the 1997-98 Fiscal Year Budget.

#### **ATTACHMENTS:**

- **Proof of Publication**
- **Tabulation Sheet** 2.
- **Bid Copies** 3.
- UT98-306 4.

#### FF/ai/g120404/3

Michael Nurrenbrock, OMB Director Douglas S. Bramlett, Assistant County Administrator (Utilities Services) Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director Vincent Mannella, P.E., Solid Waste Facility Manager

APPROVED AGENDA ITEM FOR	D.E.P.
DATE	DEC 1 1 1997
BY	SOUTHWEST DISTRIC TAMPA

### Proof of Publication

Here is a clipping of your ad which was inserted according to instructions.

DATEI NOVEMBER 17, 1997

Notice is hereby given that the Board of County Commissioners of Pasco County, Florida is accepting sealed bids for the following:
28-014

CRANSPORTING LEACHATE DECEMBER 4, 1997 2:00

98-015

197 TON CAB & CHASSIS WUTILITY BODY

DECEMBER 23, 1997 2:00

All bids must be submitted. In duplicate, to the Pasco County Purchasing Department, Government Complex, 8919

Government Drive, New Port Richey, Florido 34654

Specifications, instructions to bidders, proposal page, and other related documents may be obtained at the Pasco County Purchasing Department, 8919 Government Drive, New Port Richey, FL 34654, the Consumer Affairs/Code Compliance Division, 13850 17th Street, Dodg City, FL 33523 gr by calling (1812) 847-8194.

It was a pleasure doing business with you. We will be pleased to serve you again.

St. Petersburg Times

To Place Your Want Ad

DIAL 894-1141

CL-11

DATE OF OPENING: 12/4/97 2:00		_   / SERVICES			ENVIRONMENTAL SERVICES, INC.		ENVIRONMENTAL SERVICES, INC.		ENVIRONMENTAL SERVICES, INC.		ENVIRONMENTAL SERVICES, INC.		ENVIRONMENTAL SERVICES, INC.		ENVIRONMENTAL BASERVICES, INC. EN		BAKER ENTERPRISES,						er/ Cess	COASTAL ENVIRONMENTAL SERVICES, INC.			
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BID NO: 98-014
Page 1 of 3

ITEM 1

#### BID PROPOSAL

#### Scope of Work:

Transport and provide quality control disposal of 4,500 ± gallons of concentrated industrial wastewater (ash leachate) from the Pasco County Resource Recovery Facility, located off Hays Road north of State Road 52 in northwest Pasco County. The ash leachate has concentrations of contaminants as follows:

Chlorides	-	165,000 mg/l
TDS	-	306,000 mg/l
TSS	_	95.000 mg/l

#### Description of Work:

Transporter will transport and dispose of this concentrated ash leachate (on a one time basis only) at an FDEP permitted facility in West Central Florida.

Pasco County will be responsible for analytical work needed by the transporter or disposal facility to properly profile the waste stream.

The transporter's rate for transport treatment and disposal of this concentrated ash leachate shall be for a cost of  $\frac{$1.24}{}$  per gallon. The transporter shall provide a trailer of sufficient size to make one (1) delivery of the 4,500  $\pm$  gallons to the treatment/disposal facility.

Transporting will begin 30 days of notice to proceed.

VENDOR NAME: Coastal		
AUTHORIZED SIGNATURE:	H. Chm	s Menberreyer

#### **BID PROPOSAL**

#### Scope of Work:

Transport of 6,000,000 ± gallons of industrial wastewater (ash leachate) the Pasco County Resource Recovery Facility, located off Hays Road north of State Road 52, to the City of Tampa's Howard F. Curren advanced WWTP. The distance between the facilities is estimated to be 45 miles.

#### Description of Work:

Transporter will transport the industrial wastewater (ash leachate) directly to the City of Tampa's Howard F. Curren advanced WWTP. Pasco County will directly pay treatment cost to the City of Tampa.

Transport shall remove no more than 48,000 gpd from the Hays Road facility. Initial deliveries for the first three to four weeks will be approximately 24,000 gpd.

Pasco County will be responsible for all analytical work needed to keep the waste stream properly profiled for the City of Tampa.

The transporter's rate for delivery of ash leachate shall be for a cost of \$19.10 per 1,000 gallons. Transporter shall provide trailers that can carry at least 6,000 gallon per load.

Any loads which are rejected from the City of Tampa shall be returned to the Hays Road facility at a cost/rate of \$19.10 per 1,000 gallons.

For Item 2, deliveries to the City of Tampa's Howard F. Curren Advanced WWTP shall be staggered to assure that no more than one (1) 6,000 gallon load shall be delivered in any three-hour period.

Transporting will begin 30 days of notice to proceed.

VENDOR NAME: Coastal Environmental Services, Inc.

AUTHORIZED SIGNATURE: H. Chris Mentseneyer

We	hereby	<b>submi</b>	lt ou	r bi	d for	Transporting	Leachage.	and	agree	to	a11	terms.
con	ditions	and	speci	.fica	tions	herein.	<b>.</b>		-0			,

ITEM 1

COST PER GALLON: . \$ .0191

C. M.

ITEM 2

COST PER 1,000 GALLONS \$: 19.10

COST PER 1,000 GALLONS FOR REJECTED LOADS: \$ 19.10

EQUIPMENT LIST

GALLONS (TANK SIZE)

(3) Freigtliners

Custom - 8,000 Tanker

Tractor Trailers

Custom - 7,000 Tanker

FLD12064ST

Great Dane - 8,000 Tanker

Bid proposal pages must be submitted IN DUPLICATE, ONE ORIGINAL, ONE COPY

Vendors submitting a base bid and an alternate must place each in a SEPARATE **ENVELOPE** 

TERMS: 1% net 10 days
Refer to General Terms & Conditions,
Para. 13. If left blank, Net 30 days will apply

#### THIS PAGE MUST BE SUBMITTED WITH PAGES 1-2 OF BID PROPOSAL

collusion or fraud.	bid is made without prior understanding, agreement, or connection with any corporation, firm a bid for the same materials, supplies, or equipment, and is in all respects fair and without I agree to abide by all conditions of this bid and certify that I am authorized to sign this
H. Chris	Menheneyr

AUTHORIZED SIGNATURE-SIGN IN INK Unsigned Bids will be disqualified

H. Chris Menkemeyer

AUTHORIZED SIGNATURE(Typed) TITLE

Coastal Environmental Services, Inc.

531 Main Street Suite C

MAILING ADDRESS

Safety Harbor, FL

CITY - STATE - ZIP

813-797-3224

(AREA CODE) TELEPHONE NUMBER

FED. ID # 59-3065246

to me or who has produced nally Known by me. ersonally

mification and who did (did not) take an oath.

(Official Signature of Notary)

ALL BIDS MUST BE SUBMI

CATHERINE E ULMER a Mer. 03, 1988 ed by HAI

BID NO: 98-014

Page 1 of 3 · ITEM 1

#### **BID PROPOSAL**

#### Scope of Work:

Transport and provide quality control disposal of 4,500 ± gallons of concentrated industrial wastewater (ash leachate) from the Pasco County Resource Recovery Facility, located off Hays Road north of State Road 52 in northwest Pasco County. The ash leachate has concentrations of contaminants as follows:

Chlorides	-	165,000 mg/l
TDS	-	306,000 mg/l
TSS	-	95,000 mg/l

#### Description of Work:

Transporter will transport and dispose of this concentrated ash leachate (on a one time basis only) at an FDEP permitted facility in West Central Florida.

Pasco County will be responsible for analytical work needed by the transporter or disposal facility to properly profile the waste stream.

The transporter's rate for transport treatment and disposal of this concentrated ash leachate shall be for a cost of \$0.259 per gallon. The transporter shall provide a trailer of sufficient size to make one (1) delivery of the  $4,500 \pm \text{gallons}$  to the treatment/disposal facility.

Transporting will begin 1 days of notice to proceed.

VENDOR N	AME: J&	J BAKER BNT	ERPRISES,	INC.
AUTHORIZ	ED SIGNATU	RE: Jan	s R 63	who Pres
		AMES	R. BAKER.	PRESIDENT

BID NO: 98-014 Page 2 of 3 ITEM 2

#### **BID PROPOSAL**

#### Scope of Work:

Transport of  $6,000,000 \pm \text{gallons}$  of industrial wastewater (ash leachate) the Pasco County Resource Recovery Facility, located off Hays Road north of State Road 52, to the City of Tampa's Howard F. Curren advanced WWTP. The distance between the facilities is estimated to be 45 miles.

#### Description of Work:

Transporter will transport the industrial wastewater (ash leachate) directly to the City of Tampa's Howard F. Curren advanced WWTP Pasco County will directly pay treatment cost to the City of Tampa.

Transport shall remove no more than 48,000 gpd from the Hays Road facility. Initial deliveries for the first three to four weeks will be approximately 24,000 gpd.

Pasco County will be responsible for all analytical work needed to keep the waste stream properly profiled for the City of Tampa

The transporter's rate for delivery of ash leachate shall be for a cost of <u>\$23.80</u> per 1,000 gallons. Transporter shall provide trailers that can carry at least 6,000 gallon per load.

Any loads which are rejected from the City of Tampa shall be returned to the Hays Road facility at a cost/rate of \$23.80 per 1,000 gallons.

For Item 2, deliveries to the City of Tampa's Howard F. Curren Advanced WWTP shall be staggered to assure that no more than one (1) 6,000 gallon load shall be delivered in any three-hour period.

Transporting will begin 1 days of notice to proceed.

VENDOR NAME: J & J BAKER ENTERPRISES, INC.

AUTHORIZED SIGNATURE:

JAMES E. BAKER, PRESIDENT

	DECEMBER 3, 1997  (Date)
The for	
	OF: CHARLOTTE
STATE (	DF FLORIDA
ls, supplies, anditions of t	agreement, or connection with any corporation, firm, or equipment, and is in all respects fair and without his bid and certify that I em authorised to sign this
understanding,	agreement, or donnection with any corporation, firm,
	LOCAL CONTROL OF THE
CTED WITH P	AGES 1-2 OF BID PROPOSAL
an ARATE	Refer to General Terms & Conditions, Para. 13. If left blank, Net 30 days will apply
Y Y	TERMS: NET 30
GALLO	NS_OR_LARGER
ALL T	ANKERS ARE 6,000
GALLO	NS (TANK SIZE)
REJECTED	LOADS: \$_23.80
	1,000 GALLONS FOR
COST PER	1,000 GALLONS \$:23_80
	COST PER REJECTED  GALLO  ALL TA  GALLO  ed  Y  an  ARATE  TED WITH P.  understanding, ls, supplies, onditions of the  STATE C.  COUNTY

BID NO: 98-014
Page 1 of 3
ITEM 1

#### BID PROPOSAL

#### Scope of Work:

Transport and provide quality control disposal of 4,500 ± gallons of concentrated industrial wastewater (ash leachate) from the Pasco County Resource Recovery Facility, located off Hays Road north of State Road 52 in northwest Pasco County. The ash leachate has concentrations of contaminants as follows:

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TDS - 306,000 mg/l
TSS - 95,000 mg/l

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Pasco County will be responsible for analytical work needed by the transporter or disposal facility to properly profile the waste stream.

The transporter's rate for transport treatment and disposal of this concentrated ash leachate shall be for a cost of \_\_\_\_\_\_ per gallon. The transporter shall provide a trailer of sufficient size to make one (1) delivery of the 4,500 ± gallons to the treatment/disposal facility.

Transporting will begin \_\_\_\_\_days of notice to proceed.

City Environmental Services, Inc. of Florida No Bid's Disposal Services. CESF bid is for Transportation services with disposal at the Howard F. Currin A.W.W.T.P. - Tampa, Florida

VENDOR NAME: City Environmental Services, Inc. of Florida

AUTHORIZED SIGNATURE: ( Lun N'

#### **BID PROPOSAL**

#### Scope of Work:

Transport of 6,000,000 ± gallons of industrial wastewater (ash leachate) the Pasco County Resource Recovery Facility, located off Hays Road north of State Road 52, to the City of Tampa's Howard F. Curren advanced WWTP. The distance between the facilities is estimated to be 45 miles.

#### Description of Work:

Transporter will transport the industrial wastewater (ash leachate) directly to the City of Tampa's Howard F. Curren advanced WWTP. Pasco County will directly pay treatment cost to the City of Tampa.

Transport shall remove no more than 48,000 gpd from the Hays Road facility. Initial deliveries for the first three to four weeks will be approximately 24,000 gpd.

Pasco County will be responsible for all analytical work needed to keep the waste stream properly profiled for the City of Tampa.

The transporter's rate for delivery of ash leachate shall be for a cost of \$60.00 per 1,000 gallons. Transporter shall provide trailers that can carry at least 6,000 gallon per load.

Any loads which are rejected from the City of Tampa shall be returned to the Hays Road facility at a cost/rate of \$60.00 per 1,000 gallons.

For Item 2, deliveries to the City of Tampa's Howard F. Curren Advanced WWTP shall be staggered to assure that no more than one (1) 6,000 gallon load shall be delivered in any three-hour period.

Transporting will begin 10 days of notice to proceed.

\*Note: 5,500 gallon capacity will be used for transport.

VENDOR NAME: City Environmental Services, Inc. of Florida

AUTHORIZED SIGNATURE:

ITEM 1	COST PER GALLON: \$ 0.06
ITEM 2	COST PER 1,000 GALLONS \$: 60.00
	COST PER 1,000 GALLONS FOR REJECTED LOADS: \$ 60.00
EQUIPMENT LIST	GALLONS (TANK SIZE)
Tanker Trailer	5,500
Tanker Trailer	5,500
Bid proposal pages must be su IN DUPLICATE, ONE ORIGINAL,ON	ubmitted NE COPY TERMS:
Vendors submitting a base bid alternate must place each in ENVELOPE	Refer to General Terms & Conditions, a SEPARATE Para. 13. If left blank, Net 30 days will apply
THIS PAGE MUST BE	SUBMITTED WITH PAGES 1-2 OF BID PROPOSAL .
I dertify that this bid is made without or person submitting a bid for the same follusion or fraud. I agree to abide by id for the bidder.	prior understanding, agreement, or connection with any corporation, for materials, supplies, or equipment, and is in all respects fair and with a supplies of this bid and certify that I am authorized to sign to start of PLORIDA.
I dertify that this bid is made without or person submitting a bid for the same sollusion or fraud. I agree to abide by id for the bidder.  LUM M Muse UTRORIZED SIGNATURE-SIGN IN INK	prior understanding, agreement, or connection with any corporation, for materials, supplies, or equipment, and is in all respects fair and with y all conditions of this bid and certify that I am authorized to sign to state of Plosina County OF:
I dertify that this bid is made without or person submitting a bid for the same sollusion or fraud. I agree to abide by bid for the bidder.  WIRDRIZED SIGNATURE—SIGN IN INK nsigned Bids will be disqualified erry M. Muse, General Manager	prior understanding, agreement, or connection with any corporation, fr materials, supplies, or equipment, and is in all respects fair and with y all conditions of this bid and certify that I am authorized to sign t
I dertify that this bid is made without or person submitting a bid for the same follusion or fraud. I agree to abide by did for the bidder.  WITHORIZED SIGNATURE-SIGN IN INK assigned Bids will be disqualified erry M. Muse, General Manager of thorized signature (Typed) TITLE	prior understanding, agreement, or connection with any corporation, fi materials, supplies, or equipment, and is in all respects fair and with y all conditions of this bid and certify that I am authorized to sign to STATE OF PLORIDA COUNTY OF:  The foregoing instrument was acknowledged before me this 12/3/97 by (Uate)  (Name of Person)
It dertify that this bid is made without or person submitting a bid for the same solution or fraud. I agree to abide by sid for the bidder.  WINDOW M. MUSE  UTHORIZED SIGNATURE—SIGN IN INK assigned Bids will be disqualified erry M. Muse, General Manager UTHORIZED SIGNATURE (Typed) TITLE ity Env. Svcs, Inc. of Florida	prior understanding, agreement, or connection with any corporation, finaterials, supplies, or equipment, and is in all respects fair and with y all conditions of this bid and certify that I am authorized to sign to STATE OF PLORINA COUNTY OF:  The foregoing instrument was acknowledged before me this 12/3/97 by (Date)
I dertify that this bid is made without or person submitting a bid for the same dellusion or fraud. I agree to abide by bid for the bidder.  WITHORIZED SIGNATURE-SIGN IN INK insigned Bids will be disqualified erry M. Muse, General Manager UTHORIZED SIGNATURE(Typed) TITLE ity Env. Svcs, Inc. of Florida ENDOR NAME	prior understanding, agreement, or connection with any corporation, for materials, supplies, or equipment, and is in all respects fair and with all conditions of this bid and certify that I am authorized to sign to state of Plosina County of:  STATE OF PLOSINA COUNTY OF:  The foregoing instrument was acknowledged before me this 12,3,9,7 by (Date)  (Name of Person)  who is personally known to me or who has produced  (Type of Identification)
I dertify that this bid is made without or person submitting a bid for the same dollusion or fraud. I agree to abide by bid for the bidder.	prior understanding, agreement, or connection with any corporation, finaterials, supplies, or equipment, and is in all respects fair and with all conditions of this bid and certify that I am authorized to sign STATE OF FLORIDA COUNTY OF:  The foregoing instrument was acknowledged before me this  (Name of Person)  who is personally known to me or who has produced

FED. ID # 38-2056600

(813) 623-5302

(AREA CODE) TELEPHONE NUMBER

#### PASCO COUNTY, FLORIDA INTEROFFICE MEMORANDUM

TO:

Frank Fortino

Purchasing Director

DATE: 12/4/97

FILE: UT98-306

SUBJECT: Transporting Leachate

Bid No. 98-014

FROM: Douglas S. Bramlett

Assistant County Administrator

(Utilities Services)

**REFERENCE:** 

Please accept this memorandum as my recommendation to award the subject bid to Coastal Environmental Services, Inc., as the lowest and best bid for all work specified under Item 1 and Item 2 combined.

The amount is estimated to be \$135,000.00, the account number is B450-752200-33400.

#### DSB/mvv

Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director Vincent Mannella, P.E., Solid Waste Facility Manager



### Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

November 21, 1997 Pasco County

Mr. Douglas Bramlett, Assistant County Administrator, Pasco County Utilities Services Public Worke/Utilities Bid., S-205 7530 Little Road New Port Richey, FL 34854

RE: Co-Treatment of Ash Leachate: City of Tampa's Howard F. Curren WWTP.

Dear Mr. Bramlett

CC:

The Department has received and reviewed your request, dated November 12, 1997, to transport ash leachate from your Hay's Road Resource Recovery Facility's Ash Cells [a.k.a. Cell A-1 & Cell A-2] to the City of Tampa's Howard F. Curren wastewater treatment plant ("WWTP") for co-treatment.

Based on the information currently available, the Department has no objections to your proposal to transport the above referenced ash leachate to Howard F. Curren WWTP for co-treatment, with the proviso that the City's WWTP must continue to operate within its permitted limits.

The Department strongly recommends that the ability of the WWTP to co-treat this leachate be evaluated by initially transporting for treatment a proportionally small volume of leachate (for example 10% of the anticipated total daily loading) and observing the effect of the leachate on the plant and its effluent. As the WWTP demonstrates it's ability to satisfactorily assimilate & treat the leachate, increase the loading.

if you have any questions, or require any further assistance, please contact. Mr. Pete Burghardt, Environmental Specialist II. at (813) 744-8100, extension 311.

Richard D. Garrity, Ph.D.,
Director of District Management

Southwest District

John Drapp, City of Tampa's Howard F. Curren WWTP, 2700 maritime Bivd. Tampa, FL 33605 Pete Burghardt, E.S. II, FDEP E. G. Snipes, P.E., FDEP J. A. Amato, P.E., FDEP Robert Butera, P.E., FDEP Kim Ford, P.E., FDEP Henry Dominick, P.E., FDEP

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

## PASCO COUNTY, FLORIDA INTEROFFICE MEMORANDUM

TO:	Honorable Chairman and Members of the Board of County Commissioners	DATE: 12/3/97 FILE: UTFSSP98-157
THRU:	Douglas 9. Bramlett Assistant County Administrator (Utilities Services)	SUBJECT: Purchase Requisition No. 030273 - City of Tampa's Howard F. Curren Wastewater Treatment Plant - Treatment of Leachate
FROM:	Robert J. Sigmond Utilities Fiscal Services/ Special Projects Director	REFERENCES: All Comm. Dists.
It is re County	commended that the data herein prese Commissioners.	ented be given formal consideration by the Board of
DESCF	RIPTION AND CONDITIONS	
County necess Enviro	y's landfill cells to various wastewater t	award to J & J Baker to transport leachate from the reatment plants around the County. This action was unts of rain-in-October and the Florida Department of ch requires that there is less than one foot of head a cells.
Enviro Waster to be d admin increas	nmental Protection for receipt of the water Treatment Plant. It is estimated the disposed of as a result of the heavy rains is trative charge of \$7.00 per load. But	just received approval by the Florida Department of leachate at the City of Tampa's Howard F. Currer at there is 6,000,000 gallons of leachate that remains at Currently, the rates are \$4.13 per thousand and are, it should be noted that the city is anticipating a rate two months; therefore, at the higher rate, this would
Pasco the Ci	County Utilities Services Branch recom ty of Tampa, Department of Sanitary Se	mends the Board approve Requisition No. 030273 to wer, for treatment of the leachate.
ALTEF	RNATIVES AND ANALYSIS:	
Appro remov	eval of this requisition will allow for proval of said leachate.	per treatment of the remaining leachate and expedit
Disapp leacha	proval will not allow for proper treatment ate from the solid waste cells.	of the leachate and slow the process of removing th
RECO	MMENDATION AND FUNDING:	
	Itilities Services Branch recommends the leachate.	at the Board approve the requisition for the treatmer
Fundi	ng is available in Account No. B450-752	2200-33400 (\$36,760.00).
ATTA	CHMENT:	$\frac{t_f}{t_f}$
1.	Florida Department of Environmental F	rotection's Approval Letter Dated November 21, 199
	•	
RJS/a	ni/g120301	
APPR	OVED AGENDA ITEM FOR	D.E.P.
DATE	<b>:</b>	DEC 1 1 1997

SOUTHWEST DISTRICT TAMPA

DATE\_\_\_\_\_



## Department of Environmental Protection

PASCO COUNTY UTILITIES

NOV 2 4 1997

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

November 21, 1997 Pasco County

Mr. Douglas Bramlett, Assistant County Administrator, Pasco County Utilities Services Public Works/Utilities Bld., S-205 7530 Little Road New Port Richey, FL 34654

RE: Co-Treatment of Ash Leachate: City of Tampa's Howard F. Curren WWTP.

Dear Mr. Bramlett:

CC:

The Department has received and reviewed your request, dated November 12, 1997, to transport ash leachate from your Hay's Road Resource Recovery Facility's Ash Cells [a.k.a. Cell A-1 & Cell A-2] to the City of Tampa's Howard F. Curren wastewater treatment plant ("WWTP") for co-treatment.

Based on the information currently available, the Department has no objections to your proposal to transport the above referenced ash leachate to Howard F. Curren WWTP for co-treatment, with the proviso that the City's WWTP must continue to operate within its permitted limits.

The Department strongly recommends that the ability of the WWTP to co-treat this leachate be evaluated by initially transporting for treatment a proportionally small volume of leachate (for example 10% of the anticipated total daily loading) and observing the effect of the leachate on the plant and its effluent. As the WWTP demonstrates it's ability to satisfactorily assimilate & treat the leachate, increase the loading.

If you have any questions, or require any further assistance, please contact Mr. Pete Burghardt, Environmental Specialist II, at (813) 744-6100, extension 311.

Richard D. Garrity, Ph.D.,
Director of District Management

Southwest District

John Drapp, City of Tampa's Howard F. Curren WWTP, 2700 maritime Blvd. Tampa, FL 33605 Pete Burghardt, E.S. II, FDEP

E. G. Snipes, P.E., FDEP
J. A. Amato, P.E., FDEP
Robert Butera, P.E., FDEP
Kim Ford, P.E., FDEP
Henry Dominick, P.E., FDEP

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

Post-it* Fax Note 7671	Date 12 Day 10
10 lous Granlett	From PA (
Co./Dept. PASCO Cu	Ca Cin of Tampa
Fax #	Phone #
	Fax #
•	

Mr. Doug Bramlett
Pasco County Utilities Services Branch
Public Works/Utilities Bldg., S-213
7530 Little Rd.
New Port Richey, FL 34654

November 26, 1997

Re: Issuance of a Temporary Waste Hauler Discharge Permit to Pasco County Utilities Services Branch, by the City of Tampa, Department of Sanitary Sewers.

Dear Mr. Bramlett:

The enclosed issued permit, No. 11-21-97-A, governs the discharge of hauled wastewater at a location to be determined at the City of Tampa Howard F. Curren Advanced Wastewater Treatment Plant. All discharges from your vehicles and actions and reports relating thereto shall be in accordance with the terms and conditions of this permit.

The discharge permit is attached to this letter. I am enclosing two copies of the front page of the discharge permit with a block reserved for your signature indicating acceptance of the limitations and conditions specified in this permit. Please sign both copies of the front page of the permit and return one of the signed copies to John M. Daily, City of Tampa, Industrial Waste Section, 2700 Maritime Blvd., Tampa, FL 33605.

If you have any questions about this permit please do not hesitate to contact John M. Daily at 247-3451.

Sincerely,

Ralph L. Metcalf II, P.E.
Director
Department of Sanitary Sewers

RLM:imd

xc: Richard D. Garrity, Ph.D., FDEP

D.E.P.

DEC 1 1 1997

TAMPA

# CITY OF TAMPA

# DEPARTMENT OF SANITARY SEWERS

# TEMPORARY WASTE HAULER DISCHARGE PERMIT

Facility Name	Pasco County Utilities Services Branch	Permit No. <u>11-21-97-A</u>
	Acceptance of Permit	A CONTROL OF THE CONT
de de de	co County Utilities Services Branch (name of facility) to meet the conditions herein	accepts the conditions of the
Permit period:	December 1, 1997 through May 31	. 1998
	By Suno U (signature)	(date)
90000 90000 10000 100000 100000 1000000	*Name Doug Bramle	nt
	Title Assistant County Ad	ministrator

\* Must be an authorized representative of Pasco County.

# City of Tampa

Department of Sanitary Sewers

Waste Hauler Discharge Permit

Cover Page

	Permit No. 11-21-97-A		
	of Section 26-122 of the City of Tan		
	Public Works/Utilitics Bldg., S-213	OTT. Date: Doctors,	300 m 1
7530	Little Rd., New Port Richey, FL	34654	
Telephone Number	813-847-8145		a content of the entrest
Name of Applicant	Doug Bramlett	200 Au	
compliance with this permit does	rampa, FL 33605 in accordance we not relieve the permittee of its oblicequirements under local, State, and F	ederal laws, including	any or all applicany such regulation
Compliance with this permit does ischarge regulations, standards or randards, requirements, or laws if	equirements under local, State, and F nat may become effective during the	ederal laws, including term of this permit.	any such regulati
Compliance with this permit does ischarge regulations, standards or randards, requirements, or laws illustrated and compliance with any term or co	not relieve the permittee of its con- equirements under local, State, and F- nat may become effective during the ndition of this permit shall constitute	ederal laws, including term of this permit.	any such regulati
Compliance with this permit does lischarge regulations, standards or retandards, requirements, or laws if woncompliance with any term or coordinance.  This permit shall become effective	equirements under local, State, and F and may become effective during the andition of this permit shall constitute on December 1, 1997	ederal laws, including term of this permit.	any such regulati
Compliance with this permit does lischarge regulations, standards or retandards, requirements, or laws if Noncompliance with any term or coordinance.  This permit shall become effective	not relieve the permittee of its con- equirements under local. State, and F- nat may become effective during the ndition of this permit shall constitute	ederal laws, including term of this permit.	any such regulati
Compliance with this permit does lischarge regulations, standards or restandards, requirements, or laws I	equirements under local, State, and F and may become effective during the andition of this permit shall constitute on December 1, 1997	ederal laws, including term of this permit.	any such regulation

Facility Name	Pasco County Utilities Services Branch	Permit No. <u>11-21-97-A</u>
Facility Name	Pasco County Utilities Services Branch	Permit No. 11-21-97-A

# PART 1 - APPLICABLE EFFLUENT LIMITATIONS

# **SECTION 1 - DISCHARGE REQUIREMENTS**

- A. The discharge of all hauled wastes must be performed at a location to be determined at the Howard F. Curren Advanced Wastewater Treatment Plant (HFCAWTP). Discharge to the City of Tampa sewer system at any other location is prohibited.
- B. Hauled wastes are subject to sampling by the Industrial Waste Section for billing and compliance purposes. Bills will be sent by our Customer Service division on a monthly basis. The hauler may be required to suspend the discharging of wastes until the analyses are complete. The City of Tampa reserves the right to refuse permission to dump any load.
- C. Only ash leachate generated at the Resource Recovery Site located on Hays Road in Spring Hill can be discharged to the HFCAWTP facility.
- D....All bauling must be conducted using pre-cleaned tank trailers. All hauling companies must be permitted by the Industrial Waste Section.
- E. The discharge will be limited to 60,000 gallons per day for a period not to exceed 120 days.
- F. The dumping must take place in a clean and orderly manner. Under no circumstances should any wastes be allowed to leak or spill onto the roadway. Each hauler is responsible for providing all fittings, hoses, etc. necessary to discharge directly to an 8" drain.
- G. Each driver before discharging waster shall sign a "Wastewater Discharge Invoice" certifying the quantity of leachate being discharged. Each driver must also provide a manifest signed by the Authorized Representative of Pasco County certifying the source of the wastes.
- H. The disposal charges will be \$4.13 per thousand gallons, plus a \$7.00 per load service charge. Surcharges will be added for the disposal of extra strength wastes. The surcharges will be \$0.201 per pound of Biochemical Oxygen Demand (BOD) if the concentration of any wastes exceeds 230 mg/l., \$0.286 per pound of Total Suspended Solids (TSS) if the concentration of any wastes exceeds 190 mg/l, and \$1.732 per pound of Total Kjeldahl Nitrogen (TKN) if the concentration of any wastes exceeds 30.0 mg/l. Surcharges are subject to change
- I. The Industrial Waste Section shall be notified of any changes involving address, phone, contact person, etc. within seven days of the change.
- J. Permits are not transferable.
- K. Safe vehicle operation on the plant site is expected.

Permit No. 11-21-97-A

Facility Name Pasco County Utilities Services Branch

L. Violation of any of these conditions could result in the loss of dumping privileges as well as fines as outlined in Chapter 26 of the City of Tampa Code.

# **SECTION 2 - SPECIFIC LIMITATIONS**

- A. Any waste that may cause pass through of pollutants or interference with the wastewater treatment plant operations or that violates Federal, State, or local restrictions shall not be discharged to the wastewater plant.
- B. Any waste transported from an industry subject to categorical pretreatment standards must meet the applicable Federal categorical standards. Authorization by the City of Tampa, Industrial Waste Section prior to dumping must be obtained for the hauling of categorical wastes.
- C. It shall be unlawful for any person to discharge or deposit any of the following materials, waste materials, wastes, gases or liquids into the dump pit:
  - 1. Any pollutant which creates a fire or explosion hazard in the POTW, including, but not limited to, wastewaters with a closed cup flashpoint of less than 140 degrees Paliteurisit or 60 degrees Contigrade using the test methods specified in 40 CFR 261.21.
  - 2. Any water or wastes having a pH lower than 6.0 or higher that 11.0, or having any other corrosive properties capable of either causing damage or creating a hazard to structures, equipment and/or personnel of the department. A variance to the upper pH limit may be granted if it has been determined to be beneficial to the department. An application for the variance must be made in writing to the Director. The variance may be terminated at any time it is determined the discharge is causing damage or creating a hazard to structures, equipment and/or personnel of the department.
  - 3. Any solid of viscous substance in quantities capable of causing obstruction to flow in sewers or resulting in interference with the proper operation of the treatment works, including but not limited to ashes, cinders, ceramic wastes, sand, mud, straw, shavings, thread, glass, rags, metal, feathers, bones, tar, plastics, wood, paunch manure, insulation materials, fibers of any kind, stock or poultry feed, processed grains, viscera or other fleshy particles from meat, poultry or seafood processing or packing plants, lime or similar sludges.
  - 4. Any pollutants, including oxygen-demanding pollutants (BOD), etc., discharged into any treatment works in such a flow rate or strength as to cause interference with the operation or performance of the treatment works.
  - 5. Any waste, liquid or vapor at such a temperature as will create hazardous conditions within, or cause deterioration of, the sanitary sewers, or inhibit the biological activity in the treatment works resulting in interference, but in no case heat in such quantities that the temperature of the influent at the treatment works exceeds forty (40) degrees Centigrade (one hundred four (104) degrees Fahrenheit). Unless a specific temperature is a condition of the user's wastewater discharge permit, no user shall discharge effluent into any sewer line of the treatment works exceeding sixty (60) degrees Centigrade (one hundred-forty (140) degrees Fahrenheit).

Facility Name	Pasco County Utilities Services Branch	Permit No. 11-21-97-A
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- 6. Any water or waste containing fats, wax, grease or oil, whether or not emulsified, in excess of one hundred (100) milligrams per liter by weight, which may solidify or become viscous at temperatures between forty (40) and one hundred-forty (140) degrees Fahrenheit.
- 7. Wastewater from industrial plants containing floatable oils, fat or grease
- 8. Any garbage that has not been properly shredded.
- 9. Any waters or wastes having a color which is not removable by the existing wastewater treatment plant processes and which causes the plant effluent to exceed color requirements for discharge to the receiving waters.
- 10. Any gasoline, benzene, naphtha, kerosene, toluene, xylene or other hydrocarbon solvents or oils, or other flammable or explosive liquids, solids or gases or fuel tank bottom waters or fuel contaminated ground water.
- 11. Any noxious of malodorous gas or any substance capable of creating a public nuisance or hazard to life or preventing entry of workmen into the treatment plant or collection system for maintenance, inspection or repair.
- 12. Any unpolluted wastewater of stormwater runoff or ground water.
- 13. Any contents removed from septic tanks, greate traps, or food services separators.
- 14. Any toxic or poisonous substance or any other materials in sufficient quantity, either singly or by interaction with other pollutants, to injure or interfere with the wastewater treatment processes, or to contribute a hazard to humans or animals, or to cause a violation of the water quality standards for the stream or watercourse reserving the effluent from department operated treatment works, or cause sludge products to be unsuitable for recommittee and reuse of to exceed the limitations set forth in a pretreatment standard. A toxic pollutant shall include, but not be limited to, any pollutant identified pursuant to Section 307(a) of the Clean Water Act.
- 15. Permissible concentrations of heavy metals and other incompatible pollutants in the discharge of any user of the treatment works will be evaluated and revised from time to time. Such limitations will recognize the total quantity of each such material received at the treatment works, the tolerance of the treatment processes thereto, the efficiency in removal of the material and the appropriate effluent or stream standards adopted by the state or federal regulatory agencies.
- 16. Material considered a hazardous waste under the Resource Conservation and Recovery Act (RCRA).

Facility Name Pasco County Utilities Services Branch

Permit No. 11-21-97-A

17. The following maximum daily concentrations and monthly averages of certain metals are hereby established:

Metal	Daily Maximum mg/l	Monthly Average mg/l
Arsenic as As	0.10	9.05
Barium as Ba	10.0	5.0
Cadmium as Cd	0.4	0.2
Chromium as Cr (Total)	5.0	2.5
Copper as Cu	3.6	1.8
Lead as Pb	0.6	0.3
Manganese as Mn	2.0	1.0
Mercury as Hg	0.010	0.005
Nickel as Ni	3.6	1.8
Selenium as Se	0.04	0.02
Silver as Ag	يم 1.0	0.3
Zinc as Zn	3.6	F. S.

- 18. Cyanide or cyanogen compounds capable of liberating hydrocyanic gas on acidification in excess of one (1) mg/l by weight as CN are prohibited.
- 19. Any radioactive isotope in concentration greater than that permitted by the latest effective regulations promulgated under applicable federal or state law.
- 20. Any pollutant, except in compliance with federal standards promulgated pursuant to the Clean Water Act, and any more stringent state or local standards.

DEC 01.97 15:08 NO.012 P.10

Facility Name Pasco County Utilities Services Branch Permit No. 11-21-97-A

# PART 2 - MONITORING AND REPORTING REQUIREMENTS

# **SECTION 1 - MONITORING REQUIREMENTS**

A. During the period of this permit when wastes are hauled for disposal at the HFCAWTP, the permittee shall monitor the leachate at the Resource Recovery Site for the following:

	•	<u> </u>	500 1 m
Parameter	Location	Frequency	Sample Type
		STATE OF STA	t produkter. Produkter
pН	Resource Recovery Site	Weekly	Grab
BOD, mg/l	Resource Recovery Site	Weekly	Grab
TSS, mg/l	Resource Recovery Site	Weekly	Grab
TKN, mg/l	Resource Recovery Site	Weekly	Grab
Chloride, mg/l	Resource Recovery Site	Weekly	Grab
Arsenic, mg/l	Resource Recovery Site	Weekly	Grab
Cadmium, mg/i	Resource Recovery Site	Weekly	Grab
Chromium, mg/l	Resource Recovery Site	Weekly	Grab
Copper, mg/l	Resource Recovery Site	Weekly **	Grab
Lead, mg/l	Resource Recovery Site	Weekly	Grab
Nickel, mg/l	Resource Recovery Site	Weekly	Grab
Selenium, mg/l	Resource Recovery Site	Weekly	Grab
Silver, mg/l	Resource Recovery Site	Weekly	Grab
Zinc, mg/l	Resource Recovery Site	Weekly	Grab

- B. All sampling handling preservation and analyses of collected samples shall be performed in accordance with Chapter 17-160 F.A.C. unless specified otherwise in this section of the permit. Laboratory service may be provided by qualified in house personnel, provided the laboratory is HRS certified for the parameters tested and has an approved DEP QA/QC plan for all work reported to the City; or by contract with an HRS certified external laboratory.
- C. See PART 4 SECTION 4 Paragraph A of this permit regarding sampling requirements.

Facility Name Pasco County Utilities Services Branch	Permit No	11-21-97-A
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# **SECTION 2 - REPORTING REQUIREMENTS**

# A. Monitoring Reports

- 1. Analytical monitoring results obtained shall be summarized and reported within 30 days following the sampling date. The report shall include a copy of all analytical results, and the certification statement established in PART 4 SECTION 4 (E) of this permit.
- B. Pursuant to the reporting requirements of 62-625.600(6)(e) F.A.C., the results of all monitoring performed more frequently than required by this permit, using test procedures approved under PART 2 SECTION 1 (B), shall be submitted with the report.
- C. When a self-monitoring report shows any violation of the applicable standards included in PART 1 of this permit, the permittee <u>must</u> resample and submit both results within 30 days of receiving original sample results, except the permittee is not required to resample if:
  - (1) The Control Authority performs sampling at the permittee at a frequency of at least once per month, or
  - (2) The Control Authority performs sampling at the permittee between the time when the permittee performs its initial sampling and the time when the permittee receives the results of this sampling.

The permittee <u>must</u> notify the Industrial Waste Division within 24 hours of receipt of monitoring results if the results indicate any violation of applicable standards.

D. Signatory regulariments are established in PART 4 SECTION 4 (E) of this permit.

# E. Accidental Discharge Report

- 1. The permittee shall notify the City of Tampa, Industrial Waste Section, immediately upon its having knowledge of the occurrence of an accidental discharge of substances regulated by this permit or prohibited by Chapter 26, City of Tampa Code. At all times the City of Tampa, Industrial Waste Section shall be notified by telephone at (813) 247-3451. The notification shall include location of discharge, date and time thereof, type of waste, including concentration and volume, and corrective actions taken.
- 2. Within five days following such notice, the permittee shall submit to the City of Tampa AWTP a detailed written report. The report shall specify:
  - a. Description and cause of the upset, slug or accidental discharge, the cause thereof, and the impact on the permittee's compliance status. The description should also include location of discharge, type, concentration and volume of waste.

Permit No. 11-21-97-A Pasco County Utilities Services Branch Facility Name\_\_\_\_

Duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur.

All steps taken or to be taken to reduce, eliminate, and prevent recurrence of such an upset, slug, accidental discharge, or other conditions of non-compliance.

All reports required of this permit shall be submitted to

City of Tampa Industrial Waste Section 2700 Maritime Blvd. Tampa, FL 33605.

# PART 3 - SPECIAL CONDITIONS / COMPLIANCE SCHEDULES

1. The City of Tampa reserves the right to limit or suspend the discharge of wastes or to immediately terminate this permit in the event the HFCAWTP experiences interference or any other treatment problems during the period of this permit.

2. The City of Tampa reserves the right to limit or suspend the discharge of wastes or to adjust disposal charges in the event the treatment of sulfide compounds in the ash leachate creates odor abatement problems, or if the treatment of chemical oxygen demand in the ash leachate creates excess oxygen demand.

Facility Name Pasco County Utilities Services Branch Permit No. 11-21-97-A

### PART 4 - STANDARD CONDITIONS

# **SECTION 1 - DEFINITIONS**

- A. AWTP Advanced Wastewater Treatment Plant
- B. Composite sample shall mean a minimum of eight (8) grab samples collected at equally spaced one (1) hour intervals, per operating shift, and proportioned according to flow. The use of a properly operated automatic composite sampler is acceptable.
- C. Daily maximum the maximum allowable discharge concentration of pollutant during a calendar day.
- D. Grab sample for monitoring requirements, is defined as an individual sample which is taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time. Daily pH monitoring may be performed by either grab sample or continuous pH electrometric probe monitoring.
- E. Monthly average the maximum allowable value for the average of all observations obtained during one calendar month.
- F. POTW Publicly Owned Treatment Works

### SECTION 2 - GENERAL CONDITIONS

# A. Duty to Comply

The permittee must comply with all conditions of this permit. Failure to comply with the requirements may be grounds for administrative action, or enforcement proceedings including civil or criminal penalties, injunctive relief and summary abatements.

# B. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment, public health or POTW resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

Dec 01,97 15:10 No.012 P.14

Facility Name P	asco County Utilities Services Branch	Permit No	11-21-97-A
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# C. Permit Action

This permit may be modified, revoked and reissued, or terminated for causes including, but not limited to, the following:

- Violation of any terms or conditions of this permit;
- Transfer of ownership;
- Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- A change in any condition of the discharge that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- Information indicating that the permitted discharge poses a threat to human health or welfare, or property real;
- Upon request of the permittee, provided such request does not create a violation of any existing applicable requirements, standards, laws, or rules and regulations;
- Material or substantial alterations or additions to the dischargers operation that adversely impact the wastewater discharge and which were not in existence as of the date of the issued permit;
- To incorporate any new or revised Federal, State, or City pretreatment standards or requirements, to protect the operation of the treatment plant,
- Wastewater discharge volumes that have an average change of 20% or more during the six month period.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

# D. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

Facility Name\_ Pasco County Utilities Services Branch

Permit No. 11-21-97-A

# E. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

# F. Limitation on Permit Transfer

Wastewater discharge permits are issued to a specific user for a specific operation and are not assignable or transferable to any other user. The permittee must inform the City of Tampa at least thirty (30) days in advance of all proposed owner/operator transfers.

# G. Dilution

No Permittee shall increase the use of potable or process water, or in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

# H. Duty To Reapply

If the permittee desires to continue to discharge after the expiration of this permit, the permittee shall reapply on the application forms then in use at least ninety (90) days before this permit expires. Under no circumstances shall the permittee continue to discharge after the expiration of the permit, unless reapplication was submitted as required. Continued discharge under the conditions of the expired permit is authorized until the new permit is issued.

# Personnel Safety

The permittee shall provide asie inspection conditions for city pretreatment program personnel and shall provide such personnel with all necessary safety information regarding the facility's safety policy pertaining to required personal safety gear.

# SECTION 1 - OPERATIONS AND MAINTENANCE OF POLLUTION CONTROLS

# A. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes but is not limited to: effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

Facility Name Pasco County Utilities Services Branch Permit No. 11-21-97-A

# B. Duty to Halt or Reduce Activity

Upon reduction, loss or failure of the pretreatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or all discharges or both until operation of the pretreatment facility is restored. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

# C. Bypass of Treatment Facilities

- 1. Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternative exists.
- 2. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation.

# 3. Notification of bypass:

- Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, if possible at least ten days before the date of the bypass, to the City of Tampa AWTP (addresses specified in PART 2 SECTION 2 (E) of this permit).
- Unanticipated bypass. The permittee shall immediately notify the City of Tampa AWTP and submit a written notice to the City of Tampa AWTP within five days of the bypass as specified in PART 2 SECTION 2 (E) of this permit.

# D. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in accordance with section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

# SECTION 4 MONITORING AND RECORDS

# A. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. The sampling shall be done on a day of normal to maximum process operation. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water or substance. Monitoring points shall not be changed without notification to and the approval of the City of Tampa.

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Facility Name Pasco County Utilities Services Branch Pormit No. 11-21-97-A

### B Impostion and Entry

The permittee shall allow the City of Tampa, or an authorized representative, upon the presentation of a City of Tampa employee photo-identification card, to:

- Enter upon the permitter's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- Have access to and copy any records that must be kept under the conditions of this permit;
- Inspect any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit,
- Sample or monitor, for the purposes of assuring permit compliance, any substances or parameters at any location;
- Inspect any production, manufacturing, fabricating or storage area where pollutaris, regulated under the permit, could originate.

### C. Retention of Records

- 1. The permittee shall retain records of all monitoring information, including all calibration and maintenance records, all original strip chart reobvidings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least tires years from the date of the sample, measurement, report or application. This period may be extended by request of the City of Tampa at any time.
  - 2. All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the City of Tampa shall be retained and preserved by the permittee until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

### D. Record Contents

Records of sampling information shall include.

- The date; exact place, time and methods of sampling or measurements, and sample preservation techniques or procedures;
- Who performed the sampling or measurements;

Dec 01,97

Pasco County Utilities Services Branch Facility Name

Permit No. 11-21-97-A

- The date(s) analyses were performed;
- Who performed the analyses;
- The analytical techniques or methods used;
- The results of such analyses; and
- Proper chain of custody documentation.

# E. Signatory Requirements

TAMPAZAWTP

All applications, permits, reports or information submitted to the City of Tampa shall be signed and certified as indicated below:

- 1. By an authorized representative of Pasco County. An authorized representative of Pasco County shall mean:
  - a. An elected official or their legal representative.
  - d. A duly authorized representative of a person indicated in (a) above if authorization has been made in writing on a prescribed authorization form submitted to the City of Tampa Industrial Waste Section. (Should authorization no longer be accurate because a different individual or position has responsibility for environmental matters for the county, a new authorization form for the new representative must be submitted to the City of Tampa Industrial Waste Section.)
- 2. Certification. Any person signing a document required by this permit shall make the following certification:

"I certify under penalty of law that I am familiar with the information contained in this report and its attachments and that to the best of my knowledge and belief such information is true, complete and accurate. H

3. Any change in signature shall be submitted to the City of Tampa writing within 30 days after the change.

# P. Falsifying Information

Knowingly making any false statement on any report or other document required by this permit or knowingly rendering any monitoring device or method inaccurate, may result in punishment under criminal law proceedings as well as being subjected to civil penalties and injunctive relief.

TTY OF THMPHAHUIP TEL-1-815-248-5269 Det 01,90 15-10 NO.015 P.O

Facility Name Pasco County Utilities Services Branch Pern	nit No	11-21-97-A
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# SECTION 5 - ADDITIONAL REPORTING REQUIREMENTS

# A. Planned Changes

The permittee shall give notice to the City of Tampa 30 days prior to any facility expansion, production increase, or process modifications which results in new or increased discharge volumes that have an average change of 20% or more, over a six month period or which results in a change in the nature of the discharge.

# B. Duty to Provide Information

The permittee shall furnish to the City of Tampa, within a reasonable time, any information which the City of Tampa may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the City of Tampa upon request, copies of records required to be kept by this permit.

### **SECTION 6 - ENFORCEMENT**

# A. Recovery of Costs Incurred

The permittee violating any of the provisions of this permit, Chapter 26, City of Tampa Code, or causing a discharge producing a deposit or obstruction or causing damage to or otherwise inhibiting the City's wastewater disposal system shall be liable to the City for any expense, loss, or damage caused by such violation or discharge. The City shall bill the permittee for the costs incurred for any cleaning, repair, or replacement work caused by the violation or discharge. Refusal to pay the assessed costs shall constitute a violation of this permit and Chapter 26, City of Tampa Code.

# B. Civil and Crimina Liability

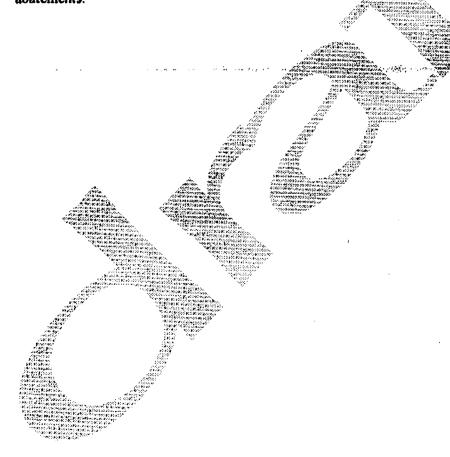
Nothing in this permit shall be construed to relieve the permittee from civil and/or criminal penalties for non-compliance under Chapter 26, City of Tampa Code.

# C. Penaltics for Violations

- 1. Pursuant to Chapter 1, City of Tampa Code, any person who violates a permit condition is subject to a civil penalty not to exceed \$1000 per day, or by imprisonment for a period not exceeding six (6) months or by both. Each day any such violation shall continue shall constitute a separate offense and shall be punished as such.
- 2. The Director of the Sanitary Sewer Department shall endeavor to assure compliance with the requirements of Chapter 26, City of Tampa Code. If such efforts, over a reasonable period of time are futile, the Director shall take formal action to include but not limited to disconnection of water and sewer service.

Facility Name Pasco County Utilities Services Branch Permit No. 11-21-97-A

- 3. In the event the permittee's discharge exceeds the limits established by this permit and thereby causes damage to the City of Tampa's infrastructure or causes violations of the AWTP discharge permits, or causes injury to any person or property, the permittee shall indemnify the City of Tampa for all costs, including court costs, Attorney's fee and liabilities incurred as a result of said discharge.
- 4. Issuance of this permit shall not relieve the permittee from complying with all applicable permits, laws, regulations and ordinances promulgated by the City or other governmental authorities. Nor shall issuance of this permit be construed as a representation by the City that the discharge permitted herein complies with all such permits, laws, regulations and ordinances.
- 5. Any non-compliance with this permit or Chapter 26, City of Tampa Code, shall be grounds for administrative action and/or enforcement proceedings including civil or criminal penalties, injunctive relief and summary abatements.



# **AUTHORIZATION OF APPROVED REPRESENTATIVE**

Permittee Name			A	<del></del>	
Address					
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County and am able to pe	norm poncy and decis	Making tonco	iis ioi the cou	my.	
I hereby duly authorize	And the second s	, wl	hose signature	also appears belo	w to be my
representative. I authorize	my representative to s	sign all applications	, permits, repo	orts or information	ı submitted
to the City of Tampa on T	ny behalf.				
Signed	**************************************				
Title	2000 2000 2000 2000 2000	,			
Signature of Authorized I	Representative				
Title of Representative					



Lawton Chiles

Governor

# Department of **Environmental Protection**

PASCO COUNTY HTILITIES

DEC 0 1 1997

Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell

Secretary

November 21, 1997

Mr. Vince Mannella, P Solid Waste Management Pasco County Utilities

7536 State Street

New Port Richey, FL 34654

> West Pasco Landfill, Disposal Units A-1 and A-2 Re:

#PA87-23, Pasco County

Dear Mr. Mannella:

On November 18, 1997, the Department sent Warning Letter #WL97-0008SW51SWD regarding Disposal Units A-1 and A-2 (copy attached). Attached are documents concerning additional related issues that have not been resolved.

- DEP's March 12, 1997 letter and copy of the approved operations 1. plan for the landfill disposal units A-1 and A-2, Sections 8.2.6 and 8.2.8 describe the use of control valves and berms to isolate and minimize leachate generation. The current method and sequence of filling conflicts with this approved plan. revised operations plan has been requested but has not been provided. On March 18, 1997, staff observed the bottom of disposal unit A-2 covered with ash rather than segmenting stormwater from leachate. Leachate generation has not been minimized.
- Pasco County's September 29, 1997 letter describes placement of 2. super sacks of chlorides in disposal unit A-2, and CDM's January 11, 1996 letter regards the same. On October 6, 1997, staff observed broken and damaged sacks and uncontained/spilled chlorides. The bag breaches have not been minimized.
- Leak detection system flow rates have varied from 5,800 to 2,600 3. gallons of leachate removed from disposal unit A-2 from October 2 until November 12, 1997. An evaluation describing the significance of these leakage rates has been requested by phone as we discussed on November 21, 1997.

The Department requests an amended operations plan to provide for minimized leachate generation and containment of chlorides by December 5, 1997. The amended operations plan should be accompanied by a corrective actions plan to resolve current deviations from the approved operational plan and unfavorable site conditions addressed in this letter and a schedule for completion.

Mr. Vincent Mannella, P.E. Solid Waste Management

November 21, 1997 Page Two

On all future correspondence, please include Robert Buters on distribution. If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.S. Solid Waste Section Division of Waste Management

KBF/ab Attachment

CC: John Gallagher, Pasco County
Douglas Bramlett, Pasco County
Robert Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa

Post-it* Fax Note 7671	Date 12/10/97   Pages 2
To Dorg Brambett	From Vicho
Co./Dept.	Co
Phone #	Phone #
Fax # 847-8064	Fax 9 276-0119

# PASCO COUNTY, FLORIL INTEROFFICE MEMORANDUM

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TO:

Honorable Chairman and

Members of the Board of **County Commissioners** 

DATE: 11/10/97

FILE: UT98-187

SUBJECT: Task Order No. 1-98 - Law

**Engineering and Environmental** Services, Inc. - Leachate Generation at West Pasco Landfill - Cells A-1

and A-2

FROM: Douglas S. Bramlett

Assistant County Administrator

(Utilities Services)

REFERENCES: All Comm. Dists.

It is recommended that the data herein presented be given formal consideration by the Board of County Commissioners.

# **DESCRIPTION AND CONDITIONS:**

The West Pasco Landfill currently has two ash monofil cells (A-1 and A-2) which, due to normal rainfall within each of the ten-acre lined cells, generates ash leachate which must be collected, treated, and disposed. The existing Leachate Management Facility is having operational problems; therefore, it is necessary to proceed with a "rain cap" on top of Cell A-1 and a "rain catch basin" inside of A-2.

Staff has solicited the attached task order from Law Engineering and Environmental Services, Inc., to provide specifications and design of the rain cap and temporary rain catch basin to eliminate rains from entering these cells thus substantially reducing the amount of leachate generated within each This work will be accomplished in approximately 90 days at a not-to-exceed cost of \$10,735.00. Staff recommends approval.

# **ALTERNATIVES AND ANALYSIS:**

Approval of the attached task order will provide needed design and specifications for this work to reduce rainfall generation in Cells A-1 and A-2.

Disapproval of the attached task order will delay construction of the rain cap for Cell A-1 and rain catch basin for Cell A-2, which will cause a continued problem with excess leachate.

# **RECOMMENDATION AND FUNDING:**

The Utilities Services Branch recommends that the Board of County Commissioners approve the attached Task Order No. 1-98, authorize the Chairman to execute the four original agreements provided, and direct Secretarial Services to distribute the agreements as follows: one original to be retained by Secretarial Services; one original to OMB, New Port Richey; one original to the Utilities Service Branch, New Port Richey; and one original to be mailed to:

> Richard E. Meyer, P.E. Law Engineering and Environmental Services, Inc. 4919 W. Laurel Street Tampa, FL 33607 Telephone (813) 289-0750 Federal ID No. 59-2591324

Funding is available in Account No. B450-752200-33100.

# **ATTACHMENTS**:

Agreement (Four Originals)

DSB/ut/law01 APPROVED AGENDA ITEM FOR DATE BY

DEC 1 1 1997

UIHWEST TAMPA

# **ORIGINAL**

# TASK ORDER 1-98 TECHNICAL ASSISTANCE IN MINIMIZING LEACHATE GENERATION AT THE WEST PASCO LANDFILL, CELLS A-1 AND A-2

Prepared for:

# PASCO COUNTY UTILITY SERVICES BRANCH Pasco County, Florida

Prepared by:

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC. Tampa, Florida

November 1997

LAW Proposal TE97-1113

# Task Order 1-98

Technical Assistance in Minimizing Leachate Generation at the West Pasco Landfill, Cells A-1 and A-2 Pasco County Utilities Service CLAW Proposal TE97-1113

# Task Order 1-98

# Technical Assistance in Minimizing Leachate Generation at the West Pasco Landfill, Cells A-1 and A-2

# A. SCOPE OF SERVICES

The scope of this Task Order shall include technical assistance in minimizing leachate generation at the West Pasco Landfill, Cells A-1 and A-2. The specific services which the Consultant agrees to furnish are stipulated in ATTACHMENT A - SCOPE OF SERVICES.

# **B. TIME OF COMPLETION**

The Time of Completion for Task Order 1-98 will be no later than one month after the signed task order is received.

Work under this task order will begin within one week following written authorization.

# C. COMPENSATION

Professional fees for Task Order 1-98 shall be in accordance with the provisions of the AGREEMENT to FURNISH PROFESSIONAL SERVICES to Pasco County. The maximum total billing limit for this task order shall be \$10,735. An approximate breakdown of the costs to be incurred under this revision is provided in ATTACHMENT B - COMPENSATION.

# D. ACCEPTANCE

By signature hereon, the parties each accept the provisions of TASK ORDER 1-98, and authorize the Consultant to proceed at the direction of the County's representative, in accordance with the "SCOPE OF SERVICES."

November, 1997 Technical Services

Pasco County Utilities Service LAW Proposal TE97-1113

(SEAL)

JED PITTMAN CLERK OF CIRCUIT COURT BOARD OF COUNTY COMMISSIONERS OF PASCO COUNTY, FLORIDA

CHAIRMAN

BY Claine H. mitchell DEPUTY CLERK

APPROVED

NOV 1 8 1997 LAW ENGINEERING and ENVIRONMENTAL SERVICES, INC.

WITNESS. Judith Tallent

BY: Muy & Mayre

WITNESS:

TITLE: NUM/O/LCC

Dated this \_\_\_\_\_\_, 1997

APPROVED AS TO LEGAL FORM AND CONTENT OFFICE OF THE COUNTY ATTORNEY

BY: ATTORPHEN

Pasco County Utilities Servic

LAW Proposal TE97-1113

November, 1997 Technical Services

TASK ORDER 1-98
ATTACHMENT A
SCOPE OF SERVICES

Pasco County Utilities Service LAW Proposal TE97-1113

# ATTACHMENT A Task Order 1-98

# Technical Assistance in Minimizing Leachate Generation at the West Pasco Landfill, Cells A-1 and A-2

# I. GENERAL INFORMATION

Owner:

Pasco County, Florida

Department:

Utility Services Branch

Contact:

Douglas S. Bramlett

Assistant County Administrator

Phone:

813-847-8145

# II. BACKGROUND & DESCRIPTION OF PROJECT:

The Florida Department of Environmental Protection (FDEP) has requested that Pasco County reduce the quantity of leachate being generated from Cell A-2 of the West Pasco Landfill. In addition, the leachate generation rate from Cell A-1 tends to increase significantly after heavy rains which results in added treatment costs. The County has asked Law Engineering and Environmental Services Inc. (LAW) to provide technical assistance in lowering leachate rates from both cells.

LAW assisted the County with a preliminary investigation of alternatives for lowering generation rates and it was decided to modify the operation plan at Cell A-2 and place a low permeability layer over the ash in Cell A-1.

# III. SCOPE OF SERVICES

LAW will prepare an operations plan to include filling procedures and possibly the use of a rain tarp to limit rainfall infiltration in inactive areas of Cell A-2. LAW will work closely with the County and submit a draft plan to the County for comments. We will incorporate the County's comments into the plan and submit it to the FDEP. LAW will respond to any comments the FDEP may have.

LAW will prepare a plan for surface preparation, material and construction specifications for placing a low permeability layer over Cell A-1. LAW will work closely with the County and submit a draft plan to the County for comments. We will incorporate the County's comments into the plan and submit it to the FDEP. LAW will respond to any comments the FDEP may have. We understand the County is considering performing the construction. Our scope

Pasco County Utilities Service
LAW Proposal TE97-1113

November, 1997 Technical Services

includes two site visits during construction. The FDEP has requested As Built plans for the construction activities and LAW will provide these. Our scope does not include surveys and we anticipate the County will provide these if needed.

# IV. ESTIMATED COSTS

The estimated cost for completing the project is \$10,735. If the actual cost of performing the scope of services described above is less than \$10,735 the County will only be charged for actual labor and expenses incurred. A detailed presentation of man-hours and the cost for labor and expenses is included in Attachment B.

Pasco County Utilities Servic LAW Proposal TE97-1113

November, 1997 Technical Services

TASK ORDER 1-98
ATTACHMENT B
COMPENSATION

Pasco County Utilities Service LAW Proposal TE97-1113

November, 1997 Technical Services

# **COMPENSATION**

The total estimated fee for the scope of services described above is \$10,735. A detailed breakdown of fees is tabulated in the attached table. A Billing Rate Schedule follows the Fee Estimate for this project.

CCST ESTIMATE ING AND ENVIRONMENTAL, INC. ENGIN. PROJECT: Task Order 1-98 PREPARED BY: REM NUMBER: TE97-1113 Pasco County 11/6/97 CLIENT: PHONE # 813 847 8145 **CONTACT: Vince Mannella** h:\USERS\40140\COMMON\TE971113.XLS \*\*\*\*\* locater> SUMMAR Page 1 **MANHRS** \$LABOR **\$EXPENSE \$TOTAL\*** TASK NO. TASK NAME 4353 4310 TASK 1 **DRAWINGS** 62 43 44 3204 0 3204 **SPECIFICATION** TASK 2 1739 1739 0 **OPERATIONS PLAN** 23 TASK 3 1439 TASK 4 **PERMITTING** 19 1439 0 148 \$10,692 \$10,735 TOTALS: STATISTICS/CRITERIA: \$72.24 AVE. LABOR PER HR.:

1.00 1.00

\$0

(EXCEPT WHERE CHANGED)

(APPLIED TO EA TASK TOTAL ABOVE)

(SPREAD THRU TASK TOTALS ABOVE)

Rate

37.00

47.00

57.00

37.00 65.00

75.00

92.00

115.00

**MULTIPLIER ON EXPENSES:** 

\* CONTINGENCY FACTOR:

Employee Class Code / Title

\* TOTAL CONTINGENCY:

700/Word Processor

306/Senior Draftsperson

200/ Senior Technician 170/Technician III

302/Staff Professional II

303/Professional/Project Manager 304/Senior Professional/Project Man

305/Principal I/Project Manager

COST ESTIMATE TASK 1	Page 2 DRAWINGS	Number: TE		Date:	35740
POSITION PERSON	,	\$/HR.	MANHOURS	EST. COST	
7000Nord Decoder		37.00	2	74	
700/Word Processor 306/Senior Draftsperson		47.00	24	1,128	
200/ Senior Technician		57.00	0	0	
170/Technician III		37.00	0	0	
302/Staff Professional II		65.00	0	0	
303/Professional/Project Mana	ager	75.00	12	900	
304/Senior Professional/Proje		92.00	24	2,208	
305/Principal I/Project Manage		115.00	. 0	0	
0		0.00	0	0	
		0.00	0	0	
		0.00		0	
	Total Labor	TASK 1	62	\$4,310	
EXPENSES	UNIT COST	MULT.	UNITS	EST. COST	
Mileage	0.31	1.00	140	43.40	
		1.00		0 0	
		1.00		0	
		1.00		o	
				0	
		Total Direct	+ Evnonese	\$43	
	Total Cost-	TASK 1	LExpenses	<b>443</b>	\$4,353
					• •
TASK 2	SPECIFICATION	N		•	
TASK 2 POSITION PERSON	SPECIFICATION	\$/HR.	MANHOURS	EST. COST	
POSITION PERSON	SPECIFICATION	\$/HR. 	******	********	
POSITION PERSON  700/Word Processor	SPECIFICATIO	\$/HR.  37.00	10	370	·
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Task Order 1

LAW ENVIRONMEN

COST ESTIMATE	Page 3	Number: Ti		Date:	35740
TASK 3	OPERATIONS	PLAN			
POSITION PERSON		\$/HR.	MANHOURS	EST. COST	
700/Mord Proposer		37.00	. 4	148	
700/Word Processor					
306/Senior Draftsperson		47.00	4	188	
200/ Senior Technician		57.00	0	0	
170/Technician III		37.00	0	0	
302/Staff Professional II		65.00	0	0	
303/Professional/Project Mana		75.00	0	0	•
304/Senior Professional/Project	<del>-</del>	92.00		1,288	
305/Principal I/Project Manage	r	115.00	1	115	
0		0.00	0	0	
		0.00	0	0	
		0.00	0	0	
			0	0	
	Total Labor	TASK 3	23	\$1,739	
EXPENSES	UNIT COST	MULT.	UNITS	EST. COST	
		4.00		0.00	
		1.00	1	0.00	
		1.00	2	0	
		1.00		0	
				0	
•		1.00		0	
				0	
		Total Direc	t Expenses	\$0	
	Total Cost	TASK 3	•		\$1,739
TASK 4	PERMITTING				
TASK 4 POSITION PERSON	PERMITTING	\$/HR.	MANHOURS	EST. COST	
POSITION PERSON	PERMITTING	••	*********		
POSITION PERSON 700/Word Processor	PERMITTING	37.00 g	4	148	
POSITION PERSON  700/Word Processor 306/Senior Draftsperson		37.00 47.00	4 3	 148 141	
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Task Order 1-

LAW ENVIRONMENT

INC.

# Law Engineering and Environmental Services, Inc. Billing Rate Schedule Environmental Department Pasco County

Employee		Pasco County
Class Code	Employee Class Code Name	Rate
Labor Technicians &	Other Technical (100 - 299)	
170	Technician III	\$37.00
200	Senior Technician	57.00
Professionals (400 - 6	99)	
400	Staff Professional	39.00
301	Staff Professional I	52.00
302	Staff Professional II	65.00
303	Professional/Project Manager	75.00
304	Senior Professional/Project Manager	92.00
305	Principal I/Project Manager	115.00
Support Personnel (70	00 - 899)	
700	Word Processor	37.00
740	Project Administrator	44.00
306	Senior Draftsperson	47.00

D.E.P.

DEC 1 1 1997

SOUTHWEST DISTRICT
TAMPA

# 1997 LAW ENGINEERING ENVIRONMENTAL SERVICES SCHEDULE OF FEES UPDATED 5/8/97

B) '	OTHER EXPENSES	
	COMPUTER MODELING (per hour)	\$ 25.00
	ADMINISTRATION (per project)	\$ 65.00
	HEALTH & SAFETY ADMINISTRATION (per project)	\$ 75.00
	QA/QC ADMINISTRATION (per project)	\$ 75.00
	EXTRA REPORT COPIES (each)	\$ 50.00
	THIRD PARTY INVOICES	cost plus 15%
	MILEAGE COMPANY TRUCKS (per mile)	\$ 0.50
	TRAVEL EXPENSE	cost plus 15%
	CHAIN-OF-TITLE	cost plus 25%
	AERIAL PHOTOGRAPHS, MAPS, ETC.	cost plus 15%
<b>C</b> )	EQUIPMENT	
•	EXPLOSIMETER (per day)	\$ 20.00
	OVA-FID (per day)	\$200.00
	PERISTALTIC PUMP (each)	\$ 50.00
	PUMP TUBING (per foot)	\$ 0.50

# 1997 LAW ENGINEERING ENVIRONMENTAL SERVICES SCHEDULE OF FEES UPDATED 5/8/97

C)	EQUIPMENT (CONTINUED)	
	TEFLON BLADDER PUMP (per day)	\$200.00
	BLADDER PUMP SUPPLIES (per foot)	\$ 2.00
	DISPOSABLE TEFLON BAILER (each)	\$ 15.50
	DECONTAMINATION	\$ 50.00
	PERSONAL SAFETY EQUIPMENT (per person)	\$ 50.00
	pH, CONDUCTIVITY, TEMPERATURE METER (per day)	\$ 40.00
	TURBIDITY METER (per day)	\$ 40.00
	DISSOLVED OXYGEN METER (per day)	\$ 30.00
	TCE/PCE FIELD TESTER (each)	\$ 50.00
	HERMIT DATA-LOGGER (per day)	\$400.00
l, aggirs a diff	SURVEYING INSTRUMENTATION (per day)	\$100.00
	WASTE DRUMS (each)	\$ 35.00
D)	DRILLING SERVICES	
	DRILLING RIG MOBILIZATION (each)	\$450.00
	TYPE III MONITORING WELL (per foot)	\$ 50.00
	TYPE II MONITORING WELL (per foot)	\$ 30.00
	TEMPORARY MONITORING WELL (per foot)	\$ 9.50
	PIEZOMETER INSTALLATION (per foot)	\$ 9.50
	PIEZOMETER MEASUREMENTS (each)	\$ 25.00
	SPT BORINGS (per foot)	\$ 9.75
	AUGER BORINGS (per foot)	\$ 7.75

# 1997 LAW ENGINEERING ENVIRONMENTAL SERVICES SCHEDULE OF FEES UPDATED 5/8/97

D)	DRILLING SERVICES (CONTINUED)	
	WELL DEVELOPMENT (per hour)	\$145.00
	STEAM CLEANING (per hour)	\$145.00
	STEAM CLEANER RENTAL (per day)	\$ 85.00
	GENERATOR RENTAL (per day)	\$ 85.00
	WELL PERMITS & PERMIT TIME (each)	\$ 40.00
	WELL COVERS & LOCKS (each)	\$150.00
	HYDROPUNCH OPERATIONS (per day)	\$1,500.00
	HYDROPUNCH EQUIPMENT RENTAL (per day)	\$500.00
	HYDROPUNCH SUPPLIES (each)	\$100.00
E)	FIELD EXPENSES	
	SOIL SAMPLING SUPPLIES (each sample)	\$ 12.50
	WATER SAMPLING SUPPLIES (each sample)	\$ 42.50
	SAMPLE SHIPPING (small)	\$ 75.00
	SAMPLE SHIPPING (large)	\$150.00
F)	MILEAGE (per mile)	\$ 0.31



PASCO COLINITY LITE ITES

DEC 0 2 1997

December 1, 1997

Mr. Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject:

West Pasco Landfill

Disposal Units A-1 and A-2 Number PA87-23, Pasco County LAW Project 40141-7-0291

Dear Mr. Ford:

Law Engineering and Environmental Services, Inc. (LAW), on behalf of Pasco County, is requesting an extension of the deadline for responding to your letter dated November 21, 1997, concerning operations at the West Pasco Landfill. The extension is needed to complete the operations plan for Disposal Unit A-2. As you know a meeting with Florida Department of Environmental Protection and Pasco County is planned for December 11, 1997 to discuss options for interim hauling and disposal of leachate from the site. LAW and the County believe the results of this meeting will impact the operations plan in the near future and therefore completion of the plan should wait until after the meeting. Therefore, we are requesting the submittal date be delayed until December 23, 1997. Thank you for your consideration in this matter. If you have any questions please contact the undersigned at (813) 289-0750.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Richard E. Mayer, P.E.

Principal Engineer

Florida Registration 41759

EM/WE/CJs/40140/COMMON/T4170317.001

Rileard ?. hwyre

cc:

Douglas S. Bramlett Vincent Mannella

D.E.P. DEC 1 1 1997

SCOTTING TAMPA



December 1, 1997

Mr. Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject:

West Pasco Landfill

Disposal Units A-1 and A-2 Number PA87-23, Pasco County LAW Project 40141-7-0291

Dear Mr. Ford:

Law Engineering and Environmental Services, Inc. (LAW), on behalf of Pasco County, is requesting an extension of the deadline for responding to your letter dated November 21, 1997, concerning operations at the West Pasco Landfill. The extension is needed to complete the operations plan for Disposal Unit A-2. As you know a meeting with Florida Department of Environmental Protection and Pasco County is planned for December 11, 1997 to discuss options for interim hauling and disposal of leachate from the site. LAW and the County believe the results of this meeting will impact the operations plan in the near future and therefore completion of the plan should wait until after the meeting. Therefore, we are requesting the submittal date be delayed until December 23, 1997. Thank you for your consideration in this matter. If you have any questions please contact the undersigned at (813) 289-0750.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Richard E. Mayer, P.E.

Principal Engineer

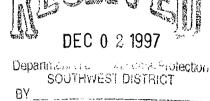
Florida Registration 41759

EM/WE/CJs/40140/COMMON/T4170317.001

Rebuil & hrayn

cc:

Douglas S. Bramlett Vincent Mannella



# West Pasco Cell A-2 RJB, KBF, Dr. Garrity P.1197

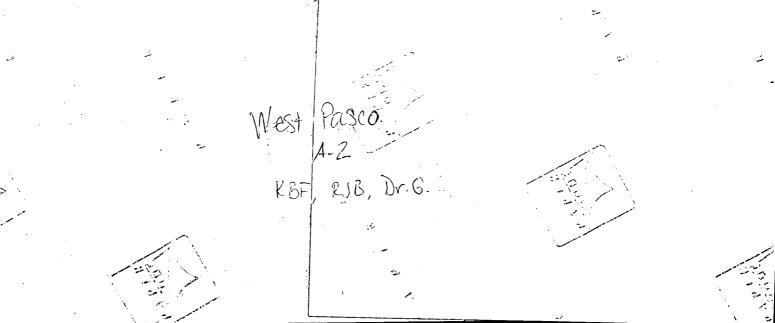


WEST PASCO A-2 RSB, KBF, Dr.6.

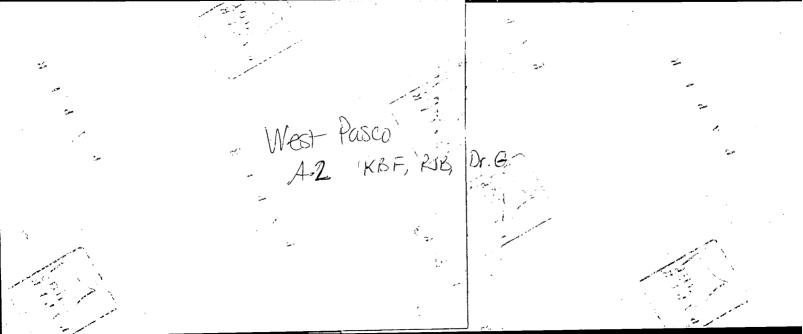
West Pasco Sult bags A-2 RJB, KBF, Gamity

> West Pasco A-Z RIB, KBF, Dr.6.











# PASCO COUNTY, FLORIDA

DADE CITY LAND O' LAKES (352) 521-4274 (813) 996-7341

**NEW PORT RICHEY** FAX

(813) 847-8145

(813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIE\$BLDG., S-213 7530 LITTLE ROAD

NEW PORT RICHEY, FL 34654

December 9, 1997

Mr. H. Chris Menkemeyer

Coastal Environmental Services, Inc.

531 Main Street, Suite C Safety Harbor, FL 34695

Transport and Disposal of Ash Leachate - Bid No. 98-014

Dear Mr. Menkemeyer:

Please accept this letter as your "Notice to Proceed" to begin transporting of leachate on or before Friday, December 19, 1997.

We request that you coordinate all deliveries with Pasco County and the City of Tampa and please be aware that an industrial waste permit will be required by the City of Tampa for your firm.

Please call me at the above-listed telephone number if you have any questions regarding this letter.

Sincerely.

Douglas S. Bramlett

Assistant County Administrator

(Utilities Services)

Post-it\* Fax Note 7671 BRAMLETT

DSB/mvv

Robert J. Butera, P.E. III, Division of Waste Management, Florida Department of Environmental cc: Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318 John Drapp, City of Tampa's Howard F. Curren WWTP, 2700 Maritime Blvd., Tampa, FL 33605

Vincent Mannella, P.E., Solid Waste Facility Manager

# FAX



Date: 239

Number of pages including cover sheet: 9

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Phone:	289 0750	
Phone: Fax phone:	289 0750 289 5474	

Phone: (813) 744-6100 × 382

Fax phone: (813) 744-6125

REMARKS:	☐ Urgent	For your review	Reply ASAP	☐ Please comment
	A	3 yeu 12ta	752547	

# PASCO COUNTY: UTILITIES SERVICES BRANCH LEACHATE REPORT

FISCAL YEAR END 9/30/98

14-Nov-97

**WEST PASCO** 

MONTH & DAY	ASH CELL I	SECOND .	ASH CELL II	spcond Liner	MEASURED RAINFALL	NOTES
01-Nov-97	0	0	35,300	3,900	3.800	Trucked to WWTP - A2
02-Nov-97	0	0	30,000	4,000	0.000	Trucked to WWTP - A2
03-Nov-97	0	Q	17,300	3,300	0.000	Trucked to WWTP - A2
· 04-Nov-97	0	0	0	3,300	0.000	
05-Nov-97	0	O	0	2,700	0.000	
06-Nov-97	0	0	0	3,500	0.000	
07-Nov-97	· 0	0	0	2,600	0.000	
08-Nov-97	0	0	0	2,600	0.000	
09-Nov-97	0	0	0	2,600	0.000	
10-Nov-97	0	0	0	2,300	0.000	·
11-Nov-97	0	0	0	2,300	0.000	
12-Nov-97	. 0	. 0	0	2,600	0.000	
Nov-97	O	0	82,600	35,700	3.800	]

....

#### ASCO COUNTY: UTILITIES SERVICES BRANCH LEACHATE REPORT

FISCAL YEAR END 9/30/97

20-Oct-97 21-Oct-97 22-Oct-97 23-Oct-97	0 0	0 0 0	21,080 4,320 2,320 0	0 0 0	0 0 0 0	3,900 3,800 3,900 3,500 2,800	0.000 0.800 0.000 0.000	0 14,270 0 0 0
15-Oct-97 16-Oct-97 17-Oct-97 18-Oct-97 19-Oct-97	0 0 0	0 0 0 1,470 0	0 0 5,150 0 0	0 0 0 2,499 0	0 0 0 0	4,500 3,600 4,200 3,500 3,900	0.000 0.000 0.000 0.000 0.000	0 0 0 0
07-Oct-97 08-Oct-97 09-Oct-97 10-Oct-97 11-Oct-97 12-Oct-97 13-Oct-97 14-Oct-97	0 0 0 0 0	0 0 0 0	8,300 4,900 2,440 3,340 0 0 4,340 2,320	0 0 0 0 0 0	0 0 0 0 0 0	5,600 4,600 5,100 5,700 4,300 0 4,400 4,200	0.000 0.000 0.000 0.000 0.000 0.000	000000000000000000000000000000000000000
01-Oct-97 02-Oct-97 03-Oct-97 04-Oct-97 05-Oct-97 06-Oct-97	10 0 0 0 0	0 1,176 0 0 0 0	35,800 24,140 12,890 14,930 0 12,750	0 7,644 0 0 0 0	0 0 0 0	0 5,800 6,300 6,700 5,300 5,500	0.000 0.000 0.000 0.000 0.000	415,850 1,410 0 760 0
MONTH & DAY	ASH CELL I	ARCONO LINUX	WEST PASC LEACHATE SOLID WASTE CELL I	O CLASS I HAULED ARCORD INDEX	ASH CELL II	ABCONTO LINER	MEASURED RAINFALL	LEACHATE Management Plant Charging Line

<sup>\*\*</sup> West Pasco Class I Landfill has a total of 29 acres, which are comprised of three cells. The cells consist of the following:

<sup>-</sup> Ash Cell I - 2 acres OPEN

<sup>- 8</sup> acres INTERMEDIATE

<sup>-</sup> Ash Coll II - 10 acres OPEN

<sup>-</sup> Solid Wasto Cell I - 9 acres OPEN



December 16, 1996

D.E.P.

DEC 1 7 1996

SOUTHWEST DISTRICT

Mr. Kim Ford, P.E.

Tampa, Florida 34654

Florida Department of Environmental Protection Solid Waste Section Division of Waste Management 3804 Coconut Palm Drive

Subject:

West Pasco Class I Landfill

Disposal Unit A-2 Leachate Collection System

LAW Project 40141-5-0869.02

Dear Mr. Ford:

Law Engineering and Environmental Services, Inc. (LAW), at the request of Pasco County, has reviewed the leachate pumping data from the secondary collection system in Disposal Unit A-2. The following data was provided by Pasco County:

TEST	START	END	GALLONS	•
PERIOD	DATE	DATE	PUMPED	COMMENT:
1	7/19/96	8/19/96	27,500	Closed western section valve.
				Opened valve, pumped secondary.
2	8/19/96	9/20/96	24,750	Closed middle section valve.
1				Opened valve, pumped secondary.
3	9/20/96	10/22/96	13,750	Pumped secondary.
				<b>\</b> /
	Total Pum	ped	66,000	Rainfall 44 inches during test.
L				/

LAW calculated the following leakage rates using the above data:

TEST PERIOD	DAYS	GALLONS PUMPED	GALLONS PER DAY	ACRES	GALLON/DAY PER ACRE
1	34	27,500	809	10	80.88
2	32	24,750	773	10	77.34
3	32	13,500	430	10	42.97
Average	98	66,000	673	10	67.06

410 10 (100) NOW

4919 W. LAUREL STREET • TAMPA, FL 33607 (813) 289-0750 • FAX (813) 289-5474 The rates tabulated above are less than the 100-gallon/day/acre leakage rate which is referred to as the Action Leakage Rate and regarded as the threshold for concern in the EPA Seminar Publication, Requirements for Hazardous Waste Landfill Design, Construction, and Closure (see Table 10-1, page 122). The head on the primary liner was greater than one foot during much of the time.

We understand that performing the tests described above and favorable results are the final prerequisite for FDEP to authorize Pasco County to start filling A-2. In view of the results, LAW, on behalf of Pasco County, is requesting a letter authorizing the County to begin filling A-2 as soon as possible.

If you have any questions regarding these conclusions and recommendations, please contact Mr. Richard E. Mayer or Mr. George W. Ellsworth at (813) 289-0750.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

George W. Ellsworth, P.G. Senior Environmental Geologist

Florida Registration 848

Principal Engineer

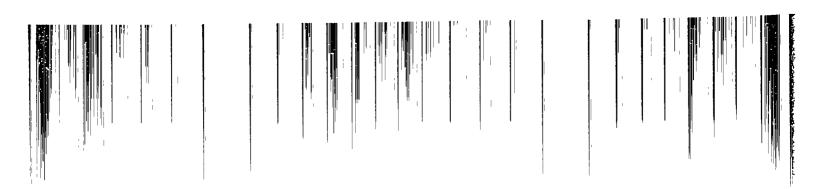
Florida Registration 41759

GWE/REM/cjs/40140/REPORT/T4150869.L10

Technology Transfer

# Seminar Publication

Requirements for Hazardous Waste Landfill Design, Construction, and Closure



## 10. LEAK RESPONSE ACTION PLANS

This final chapter reviews proposed requirements for Response Action Plans, or RAPs, that are contained in the proposed leak detection rule issued in May, 1987. It focuses on the concepts behind the RAPs and the preliminary, technical calculations used in developing them. The main topics of discussion will be the technical basis for the two response action triggers, action leakage rate (ALR) and rapid and large leakage (RLL) rate; the RAPs themselves; and the RAP submittal process.

## Background

In the Hazardous and Solid Waste Amendments (HSWA) of 1984, Congress required that leaks from new land disposal facilities be detected at the earliest practical time. However, HSWA did not require or specify actions to be taken once a leak is detected in the leak detection system. Therefore, EPA proposed requirements for response action plans to deal with leaks detected in the leak detection system between the two liners. EPA realizes that even with a good construction quality assurance plan, flexible membrane liners (FMLs) will allow some liquid transmission either through water vapor permeation of an intact FML, or through small pinholes or tears in a slightly flawed FML. Leakage rates resulting from these mechanisms can range from less than 1 to 300 gallons per acre per day (gal/acre/day). If unchecked, these leak rates may result in increased hydraulic heads acting on the bottom liner and potential subsequent damage to the liner system.

The idea behind the RAP is to be prepared for any leaks or clogging of the drainage layer in the leak detection system that may occur during the active life or post-closure care period of a waste facility. The first step is to identify the top liner leak rates that would require response actions. Therefore, in the proposed leak detection rule of May 29, 1987, EPA established two triggers for response actions: the Action Leakage Rate (ALR) and the Rapid and Large Leakage (RLL) rate. The ALR is a low-level leak rate that would indicate the presence of a small hole or defect in the top liner. The RLL is indicative of a

severe breach or large tear in the top liner. A different level of responsiveness would be required for leakage rates above these two triggers. RAPs developed by owners or operators may have more than two triggers as appropriate to cover the range of leak rates expected for a landfill unit. In addition to triggers, the proposed rule also defines the elements of a RAP, gives an example of one, and discusses the procedures for submitting and reviewing a RAP.

## Action Leakage Rate (ALR)

EPA has historically used the term de minimus leakage when referring to leaks resulting from permeation of an intact FML. Action leakage rate (ALR) was developed to distinguish leak rates due to holes from mere permeation of an intact FML, and to initiate early interaction between the owner/operator of the unit and the Agency. The ALR essentially defines top liner leakage in a landfill, and the proposed value is based on calculated leak rates through a 1 to 2 mm hole in a FML subject to low hydraulic heads on the order of 1 inch. The proposed ALR, therefore, is representative of well-designed and operated landfills, although, as proposed, it would also apply to surface impoundments and waste piles.

Because EPA is considering setting a single ALR value applicable to landfills, surface impoundments, and waste piles, the Agency calculated top liner leak rates for different sizes of holes and for different hydraulic heads. In addition, EPA compared leak rates for a FML top liner with that for a composite top liner, since many new facilities have double composite liner systems. Table 10-1 shows the results of these calculations for FML and composite top liners. Even for FMLs with very small holes (i.e., 1 to 2 mm in diameter), leak rates can be significant depending on the hydraulic head acting on the top liner. The addition of the compacted low permeability soil layer to the FML significantly reduces these leak rates to less than 10 gal/acre/day, even for large hydraulic heads that are common in surface impoundments. These results indicate that, at least for deep surface impoundments with large hydraulic heads, double composite liner systems may be the key to reducing the leak rates to de minimus levels that are below the proposed ALR.

Table 10-1. Calculated Leakage Rates through FML and Composite Liners (gal/acre/day)

F	M	Δ.	100	

		Hydraulic He	ad, ft
Leakage Mechanism	0.1	. 1	10
Small Hole (1-2 mm)	30	100	300
Standard Hole (1 cm <sup>2</sup> )	300	1,000	3.000

#### Composite Liner (good contact)

		lydraulic Head, I	t
Leakage Mechanism	0.1	1	- 10
Small Hole (1-2 mm)	0.01	0.1	2
Standard Hole (1 cm²)	0.01	0.2	3

Source: U.S. EPA. 1987. Background document on proposed liner and leak detection rule. EPA/530-SW-87-015.

EPA's proposed rule sets the ALR at 5 to 20 gal/acre/day, a difficult range to achieve with a primary FML alone (especially for surface impoundments). The proposed rule also enables the owner/operator to use a site-specific ALR value that would take into account meteorological and hydrogeological factors, as well as design factors that might result in leak rates that would frequently exceed the ALR value. Using these factors, a surface impoundment that meets the minimum technological requirements of a FML top liner could conceivably apply for a site-specific ALR value.

Daily leakage rates through top liners can vary by 10 to 20 percent or more, even in the absence of major precipitation events. Because of these variations, EPA may allow the landfill owner/operator to average daily readings over a 30-day period, as long as the leakage rate does not exceed 50 gal/acre/day on any 1 day. If the average daily leak rate does not exceed the ALR, then the owner/operator does not have to implement a RAP.

# Rapid and Large Leakage (RLL)

The Rapid and Large Leakage (RLL) rate is the high-level trigger that indicates a serious malfunction of system components in the double-lined unit and that warrants immediate action. In developing the proposed rule, EPA defined the RLL as the maximum design leakage rate that the leak detection system can accept. In other words, the RLL is exceeded when the fluid head is greater than the thickness of the secondary leachate collection and

removal system (LCRS) drainage layer. The visible expression of RLL leakage in surface impoundments is the creation of bubbles, or "whales," as the FML is lifted up under the fluid pressure. See Chapter Three for further discussion of "whales".

Because the RLL is highly dependent on the design of the leak detection system, EPA's proposed rule requires that owners/operators calculate their own site-specific RLL values. EPA also proposes to require that owners/operators submit a RAP for leakage rates exceeding that value prior to beginning operation of a unit. The EPA Regional Administrator must approve the RAP before a facility can receive wastes.

The following equations represent EPA's preliminary attempt to define a range of potential RLL values for a hypothetical leak detection system, which consists of a 1-foot granular drainage layer with 1 cm/sec hydraulic conductivity. These calculations are for two-dimensional rather than three-dimensional flow. In addition, the equations apply to flow from a single defect in the FML, rather than multiple defects. Therefore, results from this analysis are only preliminary ones, and the EPA will develop guidance on calculating RLL values in the near future.

RLL values can be calculated using the following equation:

$$h = (Q_d/B)/(k_d tan \beta)$$
 (1)

where:

h = hydraulic head

 $Q_d$  = flow rate entering into the drainage layer

B = width of the drainage layer

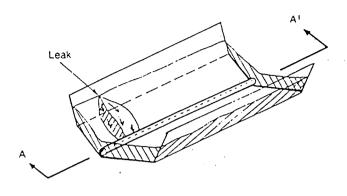
k<sub>d</sub> = hydraulic conductivity of the drainage layer

β = slope of the drainage layer perpendicular to, and in the plane of, flow toward the collection pipe

When the value for h exceeds the thickness of the drainage layer (1 foot in this example), the leakage rate is greater than the RLL value for the unit.

In reality, a leak from an isolated source, i.e., a tear or a hole in the FML, results in a discreet zone of saturation as the liquids flow toward the collection pipe (see Figure 10-1). The appropriate variable representing the width of flow, then, is not really B, the entire width of the drainage layer perpendicular to flow, but b, the width of saturated flow perpendicular to the flow direction. If b were known, the equation could be solved. But to date, the data has

not been available to quantify b for all drainage layers and leakage scenarios.



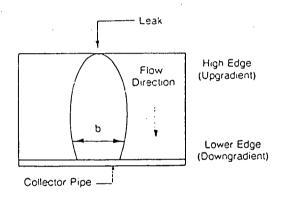


Figure 10-1. Plan view of a leak detection system with a large leak flowing over a width b.

Cross Section A - A1

From Equation 1, one can make substitutions for variables B and  $Q_d$  and give values for the other variables  $k_d$  and  $\tan\beta$ . If N represents the frequency of leaks in a well-designed and installed unit, then  $Q_t$ , the flow rate in the drainage layer (m³/s) is directly related to  $Q_t$ , the leakage rate per unit area (m/sec):

$$Q = NQ \text{ or } Q = q/N$$
 (2)

Combining Equations 1 and 2 and substituting b for B, and q for Q:

$$h = q/(Nbk_d tan\beta)$$
 (3)

Equation 3 now can be used to define the leakage rate (q) that exceeds the leak detection system capacity. All that is needed are the values for the other variables  $(N, k_d, \tan\beta)$ . For a well-designed and installed unit, the frequency of leaks (N) is 1 hole per

acre, or in units of  $m^2$ ;  $N = 1/4,000m^2$ . Substituting this value into Equation 3:

$$h = 4000q/(bk_d tan\beta)$$
 (4)

Where q is in units of liters/1,000 m<sup>2</sup>/day (Ltd), Equation 4 can be written as follows:

$$h = 4.6 \times 10^{-8} q/(bk_d tan\beta)$$
 (5)

The proposed rule requires leak detection systems to have a minimum bottom slope of 2 percent (tanβ) and minimum hydraulic conductivity of 10-2 m/sec (kd). Substituting these values into Equation 5:

$$h = 2.3 \times 10^{-4} \text{ g/b}$$
 (6)

where h is in units of m, q is in units of Ltd, and b is in units of m. For the purposes of these calculations, it is assumed that Ltd is equivalent to about 1 gal/acre/day. The final results were derived by using three different values for b (the unknown variable) and determining what values of q between 100 and 10,000 gal/acre/day (Ltd) result in hydraulic heads exceeding the 1-foot thickness of the drainage layer (h).

Table 10-2 shows the results of these preliminary calculations. For values of q between 100 and 10,000 gal/acre/day and values of b between 3 and 6 foot, the hydraulic head exceeds 1 foot when leak rates are in the range of 2,000 to 10,000 gal/acre/day. Therefore, RLL values for leak detection systems consisting of granular drainage layer are expected to be in the range of 2,000 to 10,000 gal/acre/day. Clogging of the drainage layer would decrease the design capacity of the leak detection system, and hence the RLL value, over time. With respect to the variables described above, clogging of the drainage layer could be represented using smaller values for b, the width of saturated flow, since clogging would result in a reduced width of saturated flow. As shown in Table 10-2, smaller values of b reduce the minimum leakage rate, q, needed to generate heads exceeding the 1-foot thickness. EPA plans to issue guidance on estimating the effect of clogging on RLL values.

Table 10-2. Results of Preliminary Studies Defining Ranges of RLL Values

Width (b) ft	Flow (q) gaVacre/day		
3.3	1,000 - 2,000		
5.0	2,000 - 5,000		
 6.6	5,000 - 10,000		

16:59

## Transmit Confirmation Report

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# PASCO COUNTY: UTILITIES SERVICES BRANCH

LEACHATE REPORT

FISCAL YEAR END 9/30/98

14-Nov-97

WEST PASCO

	MONTH & DAY	ASH CELL I	SECOND	ASH CELL II	SECOND LINER	MEASURED RAINFALL	NOTE
•	01-Nov-97 02-Nov-97	0	0	35,300 30,000	3,900 4,000	3.800	Trucked to WW
	03-Nov-97	0	0	17,300	3,300	0.000	Trucked to WW
	04-Nov-97	. 0	0	0	3,300	0.000	
	05-Nov-97	0	0	0	2,700	0.000	
	06-Nov-97	0	0	0	3,500	0.000	
	07-Nov-97	0	0	0	2,600	0.000	
	08-Nov-97	0	0	0	2,600	0.000	
	09-Nov-97	0	0	0	2,600	0.000	
	10-Nov-97	0	0	0	2,300	0.000	
	11-Nov-97	O	0	0	2,300	0.000	
	12-Nov-97	. 0	. 0	0	2,600	0.000	
	Nov-97	Ō	0	82,600	35,700	3.800	

ES MTP - A2 NTP - A2 NTP - A2

ASCO COUNTY: UTILITIES SERVICES BRANCH LEACHATE REPORT

FISCAL YEAR END 9/30/97

MONTH & DAY	ASH CELL I	ARCOND LINER	WEST PASC LEACHATE SOLID WASTE CELL I	O CLASS I HAULED ABCOME LINER	ASH CELL II	ARCOUR LINER	MEASURED RAINFALL	LEACHATE Management Plant Charging Line
01-Oct-97	10	0	35,800	0	0	0	0.000	415,850
02-Oct-97	Q	1,176	24,140	7,544	0	5,800	0.000	1,410
03-Oct-97	0	0	12,890	0	0	6,300	0.000	0,410
04-Oct-97	0	0	14,930	0	0	6,700	0.000	760
05-Oct-97	0	0	0	0	0	5,300	0.000	0
06-Oct-97	. 0	0	12,750	0	0	5,500	0.000	0
07-Oct-97	0	0	8,300	0	0	5,600	0.000	0
08-Oct-97	0	0	4,900	0	0	4,600	0.000	0
09-Oct-97	0	0	2,440	0	o	5,100	0.000	0
10-Oct-97	0	0	3,340	0	0	5,700	0.000	0
11-Oct-97	0	0	0	0	ō	4,300	0.000	. 0
12-Oct-97	0	0	0	0	ō	0	0.000	0
13-Oct-97	0	0	4,340	0	ō	4,400	0.000	. 0
14-Oct-97	0	0	2,320	o	0	4,200	0.000	0
15-Oct-97	0	0	0	0	. 0	4,500	0.000	0
16-Oct-97	0	0	0	ō	. 0	3,600	0.000	0
17-Oct-97	0	0	5,150	0	ő	4,200	0.000	0
18-Oct-97	. 0	1,470	0	2,499	ō	3,500	0.000	0
19-Oct-97	0	0	0	0	ō	3,900	0.000	0
20-Oct-97	0	0	21,080	ō	ō	3,800	0.800	14,270
21-Oct-97	. 0	0	4,320	0	0	3,900	0.000	0
22-Oct-97	0	0	2,320	0	0	3,500	0.000	0
23-Oct-97	0	0	0	0 .	Ö	2,800	0.000	0
24-Oct-97	0	0	٥	0	0	2,300	0.000	. 0
25-Oct-97	0	0	11,650	å	. 0	3,100	0.900	0
26-Oct-97	0	0	0	0	0	3,300	0.000	0
27-Oct-97	0	0	89,270	ő	Ö	3,000	0.000	0
28-Oct-97	. 0	ō	281,280	ā.	ő	3,700	5.000	
29-Oct-97	Ö	0	114,570	o	0	3,300	0.000	0
30-Oct-97	o	o	49,140	o o	0	2,600	0.000	0
31-Oct-97	0	ő	29,600	0	Ô	3,200	0.000	0
Oct-97	10	2,646	734,530	10,143	. 0	121,700	6.700	432,290

<sup>\*\*</sup> West Pasco Class I Landfill has a total of 29 acres, which are comprised of three cells. The cells consist of the following:

<sup>-</sup> Ash Cell I - 2 acres OPEN

<sup>- 8</sup> acres INTERMEDIATE

<sup>-</sup> Ash Cell II - 10 acres OPEN

<sup>-</sup> Solid Wasto Cell I - 9 acres OPEN

D.E.P.

DEC 1 7 1996

SOUTHWEST DISTRICT TAMPA

December 16, 1996

Mr. Kim Ford, P.E.

Florida Department of Environmental Protection Solid Waste Section Division of Waste Management 3804 Coconut Palm Drive

Tampa, Florida 34654

Subject:

West Pasco Class I Landfill

Disposal Unit A-2 Leachate Collection System

LAW Project 40141-5-0869.02

Dear Mr. Ford:

Law Engineering and Environmental Services, Inc. (LAW), at the request of Pasco County, has reviewed the leachate pumping data from the secondary collection system in Disposal Unit A-2. The following data was provided by Pasco County:

TEST PERIOD	START DATE	END DATE	GALLONS PUMPED	COMMENT:
1	7/19/96	8/19/96	27,500	Closed western section valve.  Opened valve, pumped secondary.
2	8/19/96	9/20/96	24,750	Closed middle section valve.  Opened valve, pumped secondary.
3	9/20/96	10/22/96	13,750	Pumped secondary.
	Total Pum	ped	66,000	Rainfall 44 inches during test.
mia				

LAW calculated the following leakage rates using the above data:

TEST PERIOD	DAYS	GALLONS PUMPED	GALLONS PER DAY	ACRES	GALLON/DAY PER ACRE
1	34	27,500	809	10	80.88
2	32	24,750	773	10	77.34
3	32	13,500	430	10	42.97
Average	98	66,000	673	10	67.06

4919 W. LAUREL STREET • TAMPA, FL 33607 (813) 289-0750 • FAX (813) 289-5474 The rates tabulated above are less than the 100-gallon/day/acre leakage rate which is referred to as the Action Leakage Rate and regarded as the threshold for concern in the EPA Seminar Publication, Requirements for Hazardous Waste Landfill Design, Construction, and Closure (see Table 10-1, page 122). The head on the primary liner was greater than one foot during much of the time.

We understand that performing the tests described above and favorable results are the final prerequisite for FDEP to authorize Pasco County to start filling A-2. In view of the results, LAW, on behalf of Pasco County, is requesting a letter authorizing the County to begin filling A-2 as soon as possible.

If you have any questions regarding these conclusions and recommendations, please contact Mr. Richard E. Mayer or Mr. George W. Ellsworth at (813) 289-0750.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

George W. Ellsworth, P.G. Senior Environmental Geologist

Florida Registration 848

GWE/REM/cjs/40140/REPORT/T4150869.L10

Richard E. Mayer, P.E. 12/14/96

Principal Engineer

Florida Registration 41759

Technology Transfer

EPA/625/4-89/022

# **SEPA**

# Seminar Publication

Requirements for Hazardous Waste Landfill Design, Construction, and Closure

## 10. LEAK RESPONSE ACTION PLANS

This final chapter reviews proposed requirements for Response Action Plans, or RAPs, that are contained in the proposed leak detection rule issued in May, 1987. It focuses on the concepts behind the RAPs and the preliminary, technical calculations used in developing them. The main topics of discussion will be the technical basis for the two response action triggers, action leakage rate (ALR) and rapid and large leakage (RLL) rate; the RAPs themselves; and the RAP submittal process.

## Background

In the Hazardous and Solid Waste Amendments (HSWA) of 1984, Congress required that leaks from new land disposal facilities be detected at the earliest practical time. However, HSWA did not require or specify actions to be taken once a leak is detected in the leak detection system. Therefore, EPA proposed requirements for response action plans to deal with leaks detected in the leak detection system between the two liners. EPA realizes that even with a good construction quality assurance plan, flexible membrane liners (FMLs) will allow some liquid transmission either through water vapor permeation of an intact FML, or through small pinholes or tears in a slightly flawed FML. Leakage rates resulting from these mechanisms can range from less than 1 to 300 gallons per acre per day (gal/acre/day). If unchecked, these leak rates may result in increased hydraulic heads acting on the bottom liner and potential subsequent damage to the liner system.

The idea behind the RAP is to be prepared for any leaks or clogging of the drainage layer in the leak detection system that may occur during the active life or post-closure care period of a waste facility. The first step is to identify the top liner leak rates that would require response actions. Therefore, in the proposed leak detection rule of May 29, 1987, EPA established two triggers for response actions: the Action Leakage Rate (ALR) and the Rapid and Large Leakage (RLL) rate. The ALR is a low-level leak rate that would indicate the presence of a small hole or defect in the top liner. The RLL is indicative of a

severe breach or large tear in the top liner. A different level of responsiveness would be required for leakage rates above these two triggers. RAPs developed by owners or operators may have more than two triggers as appropriate to cover the range of leak rates expected for a landfill unit. In addition to triggers, the proposed rule also defines the elements of a RAP, gives an example of one, and discusses the procedures for submitting and reviewing a RAP.

## Action Leakage Rate (ALR)

EPA has historically used the term de minimus leakage when referring to leaks resulting from permeation of an intact FML. Action leakage rate (ALR) was developed to distinguish leak rates due to holes from mere permeation of an intact FML, and to initiate early interaction between the owner/operator of the unit and the Agency. The ALR essentially defines top liner leakage in a landfill, and the proposed value is based on calculated leak rates through a 1 to 2 mm hole in a FML subject to low hydraulic heads on the order of 1 inch. The proposed ALR, therefore, is representative of well-designed and operated landfills, although, as proposed, it would also apply to surface impoundments and waste piles.

Because EPA is considering setting a single ALR value applicable to landfills, surface impoundments, and waste piles, the Agency calculated top liner leak rates for different sizes of holes and for different hydraulic heads. In addition, EPA compared leak rates for a FML top liner with that for a composite top liner, since many new facilities have double composite liner systems. Table 10-1 shows the results of these calculations for FML and composite top liners. Even for FMLs with very small holes (i.e., 1 to 2 mm in diameter), leak rates can be significant depending on the hydraulic head acting on the top liner. The addition of the compacted low permeability soil layer to the FML significantly reduces these leak rates to less than 10 gal/acre/day, even for large hydraulic heads that are common in surface impoundments. These results indicate that, at least for deep surface impoundments with large hydraulic heads, double composite liner systems may be the key to reducing the leak rates to de minimus levels that are below the proposed ALR.

Table 10-1. Calculated Leakage Rates through FML and Composite Liners (gal/acre/day)

_	
EMI.	Alona

		Hydraulic He	ad, ft	
Leakage Mechanism	0.1	. 1	10	
Small Hole (1-2 mm)	30	100	300	
Standard Hole (1 cm <sup>2</sup> )	300	1,000	3.000	

#### Composite Liner (good contact)

		lydraulic Head,	ft
Leakage Mechanism	0.1	1	10
Small Hole (1-2 mm)	0.01	0.1	2
Standard Hole (1 cm <sup>2</sup> )	0.01	0.2	3

Source: U.S. EPA. 1987. Background document on proposed liner and leak detection rule. EPA/530-SW-87-015.

EPA's proposed rule sets the ALR at 5 to 20 gal/acre/day, a difficult range to achieve with a primary FML alone (especially for surface impoundments). The proposed rule also enables the owner/operator to use a site-specific ALR value that would take into account meteorological and hydrogeological factors, as well as design factors that might result in leak rates that would frequently exceed the ALR value. Using these factors, a surface impoundment that meets the minimum technological requirements of a FML top liner could conceivably apply for a site-specific ALR value.

Daily leakage rates through top liners can vary by 10 to 20 percent or more, even in the absence of major precipitation events. Because of these variations, EPA may allow the landfill owner/operator to average daily readings over a 30-day period, as long as the leakage rate does not exceed 50 gal/acre/day on any 1 day. If the average daily leak rate does not exceed the ALR, then the owner/operator does not have to implement a RAP.

# Rapid and Large Leakage (RLL)

The Rapid and Large Leakage (RLL) rate is the high-level trigger that indicates a serious malfunction of system components in the double-lined unit and that warrants immediate action. In developing the proposed rule, EPA defined the RLL as the maximum design leakage rate that the leak detection system can accept. In other words, the RLL is exceeded when the fluid head is greater than the thickness of the secondary leachate collection and

removal system (LCRS) drainage layer. The visible expression of RLL leakage in surface impoundments is the creation of bubbles, or "whales," as the FML is lifted up under the fluid pressure. See Chapter Three for further discussion of "whales".

Because the RLL is highly dependent on the design of the leak detection system, EPA's proposed rule requires that owners/operators calculate their own site-specific RLL values. EPA also proposes to require that owners/operators submit a RAP for leakage rates exceeding that value prior to beginning operation of a unit. The EPA Regional Administrator must approve the RAP before a facility can receive wastes.

The following equations represent EPA's preliminary attempt to define a range of potential RLL values for a hypothetical leak detection system, which consists of a 1-foot granular drainage layer with 1 cm/sec hydraulic conductivity. These calculations are for two-dimensional rather than three-dimensional flow. In addition, the equations apply to flow from a single defect in the FML, rather than multiple defects. Therefore, results from this analysis are only preliminary ones, and the EPA will develop guidance on calculating RLL values in the near future.

RLL values can be calculated using the following equation:

$$h = (Q_d/B)/(k_d tan \beta)$$
 (1)

where:

h = hydraulic head

Q<sub>d</sub> = flow rate entering into the drainage layer

B = width of the drainage layer

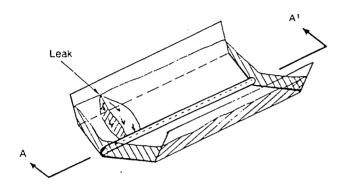
k<sub>d</sub> = hydraulic conductivity of the drainage layer

β = slope of the drainage layer perpendicular to, and in the plane of, flow toward the collection pipe

When the value for h exceeds the thickness of the drainage layer (1 foot in this example), the leakage rate is greater than the RLL value for the unit.

In reality, a leak from an isolated source, i.e., a tear or a hole in the FML, results in a discreet zone of saturation as the liquids flow toward the collection pipe (see Figure 10-1). The appropriate variable representing the width of flow, then, is not really B, the entire width of the drainage layer perpendicular to flow, but b, the width of saturated flow perpendicular to the flow direction. If b were known, the equation could be solved. But to date, the data has

not been available to quantify b for all drainage layers and leakage scenarios.



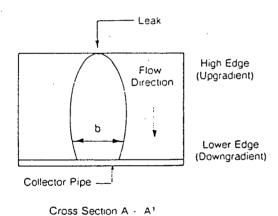


Figure 10-1. Plan view of a leak detection system with a large leak flowing over a width b.

From Equation 1, one can make substitutions for variables B and  $Q_d$  and give values for the other variables  $k_d$  and  $\tan\beta$ . If N represents the frequency of leaks in a well-designed and installed unit, then  $Q_t$ , the flow rate in the drainage layer (m³/s) is directly related to  $Q_t$ , the leakage rate per unit area (m/sec):

$$Q = NQ \text{ or } Q = q/N \tag{2}$$

Combining Equations 1 and 2 and substituting b for B, and q for Q:

$$h = g/(Nbk_d tan\beta)$$
 (3)

Equation 3 now can be used to define the leakage rate (q) that exceeds the leak detection system capacity. All that is needed are the values for the other variables  $(N, k_d, \tan\beta)$ . For a well-designed and installed unit, the frequency of leaks (N) is 1 hole per

acre, or in units of  $m^2$ ;  $N = 1/4,000m^2$ . Substituting this value into Equation 3:

$$h = 4000q/(bk_d tan\beta)$$
 (4)

Where q is in units of liters/1,000 m<sup>2</sup>/day (Ltd); Equation 4 can be written as follows:

$$h = 4.6 \times 10^{-8} q/(bk_d tan \beta)$$
 (5)

The proposed rule requires leak detection systems to have a minimum bottom slope of 2 percent  $(\tan\beta)$  and minimum hydraulic conductivity of  $10^{-2}$  m/sec (kd). Substituting these values into Equation 5:

$$h = 2.3 \times 10^{-4} \text{ g/b}$$
 (6)

where h is in units of m, q is in units of Ltd, and b is in units of m. For the purposes of these calculations, it is assumed that Ltd is equivalent to about 1 gal/acre/day. The final results were derived by using three different values for b (the unknown variable) and determining what values of q between 100 and 10,000 gal/acre/day (Ltd) result in hydraulic heads exceeding the 1-foot thickness of the drainage layer (h).

Table 10-2 shows the results of these preliminary calculations. For values of q between 100 and 10,000 gal/acre/day and values of b between 3 and 6 foot, the hydraulic head exceeds 1 foot when leak rates are in the range of 2,000 to 10,000 gal/acre/day. Therefore, RLL values for leak detection systems consisting of granular drainage layer are expected to be in the range of 2,000 to 10,000 gal/acre/day. Clogging of the drainage layer would decrease the design capacity of the leak detection system, and hence the RLL value, over time. With respect to the variables described above, clogging of the drainage layer could be represented using smaller values for b, the width of saturated flow, since clogging would result in a reduced width of saturated flow. As shown in Table 10-2, smaller values of b reduce the minimum leakage rate, q, needed to generate heads exceeding the 1-foot thickness. EPA plans to issue guidance on estimating the effect of clogging on RLL values.

Table 10-2. Results of Preliminary Studies Defining Ranges of RLL Values

Width (b) ft	Flow (q) gal/acre/day		
3.3	1,000 - 2,000		
5.0	2,000 - 5,000		
 6.6	5,000 - 10,000		

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						•		
Leakaç	e thr	ough GM ov	verlain by me	edium permeat	oility material			
					Q=3a^.75 h^.75	Kd^.5		
				·				
Head		Head	Kd_	a, m^2	Flow, Q	Flow, Q		
feet		meters	m/sec		m^3/sec	gal/acre/day		
	0.5	0.1524	1.00E-05	0.0001	2.31E-06	52.7588		<u> </u>
	1	0.3048	1.00E-05	0.0001	3.89E-06	88.7294		
	1.5	0.4572	1.00E-05		5.27E-06	120.2640		
	2				6.54E-06			
	2.5				7.74E-06			
·	3		1.00E-05		8.87E-06			
	3.5	1.0668			9.96E-06			
	4				1.10E-05			
	4.5	1.3716			1.20E-05			
	5	1.5240			1.30E-05			
	5.5	1.6764	1.00E-05		1.40E-05			
	6	1.8288		1				
	6.5	1.9812	1.00E-05					
	18	5.4864	1.00E-05					
	-2:3	0.7010	5.00E-05					
	4.2	1.2802	5.00E-05	0.0001	2.55E-05	582.0889		-
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PASCO COUNTY, FLORIDA

NEW PORT RICHEY (813) 847-8145 596-8145 SUNCOM

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-205 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

#### FACSIMILE TRANSMISSION

TO:	MR. Kim Fas
	SOLIO WASTE SECTION
	FAX # 744-6/25
FROM:	MIKE CANDI
DATE:	11/14/97
RE:	Weekly LEACHATE MPT. ASH CEUS
REMARKS:	AS REGULSTED, DER ON PHONE CONFRISATION
	TODAY.
TRANSMITT	NG PAGES INCLUDING COVER SHEET.
ir you do	NOT RECRIVE ALL PAGES, PLEASE CALL MIKE
AT (813)	847-8145 <u>OR</u> (813) 847-8041 596-8145
OUR FACSI	TLE NUMBER IS (813) 847-8064 OR SUNCON 596-8064.



PASCO COUNTY: UTILITIES SERVICES BRANCH

LEACHATE REPORT

CALENDAR YEAR END 12/31/97

}			WEST PASC LEACHATE	O CLASS		0		(INPUT) LEACHATE MANAGEMENT
MONTH	ASH	5800MD	AŞH /	=======================================	SOLID WASTE	negative to	MEASURED	PLANT
& DAY	CELLI	LEGE	CELLI	LDED	CELL	LIMER	rainfall	CHARGING LINE
Jan-97	159,979	1,911	1,200	0	142,361	5,929	2.100	O
Feb-97	136,907	2,548	<b>\82,100</b>	1,200	158,697	1,176	1,600	0
Mar-97	88,735	1,225	80,168-	0	205,209	2,401	2.650	0
Apr-97	170	1,715	1,662,100	100	282,330	3,724	7.300	974,990
May-97	374,493	1,127	292,800	15,000	433,890	3,430	0.800	122,320
Jun-07	82,350	2,744	321,000	24,800	787,078	6,762	6.500	199,570
Jul-97	137,945	1,323	1,371,800	46,700	2,493,884	3,871	11.850	297,018
Aug-97	204,289	833	330,300	0	1,786,445	3,675	7.950	305,655
Sep-97	40	1,813	O	55,777	957,830	4,067	8.300	401,580
Oct-97	10	2,646	0	121,700	734,530	10,143	6.700	432,290
Nov-97	0	٠ ٥	0	. 0	0	0	0.000	
Dec-97	0	Đ	0	_, 0	0	0	0.000	
1997	1,182,918	17,885	4,121,468	265,277	7,982,254	45,178	55.750	2,733,423

- West Pasco Class Landill has a total of 20 stres, which are comprised of three calls. The cells consist of the following:
  - Ash Coll I /2 sores OPEN
    - 8 aum INTERMEDIATE
  - Ash Cellill 10 ares OPEN - Solid Waste Cell I - 9 ares OPEN
- Estimated, Due to Moter Problem. The meter was replaced on December 18, 1996. The broken meter will be repaired to be kept on hand, as a spare.

Primary equipment failure, temporary pumping system be-up to pump A. into A-1. Fump failure reported 12/30/96. This problem was corrected by January 23, 1997 along with the check valve. The girck valve problem is noted on the January 1997 spreedsheet.

- (1) = During July, 1,521,600 gallons were diverted to the Shady-Hills Westewater Tresument Plans.
- (2) = During August, 251,291 gallors were diverted to Shady Hills Wastewater Trestment Plant.

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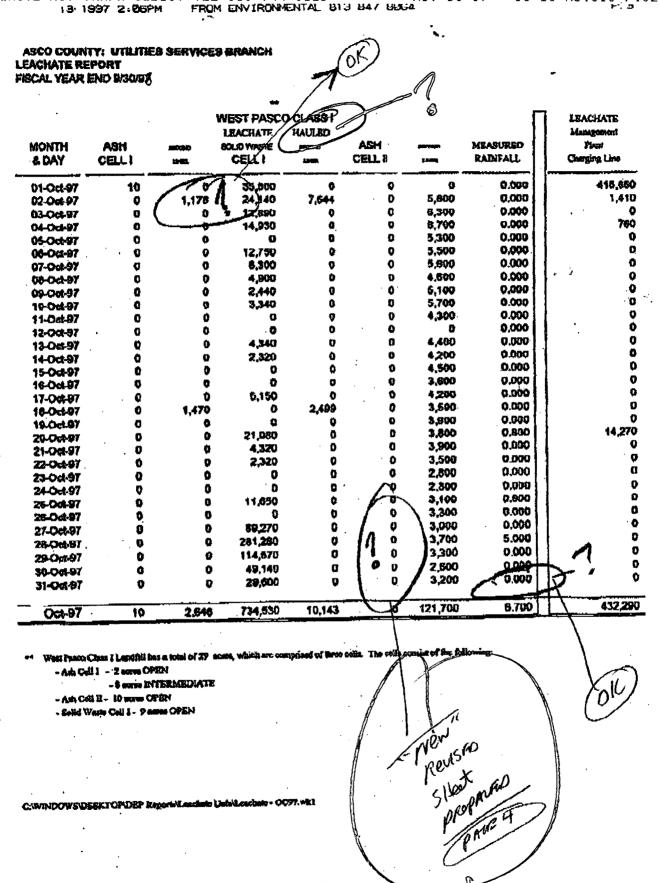


WASTE MGT TAMPA SUDIST

813-744-6125

Nov 13 %

18:18 No.010 P.02



WASTE MGT TAMPA SWDIST

813-744-6125 NO FROM ENVIRONMENTAL 813 847 8084

\_\_\_Nov 13

18:19 No.010 P.04

SCO COUNTY: UTILITIES SERVICES BRANCH EACHATE REPORT FISCAL YEAR END 9/30/98

03-Nov-97

WEST	DV:	SCO

MONTH & DAY	ASH ÇELL I	BECOMO ASH	FENCE	Measured Rainfall	h
27-Oct-97 28-Oct-97 29-Oct-97 30-Oct-97 31-Oct-97	0 0 0 0	0 33,100 0 27,000 29,500 21,500 9 28,000	3,000 3,700 3,300 2,600 3,200	0.000 5.000 0.000 0.000 3.500	See MIACUES See MIACUES
Oct-97	0	0 30,100	15,B00	8.800	J Nation

20 NA

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PASCO COUNTY: UTILITIES SERVICES BRANCH LEACHATE REPORT

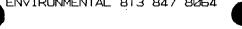
FISCAL YEAR END 9/30/98

08-Oct-97 ·

WES	TP	124	າດ:

HTMOM & DAY	ASH CELL1	Traing Section	ASH CELLII	SOCCIE LINEA	MEASURED RAINFALL	NOTES
Prosession o susepsin				35700	deo	Townsones May A
01-Oct-97 02-Oct-97 03-Oct-97 04-Oct-97 05-Oct-97 07-Oct-97 08-Oct-97	0 0 0 0 0	1175 0 0 0	00000000	0 5,800 6,300 6,700 5,300 5,500 5,600 4,600	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	
Oct-97	G	0	Ç.	39,800	0.000	

MONAHA OCTIAHA Revisted



### PASCO COUNTY: UTILITIES SERVICES BRANCH **LEACHATE REPORT**

FISCAL YEAR END 9/30/9%

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	WEST PASCO CLASS J	
	WEST PASCECLASS	
MONTH	LEACHATE	Ì
& DAY	HAULED	l .
01-Oct-97	( 36,000	
02-Oct-97	36,000	
03-Oct-97	6,000	
04-Oct-97	0	1
05-Oct-97	0	. [
06-Oct-97	18,000	1
07-Oct-97	0	
08-Oct-97	0	
09-Oct-97	18,000	
10-Oct-97	18,000	
11-Oct-97	18,000	
12-Oct-97	0	
13-Oct-97	18,000	
14-Oct-97	60,000	
15-Oct-97	18,000	
16-Oct-97	60,000	
17-Oct-97	48,000	
18-Oct-97	48,000	
19-Oct-97	0	•
20-Oct-97	42,000	
21-Oct-97	18,000	
22-Oct-97	30,000	
23-Oct-97	18,000	
24-Oct-97	24,000	
25-Oct-97	30,000	
26-Oct-97	30,000	<b>\</b>
27-Oct-97	48,000	[
28-Oct-97	30,000	
29-Oct-97	30,000	]
30-Oct-97	35,300	
31-Oct-97	35,300	
Oct-97	772,600	

<sup>@@</sup> West Pasco Class I (Ash Cell I) Leachate hauled from the storage tank to the wastewater treatment plant

#### Transmit Confirmation Report

004 No.

Receiver

8-1-813-856-0007 WASTE MGT TAMPA SWDIST Nov 21 97 9:17 09'11 Transmitter Date

Time Norm

Mode Pages Result 16 0K



# Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

November 21, 1997 Pasco County

Mr. Douglas Bramlett, Assistant County Administrator, Pasco County Utilities Services Public Works/Utilities Bld., S-205 7530 Little Road New Port Richey, FL 34654

RE: Co-Treatment of Ash Leachate: City of Tampa's Howard F. Curren WWTP.

Dear Mr. Bramlett:

The Department has received and reviewed your request, dated November 12, 1997, to transport ash leachate from your Hay's Road Resource Recovery Facility's Ash Cells [a.k.a. Cell A-1 & Cell A-2] to the City of Tampa's Howard F. Curren wastewater treatment plant ("WWTP") for co-treatment.

Based on the information currently available, the Department has no objections to your proposal to transport the above referenced ash leachate to Howard F. Curren WWTP for co-treatment, with the proviso that the City's WWTP must continue to operate within its permitted limits.

The Department strongly recommends that the ability of the WWTP to co-treat this leachate be evaluated by initially transporting for treatment a proportionally small volume of leachate (for example 10% of the anticipated total daily loading) and observing the effect of the leachate on the plant and its effluent. As the WWTP demonstrates it's ability to satisfactorily assimilate & treat the leachate, increase the loading.

If you have any questions, or require any further assistance, please contact Mr. Pete Burghardt, Environmental Specialist II, at (813) 744-6100, extension 311.

Richard D. Garrity, Ph.D., Director of District Management

Southwest District

cc: John Drapp, City of Tampa's Howard F. Curren WWTP, 2700 maritime Blvd. Tampa, FL 33605

Pete Burghardt, E.S. II, FDEP E. G. Snipes, P.E., FDEP J. A. Amato, P.E., FDEP Robert Butera, P.E., FDEP Kim Ford, P.E., FDEP Henry Dominick, P.E., FDEP



# Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

November 21, 1997 Pasco County

Mr. Douglas Bramlett, Assistant County Administrator, Pasco County Utilities Services Public Works/Utilities Bld., S-205 7530 Little Road New Port Richey, FL 34654

RE:

Co-Treatment of Ash Leachate: City of New Port Richey WWTP.

Dear Mr. Bramlett:

The Department has received and reviewed your request, dated November 12, 1997, to transport ash leachate from your Hay's Road Resource Recovery Facility's Ash Cells [a.k.a. Cell A-1 & Cell A-2] to the City of New Port Richey wastewater treatment plant ("WWTP") for co-treatment.

Based on the information currently available, the Department has no objections to your proposal to transport the above referenced ash leachate to City of New Port Richey WWTP for co-treatment, with the following provisos:

- 1) The City's WWTP must continue to operate within its permitted surface water discharge limits.
- 2) The WWTP effluent is NOT being distributed to any Chapter 62-610 F.A.C. effluent reuse system.

The Department strongly recommends that the ability of the WWTP to co-treat this leachate prior to discharge to Cross Bayou be evaluated by initially transporting for treatment a proportionally small volume of leachate (for example 10% of the anticipated total daily loading of leachate) and observing the effect of the leachate on the plant and its effluent. As the WWTP demonstrates it's ability to satisfactorily assimilate & treat the leachate, increase the loading.

If you have any questions, or require any further assistance, please contact Mr. Pete Burghardt, Environmental Specialist II, at (813) 744-6100, extension 311.

Richard D. Garrity, Ph.D..

**Director of District Management** 

Southwest District

cc: Ronald Kramer, City of New Port Richey

Pete Burghardt, E.S. II, FDEP E. G. Snipes, P.E., FDEP

J. A. Amato, P.E., FDEP

Robert Butera, P.E., FDEP

Kim Ford, P.E., FDEP

Henry Dominick, P.E., FDEP

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

# FAX

Date: 12497

Number of pages including cover sheet: 3

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Phone:	813	8560001	

From:

Phone: (813) 744-6100 × 383

Fax phone: (813) 744-6125

REMARKS:	Urgent [	For your review	Reply ASAP	☐ Please comment
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# Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

November 21, 1997

Mr. Vince Mannella, P.E. Solid Waste Management Pasco County Utilities 7536 State Street New Port Richey, FL 34654

Re: West Pasco Landfill, Disposal Units A-1 and A-2 #PA87-23, Pasco County

Dear Mr. Mannella:

On November 18, 1997, the Department sent Warning Letter #WL97-0008SW51SWD regarding Disposal Units A-1 and A-2 (copy attached). Attached are documents concerning additional related issues that have not been resolved.

- 1. DEP's March 12, 1997 letter and copy of the approved operations plan for the landfill disposal units A-1 and A-2, Sections 8.2.6 and 8.2.8 describe the use of control valves and berms to isolate and minimize leachate generation. The current method and sequence of filling conflicts with this approved plan. A revised operations plan has been requested but has not been provided. On March 18, 1997, staff observed the bottom of disposal unit A-2 covered with ash rather than segmenting stormwater from leachate. Leachate generation has not been minimized.
- 2. Pasco County's September 29, 1997 letter describes placement of super sacks of chlorides in disposal unit A-2, and CDM's January 11, 1996 letter regards the same. On October 6, 1997, staff observed broken and damaged sacks and uncontained/spilled chlorides. The bag breaches have not been minimized.
- 3. Leak detection system flow rates have varied from 5,800 to 2,600 gallons of leachate removed from disposal unit A-2 from October 2 until November 12, 1997. An evaluation describing the significance of these leakage rates has been requested by phone as we discussed on November 21, 1997.

The Department requests an amended operations plan to provide for minimized leachate generation and containment of chlorides by December 5, 1997. The amended operations plan should be accompanied by a corrective actions plan to resolve current deviations from the approved operational plan and unfavorable site conditions addressed in this letter and a schedule for completion.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Vincent Mannella, P.E. Solid Waste Management

November 21, 1997 Page Two

On all future correspondence, please include Robert Butera on distribution. If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab Attachment

cc: John Gallagher, Pasco County
Douglas Bramlett, Pasco County
Robert Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa

# Transmit Confirmation Report

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# STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

# CONVERSATION RECORD.

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# Department of Environmental Protection

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Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

November 19, 1997

Virginia B. Wetherell Secretary

Mr. Douglas S. Bramlett Assistant County Administrator Utilities Services Pasco County 7530 Little Road New Port Richey, Florida 34654

Re: Emergency Discharge of Ash Monofill Leachate

Dear Mr. Bramlett:

Your November 4, 1997, request for authorization to discharge leachate to the post aeration tank at the City of New Port Richey's wastewater treatment plant has been reviewed by staff in the Industrial Wastewater and Technical Support Programs. We have determined that an NPDES permit would be required for such a discharge.

It is my understanding that you are pursuing transporting the leachate to the City of Tampa's Howard F. Curren WWTP. As the leachate would be introduced at the head end of the plant, an Industrial Wastewater permit would not be required. This would appear to be a more viable alternative given the capacity of Tampa's facility.

Should you wish to pursue application for an NPDES permit, Mr. Mohammed Kader, Supervisor of the IW Permitting Section, will be able to provide you with any assistance you require. You can reach Mr. Kader under telephone number (813) 744-6100, extension 402.

Sincerely,

Henry B. Dominick, P.E.

Manager

Industrial Wastewater Program

HBD/jh

cc: Robert Butera Ed Snipes



# Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

NOV 1 8 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. John Gallagher County Administrator, Pasco County 7530 Little Road New Port Richey, FL 34654

#### WARNING LETTER #WL97-0008SW51SWD

RE:

West Pasco Class I Landfill, Disposal Units A-1 and A-2

PA87-23, Pasco County

Dear Mr. Gallagher:

The purpose of this letter is to advise you of possible violations of law for which you may be responsible, and to seek your cooperation in resolving the matter. Written and verbal notifications and reports by Pasco County, as well as field inspections conducted on October 6 and October 28, 1997 of the West Pasco Class I Landfill indicate that violations of Florida Statutes and Rules may exist at the above-referenced facility. Department of Environmental Protection personnel observed the following at the facility:

- 1) A significant quantity (what has been determined to be millions of gallons) of leachate, at one time observed to be three to five feet deep, is impounded in portions of Disposal Unit A-2.
- 2) In addition Pasco County has failed to remove leachate from the collection system of Disposal Unit A-1.

Florida Administrative Code Rule 62-701.400(3) provides minimum design standards for the construction of landfills. According to this rule double lined landfills shall have a primary leachate collection and removal system designed to limit the leachate head to one foot above the liner during routine landfill operations. This rule further requires a leak detection and secondary leachate collection system designed to limit the maximum hydraulic head on the lower liner to one inch. It is a violation of F.A.C. Rule 62-701.500(8)(b) to fail to maintain the leachate collection and removal system as designed. Failure to comply with Department rules or a permit issued by the Department pursuant to its lawful authority is a violation of Section 403.161(1)(b), F.S.

You are advised that any activity at your facility that may be contributing to violations of the above described statutes and rules should cease immediately. The operation of a facility in violation of state statutes or rules may result in liability for damages and restoration, and the judicial imposition of civil penalties up to \$10,000 per violation per day pursuant to Sections

403.141 and 403.161, Florida Statutes. You should note, according to Department guidelines for calculation of civil penalties, the violations described above typically warrant penalties in the range of \$4,600 - \$6,000 per day.

PLEASE BE ADVISED that this Warning Letter is part of an agency investigation, preliminary to agency action in accordance with Section 120.57(4), Florida Statutes.

You are requested to contact the Department within 5 days of receipt of this letter to arrange a meeting with the Department to discuss resolution of these issues. At this meeting, you should be prepared to provide to the Department for discussion the **specific** plans for corrective actions to be implemented by Pasco County to rectify the situation, including a time table for completion of the activities.

Sincerely

Richard D. Garrity, Ph.D/

Director of District Management

Southwest District

cc: Douglas Bramlett, Pasco County Vincent Mannella, P.E., Pasco County Robert J. Butera, P.E., FDEP Gots the

# STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

# CONVERSATION RECORD.

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PA-01 1/96



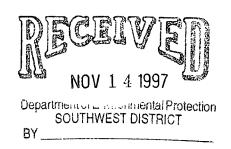
# PASCO COUNTY, FLORIDA

DADE CITY (352) 521-4274 LAND O' LAKES (813) 996-7341 NEW PORT RICHEY (813) 847-8145 FAX (813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-213 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

November 12, 1997

Mr. Peter H. Burghardt, P.E. Environmental Specialist II Division of Water Facilities Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318



RE:

Co-Treatment of Ash Leachate - Shady Hills Waste Water Treatment

Plant (WWTP) - Consent Agreement - OGC File 96-0953

Dear Mr. Burghardt:

As follow-up to our recent discussions concerning repair of our Leachate Management Facility (LMF), please accept this letter as our request to modify our existing Consent Agreement to allow additional cotreatment of ash leachate.

The contractor and engineer in a meeting on Thursday, November 6, 1997, advised Pasco County that the LMF will not be repaired and operational until January, 1998. Given the short history of this facility, I believe it may not be fully operational until May or June, 1998. Based on this analysis and the fact that Pasco County must <u>immediately</u> begin to pump and co-treat ash leachate from our West Pasco Landfill ash monofill cells A-1 and A-2, your approval of this request is needed.

We are currently negotiating a contract with the City of Tampa to transport and co-treat approximately 60,000 gpd of ash leachate at the City's Howard F. Curren advanced WWTP. We are currently advertising for bids to transport approximately  $6,000,000 \pm \text{gallons}$  to the City over a three-month period which hopefully can begin as early as December 1, 1997.

Mr. Peter H. Burghardt November 12, 1997

We are also scheduled to begin transport of limited loads to the City of New Port Richey's WWTP but they are restricted due to the low daily plant flows. Our schedule is to again transport approximately 20,000 gpd to the New Port Richey facility on or about December 1, 1997.

I have also enclosed a copy of our task Order with Law Engineering to provide for a "rain cap" over cell A-1 and a partial "rain catch basin" in cell A-2 to eliminate a majority of the rainfall from these two ash monofills. We estimate that this work can be completed in approximately 60 days or at least prior to February 1, 1998.

Again, as discussed with you previously, the co-treatment of ash leachate is absolutely necessary to resolve this problem at the earliest possible date. We have estimated that 30,000 gpd can be processed at the Shady Hills WWTP without causing a biological upset condition at the plant.

Your immediate and earliest review and approval of this request would be greatly appreciated.

Sincerely

Douglas S. Bramlett

Assistant County Administrator

(Utilities Services)

DSB/mvv

Enclosure

Joseph G. Amato, P.E. II, Division of Water Facilities, Florida Department of Environmental Protection (FDEP), 3804 Coconut Palm Drive, Tampa, FL 33619-8318
 Robert J. Butera, P.E. III, Division of Waste Management, FDEP, Tampa, FL Kim B. Ford, P.E. I, Division of Waste Management, FDEP, Tampa, FL Richard D. Garrity, Ph.D., Director of District Management, FDEP, Tampa, FL John J. Gallagher, County Administrator

#### PASCO COUNTY, FLORI' INTEROFFICE MEMORANDUM

TO:

Honorable Chairman and Members of the Board of

County Commissioners

DATE: 11/10/97

FILE: UT98-187

SUBJECT: Task Order No. 1-98 - Law Engineering and Environmental Services, Inc. - Leachate Generation at West Pasco Landfill - Cells A-1

and A-2

FROM: Douglas S.

Assistant County Administrator

(Utilities Services)

REFERENCES: All Comm. Dists.

It is recommended that the data herein presented be given formal consideration by the Board of County Commissioners.

#### **DESCRIPTION AND CONDITIONS:**

The West Pasco Landfill currently has two ash monofil cells (A-1 and A-2) which, due to normal rainfall within each of the ten-acre lined cells, generates ash leachate which must be collected, treated, and disposed. The existing Leachate Management Facility is having operational problems; therefore, it is necessary to proceed with a "rain cap" on top of Cell A-1 and a "rain catch basin" inside of A-2.

Staff has solicited the attached task order from Law Engineering and Environmental Services, Inc., to provide specifications and design of the rain cap and temporary rain catch basin to eliminate rains from entering these cells thus substantially reducing the amount of leachate generated within each cell. This work will be accomplished in approximately 90 days at a not-to-exceed cost of \$10,735.00. Staff recommends approval.

## **ALTERNATIVES AND ANALYSIS:**

Approval of the attached task order will provide needed design and specifications for this work to reduce rainfall generation in Cells A-1 and A-2.

Disapproval of the attached task order will delay construction of the rain cap for Cell A-1 and rain catch basin for Cell A-2, which will cause a continued problem with excess leachate.

## **RECOMMENDATION AND FUNDING:**

The Utilities Services Branch recommends that the Board of County Commissioners approve the attached Task Order No. 1-98, authorize the Chairman to execute the four original agreements provided, and direct Secretarial Services to distribute the agreements as follows: one original to be retained by Secretarial Services; one original to OMB, New Port Richey; one original to the Utilities Service Branch, New Port Richey; and one original to be mailed to:

> Richard E. Meyer, P.E. Law Engineering and Environmental Services, Inc. 4919 W. Laurel Street Tampa, FL 33607 Telephone (813) 289-0750 Federal ID No. 59-2591324

Funding is available in Account No. B450-752200-33100.

#### **ATTACHMENTS:**

BY

Agreement (Four Originals)

DSB/ut/law01 APPROVED AGENDA ITEM FOR DATE

# TASK ORDER 1-98 TECHNICAL ASSISTANCE IN MINIMIZING LEACHATE GENERATION AT THE WEST PASCO LANDFILL, CELLS A-1 AND A-2

## Prepared for:

# PASCO COUNTY UTILITY SERVICES BRANCH Pasco County, Florida

Prepared by:

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC. Tampa, Florida

November 1997

LAW Proposal TE97-1113

# Task Order 1-98

Technical Assistance in Minimizing Leachate Generation at the West Pasco Landfill, Cells A-1 and A-2

### Task Order 1-98

# Technical Assistance in Minimizing Leachate Generation at the West Pasco Landfill, Cells A-1 and A-2

# A. SCOPE OF SERVICES

The scope of this Task Order shall include technical assistance in minimizing leachate generation at the West Pasco Landfill, Cells A-1 and A-2. The specific services which the Consultant agrees to furnish are stipulated in ATTACHMENT A - SCOPE OF SERVICES.

# B. TIME OF COMPLETION

The Time of Completion for Task Order 1-98 will be no later than one month after the signed task order is received.

Work under this task order will begin within one week following written authorization.

#### C. COMPENSATION

Professional fees for Task Order 1-98 shall be in accordance with the provisions of the AGREEMENT to FURNISH PROFESSIONAL SERVICES to Pasco County. The maximum total billing limit for this task order shall be \$10,735. An approximate breakdown of the costs to be incurred under this revision is provided in ATTACHMENT B - COMPENSATION.

## D. ACCEPTANCE

By signature hereon, the parties each accept the provisions of TASK ORDER 1-98, and authorize the Consultant to proceed at the direction of the County's representative, in accordance with the "SCOPE OF SERVICES."

(SEAL)

BY: \_\_\_

ATTORNEY

CLERK OF CIRCUIT COURT	BOARD OF COUNTY COMMISSIONERS OF PASCO COUNTY, FLORIDA
BY: DEPUTY CLERK	BY:CHAIRMAN
LAW ENGI	NEERING and ENVIRONMENTAL SERVICES, INC.
WITNESS Judith Talling	BY: hely & breey
WITNESS:	TITLE: Praincel
Dated this day of	, 1997
APPROVED AS TO LEGAL FOR OFFICE OF THE COUNT	RM AND CONTENT V ATTORNEY

# TASK ORDER 1-98 ATTACHMENT A SCOPE OF SERVICES

# ATTACHMENT A Task Order 1-98

# Technical Assistance in Minimizing Leachate Generation at the West Pasco Landfill, Cells A-1 and A-2

## I. GENERAL INFORMATION

Owner:

Pasco County, Florida

Department:

Utility Services Branch

Contact:

Douglas S. Bramlett

Assistant County Administrator

Phone:

813-847-8145

# II. BACKGROUND & DESCRIPTION OF PROJECT:

The Florida Department of Environmental Protection (FDEP) has requested that Pasco County reduce the quantity of leachate being generated from Cell A-2 of the West Pasco Landfill. In addition, the leachate generation rate from Cell A-1 tends to increase significantly after heavy rains which results in added treatment costs. The County has asked Law Engineering and Environmental Services Inc. (LAW) to provide technical assistance in lowering leachate rates from both cells.

LAW assisted the County with a preliminary investigation of alternatives for lowering generation rates and it was decided to modify the operation plan at Cell A-2 and place a low permeability layer over the ash in Cell A-1.

## III. SCOPE OF SERVICES

LAW will prepare an operations plan to include filling procedures and possibly the use of a rain tarp to limit rainfall infiltration in inactive areas of Cell A-2. LAW will work closely with the County and submit a draft plan to the County for comments. We will incorporate the County's comments into the plan and submit it to the FDEP. LAW will respond to any comments the FDEP may have.

LAW will prepare a plan for surface preparation, material and construction specifications for placing a low permeability layer over Cell A-1. LAW will work closely with the County and submit a draft plan to the County for comments. We will incorporate the County's comments into the plan and submit it to the FDEP. LAW will respond to any comments the FDEP may have. We understand the County is considering performing the construction. Our scope

includes two site visits during construction. The FDEP has requested As Built plans for the construction activities and LAW will provide these. Our scope does not include surveys and we anticipate the County will provide these if needed.

# IV. ESTIMATED COSTS

The estimated cost for completing the project is \$10,735. If the actual cost of performing the scope of services described above is less than \$10,735 the County will only be charged for actual labor and expenses incurred. A detailed presentation of man-hours and the cost for labor and expenses is included in Attachment B.

TASK ORDER 1-98
ATTACHMENT B
COMPENSATION

## **COMPENSATION**

The total estimated fee for the scope of services described above is \$10,735. A detailed breakdown of fees is tabulated in the attached table. A Billing Rate Schedule follows the Fee Estimate for this project.

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			\$/HR.	MANHOURS	EST. COST	
POSITION	TASK 3 PERSON	OPERATIO		•		33740
COST ESTI		Page 3	Number: 1		Date:	35740
LAW ENVIR		NC.	Task Orac	1.98		

# Law Engineering and Environmental Services, Inc. Billing Rate Schedule Environmental Department Pasco County

Employee Class Code	Employee Class Code Name	Pasco County
Labor Technicians	& Other Technical (100 - 200)	Rate
170	Technician III	
200	Senior Technician	\$37.00
Professionals (400 -	(00)	57.00
400	Staff Professional	
301	Staff Professional I	39.00
302	Staff Professional II	52.00
303	Professional/Project Manager	65.00
304	Senior Professional/Project Manager	75.00
305	Principal I/Project Manager	92.00
Support Personnel (	700 - 899)	115.00
700	Word Processor	
740	Project Administrator	37.00
306	Senior Draftsperson	44.00
	demot Diansperson	47.00

# 1997 LAW ENGINEERING ENVIRONMENTAL SERVICES SCHEDULE OF FEES UPDATED 5/8/97

B)	OTHER EXPENSES	
	COMPUTER MODELING (per hour)	\$ 25.00
	ADMINISTRATION (per project)	\$ 65.00
	HEALTH & SAFETY ADMINISTRATION (per project)	<b>\$</b> 75.00
	QA/QC ADMINISTRATION (per project)	\$ 75.00
	EXTRA REPORT COPIES (each)	\$ 50.00
	THIRD PARTY INVOICES	cost plus 15%
	MILEAGE COMPANY TRUCKS (per mile)	\$ 0.50
	TRAVEL EXPENSE	cost plus 15%
	CHAIN-OF-TITLE	cost plus 25%
	AERIAL PHOTOGRAPHS, MAPS, ETC.	cost plus 15%
C)	EQUIPMENT	
	EXPLOSIMETER (per day)	\$ 20.00
	OVA-FID (per day)	\$200.00
	PERISTALTIC PUMP (each)	\$ 50.00
	PUMP TUBING (per foot)	\$ 0.50

# 1997 LAW ENGINEERING ENVIRONMENTAL SERVICES SCHEDULE OF FEES UPDATED 5/8/97

C)	EQUIPMENT (CONTINUED)	
	TEFLON BLADDER PUMP (per day)	\$200.00
	BLADDER PUMP SUPPLIES (per foot)	<b>\$</b> 2.00
	DISPOSABLE TEFLON BAILER (each)	<b>\$</b> 15.50
	DECONTAMINATION	\$ 50.00
	PERSONAL SAFETY EQUIPMENT (per person)	\$ 50.00
	pH, CONDUCTIVITY, TEMPERATURE METER (per day)	\$ 40.00
	TURBIDITY METER (per day)	\$ 40.00
	DISSOLVED OXYGEN METER (per day)	\$ 30.00
	TCE/PCE FIELD TESTER (each)	\$ 50.00
	HERMIT DATA-LOGGER (per day)	\$400.00
	SURVEYING INSTRUMENTATION (per day)	\$100.00
	WASTE DRUMS (each)	\$ 35.00
D)	DRILLING SERVICES	
	DRILLING RIG MOBILIZATION (each)	\$450.00
	TYPE III MONITORING WELL (per foot)	\$ 50.00
	TYPE II MONITORING WELL (per foot)	\$ 30.00
	TEMPORARY MONITORING WELL (per foot)	\$ 9.50
	PIEZOMETER INSTALLATION (per foot)	\$ 9.50
	PIEZOMETER MEASUREMENTS (each)	\$ 25.00
	SPT BORINGS (per foot)	\$ 9.75
	AUGER BORINGS (per foot)	\$ 7.75

# 1997 LAW ENGINEERING ENVIRONMENTAL SERVICES SCHEDULE OF FEES UPDATED 5/8/97

D)	DRILLING SERVICES (CONTINUED)	
	WELL DEVELOPMENT (per hour)	\$145.00
	STEAM CLEANING (per hour)	<b>\$</b> 145.00 ·
	STEAM CLEANER RENTAL (per day)	\$ 85.00
	GENERATOR RENTAL (per day)	\$ 85.00
	WELL PERMITS & PERMIT TIME (each)	\$ 40.00
	WELL COVERS & LOCKS (each)	\$150.00
	HYDROPUNCH OPERATIONS (per day)	\$1,500.00
	HYDROPUNCH EQUIPMENT RENTAL (per day)	\$500.00
	HYDROPUNCH SUPPLIES (each)	\$100.00
E)	FIELD EXPENSES	
	SOIL SAMPLING SUPPLIES (each sample)	<b>\$</b> 12.50
	WATER SAMPLING SUPPLIES (each sample)	\$ 42.50
	SAMPLE SHIPPING (small)	\$ 75.00
•	SAMPLE SHIPPING (large)	\$150.00
F)	MILEAGE (per mile)	\$ 0.31



# PASCO COUNTY, FLORIDA

DADE CITY LAND O' LAKES **NEW PORT RICHEY**  (352) 521-4274 (813) 996-7341

(813) 847-8145

FAX

(813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIESBLDG., S-213

7530 LITTLE ROAD

NEW PORT RICHEY, FL 34654

November 12, 1997

Dr. Richard D. Garrity, Ph.D. Director of District Management Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318

RE:

Co-Treatment of Ash Leachate - City of Tampa's

Wastewater Treatment Plant (WWTP)

Dear Dr. Garrity:

Please accept this letter as my request that your office provide a letter of approval which will authorize the co-treatment of ash leachate from the West Pasco Class I Landfill at the City of Tampa's Howard F. Curren advanced WWTP.

This approval will be contingent upon the City's acceptance of our leachate based upon a recent priority pollutant analysis and chemical analysis of our leachate.

Your immediate response and approval is requested.

Douglas S. Bramlett Assistant County Administrator (Utilities Services)

DSB/mvv

Post-it" Fax Note 7671	Date /// 2 # of pages /
TO B.D. Sarrity	From Dong Bramlett
Co./Dept. FDEP	CO. PCUSB
Phone #	Phone # 847-8/45
Fax# 813-744-6084	Fax # /

Joseph G. Amato, P.E. II, Division of Water Facilities, Florida Department of Environmental Protection (FDEP), 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Peter H. Burghardt, Environmental Specialist II, Division of Water Facilities, FDEP, Tampa, FL Robert J. Butera, P.E. III, Division of Waste Management, FDEP, Tampa, FL cc: Henry B. Dominick, P.E. III, Division of Water Facilities Kim B. Ford, P.E. I, Division of Waste Management, FDEP, Tampa, FL Edward G. Snipes, P.E. II, Division of Water Facilities, FDEP, Tampa, FL Joseph M. Squitieri, Environmental Supervisor II, Division of Water Facilities, FDEP, Tampa, FL

Post-it* Fax Note	<b>7</b> 671	Date ///2 # of pages /
TO PETER SCREW	e.k	From RITTIGTZ
Co./Dept. CDCD	<u> </u>	co. PCUSB
Phone # 744-6/7	0	Phone #813-847-8145
Fax#		Fax# 847-8064
<u> </u>		

Latio Notices

REQUIREMENTS WERE

(SACTERIOLOGICAL)
This notice is for information purposes. It is not a notice of invitedicte integral is water Consumers. Should ar hazer exist, immediate statification will be mode.

The Posco County Utilities Services Branch: (PCUSB) Westalde Public Woher Supply foliation in submit the required scawbes for Backerjological applysis during the security of October, 1897. This is in violation of both State and Federal Readshiptons.

Failure to manifor the bacterial quality of the water reaching the consider audid dilow Contemination in the water system to go underected for extended periods of lime. Bacterial contemination may indicate the presence of disease producing or gonisms and could result in the outbreak of a water barne disease.

Pasco County Utilities Services Branch has since cleared for system, resembled for bacteriotosical contomination and setermined for bacteriotosical contomination and setermined flood scales and set sample tallure. The PCush nos maditied his approach to monitoring for analysis fallures and required rechecks to improve the monitoring properties regarding this natice should be directed to Robert J. Tietz, Water Operations Manager of (815)28-3145.

CLASSES START HOW.

Official Proof of Publ. to Follow.

11/12/97



DADE CITY
LAND O' LAKES

(352) 521-4274 (813) 996-7341

NEW PORT RICHEY FAX

(813) 847-8145-(813) 847-8064 UTILITIES SERVICES BRANCH PUB. WKS./UTILITIESBLDG., S-213 7530 LITTLE ROAD

NEW PORT RICHEY, FL 34654

November 12, 1997

Dr. Richard D. Garrity, Ph.D.
Director of District Management
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619-8318

RE:

Co-Treatment of Ash Leachate - City of Tampa's

Wastewater Treatment Plant (WWTP)

Dear Dr. Garrity:

Please accept this letter as my request that your office provide a letter of approval which will authorize the co-treatment of ash leachate from the West Pasco Class I Landfill at the City of Tampa's Howard F. Curren advanced WWTP.

This approval will be contingent upon the City's acceptance of our leachate based upon a recent priority pollutant analysis and chemical analysis of our leachate.

Your immediate response and approval is requested.

Sincerely,

Douglas S. Bramlett

Assistant County Administrator

(Utilities Services)

DSB/mvv

Post-it" Fax Note 7671 Date 11/12 pages 7671

To J. M. Aguiller From Jony Bramlett

Co. P. D. S.B.

Phone # Phone # 947-8145

Cc: Joseph G. Amato, P.E. II, Division of Water Facilities, Florida Department of Environmental Protection (FDEP), 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Peter H. Burghardt, Environmental Specialist II, Division of Water Facilities, FDEP, Tampa, FL Robert J. Butera, P.E. III, Division of Waste Management, FDEP, Tampa, FL Henry B. Dominick, P.E. III, Division of Water Facilities

Kim B. Ford, P.E. I, Division of Waste Management, FDEP, Tampa, FL Edward G. Snipes, P.E. II, Division of Water Facilities, FDEP, Tampa, FL Joseph M. Squitieri, Environmental Supervisor II, Division of Water Facilities, FDEP, Tampa, FL

Bors J

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

#### CONVERSATION RECORD.

Date 11/12/97	Subject A-1, A-2, TP
Time	Permit No.
	County DASCO
M Vincemannela	Telephone No. <u>813 856014</u>
Representing	Comry
•	[ ] Scheduled Meeting [ ] Unscheduled Meeting
Other Individuals Involved in Conversation	/Meeting
Summary of Conversation/Meeting	
DI Alles FOR LEAD	in to Correct A-1. Um sans
	semyer. I Askun um to
	no it i Um way Ask D. B.
	the Concentra Reports
	-or Nov. I'm will coul for
Them Toppay	
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	WK. I Acked for another Amo
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	lignature
sheet, if necessary)	`itle
	. III V

PA-01 1/96 pap



DADE CITY (352) 521-4274 LAND O' LAKES (813) 996-7341 NEW PORT RICHEY (813) 847-8145 FAX (813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-213 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

November 4, 1997

Mr. Henry Dominick, P.E. Industrial Waste Section Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318

NOV 0 5 1997

Department of Environmental Protection SOUTHWEST DISTRICT

BY

RE: Emergency Discharge of Ash Monofill Leachate

Dear Mr. Dominick:

As a follow-up to our telephone conversation on November 3, 1997, please accept this letter as Pasco County's request to initiate an emergency discharge of ash leachate into the City of New Port Richey's "post aeration tank" located within the City's wastewater treatment plant complex.

I have enclosed a recent chemical analysis of our ash leachate which is primarily high in chloride concentration. I have also enclosed a 1995 TCLP report of our ash leachate and a recent chemical and biological analysis of the City of New Port Richey's wastewater quality.

Our proposal is to deliver via 6,000 gallon trailer trucks, approximately 50,000 gallons per day of leachate to the City's wastewater plant which will be discharged into the post aeration tank. This tank located after dechlorination and prior to the discharge pipe, is approximately 150' long, 30' wide, and 10' deep. Our 50,000 gallons of leachate will be delivered and mixed with effluent over a 12-hour period between 7:00 a.m. and 9:00 p.m. each day. The plant's current average day flow is 4.2 mgd.

We believe the mixing ratio will be 60-to-1 (effluent to leachate) which will significantly dilute the leachate and the co-mingled discharge will not cause any toxicity of water quality problems. As discussed, this is a temporary emergency process that will only be needed until our Leachate Management

Mr. Henry Dominick, P.E. November 4, 1997

Facility (LMF) is repaired and on-line. We believe that our LMF will be fully operational in 90-120 days.

I request that you review the attached data and information and if possible authorize this process as a temporary emergency. I request that you coordinate your review with Mr. Robert Butera or Mr. Kim Ford in your Solid Waste Permitting Section since they are very familiar with our current ash leachate problems.

Your earliest response and approval would be greatly appreciated.

Sincerely,

Douglas S. Bramley

Assistant County Administrator

(Utilities Services)

DSB/mvv

Enclosure

CC: Peter H. Burghardt, Environmental Specialist II, Division of Water Facilities, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Robert Butera, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Kim B. Ford, P.E. I, Division of Waste Management, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Richard D. Garrity, Ph.D., Director of District Management, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Vincent Mannella, P.E., Solid Waste Facility Manager



ENVIRONMENTAL LABORATORY 8864 GOVERNMENT DRIVE NEW PORT RICHEY, FL 34654 (813) 847-8902

REPORT OF ANALYSES

LEACHATE MANAGEMENT FACILITY

RESOURCE RECOVERY SITE

HAYS ROAD

SPRING HILL, FL 34610-Attn: VINCENT MANNELLA PROJECT NAME: LMF STUDY

DATE: 10/27/97

DHRS # 44237, E44123

SAMPLE NUMBER- 61009 SAMPLE ID- LMF RAW LEACHATE

DATE SAMPLED- 10/07/97 LOCATION-

DATE RECEIVED- 10/07/97 SAMPLER- JIM HOFFMAN

TIME RECEIVED- 1030 DELIVERED BY- RON WALKER

SAMPLE MATRIX- LE TIME SAMPLED- 1000 RECEIVED BY- AS

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PRI DATE		ANALYSIS DATE	TIME	BY	RESULT	UNITS
ANALYSIS  ALKALINITY AS CACO3 PHENOLPHTHALEIN ALKALINITY TOT.ORGANIC CARBON CHLORIDE FLUORIDE - ENVIRONMENTAL AMMONIA NITROGEN KJELDAHL NITROGEN NITRITE NITRATE PH, LAB TOTAL PHOSPHOROUS TOTAL DISS.SOLIDS TOTAL SUSP. SOLIDS SPEC.CONDUCTIVITY SULFATE SULFIDE	METHOD  EPA 310.1 2320B  EPA 415.1  EPA 325.2  EPA 340.2  EPA 350.1  4500NorgB  EPA 354.1  EPA 353.2  EPA150.1  4500P B, E  EPA160.1  EPA160.2  EPA120.1  EPA375.4  EPA376.1				1400 1400 1400 1100 1130 1300 1500 1300 1130 1130 11	JKKFKKFEK JFKNKNKN JK JK JK	338 <1 38.5 28072 0.14 23.7 24.6 <0.01 <0.11 7.47 0.18 64100 302 57200 429	mg/L CaCO3 mg/L CaCO3 mg/L mg/L mg/L mg/L mg/L mg/L mg/L std units mg/L
ALUMINUM, TOTAL ARSENIC, TOTAL BARIUM, TOTAL CADMIUM, TOTAL CALCIUM, TOTAL	202.2 206.2 208.2 213.2 215.1	10/08/97 1 10/08/97 1 10/08/97 1 10/08/97 1 10/08/97 1	TER TER TER	10/23/97 10/22/97 10/24/97 10/22/97	1550 1620 0845 1500	TER TER TER TER	0.218 <0.01 2.16 <0.002	mg/L mg/L mg/L
•		, , . ,	/ `	. 0, 24, 0,		1 1-1 (	, 400	1113/ L



ENVIRONMENTAL LABORATORY 8864 GOVERNMENT DRIVE NEW PORT RICHEY, FL 34654 (813) 847-8902

Page 2 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 61009

ANALYSIS	METHOD	DATE	REP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
CHROMIUM, TOTAL COPPER, TOTAL IRON, TOTAL LEAD, TOTAL MAGNESIUM, TOTAL	218.2 220.2 SM 3111B 239.2 242.1	10/08/97 10/08/97 10/08/97	TER TER TER	10/23/97 10/24/97 10/24/97 10/22/97 10/24/97	1000 1045 1700	TER TER TER	0.016 0.17 0.88 <0.01 4.10	mg/L mg/L mg/L
MANGANESE, TOTAL NICKEL, TOTAL POTASSIUM, TOTAL SELENIUM, TOTAL SILVER, TOTAL SODIUM, TOTAL ZINC, TOTAL	SM 3111B 249.2 258.1 270.2 272.2 273.1 289.1	10/08/97 10/08/97 10/08/97 10/08/97 10/08/97	TER TER TER TER TER TER	10/24/97 10/24/97 10/24/97 10/22/97 10/22/97 10/24/97 10/24/97	1030 1020 1135 1545 1430 1145	TER TER TER TER TER TER TER	0.57 0.57 3300 0.012 <0.002 5120 0.12	mg/L mg/L mg/L mg/L mg/L

LABORATORY DIRECTOR

ladie E. Mille



### Professional Service Industries, Inc.

#### **ANALYTICAL REPORT**

**TESTED FOR:** 

Pasco County

8864 Government Drive

New Port Richey, Florida 34654

ATTENTION:

DATE:

Candia Mulhern

February 2, 1995

PROJECT:

Res. Rec. Leachate

C-O-C dated January 23, 1995

SAMPLE DATE: January 18, 1995

**OUR REPORT NUMBER: 385-5P195-0001** 

Attached, please find our analytical report for samples described on the Chain-of-Custody (C-O-C). Please note that our laboratory has assigned unique sample numbers to each of your samples as shown on the attached C-O-C. Please reference our report number and direct any questions on this report to the individual designated below or to one of our Customer Service Representatives.

Reviewed By,

Anthony R. Febbraro, Department Manager

Respectfully submitted,

Professional Service Industries, Inc.

HRS #84218 HRS #E84388

/dlt

Matrix: Soil

LAB #: 01179-01

TCLP: SW846 1311

Client ID: Solids from RCC SEMI-VOLATILES

Analyte	<u>Results</u>	<u>Units</u>	<u>Method</u>	MDL/DF	
Pyridine	< 0.05	mg/l	SW 8270	0.01/5	
1,4-Dichlorobenzene	< 0.05	mg/l	SW 8270	0.01/5	
2-Methylphenol	< 0.05	mg/l	SW 8270	0.01/5	Extraction Date:
3 & 4-Methylphenol	< 0.05	mg/l	SW 8270	0.01/5	01/25/95
Hexachloroethane	< 0.05	mg/l	SW 8270	0.01/5	Analysis Date:
Nitrobenzene	< 0.05	mg/l	SW 8270	0.01/5	01/31/95
Hexachlorobutadiene	< 0.05	mg/l	SW 8270	0.01/5	Analyst: SA
2,4,5-Trichlorophenol	< 0.05	mg/l	SW 8270	0.01/5	
2,4,6-Trichlorophenol	< 0.05	mg/l	SW 8270	0.01/5	
2,4-Dinitrotoluene	< 0.05	mg/l	SW 8270	0.01/5	
Hexachlorobenzene	< 0.05	mg/l	SW 8270	0.01/5	
Pentachlorophenol	< 0.05	mg/l	SW 8270	0.01/5	
4,4'-D.D.T.	< 0.05	mg/l	SW 8270	0.01/5	

TCLP: SW846 1311

<u>Analyte</u>	Results	<u>Units</u>	<u>Method</u>	MDL/DF	
					Extraction Date:
2,4-D	<24.0	ug/l	SW 8150	4.80/5	01/25/95
2,4,5-TP (Silvex)	<4.0	ug/l	SW 8150	0.80/5	Analysis Date:
		_			01/31/95
					Analyst: SP

### TCLP: SW846 PESTICIDES

<u>Analyte</u>	Results	<u>Units</u>	Method	MDL/DF	
C DUC	<2.5	//	SW 8080	0.5/5	Extraction Date:
G-BHC		ug/l		· • -	
Heptachlor	< 2.5	ug/l	SW 8080	0.5/5	01/30/95
Heptachlor epoxide	· <2.5	ug/l	SW 8080	0.5/5	Analysis Date:
Endrin	< 2.5	ug/l	SW 8080	0.5/5	01/31/95
Methoxychlor	< 2.5	ug/l	SW 8080	0.5/5	Analyst: SP
Toxaphene	< 2.5	ug/l	SW 8080	0.5/5	

#### TCLP: SW846 1311

<u>Analyte</u>	Results	<u>Units</u>	<u>Method</u>	Analysis Date	<u>Analyst</u>	MDL
Arsenic	< 0.050	mg/l	SW 7060	01/26/95	СР	0.050
Barium	17.0	mg/l	SW 7080	01/27/95	CP	1.00
Cadmium	< 0.050	mg/l	SW 7130	02/01/95	CP	0.050
Chromium	0.192	mg/l	SW 7190	01/26/95	CP	0.050
Lead	< 0.100	mg/l	SW 7420	01/26/95	CP	0.100
Mercury	< 0.001	mg/l	SW 7471	01/27/95	CP	0.001
Selenium	< 0.050	mg/l	SW 7740	01/26/95	CP	0.050
Silver	0.199	mg/l	SW 7760	01/27/95	CP	0.100



#### QUALITY CONTROL: ORGANIC ANALYTES

. (

QUALITY CONTROL: ORGANIC ANALYTES								Matrix: Soil
	Lab	Analytical			QC	Spike	Dup	Manix: 2011
A to A -	Batch#	Blank	MDL	<u>Units</u>	%REC	%REC	%RPD	Method
<u>Analyte</u>	Datcii#	Diank	IVIDE	Office	701112	JOINEO	70111 15	Method
Pyridine	AB0125	< 0.01	0.01	mg/l		54		8270
1,4-Dichlorobenzene	7.00120	< 0.01	0.01	mg/l		69		8270
2-Methylphenol		< 0.01	0.01	mg/l		97		8270
3 & 4-Methylphenol		< 0.01	0.01	mg/l		90		8270
Hexachloroethane		< 0.01	0.01	mg/l		59		8270
Nitrobenzene		< 0.01	0.01	mg/l		54		8270
Hexachlorobutadiene		< 0.01	0.01	mg/l		33		8270
2,4,5-Trichlorophenol		< 0.01	0.01	mg/l		61		8270
2,4,6-Trichlorophenol		< 0.01	0.01	mg/l		59		8270
2,4-Dinitrotoluene		< 0.01	0.01	mg/l		67		8270
Hexachlorobenzene		< 0.01	0.01	mg/l		77		8270
Pentachlorophenol		< 0.01	0.01	mg/l		95		8270
				_				
								Matrix: Soil
	Lab	Analytical			QC	Spike	Dup	
<u>Analyte</u>	Batch#	<u>Blank</u>	MDL	<u>Units</u>	%REC	%REC	%RPD	<u>Method</u>
<u> </u>								
2,4-D	AB0125	<4.80	4.80	ug/l		47		8150
2,4,5-TP (Silvex)		< 0.80	0.80	ug/l			87	8150
								Matrix: Soil
	Lab	<b>A</b> nalytical			QC	Spike	Dup	
<u>Analyte</u>	Batch#	<u>Blank</u>	MDL	<u>Units</u>	%REC	%REC	<u>%RPD</u>	<u>Method</u>
								0000
G-BHC	AB0130	< 0.5	0.5	ug/l		44		8080
Heptachlor		< 0.5	0.5	ug/l		42		8080
Heptachlor epoxide		< 0.5	0.5	ug/l		49		8080
Endrin		< 0.5	0.5	ug/l		50		8080
Methoxychlor		< 0.5	0.5	ug/l		59		0808
Toxaphene		< 0.5	0.5	ug/l				8080
	QUALI	TY CONTRO	L DATA	: INORGA	NIC ANAL	YTES		
								Matrix: Soil
	Lab	Analytical			QC	Spike	Dup	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Lau	Ariary tioal			2.0	op.ico	- ap	8.6 41

								Marix: 3011
	Lab	Analytical			QC	Spike	Dup	
<u>Analyte</u>	Batch#	<u>Blank</u>	MDL	<u>Units</u>	<u>%REC</u>	%REC	<u>%RPD</u>	<u>Method</u>
	450400	40.050	0.050	//	101	00	0	7060
Arsenic	AB0126	< 0.050	0.050	mg/l	101	90	U	
Barium	AB0127	<1.00	1.00	mg/l	75	90	0	7080
Cadmium	AB0201	< 0.050	0.050	mg/l	96	77	0	7130
Chromium	AB0126	< 0.050	0.050	mg/l	99	102		7190
Lead	AB0126	< 0.100	0.100	mg/l	102	110		7420
Mercury	AB0127	< 0.001	0.001	mg/l	81	. 84	0	7471
Selenium	AB0126	< 0.050	0.050	mg/l	81	121	0	7740
Silver	AB0127	< 0.100	0.100	mg/l	96	90	0	7760



#### SURROGATE RECOVERY SUMMARY

						Matrix: Soil
PSI LAB #	1-Bromo-2 -Dichloropropane (601/8010)	<b>DCAA</b> (8150)	2,4,5,6-Tetrachlor m-xylene (608/8080)	o Dibutyl Chlorendate (608/8080)	2-Fluorobiphenyl (610/8100)	Nitrobenzene (610/8100)
01179-01		60		85		
PSI LAB #	2-Fluorophenol (625/8270)	Phenol-d5 (625/8270)	Nitrobenzene-d5 (625/8270)	<b>2-Fluorobiphenyl</b> (625/8270)	2,4,6- Tribromophenol (625/8270)	Terphenyl-d14 (625/8270)
01179-01	55	42	32	37	38	86



# City of New Port Richey The Gateway To Tropical Florida'

PUBLIC WORKS DEPARTMENT

### FACSIMILE COVER SHEET DEPARTMENT OF PUBLIC WORKS, WASTEWATER TREATMENT DIVISION

Ronald A. Kramer, Assistant Public Works Director/ Utility Plant Operations Daniel Stentz, Chief Operator Allen Veil, Lead Operator Dennis Stoakley, Maintenance Supervisor

Telephone: (	813) 841~4568 813) 841~4585	DATE: //- 3-97
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	D 1 Rossell	مستوديد
то:	Doub BRAMLE RUN KRAM	
From:	KUN KRAM	TER
FAX #:		
SUBJECT:		
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<u></u>	FYI/Records	Your Approval
	Review & Respond	Other
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Message:	·	
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	with for	<b>7</b>
		/
		June

CITY/NEW PORT RICHEY TEL No.8138414585

Nov 3,97 15:41 No.005 P.02

### DHRS Certification #' 14252 & E84025 DER COMPQAP # 870251G

LABORATORY SERVICES

P.O. Box 1833 Tampa, Florida 33601 (813) 229-2879 Fax (813) 229-0002

City of New Port Richey Wastewater Treatment Plant 4730 West Main Street New Port Richey, FL 34652

Attn: Dan Stentz

\_

Report Date: May 21, 1997

Field Custody: Client/Field ID: Collection Date: Client Effluent 4-28-97/0750

Lab ID No:

12972

Lab Custody Date: 4-28-97/1000 Sample description: Reclaimed Water

Davement	Units	Results	Analysis Date	Method Q	Data <u>Jalifier</u>
Parameter	0,.255				
Arsenic	mg/l	0.0016	05-09-97	EPA 6020	
Barium	mg/l	0.0100	05-09-97	EPA 6020	
Cadmium	mg/1	0.0001	04-30-97	SM 3113B	I
Chromium	mg/l	0.003	05-09-97	EPA 6020	
*Cyanide	mg/l	< 0.02	05-08-97	SM 4500-CN E	U
Fluoride	mg/1	0.62	05-16-97	SM 4500-F C	
Lead	mg/l	< 0.001	05-16-97	SM 3113B	U
Mercury	mg/l	0.0002	05-07-97	EPA 7471	I
Nickel	mg/1	< 0.015	05-09 <b>-</b> 97	EPA 6020	U
Nitrate	mg/l	< 0.01	05-01-97	EPA 353.2	U
Nitrite	mg/l	< 0.01	04-29-97	EPA 353.2	ប
Selenium	mg/l	0.006	05-09-97	EPA 6020	
Sodium	mg/l	132	05-09-97	EPA 200.7	
Antimony	mg/l	< 0.003	05-06 <b>-</b> 97	SM 3113B	U
Beryllium	mg/l	< 0.0001	05-09-97	EPA 6020	บ
Thallium	mg/l	< 0.0001	05-09-97	EPA 6020	U

Analyzing Laboratory DHRS Certification #'s 93139 & 503018 except \* 84252 & F84025

Garrett McGibbon Laboratory Manager

### DHRS Certification #'s J4252 & E84025 DER COMPQAP # 870251G



P.O. Box 1833 Tampa, Florida 33601 (813) 229-2879 Fax (813) 229-0002

City of New Port Richey Wastwater Treatment Plant 4730 West Main Street New Port Richey, FL 34652

Attn: Dan Stentz

Report Date: May 21, 1997

Field Custody: Client/Field ID: Effl: Collection Date: 4-28

Client Effluent 4-28-97/0750

Lab ID No:

12972

Lab Custody Date: 4-28-97/1000 Sample description: Reclaimed Water

Parameter	Units	Results	Analysis Date	<u>-</u>	ata <u>lifier</u>
Aluminum	mg/l	0.0188	05-09-97	EPA 6020	
Chloride	mg/1	219	05-08-97	SM 4500-C1D	
Copper	mg/l	0.0037	05-09-97	EPA 6020	
Fluoride	mg/1	0.62	05-16-97	SM 4500 F C	
Iron	mg/l	0.044	05-09-97	EPA 200.7	
Manganese	mg/1	0.0083	05-09-97	EPA 200.7	
Silver	mg/l	< 0.0002	05-09-97	EPA 6020	U
Sulfate	mg/l	46.7	05-08-97	EPA 375.4	
Zinc	mg/l	0.036	05-09-97	EPA 6020	
*Odor	TON	none	04-28-97	SM 2150B	
	UNITS	7.90	04-28-97	SM 4500-H+B	
<pre>*pH Total Dissolved</pre>	mg/l	658	05-05-97	SM 2540C	
Solids	<i>31</i> –				
MBAS (foaming agents	mg/l	< 0.1	05-12-97	\$M 5540C	U

Analyzing Laboratory DHK5 Certification #'s 83139 & E83018 except \* 84252 & E84025

Garrett McGibbon Laboratory Manager



P.O. Box 1833 Tampa, Florida 33601 (813) 229-2879 Fax (813) 229-0002

City of New Port Richey Wastwater Treatment Plant 4730 West Main Street New Port Richey, FL 34652

Attn: Dan Stentz

Report Date: May 21, 1997

Field Custody: Client Client/Field ID: Effluent Collection Date: 4-28-97/0750

Lab ID No: 12972 Lab Custody Date: 4-28-97/1000

Lab Custody Date: 4-28-97/1000 Sample description: Reclaimed Water

Parameter	Units	Results	Analysis Date	Method	Data Qualifier
1,2,4-trichlorohenzeuc	ug/l	< 0.5	05-16-97	BPA 502.2	U
Cis-1,2-dichlornethylene)	ug/l	< 0.5	05-16-97	BPA 502.2	υ
Xylenes (total)	ug/J	< 0.5	05-16-97	EPA 502.2	U
Dichloromethane	ug/l	< 0.5	U5-16-97	EPA 502.2	υ
O-dichlorubenzene	ug/l	< 0.5	05-16-97	EPA 502.2	υ
Para-dichlorobenzenc	ug/l	< 0.5	05-16-97	EPA 502.2	U
Vinyl chloride	ug/l	< 0.5	05-16-97	EPA 502.2	U
1,1-dichloroethylene	ug/i	< 0.5	05-16-97	EPA 502.2	U
Trans-1,2-dichloroethylenc	ւղջ/l	< 0.5	05-16-97	EPA 502.2	υ
1,2-dichlorethane	ug/l	< 0.3	05-16-97	EPA 502.2	U
1.1.1-trichloroethane	n8\J	< 0.5	05-16-97	EPA 502.2	U
	ug/)	< 0.5	05-16-97	EPA 502.2	U
Carbon tetrachloride	ug/l	< 0.25	05-16-97	EPA 502.2	υ
1,2-dichloropropane	•	< 0.5	05-16-97	BPA 502.2	U
Trichlomethylene	ng/l		u5-16-97	EPA 502.2	บ
1,1,2-trichloroethane	α <b>ξ/</b> I	< 0.5	03-10-31	************	



P.O. Box 1833 Tamps, Florida 33601 (813) 229-2879 Fax (813) 229-0002

> City of New Port Richey Wastwater Treatment Plant 4730 West Main Street New Port Richey, FL 34652

Attn: Dan Stentz

Report Date: May 21, 1997

Lab ID No: 12972

Parameter	Units	Results	Analysis Date	Method	Data <u>Oualifier</u>
Tetrachloroethylene	ug/l	< 0.5	05-16-97	EPA 502.2	U
Monochlorobenzene	ug/l	< 0.5	05-16-97	EPA 502.2	v
Benzene	ug/i	< 0.2	05-16-97	EPA 502.2	U
Toluene	ug/l	< 0.5	05-16-97	EPA 502.2	U
Ethylbenzene	սք/Լ	< 0.5	05-16-97	EPA 502.2	U
Stytene	ug/l	< 0.5	05-16-97	EPA 502.2	υ
ттнм'ь	ug/l	27.6	05-16-97	EPA 502.2	

Analyzing Laboratory DHRS
Certification #1s 83139 & E 83018

Garrett McGibbon Laboratory Manager

Ganet Mc Millon

PAGE 2OF 2



Report Date: May 21, 1997

P.O. Box 1833 Tampa, Florida 33601 (813) 229-2879 Fax (813) 229-0002

> City of New Port Richey Wastewater Treatment Plant 4730 West Main Street New Port Richey, FL 34652

Attn: Dan Stentz

Field Custody: Client Client/Field ID: Effluent Collection Date: 4-28-97/0750

Lab ID No: 12972

Lab Custody Date: 4-28-97/1000 Sample description: Reclaimed Water

Parameter	Unit	Result	Analysis Date	Method	Data Qualifier
Endrin	ug/1	< 0.001	05-05-97	EPA 505	ប
Lindane	ug/l	< 0.001	05-05-97	EPA 505	U
Methoxychlor	ug/l	< 0.01	05-05-97	EPA 505	U
Toxaphene	ug/l	< 0.1	05-05-97	EPA 505	U
Dalapon	ug/l	< 0.001	05-13-97	EPA 515.1	U
Diquat	ug/l	< 0.4	05-01-97	<b>EPA</b> 549	บ
Endothall	ug/1	< 9	05-06-97	EPA 548	U
Glyphosate	ug/l	< 6	05-08-97	BPA 547	U
Di(2-ethylhexyl)adipate	ug/1	< 0.6	05-16-97	BPA 525.1	U
Oxamy1	ug/l	< 2	04-30-97	EPA 531.1	บ
Simazine	ug/l	< 0.07	05-05-97	BPA 505	U
Di(2-ethylhexyl)phthalate	ug/1	39.6	05-16-97	EPA 525.1	
Picloram	ug/l	< 0.07	05-13-97	EPA 515.1	
Dinoseb	ug/l	< 0.01	05-13 <b>-97</b>	EPA 515.1	
Hexachlorocyclopentadiene	ug/l	< 0.1	05-05-97	EPA 505	U
Carbofuran	ug/1	< 0.9	04~30-97	EPA 531	ប
Atrazine	ug/l	< 0.1	05-05-97	EPA 505	บ
Alachlor	ug/1	< 0.2	05-05-97	EPA 505	ט
Heptachlor	ug/l	< 0.005	05-05-97	EPA 505	U



P.O. Box 1833 Tampa, Florida 33601 (813) 229-2879 Fax (813) 229-0002

> City of New Port Richey Wastewater Treatment Plant 4730 West Main Street New Port Richey, FL 34652

Attn: Dan Stentz

Report Date: May 21, 1997

Lab ID No:

12972

	Unit	Result	Analysis Date	Method	Data Qualifier
Parameter	Unit				
Heptachlor epoxide	ug/l	< 0.005	05-05-97	EPA 505	ŭ
2,4-D	ug/1	< 0.05	05-13-97	EPA 515.1	υ
2,4,5-TP (Silvex)	u <b>g/1</b>	< 0.02	05-13-97	EPA 515.1	บ
Hexachlorobenzene	ug/l	< 0.1	05-05-97	EPA 505	U
Benzo(a)pyrene	ug/l	< 0.02	05-05-97	EPA 550	U
Pentachlorophenol	ug/l	< 0.04	05-13-97	EPA 515.1	ឋ
PCBs	ug/1	< 0.1	05-05-97	EPA 505	v
Dibromochloropropane	ug/l	< 0.02	05-12-97	EPA 504	U
Ethylene dibromide	ug/l	< 0.01	05-12-97	EPA 504	ប
Chlordane	ug/1	< 0.01	05-05-97	EPA 505	U

Analysing Laboratory DRMS
Certification 8's 831)9 & M83018

Garrett McGibbon Laboratory Manager

3,97 15:41 No.005 P.08

### DHRS Certification # 84252 & E84025 DEP COMPOAP # 870251

LABORATORY SERVICES

P.O. Box 1833 Tampa, Florida 33601 (813) 229-2879 Fax (813) 229-0002

City of New Port Richey Wastwater Treatment Plant 4730 West Main Street New Port Richey, FL 34652

Attn: Dan Stentz

Field Custody:

Client/Field ID: Sample Collection:

Report Date: May 21, 1997

Client Effluent

4-28-97/0750

Lab ID No:

Lab Custody Date: Sample description:

12972

4-28-97/1000 Reclaimed Water

Parameter	Units	Res	ults	Analysis Date	Method	Data Qualifier
Gross Alpha	pCi/l	2.3	± 1.4	5-05-97	EPA 900.0	•

Alpha Stendard: Th-230

Garrett McGibbon Laboratory Manager

Month	Flow	вор	rss	LFCM
June 97	4.20	1.4	1.96	<1
July 97	4.33	1.39	1.50	<1
August 97	4.34	1.51	1,67	<1
September 97		1.01	1.58	<1
	*****			
		N 0 0	.l	
	·			
		N.P.R. W.W.T.	<i>[</i> 2]	
	M	PUERA		
	_	D. 14/	•	
	+ /.	VERA	GES	
	+			
	- 			

Month	Flow	BOD	TSS	FECAL
July	4.801	1.4	2.1	17.1
aug	5.195	1.4	1.5	6.3
Sep	4.704	1.8	2.4	11.9
Oct.	5.938.	1.5	3.1	1.4
Nev	4.662	1.5	2.3	1.4
Dec	4.353	2.0	2.3	3.6
Jan	4.602	1.9	2.9	3.5
Feb	4.661	1.5	2.6	2.7
Mar	4.729	1.1	3.1	8.6
April	4.368	1.3'	2.8	13.5
May	3.971	1.3:	3.0	28.0
June	3.911	1.7	2.9	39.7
July	4.095	1.4	2.0	17.1
aug	4,229	1.0	1.6	2.0
Sep	4.150	1.1	2.2	</td
Oct.	4.202	1.0	3,6	<1
Nev	3.88	0.7	1.9	<1
Dec.	3.87 ·	0.9	1,8	41
Jun	3.95	0.9	1.5	41
Feb	4.08	1.2	1.6	4/
Narch	4,41	1.3	2.6	<1
Ipril	4,30	1.2	1.2	<1
ney	4.11	1.2	1.8	41

Bon PB DE

pap

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

#### CONVERSATION RECORD.

Date 11 4 97 Subject W PASCO A-1 4 A-2
Time 2:30 Permit No
County DAT co
M DOJEBRANLET Telephone No. (S13) 8478145
Representing PACLO COUNTY
[ ] Phoned Me [ Was Called [ ] Scheduled Meeting [ ] Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting
CAU RETURNED BY BRUTHA
Summary of Conversation/Meeting
D.B. EXPLAINED OPTIONS &
1) Atw port Pacity IN DISCHARGE AT WWTP
(3) Coy 08 TAMPA WWTP 40,000-Those GAD
CAMBLYZING PRIORIZE POLLUTATED
3) SHARY HALLS 40,000-50000 19 PM DISWISIONW PHEB
DB Taiscosses RAM CHI COVER OVER
A-1 2 A=2 = WHEN ASKED WHY A-1 1F-DAY
10,000 GPD DB SAND A-1 15 DLUGUED SO DE FLOW &
I SUGERSTED IF LESS THAN 20,000 9 PD From A1 AMD
OFFITE AGRETANTIST THAT DONG COUR A-1 AND CORRECT FLOW
HOOL WORMAN LEARHART REMOVAL - PLUGS ANT Apprected.
DB will look AT Flow DATA From A-1 And SAM
Dtsiencoming for RAM CELL COVER
4
(continue on another Signature sheet, if necessary)
Title
DA OI
PA-01 1/96



### Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

October 29, 1997

Mr. Vince Mannella, P.E. Solid Waste Management Pasco County Utilities 7536 State Street New Port Richey, FL 34654

Re: Citizen Drop-Off Area Expansion
West Pasco Solid Waste Management Facility

Dear Mr. Mannella:

The Department has no objection to the proposed expansion of the citizen drop-off area expansion as shown on the site plans by Law Engineering received September 29, 1997. Upon completion, please provide the completed Certification of Construction Completion Form #62-701.900(2) attached and record drawings. If improvements will take longer than 120 days to complete, please advise with construction schedule. The Department appreciates the County's initiative to improve its provisions for leachate containment at this location.

On all future correspondence, please include Robert Butera on distribution. If you have any questions you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab Attachment

cc: Douglas Bramlett, Pasco County
Richard Mayer, P.E., Law Engineering
Robert Butera, P.E., FDEP Tampa

"Protect, Conserve and Manage Florida's Environment and Natural Resources"



#### Florida Department of Environmental Protection Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 6	2-701.900(2)	an ∦	61-54	Paristr	* /	1942
Form Title Cen						Cartin
Effective Date	May 19, 1994				ia,£	14
•			;		1	37
					1	**
DEP Application	n No				_	
		Filled !	by DE	P)	_	

## Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No:County:				
Name of Project:				
	-			
Cost: Estimate \$	Actual \$			
	ton/day Site Acreage: Acres			
	ation Approved by DEP:			
-	e:			
	*			
Date Site inspection is requested:_				
	ception of any deviation noted above, the construction of the tantial accordance with the plans authorized by Construction			
•				
Permit No.:	Dated:			
Date:	G' C D C C C C C C C C C C C C C C C C C			
	Signature of Professional Engineer			

Page 1 of 1

Bob B

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

#### CONVERSATION RECORD.

Date 102897	Subject W PASLO LEARLATE
Time 814 (	Permit No.
M Dovu BRAMLER	County
Representing	
[ ] Phoned Me [ Was Called	Scheduled Meeting [ ] Unscheduled Meeting
Other Individuals Involved in Conversation	on/Meeting
Summary of Conversation/Meeting	
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WEDISCUSTED HAVE	n(-
DB SAM WILL CO	St \$ 100,000 pta million Gallons to
DISPOSITAT CITYOF	TAMPA AND & PONTRICKTY WWTP 1 -
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4200,000 AM	of the dans to included Disposar no
Stupont Richty	TO CUT COSES
	TAL SO WOOD DB SAID THE
	AT . I EXPLAINCED HOUS CO HASAT
	ARANDEI SUUGESTED A RAIN COVER
	then ATE STORMWATER
DB SAMO WILL BY CON-	SIDERED BUT WANTID HAULDOW
	^
· ·	Signature
sheet, if necessary)	Title
D	

PA-01 1/96



**DADE CITY** (352) 521-4274 LAND O' LAKES (813) 996-7341 **NEW PORT RICHEY** (813) 847-8145 FAX (813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIESBLDG., S-213 7530 LITTLE ROAD **NEW PORT RICHEY, FL 34654** 



Department of E. vironmental Protection SOUTHWEST DISTRICT

BY

October 24, 1997

Mr. Pete Burkhardt **Domestic Waste Section** Florida Department of **Environmental Protection** 3804 Coconut Palm Drive Tampa, FL 33619-8318

RE:

Proposed Treatment and Disposal of Excess Ash Monofill Leachate at Regional Wastewater Treatment Plants (WWTP)

#### Dear Mr. Burkhardt:

Pursuant to your letter to Mr. Douglas S. Bramlett of October 8, 1997, the following data is submitted for your review and comment.

Pasco County's plan was to truck the ash monofill leachate to subregional WWTPs at the rate listed:

2 loads to the Wesley Chapel Subregional WWTP

1 load per day to Deer Park Subregional WWTP

1 load per day to Southeast Subregional WWTP

6/4 loads per day to New Port Richey WWTP

Your letter of October 8,1997 specifically reads, "if ground water MCL's for sodium, chloride, or TDS are exceeded in the effluent composite sample at any of the WWTPs, then hauling of leachate to that WWTP will need to be discontinued "

Please be advised that composite samples at Deer Park, Southeast, and Wesley Center WWTPs have been exceeded and hauling of leachate to those plants have been discontinued. Hauling from October 19, 1997 to October 23, 1997 is noted below:

Mr. Pete Burkhardt October 24, 1997

> October 19, 1997 - no hauling October 20 through October 23, 1997 - 186,000 gallons to the New Port Richey WWTP.

There has been numerous complaints regarding odoriferous aroma generated in the area. Leachate hauling is continuing, with Sunday, October 25, 1997, to be included in my next report.

Sincerely,

Vincent Mannella, P.E.

Solid Waste Facility Manager

#### VM/mvv

cc: Joe Amato, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Robert Butera, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Kim Ford, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator, Utilities Services

Ronald Walker, Solid Waste Superintendent

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

#### CONVERSATION RECORD

Date 10-28-97	Subject LEAGHATE IMPOUNDED BY WEST PAIC
Time 3:00 P.M.	Permit No.
	County Pasco
MR. VINTE MANCHA	Telephone No
Representing Asco CTV	
Phoned Me [ ] Was Called	d [ ] Scheduled Meeting [ ] Unscheduled Meeting
Other Individuals Involved in Conversation	on/Meeting
Summary of Conversation/Meeting	TO FORMED ME THAT THEY WORK HAVING
COLFF ONLY OND FANKE	TO CAY of NEW PORT RICHON - alt. 60,000
The 18 CO 7	THORE WERE EXPENSIVES OF PARAMETERS
HAVLING TO THESE FACE	WITH
	THAT THE COUNTY AJEST HALL /ODK-TOD'
Cui a la Day Day ASAF	- HE THOUGHT IT BETTER TO PILECT
AND DONOTE TO DAY	G Brancett AS MR. Brancett A
· · · · · · · · · · · · · · · · · · ·	
SOHD GALLAGHOR CONTRA	L ALL EXPENDITURES.
	·
	1
(continue on another	Signature Signature
sheet, if necessary)	0-1
	Title 7.6.44

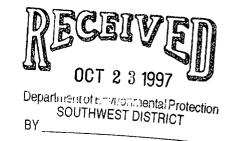
PA-01 1/96 pap



DADE CITY	(352) 521-4274
LAND O' LAKES	(813) 996-7341
<b>NEW PORT RICHEY</b>	(813) 847-8145
FAX	(813) 847-8064

October 22, 1997

Mr. Pete Burkhardt Domestic Waste Section Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318 UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-213 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654



RE:

Proposed Treatment and Disposal of Excess Ash Monofill Leachate at Regional Wastewater Treatment Plants (WWTP)

Dear Mr. Burkhardt:

Pursuant to your letter to Mr. Douglas S. Bramlett of October 8, 1997 and our subsequent telephone conversation of October 15, 1997, the following data is submitted for your review and comment.

On October 15, 1997 Pasco County started trucking the ash monofill leachate at the approximate rate of ten (10) loads per day at 6,000 gallons per load.

2 loads to the Wesley Chapel Subregional WWTP
1 load per day to Deer Park Subregional WWTP
1 load per day to Southeast Subregional WWTP
6/4 loads per day to New Port Richey WWTP

October 15, 1997 - 10 loads - 60,000 gals. October 16, 1997 - 10 loads - 60,000 gals. October 17, 1997 - 8 loads - 48,000 gals October 18, 1997 - 8 loads - 48,000 gals Total 216,000 gals.

Further, as per your letter of October 8, 1997 regarding amounts of sodium, chloride and total dissolved

Mr. Pete Burkhardt October 21, 1997

solids (TDS), from the attached environmental laboratory tests it appears that the mandated levels of these limiting parameters have been somewhat exceeded. Leachate hauling to Deer Park, Wesley Center, and Southeast Subregional WWTPs was suspended upon receipt of effluent environmental laboratory results.

After your review, please communicate with me regarding your posture on this subject. You can call me direct at (813) 856-0119.

Thank you for your cooperation in this important matter.

Sincerely,

Vincent Mannella, P.E.

Solid Waste Facility Manager

VM/mvv

cc: Joe Amato, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Robert Butera, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Kim Ford, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Bouglas S. Bramlett, Assistant County Administrator, Utilities Services

Ronald Walker, Solid Waste Superintendent



ENVIRONMENTAL LABORATORY 8864 GOVERNMENT DRIVE NEW PORT RICHEY, FL 34654 (813) 847-8902

REPORT OF ANALYSES

DEER PARK WWTP

PASCO COUNTY UTILITIES

5000 LITTLE ROAD

NEW PORT RICHEY, FL 34654-

Attn: JOHN BRIENZA

SAMPLE NUMBER- 61290 SAMPLE ID- DP CL2 EFFLUENT

DATE SAMPLED- 10/16/97 LOCATION-

DATE RECEIVED- 10/16/97 SAMPLER- DAVID GILLEO

TIME RECEIVED- 1015 DELIVERED BY- IZZY RODRIQUEZ

DATE: 10/20/97

DHRS # 44237. E44123

SAMPLE MATRIX- WW TIME SAMPLED- 0-30

RECEIVED BY- DN

Page 1 of 1

ANALYSIS

METHOD

DATE TIME BY RESULT UNITS

CHLORIDE

ANALYS IS

TOTAL DISS. SOLIDS

EPA 325.2 . 10/20/97 1100 JK

EPA160.1 10/16/97 1600 JK

325 mg/L 1180 mg/L

LABORATORY DIRECTOR



ENVIRONMENTAL LABORATORY 8864 GOVERNMENT DRIVE NEW PORT RICHEY, FL 34654 (813) 847-8902

REPORT OF ANALYSES

SEP SUBREGIONAL WWTP

6039 HANDCART ROAD ZEPHYRHILLS, FL 34249-

Attn: HAROLD BUNGARD

DATE: 10/20/97

DHRS # 44237, E44123

SAMPLE NUMBER- 61311 SAMPLE ID-SEP CL2 EFFLUENT

DATE SAMPLED- 10/16/97 LOCATION-

DATE RECEIVED- 10/16/97 SAMPLER- J LAWRENCE

TIME RECEIVED- 1300 DELIVERED BY- JIM OBRIEN

SAMPLE MATRIX- WW TIME SAMPLED- 1100

RECEIVED BY- AS

Page 1 of 1

ANALYSIS

ANALYSIS

METHOD

DATE TIME BY RESULT UNITS

CHLORIDE

TOTAL DISS.SOLIDS

EPA 325.2 10/20/97 1100 JK 630 mg/L EPA160.1 .10/16/97 1600 JK 1812 mg/L

LABORATORY DIRECTOR



ENVIRONMENTAL LABORATORY 8864 GOVERNMENT DRIVE NEW PORT RICHEY, FL 34654 (813) 847-8902

REPORT OF ANALYSES

WESLEY CENTER

WESLEY CHAPEL, FL

Attn: ATTN HAROLD BUNGARD

DATE: 10/20/97

DHRS = 44237. E44123

SAMPLE NUMBER- 61319 SAMPLE ID- WCTR CCC EFFLUENT GRAB SAMPLE MATRIX- WW

DATE SAMPLED- 10/16/97 LOCATION-

DATE RECEIVED- 10/16/97 SAMPLER- V WHEELER

TIME SAMPLED- 0925 RECEIVED BY- AS

TIME RECEIVED- 1300 DELIVERED BY- JIM OBRIEN

Page 1 of 1

ANALYSIS

ANALYSIS

METHOD DATE TIME BY RESULT UNITS

CHLORIDE

TOTAL DISS. SOLIDS

EPA 325.2 10/20/97 1100 JK 545 mg/L EPA160.1 10/16/97 1600 JK 1564 mg/L

LABORATORY DIRECTOR

Bob PDE

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

#### CONVERSATION RECORD.

Date 10/22/97 Subject Wy ASCO LAMOS Fill
Time 10155 Permit No.
County PASCO
M Once mannells Telephone No.
Representing Asia County
[ 4 Phoned Me [ ] Was Called [ ] Scheduled Meeting [ ] Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting
Summary of Conversation/Meeting
Discossen A-2 Consection Acpose!
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proposes by DBramber
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UM DISLUSION SALT BAGS & WE ACREED TO
RESTEW PARTORS DIANFOR BACK DISPOSAL AND
make chances to prevent breaking Ans To
CLEANUP PREVIOUS DISPOSAL DE, BAGS.
(continue or enother Signature
(continue on another Signature sheet, if necessary)  Title

PA-01 1/96 pap



DADE CITY
LAND O' LAKES

(352) 521-4274

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIESBLDG., S-213

NEW PORT RICHEY

(813) 996-7341 (813) 847-8145

7530 LITTLE ROAD

**FAX** 

(813) 847-8064E

NEW PORT RICHEY, FL 34654

October 20, 1997

Mr. Pete Burkhardt Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318

nepam	ient of Environmental Protection
S	OUTHWEST DISTRICT
DW.	

RE:

Disposal of Ash Leachate in Ash Monofill

Dear Mr. Mr. Burkhardt:

Pursuant to your letter to Doug Bramlett of October 8, 1997 and our telephone discussion of October 15, 1997, this communication is forwarded.

Leachate hauling commenced October 15, 1997 with two (2) - 6,000 gallon tankers making ten loads per day, six (6) days per week. The loads will be discharged at various plants as per our discussion. A detailed report will be prepared and forwarded to you after one week of operation.

Please call me direct at (813) 856-0119 if you have any questions regarding this operation as stated.

Sincerely,

Vincent Mannella, P.E.

Solid Waste Facility Manager

VM/mvv

cc: Joseph G. Amato, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Kim B. Ford, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator, Utilities Services

Harold Bungard, Utilities Operations Manager

Ronald Walker, Solid Waste Superintendent



consulting engineering construction operations Camp Dresser & McKee Inc.

1715 North Westshore Boulevard, Suite 875-20

Tampa, Florida 33607
Tel: 813 281-2900 Fax: 813 288-878

OCT 1 6 1997 rotection

Departing NOTHWEST DISTRICT

October 14, 1997

Mr. Doug Bramlett Assistant County Administrator Pasco County Division of Public Utilities 7530 Little Road New Port Richey, Florida 33553

Subject: Brine Recirculation in A-2

Dear Mr. Bramlett:

I received your fax of the DEP letter dated October 9, 1997 which denied approval of our brine recirculation proposal. I spoke with Mr. Kim Ford this morning to gain an understanding as to why the proposal was denied. Following some discussion, Mr. Ford pointed out that it was not clear to him whether the proposal he had seen was being proposed by the County and whether CDM was authorized by the County to assist in resolving the issue of excess quantities of leachate in Disposal Cell A-2. My impression from my conversation was that he could see the benefit to be gained by removing and treating 35,000 gpd in exchange for recirculating approximately 800 gpd of brine. However, a formal proposal to modify the approved plan should be submitted by the County. Mr. Ford indicated a willingness to consider such a modification.

Mr. Ford raised several other questions. Was the HELP modeling for Disposal Cell A-2 done under a recirculation operating scenario? (Your design consultant for A-2 should be able to answer that question quickly). Is the chloride input to the WWTPs already at the maximum allowed? Mr. Ford and DEP did not have sufficient information by which to evaluate this additional measure. He further stated that if Pasco County wanted CDM to assist in the resolution of this matter, the following should be done:

- 1. Pasco should fully inform CDM as to what the DEP approved plan of action is regarding the pumping and hauling of the leachate.
- 2. Pasco should send a letter to DEP stating that CDM is authorized to assist in the resolution of this matter and expressing an interest in modifying the DEP approved plan (regarding the disposition of leachate at the various WWTPs).

Mr. Doug Bramlett October 14, 1997 Page 2

Doug, CDM would be willing to assist the County in applying for a modification to your approved plan. Please call me to discuss this possibility.

Sincerely,

CAMP DRESSER & McKEE INC.

Daniel E. Strobridge

Associate

cc: John Gallagher, County Administrator
Bernard M. Telatovich, Assistant County Attorney II
Vincent Mannella, P.E., Solid Waste Facility Manager
Ron J. Walker, Solid Waste Superintendent
Ronald N. Armstrong, CDM Sr. Vice President
Doug W. Fredericks, CDM Vice President
Patricia Lee, CDM Assistant General Counsel
Kim Ford, P.E., FDEP

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

#### CONVERSATION RECORD.

Date	10/13/	<b>ش</b>	Subject	WPAsco	A-2
Time	9:35		Permit No.		
	· · ·		County	DAY	
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Representing	g	Om	•		
[4 Phor	ned Me	[ ] Was Call	led [ ] Sched	uled Meeting	Unscheduled Meeting
Other Indivi	duals Involv	ed in Conversa	tion/Meeting		
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Summary of	Conversation	on/Meeting			
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PA-01 1/96

pap



# Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

October 9, 1997

Mr. Douglas Bramlett Pasco County Utilities 7530 Little Road New Port Richey, FL 34654

> Re: Proposal to Recirculate Brine West Pasco Landfill, Pasco County

Dear Mr. Bramlett:

The proposal by CDM to recirculate brine into A-2 dated October 7, 1997 which you faxed on October 8, 1997 is **not approved**. If you wish to discuss this matter, you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section

Division of Waste Management

KBF/ab

cc: Vince Mannella, P.E., Pasco County Robert Butera, P.E., FDEP Tampa DOUGLAS S. BRAMLETT
ASSISTANT COUNTY ADMINISTRATOR
UTILITIES SERVICES BRANCH
PUB. WKS /UTILITIES BLDG., S-213
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

TEL. NO. (813) 847 8145 FAX NO. (813) 847-8064

fax	
to:	Kim Ford, FDEP
fax #:	813-744-6084
from:	Douglas S. Bramlett
date:	October 8, 1997
subject:	CDM Letter attached
pages:	3 (incl. cover)
OTES:	Please call me to discuss this proposal.
	•



### Camp Dresser & McKee Inc.



1715 North Westshore Boulevard, Suite 875 Tampa, Florida 33607 Tel: 813 281-2900 Fax: 813 288-8787

October 7, 1997

Mr. Doug Bramlett
Assistant County Administrator
Pasco County Division of Public Utilities
7530 Little Road
New Port Richey, Florida 33553

Dear Dong:

As Mike Spann and I discussed with Vincent Mannella on October 1, 1997, we believe that the issue relative to the leachate quantity in Disposal Unit A-2 can be minimized by operating the brine concentrator at 100% capacity and recirculating, back into the A-2 cell, that portion of the concentrated brine that the spray dryer currently cannot process. Doing so will have a minimal effect on the quality of the leachate in A-2 (over the first 100 days or so) and will allow Pasco County to significantly reduce leachate quantities in the storage tank and A-2. The basis for our recommendation and conclusions follow:

Leachate Quantity in A-2:

approx. 4,500,000 gallons

Brine Quantity at Design Capacity:

2.4 gpm

Spray Dryer Capacity at present:

1.8 gpm

Brine requiring recirculation

2.4 g.p.m.-1.8 g.p.m.= 0.6 g.p.m.

Daily Brine recirculation required

0.6 gpm x 60 min/hr. x 24 hr/day =864 gpd

Concentrated brine TDS is approx. 324,000 mg/l

Leachate TDS is approximately 32,000 mg/l (although values ranging from 6,000 to over 78,000 mg/l have been observed).

Adding 864 gpd of 324,000 mg/l TDS brine to 4,500,000 gallons of 32,000 mg/l leachate would change leachate TDS concentration as follows:

Brine as Percent of Total Leachate in A-2: 864 gallon brine/4,500,864 gallons brine and leachate =0.000192 x 100% = 0.0192%.

New leachate TDS concentration following addition of brine:

.000192 x 324,000 mg/l =62.2 mg/l TDS + 000808 x 32,000 mg/l = 31,994 mg/l TDS leachate concentration = 32,056 mg/l TDS

SHPASCOPCST#1.41

OCT 07 197 04:05PH CDM - .- MPA

### COM Camp Dresser & McKee Inc.

Mr. Doug Bramlett October 7, 1997 Page 2

Processing leachate at the rate of 35,000 gallons per day will require 57 days to drain the leachate storage tank assuming no additional rainfall or filling of the tank. Extending the above calculation and considering the increase in TDS each day in A-2, the TDS in day 57 would be about 35,123 mg/l or about the average of TDS values observed during the feasibility study phase of this project. These calculations assume no additional rainfall over this period. Additional rainfall would result in lower TDS due to dilution.

To totally drain A-2 at a processing rate of 35,000 gpd, 128 days are required (assuming no additional rainfall). We estimate the TDS in A-2 leachate at the end of this period to be hetween 39,000 and 44,000 mg/l. This value is higher than the design value, and would have some effect on the brine concentrator processing capacity. However, measures can be taken such as mixing stormwater or reclaimed water with the leachate to dilute the TDS concentration. RCC has reviewed these TDS estimates and supports this recommendation as an interim measure until the Niro equipment can be brought up to capacity. We encourage Pasco County to pursue this interim operations approach. If FDEP does not grant a variance to allow recirculation of the brine back to the A-2 cell, we would encourage the County to recirculate it back to the storage tank and pump as much water as possible from A-2 into the storage tank to maintain a reasonable TDS concentration there.

CDM, as always, is very willing to discuss this approach further with you and/or FDEP representatives. I am available to meet with you at your earliest convenience.

Sincerely,

CAMP DRESSER & MCKEE INC.

Daniel E. Strobridge

Associate

cc: J. Gallagher, County Administrator

B. Telatovich, Assistant County Attorney

V. Mannella, P. E., Solid Waste Facility Manager

R. Armstrong, CDM

1) Fredericks, CDM

P. Lee, CDM

M. Spann, RCC

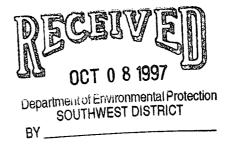


### Camp Dresser & McKee Inc.

consulting engineering construction operations 1715 North Westshore Boulevard, Suite 875 Tampa, Florida 33607 Tel: 813 281-2900 Fax: 813 288-8787 Landiversary

October 6, 1997

Mr. John J. Gallagher County Administrator Pasco County 7530 Little Road New Port Richey, Florida 33553



Subject: Leachate Management Plant (LMP) and Conditions at Disposal Unit A-2

Dear Mr. Gallagher:

Camp Dresser & McKee Inc. (CDM) has received Pasco County's letter dated September 26, 1997, signed by Mr. Vincent Mannella, P.E. regarding Disposal Unit A-2. As you are aware, CDM's role in the Leachate Management Plant project included preparation of feasibility studies, assistance with procurement of the process system vendor (Resources Conservation Company/Ionics), permitting assistance, civil/site design and limited engineering services during construction of the CDM designed portion of the project. CDM was not responsible for the design or construction of the process equipment which is experiencing treatment capacity limitations. The process equipment was specified and procured from Niro by Resources Conservation Company (RCC). It is CDM's understanding that the Niro baghouse equipment, as sized and supplied, does not meet the RCC specifications, and discussions between RCC and Niro are ongoing toward providing a solution to this issue.

Please note that on September 23 and October 1, 1997, RCC and CDM staff met with Pasco County's Vince Mannella to discuss the LMP capacity issues. At the September 23 meeting, a consensus was reached regarding the key LMP capacity limiting issues and RCC proceeded to work at resolving them. At the October 1 meeting, RCC and CDM discussed several ideas on how to solve the problem of excess water in disposal unit A-2. The approach discussed used the available equipment in the LMP to achieve an approximate 25:1 reduction in leachate volume, but would require recirculating a limited quantity of brine back to the storage tank or Disposal Unit A-2. CDM, however, has been informed that the County does not wish to pursue this fix.

CDM, as always, is very willing to sit down with you and other County staff to discuss these issues and hopefully reach some resolution before any DEP enforcement action takes place.

Mr. John J. Gallagher October 6, 1997 Page 2

I am available to meet with you at your earliest convenience. Please call me to establish such a meeting.

Sincerely,

CAMP DRESSER & McKEE INC.

Daniel E. Strobridge

Associate

cc: Doug S. Bramlett, Assistant County Administrator
Bernard M. Telatovich, Assistant County Attorney II
Vincent Mannella, P.E., Solid Waste Facility Manager
Ron J. Walker, Solid Waste Superintendent
Ronald N. Armstrong, CDM Sr. Vice President
Doug W. Fredericks, CDM Vice President
Patricia Lee, CDM Assistant General Counsel
Robert Butera, P.E., FDEP



### Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

October 8, 1997 Pasco County

Mr. Douglas Bramlett, Assistant County Administrator, Pasco County Utilities Services Public Works/Utilities Bld.,S-205 7530 Little Road New Port Richey, FL 34654

RE: Your October 6, 1997 proposed treatment and disposal of excess ash monofill leachate at regional WWTPs.

Dear Mr. Bramlett:

The Department has reviewed your proposed distribution schedule to alleviate excess leachate from Ash Cell II by transporting this leachate, via truck, to area wastewater treatment plants (WWTPs) for treatment and disposal.

This proposal for a temporary, 30 day remedy, is acceptable with the following provisos:

With the exception of New Port Richey WWTP (which has a marine discharge), the effluent of the various WWTPs that are treating this leachate must not exceed the ground water maximum contaminant level (MCL) for Sodium, Chloride and Total Dissolved Solids (TDS) prior to land application.

Sodium, Chloride and TDS effluent concentrations can be determined by evaluating the WWTPs routine composite samples for these additional parameters. If the ground water MCLs for Sodium, Chloride or TDS are exceeded in the effluent composite sample at any of the WWTPs, then hauling of leachate to that WWTP will need to be discontinued. Please submit these results to the Department weekly.

Due to the ongoing Chapter 120 Administrative Case involving Embassy Hills WWTP, use of this WWTP for the treatment and disposal of leachate, cannot be approved at this time.

Mr. Douglas Bramlett October 8, 1997 Page 2

The ground water MCLs are: Sodium 160 mg/l, Chloride 250 mg/l, and TDS 500 mg/l.

If you have any questions please contact me at (813)744-6100, extension 311.

Sincerely

Pete Burghardt

Environmental Specialist II Domestic Wastewater Section

cc: Kim Ford, Waste Management J.A. Amato, Domestic Wastewater



# Department of Environmental Protection

Lawton Chiles
Governor



Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

### SITE INSPECTION REPORT

NAME OF SITE: WPASCO LE DATE: 10 399
SITE ADDRESS/LOCATION: + HAYS ROAD
CITY: Springet PERMIT #:
REASON FOR VISIT:
COMPLIANCE INSPECTION
PERMITTING INSPECTION
COMPLAINT INVESTIGATION
PERSONS PRESENT: STEDEMONLAN EN FORS,
SUMMARY REPORT
SUMMARY REPORT:
OBSERVED LENENATE IN A-2, 3-5 DEEP
SACT BAGE BROLLIN IN WEST END
1 MSW PEMOVES From SW-
(3) MART TRACK TOIS POSED IN BORREW PUT NORTH OF-
WT SITE AMORTHER POW 15'x20'x200'
LOCATE EAST OF WY SIRE , ANOTHER PILE
DORIGH OF CLASSIF - County SAY THEY HAVE NO
THAM TO GET PUD OF THE YARD THOU
THE STATE THE STATE OF THE STAT
VIOLATIONS NOTED: DISPOSAL OF UNAS PROS / MUTCH-/ ASH
GREATEN THAN LEACHATE IN A-2
DEP REPRESENTATIVE:

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

BEGINNING TUESDAY, OCTOBER 7, 1997, WE WILL DELIVER LEACHATE TO THE FOLLOWING WASTEWATER TREATMENT PLANTS:

NPR WWTP

70,000 GPD

XEMBASSY HILLS

X14,000 GPD

DEER PARK

7,000 GPD

**WESLEY CENTER** 

12,000 GPD

**SOUTHEAST** 

6.000 GPD

TOTAL

109,000 GPD

- WE NEED FDEP'S APPROVAL
- WE WILL CONTINUE THIS FOR APPROXIMATELY 30 DAYS

Post-it Fax Note 7671 Data 10 6 # of pages / From Drug Brandell College. F. D. E. P. Co. P. C. D. S. B. Phone # 847-8145



### PASCO COUNTY, FLORIDA

DADE CITY LAND O' LAKES **NEW PORT RICHEY** FAX

(352)521-4(813) 996-734

TILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-213

(813) 847-8064partment of Environmental Protection O LITTLE ROAD SOUTHWEST DISTRICT NEW PORT RICHEY, FL 34654

BY \_

September 30, 1997

Richard Garrity, P.E., Director of Southwest Florida Water Management District Dept. of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-3818

RE: Emergency Detonation Thermal Treatment of

Certain Hazardous Waste (62-763.320, FAC)

Dear Mr. Garrity:

Thank you for your letter of September 18, 1997, regarding the above-referenced subject. The enclosed plat plan shows the secured area as indicated in 62-730.320(1)(e) (distances of 670 feet 1,250 feet, 1,730 feet, and 2,260 feet). The area indicated has no solid waste nor production of methane gas.

Detention Pond No. 1 has never retained or shown any evidence of water retention. The designated area has prohibited access to the general public and has since this West Pasco area was originally opened. Solid Waste personnel have full access and control of the area. I believe this should be considered as a safe and acceptable area.

Sincerely

Solid Waste Facility Manager

VM/ltr/g092602

Enclosure

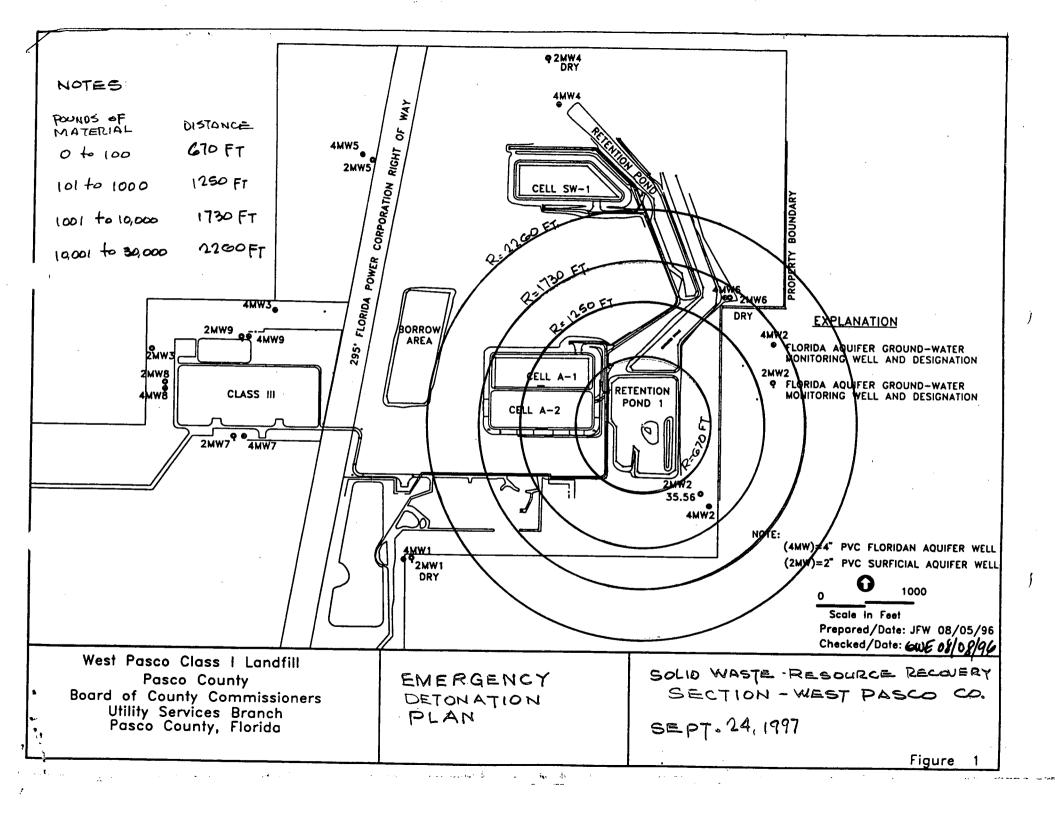
Robert Butera, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-88318

Kim Ford, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

Ronald J. Walker, Solid Waste Superintendent





## PASCO COUNTY, FLORIDA

DADE CITY (904) 521-4274 LAND O' LAKES (813) 996-7341 NEW PORT RICHEY (813) 847-8145 FAX (813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIESBLDG., S-213 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

September 29, 1997

Mr. Kim Ford, P.E.Florida Department of Environmental Protection3804 Coconut Palm Drive Tampa, FL 33619-8318

RE: Chloride Disposition from Leachate Management Plant (LMP)

Dear Mr. Ford:

This letter is in response to our telephone conversation of September 26, 1997 regarding the filling and placement of super sacks of chlorides. The chloride bags are being placed in the A-2 Disposal Unit along the west side of the disposal unit. The super sacks of chlorides will be placed on a layer of earth (dirt), with the bags progressing in a northerly direction. The super sacks will have dirt (earth) placed between them and a cover layer of earth will be placed on the top of the super sacks of chlorides prior to the placement of the second row. We will then proceed to place a second row of super sacks on top of the first.

This procedure has been previously approved by the Department. This communication is to recertify that we are both in agreement of placement of super sack of chlorides.

The very unusual storm event on the week-end of September 27, 1997 brings to mind the possibility of a major storm and the heavy load of potential incoming storm debris. To this event I am planning to store tire chips in disposal unit SW-1 to assure that I will have on hand sufficient cover for the stored material in SW-1. The stored tire chips will provide cover from either storm and or municipal solid waste by-pass due to the Resource Recovery Plant boiler outages.

I trust that the Department will understand my desire to prepare for possible heavy loads of incoming municipal solid waste.

Mr. Kim Ford, P.E. September 29, 1997

Please advise me at your earliest possible convenience. If, however, I do not receive word from the Department to the contrary by October 5, 1997, I will assume the Department entertains no objections to my suggestion.

Sincerely,

Vincent Mannella, P. .

Solid Waste Facility Manager

VM/mvv

cc: Robert Butera, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

Ronald Walker, Solid Waste Superintendent



#### Department or a Visit to Protection QUTHWEST DISTRICT PASCO COUNT

DADE CITY LAND O' LAKES **NEW PORT RICHEY FAX** 

(352) 521-4274 (813) 996-7341 (813) 847-8145

(813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-213 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

September 29, 1997

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

<u>ABNORMAL EVENT NOTICE</u>

RE:

Pasco County - Unusual Weather Occurrence

Dear Mr. Ford:

This communication is directed due to our telephone discussion this morning regarding the unusual weather occurrence over the last four days.

On September 25, 26, 27, and 28, Pasco County as Disposal Unit A-2 has recorded 5.9 inches of rain. The A-2 disposal unit has some considerable amount of water ponded.

The secondary liner is currently showing no signs of stress; there is no noticeable increase in leakage. This is being monitored daily. Disposal Unit A-1 has been completely covered and most of the unusual rain was surface run-off and was properly handled by retention pond and swales. The little percolation in Disposal Unit A-1 is being handled by the Leachate Management Plant (LMP).

Please be further advised that the LMP is processing about 12,000 to 15,000 gpd, which pumping of A-1 keeps the 2 million gallon leachate holding tank full.

This I believe covers matters as per our discussion this morning. I am reporting this information via letter as per your suggestion.

Sincerely.

Vincent Mannella, P.E.

Solid Waste Facility Manager

VM/mvv

Mr. Robert Butera, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, cc: Tampa, FL 33619

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator, Utilities Services

Ronald Walker, Solid Waste Superintendent

Leachate Management Plant Operators





### PASCO COUNTY, FLORIDA

DADE CITY LAND O' LAKES NEW PORT RICHEY FAX

(352) 521-4274 (813) 996-7341

(813) 847-8145

(813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-213 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

CERTIFIED MAIL NO. P 306 260 103 RETURN RECEIPT REQUESTED

September 26, 1997

Mr. Mike Spann Resources Conservation Company 3006 Northup Way Bellevue, WA 98004

Dear Mr. Spann:

Please be advised that Pasco County has a serious environmental violation in Disposal Unit A-2. Florida Administrative Code Section 62-701.400(c) reads, "A primary leachate collection and removal system lying above the upper geomembrane designed to limit the leachate head to 1.0-foot above the liner during routine landfill operations after placement of initial cover, except in sumps and leachate collection trenches". Disposal Unit A-2 is in violation of this rule, and immediate enforcement action is anticipated by the Florida Department of Environmental Protection (FDEP). The Department's Operational Permit was issued to Pasco County to whom the enforcement penalty will be directed. Please be advised that Pasco County will look to you for reimbursement of any penalties.

To date, the Leachate Management Plant (LMP) has processed from the two-million-gallon Crom tank, 1,139,000 gallons from May 6, 1997. If the LMP had been properly designed and built, the LMP should have processed 4,970,000 gallons or completed processing of 2.5 tanks of leachate.

Pasco County may have 30 days to bring Disposal Unit A-2 into compliance before enforcement by the FDEP takes place.

I am recommending a meeting of all parties concerned with the design and construction of the LMP in the immediate near future to discuss this matter in more detail. Please telephone me directly at (813) 856-0019 for a suggested time and place for this discussion.

Sincerely,

Vincent Mannella, P.E.

Solid Waste Facility Manager

VM/ltr/g092601

cc:

Robert Butera, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

Bernard M. Telatovich, Assistant County Attorney II

Ronald J. Walker, Solid Waste Superintendent





**UTILITIES SERVICES BRANCH** 

NEW PORT RICHEY, FL 34654

7530 LITTLE ROAD

PUB. WKS./UTILITIES BLDG., S-213



### PASCO COUNTY, FLORIDA

DADE CITY LAND O' LAKES NEW PORT RICHEY FAX

(352) 521-4274 (813) 996-7341 (813) 847-8145

(813) 847-8064

CERTIFIED MAIL NO. P 306 260 102 RETURN RECEIPT REQUESTED

September 26, 1997

Mr. Don Strombridge Camp Dresser & McKee Inc. Westshore Center 1715 N. Westshore Blvd., S-875 Tampa, FL 33607

Dear Mr. Strombridge:

Please be advised that Pasco County has a serious environmental violation in Disposal Unit A-2. Florida Administrative Code Section 62-701.400(c) reads, "A primary leachate collection and removal system lying above the upper geomembrane designed to limit the leachate head to 1.0-foot above the liner during routine landfill operations after placement of initial cover, except in sumps and leachate collection trenches". Disposal Unit A-2 is in violation of this rule, and immediate enforcement action is anticipated by the Florida Department of Environmental Protection (FDEP). The Department's Operational Permit was issued to Pasco County to whom the enforcement penalty will be directed. Please be advised that Pasco County will look to you for reimbursement of any penalties.

To date, the Leachate Management Plant (LMP) has processed from the two-million-gallon Crom tank, 1,139,000 gallons from May 6, 1997. If the LMP had been properly designed and built, the LMP should have processed 4,970,000 gallons or completed processing of 2.5 tanks of leachate.

Pasco County may have 30 days to bring Disposal Unit A-2 into compliance before enforcement by the FDEP takes place.

I am recommending a meeting of all parties concerned with the design and construction of the LMP in the immediate near future to discuss this matter in more detail. Please telephone me directly at (813) 856-0019 for a suggested time and place for this discussion.

Sincerely,

∕incent Mannella, P.E.

Solid Waste Facility Manager

VM/ltr/g092601

cc: Robert Butera, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

Bernard M. Telatovich, Assistant County Attorney II

Ronald J. Walker, Solid Waste Superintendent



# Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

September 29, 1997

Mr. Douglas Bramlett, Assistant County Administrator Pasco County Utilities Services 7530 Little Road, S-104 New Port Richey, FL 34654

RE:

Financial Assurance Cost Estimates

West Pasco Class I Landfill, PA 87-23, GMS #4051M30035, Pasco County

Cells A1 & A2, and SW-1

Dear Mr. Bramlett:

This letter is to acknowledge receipt of the inflation-adjusted cost estimates, dated August 28, 1997, for closure and long-term care of the West Pasco Class I Landfill, Cells SW-1, A-1 and A-2. The following cost estimates, dated August 28, 1997, are <u>APPROVED</u> for 1997:

SW-1	# Acres	<u>Closure, \$</u>	<u>Long-Term Care, \$/yr</u>	<u>Total LTC, \$</u>
	10	\$753,103.74	\$112,463.16	\$3,373,894.80
A-1, A-2	20	\$1,041,523.02	\$136,382.16	\$4,091,464.80

The next annual update (revised or inflation-adjusted estimates) is due no later than <u>September 1, 1998</u>.

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 FAC 62-701.630. If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,

Susan J. Pelz, P.E. Solid Waste Section Southwest District

sjp cc:

Robert J. Sigmond, Pasco County, 7536 State St., New Port Richey, FL 34654 Vincent Mannella, P.E., Pasco County, 14230 Hays Road, Spring Hill, FL 34610 Fred Wick, FDEP, Tallahassee, w/attachment Robert Butera, P.E., FDEP Tampa Kim Ford, P.E., FDEP Tampa



SEP 2 6 1997

PATIONS AND CURRENT SE DEPARTMENT **UTILITIES OPERATIONS AND** 

DADE CITY LAND O' LAKES **NEW PORT RICHEY** FAX

(813) 847-8064

(813) 996-7341 SOUTHWEST DISTRICT PUB. WKS./UTILITIES BLDG., S-205

NEW PORT RICHEY, FL 34654

September 24, 1997

Mr. Kim Ford, P.E. Florida Department of **Environmental Protection** 3804 Coconut Palm Drive Tampa, FL 33619-8318

RE: Pasco County - Various Subjects

Dear Mr. Ford:

Please consider this communication as an informational letter. I will update the Florida Department of Environmental Protection (FDEP) on items for general informational purposes and keep the lines of communication between Pasco County, Solid Waste and Resource Recovery Section, and the FDEP open.

- The municipal solid waste that was stored in Solid Waste Disposal Unit No. SW-1 has been moved to the Resource Recovery Plant. The SW-1 Unit has been cleaned, ashbase cleaned, and may now be considered as being empty.
- On September 2, 1997, the Leachate Management Plant (LMP) has been put on line with 24-hour operation. The LMP may now be considered "fully operational". The plant was substantially complete in May 1997.
- The two-million-gallon Crom tank is full and handling leachate from Disposal Unit No. A-2.
- Disposal Unit No. A-1 has been covered and seeded. All water on Disposal Unit No. A-1 is considered surface water run-off.
- Please be advised that Disposal Unit No. A-2 has standing water somewhat above the liner's 1.0-foot rule. The Solid Waste and Resource Recovery Section could not, in good conscience, send leachate over to the Shady Hills Wastewater Treatment Plant (WWTP) where currently exists some minor groundwater problems. I am, however, monitoring the secondary liner for leakage. The secondary liner has shown no significant increase in volume.

I believe this letter brings you up to date regarding these matters.

Sincerely.

Solid Waste Facility Manager

VM/ltr/g092201

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

Ronald J. Walker, Solid Waste Superintendent

Ray Boerstler, Plant Operator

Bon LD

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

### CONVERSATION RECORD.

Date 9 25 93	Subject WPMLO					
Time	Permit No.					
•	County Drice					
M Vinci-mameria	Telephone No. (813) 856019					
Representing TMS CO	Count					
Phoned Me [] Was Called	[ ] Scheduled Meeting [ ] Unscheduled Meeting					
Other Individuals Involved in Conversation/M						
Summary of Conversation/Meeting						
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OTHER COW Spots						
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PA-01 1/96

pap



### PASCO COUNTY, FLORIDA

DADE CITY
LAND O' LAKES
NEW PORT DICHEY

(904) 521-4274

(813) 996-7341

NEW PORT RICHEY

(813) 847-8145

**FAX** 

(813) 847-8064

D.E.P

SEP 2 9 1997

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-213 7530 LITTLE ROAD

**NEW PORT RICHEY, FL 34654** 

September 22, 1997

TAMPA

Mr. Kim Ford, P.E. Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318

RE:

Citizen Drop-Off Area Expansion

Dear Mr. Ford:

Enclosed herewith please find plans and specifications for the above-referenced project. As per our previous discussion, the enclosed plans are sent as per your request.

Sincerely,

incent Mannella, P.E.

Solid Waste Facility Manager

VM/mvv

**Enclosure** 

cc: Robert Butera, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

Richard E. Mayer, P.E., Law Environmental, Inc., 4919 W. Laurel Street, Tampa, FL 33607 John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

Ronald Walker, Solid Waste Superintendent



## Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

CERTIFIED MAIL RETURN RECEIPT

SEP 1 8 1997

Mr. Vincent Mannella, P.E. Solid Waste Manager Pasco County Utilities 7536 State Street New Port Richey, FL 34654

Re: Emergency Detonation or Thermal Treatment of Certain Hazardous Waste, 62-730.320 FAC (enclosed)

Dear Mr. Mannella, P.E.:

The purpose of this letter is to encourage active coordination between the Solid Waste Operation at landfills (where treatment of the referenced materials occur), and the persons (Fire Department, Bomb Squad, etc.) responsible for the safe detonation of explosives and this Department.

It has been brought to my attention by Waste Management staff that the referenced treatment may be occurring at some solid waste landfills permitted by this Department. The Department is concerned that the referenced treatment may be occurring at locations in the landfill which may be in close proximity to methane gases escaping from passive vents and/or flares at actively vented landfills. Two recent explosions occurring at leachate sumps at solid waste landfills resulted in injury to personnel. These explosions occurred at pump stations where leachate was being removed from the sumps and the methane gases contained within the pump station were exposed to an ignition source. In addition the Department is concerned with landfill fires, possible damage to HDPE liners utilized in closures and depressions in intermediate cover exposing waste.

The Department requests that the responsible solid waste operation submit (within 90 days of receipt of this letter) a scale site plan of the facility identifying the specific location where the referenced treatment will occur. You are requested to include sites where detonations occur on properties adjacent to solid waste landfills. If no detonations occur at your facility please respond accordingly. The site plan should include the locations of flares, passive vents, leachate sumps, all occupied buildings on site, and their respective distances from the location of these detonations.

Mr. Vincent Mannella, P.E. Pasco County Utilities

The Department's Solid Waste and Hazardous Waste Sections will review these submittals and respond to the Solid Waste Permittee as to the approved locations for that particular facility. The Solid Waste Section should be contacted for authorization for all further modifications to the gas vent, building, and sump relocations.

In accordance with 62-730.320(1) "Certain hazardous wastes, due to their origin, age, and storage conditions have become a hazard to their surroundings. Because of the flammable, shock sensitive and explosive nature of the wastes, there is an immediate danger and imminent hazard to persons and property in the surrounding area. Therefore an authorization is granted for the emergency detonation or treatment of reactive hazardous wastes, as defined in FAC Chapter 62-730." The Department requests that all authorizations be requested in accordance with 62-730.320(1)(a) which states "The person having custody of the waste contacts the Department and obtains oral or written permission prior to the detonation or treatment."

The authorized person for detonating the waste such as the Fire Department, Bomb Squad, etc. should coordinate with the solid waste operation to assure all further detonations will occur at the Department approved locations. The Department requests your cooperation on this matter and thanks you in advance for protecting the environment and providing a safe area within the landfill. If you have any questions concerning this letter you may contact Bob Butera in the Solid Waste Section at 813-744-6100, Ext. 451 or William Crawford in the Hazardous Waste Section at 813-744-6100, Ext. 372.

Sincerely,

Richard D. Garrity. Ph.D.

Director of District Management

Southwest District

#### Attachment

CC: Robert Butera, P.E., FDEP
William Crawford, FDEP
Mr. Douglas Bramlett, Pasco County
Dep. Ken Garrison, Hillsborough County Sheriff's Dept.
Det. Paul W. Rockhill, City of Tampa Bomb Squad
Kim Ford, P.E., FDEP
Allison Amram, P.G., FDEP
Daneille Nichols, FDEP



## PASCO COUNTE, FLORIDA

JUN 2 3 1997

### DFD

DADE CITY LAND O' LAKES NEW PORT RICHEY (904) 521-4274 (813) 996-7341 (813) 847-8145

(813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-213 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

June 18, 1997

**FAX** 

Mr. Robert Butera Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619

**RE:** Mercury Containing Devices

Dear Mr. Butera:

Thank you for your letter of June 10, 1997 regarding mercury containing devices in the municipal solid waste stream. Pasco County Solid Waste Attendants have been advised for some time to be on the look out for such devices and Pasco County has at the citizen drop-off areas, as well as other areas, posted signs of notification that mercury containing devices shall be segregated from the waste streams and are illegal.

Pasco County has been aware of this situation and pursues its proper segregation judiciously. We are grateful for your reminder.

Sincerely,

Vincent Mannella, P.E.

Solid Waste Facility Manager

VM/mvv

cc: John J. Gallagher, County Administrator

Douglas s. Bramlett, Assistant County Administrator, Utilities Services

Ronald Walker, Solid Waste Superintendent

Solid Waste Attendants



DADE CITY LAND O' LAKES (352) 521-4274 (813) 996-7341

NEW PORT RICHEY FAX

(813) 847-8145 (813) 847-8064

RES OPERATIONS AND NEW FUB WKS./UTILITIES BLDG., S-205

NEW PORT RICHEY, FL 34654

June 10, 1997



Mr. Kim Ford, P.E. Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318

Leachate Management Plant Operation Permit No. SC-51-277316 - Pasco County Waste Tire Processing Area, Permit No. WT51-284934 -Pasco County

Dear Mr. Ford:

Regarding our telephone conversation this morning, the following update on conditions is sent per your suggestion:

- · Pasco County has closed the flow valves from Ash Disposal Units A-1 and A-2 for a period somewhat longer than the two weeks originally anticipated.
- Fortunately, we have had little to no rain in this area until June 9, 1997, which amounted to 0.3 inch. Small ponding is showing in Disposal Unit A-2.
- Today, June 10, 1997, valves to the two-million-gallon Crom tank will be open and pumping to the storage tank will commence.
- · We are reluctant to send the leachate to the Shady Hills Wastewater The WWTP does not treat the leachate and may Treatment Plant (WWTP). result in groundwater contamination with chloride ions.
- · The Leachate Management Plant has experienced some general start-up problems, all minor, but problems. Plant production of chloride powder and distillate will be regular and in full operation in the immediate near future.

- Leachate capacity at the Crom tank, we believe, to be 31 feet. Present level in the tank is 24 feet. Anticipated volume is about 5,425,000 gallons. Pumping to the Leachate Storage Tank has started today.
- Hopefully, the leachate processing will now continue unabated in production of both distillate and chlorides.
- The Shady Hills WWTP is about to begin or has begun ground monitoring testing.
- Pasco County will stockpile tire chips in SW-1 for possible future diversion of MSW, if the FDEP has no objections.
- Tire chip disposition may include cover on MSW in SW-1 in excess of six inches; cover may exceed 1'-0 or more.
- Pasco County wishes to advise the Department that diversion of MSW to Disposal Unit SW-1 may or may not become necessary, but anticipates the Department will not object to an abundance of cover in Disposal Unit SW-1 should diversion become necessary.

I hope and believe that the foregoing updates existing conditions as they relate to the Leachate Management Facility and Disposal Units A-1, A-2, and SW-1. Disposal Unit A-1 is now approximately covered with the required dirt to approximately 85 to 90 percent of the surface area and will soon be seeded.

I trust that this letter covers all of our points of discussion today. We appreciate your environmental concerns and are pleased to work them out with the Department/you.

Sincerely,

Vincent Mannella, P.E.

Solid Waste Facility Manager

VM/s061105:1tr

cc: Robert Butera, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

Ronald J. Walker, Solid Waste Superintendent



### Department of **Environmental Protection**

Lawton Chiles Governor

Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

JUN 1 0 1997

Mr. Douglas Bramlett Pasco County Public Works 7536 State Road New Port Richey, FL 34654

Mercury Containing Devices To Be Removed From The

Waste Stream

Pasco County Resource Recovery Facility

Dear Mr. Bramlett:

As you are aware there has been a number of special wastes that have been identified by the Department recently that are required to be removed from the solid waste stream and handled appropriately. Enclosed are copies of photographs (3 sheets) I received from Jack Price of the FDEP Grant's Program that I thought would assist you and your personnel (particularly spotters employed at the working face of the landfill) in identifying some devices that contain mercury. few of these items such as a marine bilge bump float switch, unusually configured socket type fluorescent lamps, and welding units may not have been obvious to personnel performing the duties required of a spotter.

The Department thanks you in advance for continued protection of the environment. If you have any questions concerning this letter do not hesitate to contact me at 813-744-6100, Ext. 451.

Sincerely,

Solid Waste Manager

Southwest District

Encl.

cc: Danielle Nichols, FDEP C/E



### PASCO COUNTY, FLORIDA

DADE CITY LAND O' LAKES NEW PORT RICHEY FAX (352) 521-4274 (813) 996-7341

(813) 847-8145 (813) 847-8064 Bor It

UTILITIES OPERATIONS AND
MAINTENANCE DEPARTMENT
PUB. WKS./UTILITIES BLDG., S-205
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

May 22, 1997

RECEIVED MAY 27 1997

Mr. Kim Ford, P.E. Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318

RE: Permit No. SC51-277316 - Leachate Management Facility

Dear Mr. Ford:

Pursuant to our meeting today at the East Pasco Sanitary Landfill, which had no violations, I advised you we were experiencing the aroma of hydrogen sulfide (H<sub>2</sub>S) from the brine concentrator (BC) feed tank. The area was, and is, currently being tested for H<sub>2</sub>S concentration, and readings are being recorded hourly. Currently, the H<sub>2</sub>S readings are ranging from 0 ppm to a high of 4 ppm, which levels are below the OSHA eight-hour exposure limit of 10 ppm. However, Pasco County has serious concerns for the welfare of our employees and has started a complete monitoring/recording program.

The solutions on this problem have been discussed and are as follows:

- 1. Cover the BC feed tank.
- 2. Provide a hood with a piped vent to and through the roof.
- 3. The hood and piped vent should have an induced draft fan of both high velocity/high volume to remove all of the air over the BC tank and surrounding area.
- 4. An audible alarm to warn all plant personnel should the  ${\rm H_2S}$  level ever exceed the OSHA 10 ppm limit.

To date, no permanent solution has been determined. I will advise the Department of our decision on what will be determined. I do not perceive a permit violation on this matter after studying Permit No. SC-51.277316, General Condition No. 5, "... no harm or injury to human health or welfare...." This has not happened nor will we permit it to happen.

General Condition No. 6 authorizes operation of back-up or auxiliary facilities or similar systems to achieve compliance with permit condition.  $\rm H_2S$  is not a limiting permit condition to be monitored. Pasco County feels monitoring of  $\rm H_2S$  generated in the Leachate Management Facility is of concern and shall be monitored.

I will keep the Department advised of any and all developments on this problem until such time as a complete resolution of the  $\rm H_2S$  problem is resolved.

Sincerely,

Vincent Mannella, P.E.

M. Vitorino for

Solid Waste Facility Manager

VM/s052302:1tr

Attachments

cc: Bob Butera, P.E., Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

John J. Gallagher, County Administrator

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

Ronald J. Walker, Solid Waste Superintendent

Plant Operators



RCC Resources Conservation Company

3006 Northup Way Hellevile, WA 98004-1407 Phone: 206 Fax: 206 82

Pasco County, Florida Public Works Utilities Complex 7530 Little Road, #205 New Port Richey, FL 34654 MOTICE: 5.31.97

ALL PLANT OPERATORS

READ & SIGN OFF- CARE

AND CAUTION IS REQUIRED

ON YOUR PART BE SAFE!

Umes

Attention:

Vince Mannella

Subject:

Hydrogen Sulfide - Safety Requirements

RCC Job 615

Dear Vince:

Attached is a copy of a memo-report issued by Dale Owen, RCC Safety Officer on the problem of hydrogen sulfide ( $H_2S$ ) emissions from the BC feed tank. Although Dale's instructions are directed to RCC personnel, we recommend that these safety measures and precautions be considered and applied for all personnel on site.

The monitoring and "breathing space" maintenance specified might appear to you to be excessive, but our exposure to H<sub>2</sub>S at RCC installations has been very limited. We can recall only two other plants where H<sub>2</sub>S was detected. Of course, this is our initial leachate application where H<sub>2</sub>S may be typical.

We should have a quotation tomorrow for covering and sealing the feed tank opening and we are working on a scope for venting the tank to outside the building (through the roof). I will submit the cost estimates for this work for your review as soon as it is available. Please review and call if you have any comments. A copy of the attached is being transmitted to Bruce Kasnitz and Terry Crow for their compliance.

Very Truly Yours

RESOURCES CONSERVATION COMPANY

Mike Spanny

Project Manager

cc:

Dan Strobridge Doug Fredericks TO: MR BRAMLETT

FROM: VINCE

SUBJECT- Has, VANGEROUS SITUATION @ L.M.F.

Please Road The ATTACHED Immediately we HAVE A PROBLEM. I'VE ETICLOSED A COPY FOR OUR SAFETY OFFICER I TRUST He'll LEVIEW Comment & MAKE Recommendations on A Solution.

To DATE THE Following has deen viscussed

- · PLACING A LID ON THE FEED TANK, I DO NOT BELIEVE THIS WILL BE THE ANSWER
  - CONSTRUCT A FUNNIEL SHAPED HOOD OVER

THE FEED TONKS - WITH A PIPE VENT TO &

THRU THE ROOF OF THE BUILDING.

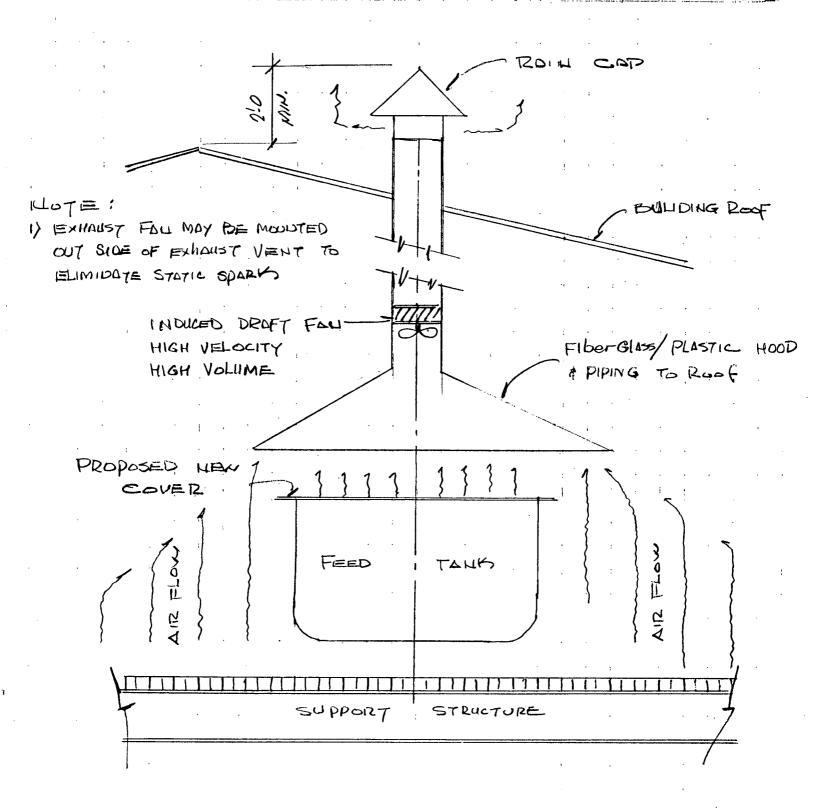
\* INSTAN A HIGH VELOCITY INDUCED DRAFT FANT IN THE PIDE OVER THE FUNNEL FOR RAPIO EXHAUST OF DIR OVER THE FEED TANK AN SURROUNDING AIR

PLEDSE DOVISE ME OF YOUR THAUGHTS.

I, BELIEVE IT INCUMBANT ON ME TO ADVISE

L.M.F. OPERATORS OF THE POTENTIAL DANGER - OF

HAS, WHICH I WILL DO IMMEDIATELY.



PROPOSED SOLUTION
TO HAS PROBLEM

**BEST AVAILABLE COPY** 



3006 Northup Way Bellevue, WA 98004-1407 Phone: 206 828-2400 Fax: 206 828-0526

May 20, 1997 PAS-L246

A Division of lanics, Incorporated

Pasco County, Florida Public Works Utilities Complex 7530 Little Road, #205 New Port Richey, FL 34654

Attention:

Vince Mannella

Subject:

Hydrogen Sulfide - Safety Requirements

RCC Job 615

Dear Vince:

Attached is a copy of a memo-report issued by Dale Owen, RCC Safety Officer on the problem of hydrogen sulfide (H2S) emissions from the BC feed tank. Although Dale's instructions are directed to RCC personnel, we recommend that these safety measures and precautions be considered and applied for all personnel on site.

The monitoring and "breathing space" maintenance specified might appear to you to be excessive, but our exposure to H<sub>2</sub>S at RCC installations has been very limited. We can recall only two other plants where H<sub>2</sub>S was detected. Of course, this is our initial leachate application where H<sub>2</sub>S may be typical.

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Very Truly Yours

RESOURCES CONSERVATION COMPANY

Mike Spanis Project Manager

cc:

Dan Strobridge Doug Fredericks





MEMO

DATE:

5/19/97

TO:

Gordy Phares, Mike Spann

FROM:

Dale Owen, RCC Safety Officer

cc:

Mike Woolley, Bruce Kasnitz, Jim Nowak, George Jones, Gary Podrabsky,

Terry Crow, Janet Malgarin

SUBJECT:

Pasco County, Hydrogen Sulfide

From the memo's I've seen, the hydrogen sulfide (H<sub>2</sub>S) problem at the Pasco site appears to be a serious potential safety problem.

#### I. Introduction

The big picture is:

- 1. A potentially fatal gas (H2S) is venting inside the building; and,
- 2. The concentration level of the gas near the vent point is at or above the regulatory safety limits.

Regardless of the source of the  $H_2S$ , the possibility exists that RCC employees could be exposed to levels greater than the permissible exposure limit. Therefore, positive action must be taken to ensure the safety of RCC employees. In this case, air samples must be taken at appropriate intervals to ensure  $H_2S$  levels are not above limits. These samples must be taken at the worst case "breathing space" of RCC employees. The location "breathing space" means the location, and elevation, where employees are expected to be breathing.

#### II. OSHA Regulatory Limits

The toxic gas in question is, of course,  $H_2S$  which is being released from the Evaporator feed water. The OSHA 8-hour exposure limit is 10 ppm. This means that the time weighted average exposure, during an 8 hour workday, may not exceed 10 ppm. This is based on a maximum workweek of 40 hours. I understand RCC employees are working more than 40 hours weeks. This limit should be reduced in proportion to the number of "exposure" hours in excess of 40 hours per week.

The OSHA short term exposure limit is 15 ppm. This means that the time weighted average exposure, during a 15 minute period, may not exceed 15 ppm. However, because there is no

ceiling exposure limit listed, the ceiling exposure limit must be assumed to be 15 ppm. This means that at no time may an employee be exposed to levels greater than 15 ppm (averaged or not). This limit is not based on the work week length, so it will remain at 15 ppm regardless of how many hours worked per week.

These regulatory limits, and more, can be found on the MSDS attached, section 15. A description of these terms may be found on page 4 of the <u>NIOSH Pocket Guide To Chemical Hazards</u>, (page 4 is attached).

#### III. Monitoring

As mentioned earlier, some type of monitoring is required to ensure levels do not exceed the limits. I understand that Pasco County may have some type of continuous monitoring system already in place. This system can be accepted as the primary warning system. We can rely upon an existing continuous monitoring system if the following can be verified:

- 1. The monitor is set to alarm at 10 ppm H<sub>2</sub>S.
- 2. The monitor/detector is calibrated for H<sub>2</sub>S, and has been calibrated within manufacturers recommended period.
- 3. No known failures of the monitoring system have occurred with regard to this recent incident with H-S.
- 4. The system must reasonably sample the breathing spaces of RCC employees.
- 5. The system must have an audible alarm that could not be missed by RCC's employees.

As a backup to the primary monitoring system, we can use the Dräger tube system. A sample should be taken at the start of each shift. This will be twice a day if we staff two shifts. The Dragger sample must be taken in the "worst case" breathing space. If we know for certain that inside the feed tank would fail, then simply rope off that area and do not allow access. This eliminates the area from the "breathing space" to be tested. Any other areas known to be above the limit should also be "off-limits", and labeled as such, or preferably locked.

A backup sample should also be taken anytime an RCC operator suspects higher levels may exist. This could be due to changes in the operating conditions, or changes to the expected breathing zone.

If both of these monitoring systems together show levels below the regulatory limits, then RCC employees may remain working on site.

#### IV. Safety Actions

If either of the above monitoring systems show levels above the regulatory limits, then RCC must exit the building. If this occurs, then we will not be able to reoccupy the building during operations until some type of engineering solution has been implemented to permanently lower the exposure levels. Of course, we will be able to reoccupy after shutdown and dispersal of the gas in order to make the needed engineering changes.

MAY.20.1997 2:21PM IOn. , i

NO.186 P.5

Because RCC employee. It site are not officially trained in the use of filter masks, nor are they in possession of personal fit-tested masks on site, they may not (per OSHA regulations) use masks as "safety equipment". In other words, if the time weighted average level exceeds 10 ppm (5 ppm for an 80 hour work week), it is not acceptable procedure to put on a mask and keep working. If Pasco County has qualified personnel who are trained and fit tested, it should be acceptable for them to use masks. Any work that must be performed in an area known to be above the limits will simply have to be performed by someone other than RCC personnel, or performed during shutdown.

#### V. Conclusions

The problem of H<sub>2</sub>S emissions at Pasco County need not be a show stopper, as long as we properly monitor for H<sub>2</sub>S. RCC must verify that Pasco County has a reliable H<sub>2</sub>S monitoring system in operation and we must perform backup Dräger monitoring. If Pasco County cannot supply a reliable monitoring system, we may be able to continue operations by taking Dräger samples more frequently. In the meanwhile, it is the responsibility of Pasco County to pursue and facilitate an engineering solution as quickly as possible, and it is incumbent upon RCC to provide our solicited engineering recommendations to Pasco County as quickly as possible. Also, in the interim the site should make extra efforts to ventilate the building.

\*\*\*

Attachments

P.6

#### Section 1. - - - - - Chemical Identification - - - - -

CATALOG #:

29160

NAME:

HYDROGEN SULFIDE GAS

## Section 2. - - - - Composition/Information on Ingredients - - - -

CAS #: 7783-06-4

EC NO;

231-977-3

SMYNONYES

ACIDE SULFHYDRIQUE (FRENCH) \* HYDROGENE SULFURE (FRENCH) \* HYDROGEN SULFIDE (ACGIH, OSHA) \* HYDROGEN SULFIDE, LIQUEFIED (DOT) \* HYDROGEN SULFURIC ACID \* IDROGENO SOLFORATO (ITALIAN) \* RCRA WASTE NUMBER U135 \* SCHWEFELWASSERSTOFF (GERMAN) \* SIARKOWODOR (POLISH) \* STINK DAMP \* SULFURETED HYDROGEN \* SULFUR HYDRIDE \* UN1053 (DOT) \* ZWAVELWATERSTOF (DUTCH) \*

#### Section 3. ----- Hazards Identification -----

LABEL PRECAUTIONARY STATEMENTS
FLAMMABLE (USA DEFINITION)
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)
HIGHLY TOXIC (USA DEFINITION)
TOXIC (EUROPEAN DEFINITION)
TOXIC BY INHALATION.
IRRITATING TO EYES AND RESPIRATORY SYSTEM.
STENCH.
DANGER: POISONOUS AND FLAMMABLE LIQUID AND GAS UNDER PRESSURE.
KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.
TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

### Section 4. ----- First-Aid Measures ------

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS' AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

## Section 5. - - - - - Fire Fighting Measures - - - - - - -

#### EXTINGUISHING MEDIA

DO NOT EXTINGUISH BURNING GAS IF FLOW CANNOT BE SHUT OFF IMMEDIATELY. USE WATER SPRAY OR FOG NOZZLE TO KEEP CYLINDER COOL. MOVE CYLINDER AWAY FROM FIRE IF THERE IS NO RISK.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. DANGER: POISONOUS AND FLAMMABLE LIQUID AND GAS UNDER PRESSURE.

P.7

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
MAY FORM EXPLOSIVE MIXTURES WITH AIR.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

#### Section 6. - - - - - Accidental Release Measures - - - - -

EVACUATE AREA AND KEEP PERSONNEL UPWIND.
WEAR FULL PROTECTIVE EQUIPMENT SUCH AS, A BUTYL RUBBER CHEMICAL-PROOF
AIR SUIT, WITH BREATHING AIR SUPPLIED.
SHUT OFF ALL SOURCES OF IGNITION.
SHUT OFF LEAK IF THERE IS NO RISK.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

### Section 7. ----- Handling and Storage ------

REFER TO SECTION 8. ADDITIONAL INFORMATION

REACTION WITH DIAZONIUM COMPOUNDS CAN PRODUCE EXPLOSIVE PRODUCTS.
WHEN 4-HROMOBENZENEDIAZONIUM IN SOLUTION WAS TREATED WITH HYDROGEN
SULFIDE AT -5 C, A PRODUCT FORMED AND IT EXPLODED AT 0 C WHILE STILL
UNDER WATER. HYDROGEN SULFIDE IS RAPIDLY OXIDIZED BY METAL OXIDES AND
MAY IGNITE ON CONTACT WITH BARIUM PEROXIDE, CHROMIUM TRIOXIDE, COPPER
OXIDE, LEAD DIOXIDE, MAGANESE DIOXIDE, NICKEL OXIDE, SILVER(I) OXIDE,
SILVER(II) OXIDE, SODIUM PEROXIDE, AND THALLIUM(III) OXIDE. HYDROGEN
SULFIDE MAY IGNITE IF PASSED THROUGH RUSTY IRON PIPES. IN THE
PRESENCE OF AIR, CONTACT WITH MIXTURES OF CALCIUM OXIDE OR BARIUM
OXIDE WITH MERCURY OXIDE OR NICKEL OXIDE MAY RESULT IN INCANDESCENCE
OR AN EXPLOSION. CONTACT WITH NITROGEN TRICHLORIDE OR SILVER
FULMINATE AT AMBIENT TEMPERATURES INITIATES VIOLENT EXPLOSIONS.

#### Section 8. - - - - Exposure Controls/Personal Protection - - - -

CHEMICAL SAFETY GOGGLES. COMPATIBLE CHEMICAL-RESISTANT GLOVES. NIOSH/MSHA-APPROVED RESPIRATOR IN NONVENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIR TLV. USE ONLY IN A CHEMICAL FUME HOOD. SAFETY SHOWER AND EYE BATH. DO NOT BREATHE GAS. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING. POISON IRRITANT. KEEP TIGHTLY CLOSED. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. CYLINDER TEMPERATURE SHOULD NOT EXCEED 125 F (52 C). STORE AND USE WITH ADEQUATE VENTILATION. STENCH. MOISTURE SENSITIVE STORE IN A COOL DRY PLACE. WARNING: SUCK-BACK INTO CYLINDER MAY CAUSE RUFTURE. USE BACK-FLOW-PREVENTIVE DEVICE IN PIPING. USE WITH EQUIPMENT RATED FOR CYLINDER PRESSURE, AND OF COMPATIBLE MATERIALS OF CONSTRUCTION. CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY. MAKE SURE CYLINDER IS PROPERLY SECURED WHEN IN USE OR STORED.

### Section 9. ----- Physical and Chemical Properties -----

VAPOR DENSITY:

P.8

```
APPEARANCE AND ODOR
COLORLESS GAS
PHYSICAL PROPERTIES
BOILING POINT: -60 C
MELTING POINT: -85 C
EXPLOSION LIMITS IN AIR: -60 C
UPPER 46%
LOWER 46%
AUTOIGNITION TEMPERATURE: 500 F 259C
VAPOR PRESSURE: 252PSI 21 C
```

## Section 10. ----- Stability and Reactivity -----

1.19 @ 15 C

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
STRONG BASES
SENSITIVE TO MOISTURE
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
SULFUR OXIDES

#### Section 11. ----- Toxicogical Information -----

ACUTE EFFECTS

MAY BE PATAL IF INHALED.

VAPOR OR MIST IS IRRITATING TO THE EYES, MICOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

MAY CAUSE SKIN IRRITATION.

HYDROGEN SULFIDE IS RECOGNIZED BY ITS CHARACTERISTIC ODOR OF "ROTTEN EGGS". THE DETECTABLE, MINIMUM PERCEPTIBLE ODOR OCCURS AT 0.13PPM. AT CONCENTRATIONS OF 20PPM HYDROGEN SULFIDE BEGINS ACTING AS AN IRRITANT ON THE MUCOUS MEMBRANES OF THE EYES AND RESPIRATORY TRACT AND INCREASES WITH CONCENTRATION AND EXPOSURE TIME. THE IRRITANT ACTION AND ODOR OF ROTTEN EGGS OFTEN PROVIDES THE FIRST WARNING OF HYDROGEN SULFIDE EXPOSURE. UNFORTUNATELY, ABOVE 150PFM THE GAS EXERTS A PARALYZING EFFECT ON THE OLFACTORY APPARATUS. PROLONGED EXPOSURE TO MODERATE CONCENTRATIONS (250PPM) MAY CAUSE PULMONARY EDEMA. AT CONCENTRATIONS OVER 500PPM, DROWSINESS, DIZZINESS, EXCITEMENT, HEADACHE, UNSTABLE GAIT, AND OTHER SYSTEMIC SYMPTOMS OCCUR WITHIN A PEW MINUTES. SUDDEN LOSS OF CONSCIOUSNESS WITHOUT PREMONITION, ANXIETY, OR SENSE OF STRUGGLE ARE CHARACTERISTIC OF ACUTE EXPOSURE AT CONCENTRATIONS ABOVE 700PPM. AT CONCENTRATIONS OF 1000-2000PPM HYDROGEN SULFIDE IS RAPIDLY ABSORBED THROUGH THE LUNG INTO THE BLOOD. INITIALLY HYPERPNEA OCCURS, FOLLOWED BY RAPID COLLAPSE AND RESPIRATORY INHIBITION. AT HIGHER CONCENTRATIONS, HYDROGEN SULFIDE EXERTS AN IMMEDIATE PARALYZING EFFECT ON THE RESPIRATORY CENTERS. WHEN CONCENTRATION REACHES 5000PPM, IMMINENT DEATH ALMOST ALWAYS RESULTS. GENERALLY SPEAKING, IMMINENT DEATH DUE TO ASPHYXIA CAN HAPPEN AT ANY TIME WHEN THE CONCENTRATION REACHES 1000PPM OR MORE.

EXPOSURE TO AND/OR CONSUMPTION OF ALCOHOL

MAY INCREASE TOXIC EFFECTS.

RTECS #: MX1225000

HYDROGEN SULFIDE

TOXICITY DATA

IHL-HMN LCLO: 600 PPM/30M
IHL-MAN LDLO: 5700 UG/KG
IHL-HMN LCLO: 800 PPM/5M
IHL-RAT LC50: 444 PPM
IHL-MUS LC50: 634 PPM/1H
TARGET ORGAN DATA
BEHAVIORAL (COMA)

29EWAE -,207,68 AMPMAR 44,483,83 TABIA2 3,231,33 LACHB# 09JUN78 AMRL\*\* TR-72-62,72 Material Safety Data Sheet

LUNGS, THORAX OR RESPIRATION (CHRONIC PULMONARY EDEMA OR CONGESTION)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
GASTROINTESTINAL (HYPERMOTILITY, DIARRHEA)
KIDNEY, URETER, BLADDER (URINE VOLUME INCREASED)
EFFECTS ON NEWBORN (PHYSICAL)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

#### Section 12. ----- Ecological Information -----

DATA NOT YET AVAILABLE.

## Section 13. - - - - - Disposal Considerations - - - - -

CAUTION: NO-RETURN CYLINDER. DO NOT REUSE. EMPTY CYLINDER WILL CONTAIN HAZARDOUS RESIDUE. FOLLOW PROPER DISPOSAL TECHNIQUES. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

#### Section 14. ---- Transport Information -----

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

### Section 15. ----- Regulatory Information -----

EUROPEAN INFORMATION

BC INDEX NO:

016-001-00-4

R:11

PLAMMABLE (USA DEFINITION)

HIGHLY FLAMMABLE (EUROPEAN DEFINITION)

R:23

TOXIC BY INHALATION.

R:36/37

IRRITATING TO EYES AND RESPIRATORY SYSTEM.

S:16

KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.

5:33

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

5:45

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

5:38

IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE

RESPIRATORY EQUIPMENT.

REVIEWS, STANDARDS, AND REGULATIONS

OEL-MAK

ACGIH TLV-TWA 10 PPM; STEL 15 PPM

85INA8 6,786,91

MSHA STANDARD-AIR: TWA 10 PPM (15 MG/M3)

DTLVS\* 3,132,71

OSHA PEL (GEN INDU):CL 20 PPM;PK 50/10M

CFRGBR 29,1910.1000,94

OSHA PEL (CONSTRUC):8H TWA 10 PPM (15 MG/M3)

CFRGBR 29,1926.55,94

CSHA PEL (SHIPYARD):8H TWA 10 PPM (15 MG/M3)

CFRGBR 29,1915.1000,93

OSHA PEL (FED CONT):8H TWA 10 PPM (15 MG/M3)

CFRGBR 41,50-204.50,94

OEL-ARAB REPUBLIC OF EGYPT: TWA 10 PPM (14 MG/M3) JAN93

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OEL-AUSTRALIA: TWA 10 PPM (14 MG/M3); STEL 15 PPM (21 MG/M3) JAN93
  OEL-BELGIUM: TWA 10 PPM (14 MG/M3); STEL 15 PPM (21 MG/M3) JAN93
  OEL-CZECHOSLOVAKIA: TWA 10 MG/M3: STEL 20 MG/M3 JAN93
  OEL-DENMARK: TWA 10 PPM (15 MG/M3) JAN93
  OEL-FINLAND: TWA 10 PPM (15 MG/M3); STEL 15 PPM (20 MG/M3); SKIN JAN93
  OEL-FRANCE: TWA 5 PFM (7 MG/M3); STEL 10 PPM 414 MG/M3) JAN93
  ORL-GERMANY: TWA 10 PPM (15 MG/M3) JAN93
  OEL-HUNGARY: TWA 10 MG/M3; STEL 20 MG/M3 JAN93
  OEL-JAPAN: TWA 10 PPM (14 MG/M3) JAN93
  OEL-THE NETHERLANDS: TWA 10 PPM (15 MG/M3) JAN93
  OEL-THE PHILIPPINES: TWA 10 PPM (15 MG/M3) JAN93
  ORL-POLAND: TWA 10 MG/M3 JAN93
  OEL-RUSSIA: TWA 10 PPM; STEL 10 MG/M3 JAN93
  OEL-SWEDEN: TWA 10 PPM (14 MG/M3); STEL 15 PPM (20 MG/M3) JAN93
  OBL-SWITZERLAND: TWA 10 PPM (15 MG/M3); STEL 20 PPM (30 MG/M3) JAN93
  OEL-THAILAND: STEL 20 PPM JAN93
  OEL-TURKEY: TWA 10 PPM (15 MG/M3) JAN93
  OBL-UNITED KINGDOM: TWA 10 PPM (14 MG/M3); STEL 15 PPM (21 MG/M3) JAN93
  OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
  OBL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLY
  NIOSH REL TO HYDROGEN SULFIDE-AIR:CL 10 PPM/10M
  NIOSH* DHHS #92-100,92
 NOHS 1974; HZD 38620; NIS 17; TMF 745; NOS 30; TNE 15422
  NOES 1983: HZD 38620; NIS 31; TNF 1524; NOS 77; TNE 94923; TFE 6515
  EPA TSCA SECTION 8 (B) CHEMICAL INVENTORY
  ON EPA IRIS DATABASE
 EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1995
 NIOSH ANALYTICAL METHOD, 1994: HYDROGEN SULFIDE, 6013
 OSHA ANALYTICAL METHOD #ID-141
U.S. INFORMATION
  THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.
```

#### Section 16. ----- Other Information -----

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA, ALDRICH, FLUKA SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE. COPYRIGHT 1995 SIGMA CHEMICAL CO., ALDRICH CHEMICAL CO., INC., FLUKA CHEMIE AG LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY



(parts per million parts of air) to mg/m3 (milligrams per cubic meter of air) at 68°F and 1 atmosphere are listed for all liquids aud gases.

#### Exposure Limits

The NIOSH RELs are listed first in this column. Unless noted otherwise. RELs are time-weighted average (TWA) concantrations for up to a 10-hour workday during a 40-hour workweek. A short-term exposure limit (STEL) is designated by "ST" preceding the value; unless noted otherwise, the STEL is a 15-minute TWA exposure that should not be exceeded at any time during a workday. A celling REL is designated by "C preceding the value; unless noted otherwise, the ceiling value should not be exceeded at any time. Any substance that NIOSH considers to be an occupational carcinggen is designated by the notation "Ca" (see Appendix A, which contains a brief discussion of occupational carcinogens).

The OSHA permissible exposure limits (PELs), as found in Tables Z-1-A or Z-2 of the OSHA General Industry Air Contamiments Standard (29 CFR 1910.1000), are listed next. Unless noted otherwise, PELs are TWA concentrations that must not be exceeded during any 8-hour work shift of a 40-hour workweek. A STEL is designated by "ST" preceding the value and is measured over a 15-minute period unless noted otherwise.

OSHA calling concentrations (designated by "C" praceding the value) must not be exceeded during any part of the worlday; if instantaneous monitoring is not feasible, the calling must be assessed as a 15-minute TWA exposure. In addition, beryflum, ethylene dibromide, and methylene chloride (from Table Z-2) have PEL ceiling values that must not be exceeded except for a maximum peak over a specified period. Appendix 8 contains a brief discussion of certinogens regulated by OSHA

The American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) are also listed when they are more restrictive than the OSHA PEL or NIOSH REL. Unless noted otherwise, TLV4 are 6-hour TWA concentrations. Celling concentrations (which should not be exceeded at any time) are designated by "C". A STEL is designated by "ST" and is measured over a 15-minute period. Where applicabie, the ACGIH A1 (confirmed human carcinogen) and A2 (suspected human carcinogen) designations for individual chamicals are included. The ACGIH TLVs for 1989-1990 were used for this printing of the Pocket Guide.

Concentrations are given in ppm, mg/m², or fibers per cubic continuous (fibers/cm²). The "[skin]" designation indicases the potential for dermal absorption; skin exposure should be prevented as necessary through the use of good work practices and gloves, covereits, goggles, and other appropriate equipment. Appendix C contains more detailed discussions of

the specific exposure limits for asbestos, the various chromlum compounds, coal tar pitch valatiles, and cotton dust. Appendix Dicontains a brief discussion of substances with no established

#### IDLH

Immediately dangerous to life or health concentrations (IDLHs) represent the maximum concentration from which, in the event of respirator fallure, one could escape within 30 minutes without a respirator and without experiencing any escape-impairing (e.g., severe eye irritation) or irreversible health effects. These values were determined during the Standards Completion Program only for the purpose of respirator selection. The notation "Ca" appears in this column for all substances that NIOSH considers to be potential human carcinogens (MIOSH recommends the most protective respirators for exposure to these substances). However, the IDLHs that were originally determined in the Standards Completion Program are shown in brackets following the "Ca" designation (note: carcinogenic affects were not considered in the Standards Completion Program). "Unknown" indicates that because of a lack of data, no IDLH could be determined. "LEL" indicates that the IDLH is based on the lower explosive limit. "N.E." indicates that no evidence could be found for the existence of an IDLH.

#### Physical Description

This column provides a brief description of the appearance and odor of each substance. Notations are made as to whether a substance can be shipped as a liquefied compressed gas or whether it has major use as a pesticide.

#### Chemical and Physical Proporties

The following abbreviations are used for the chemical and physical properties given for each substance. "NA" Indicates that a property is not applicable, and a question mark (?) Indicates that it is unknown.

MW	Molecular weight
BP	Boiling point at 1 atmosphere, "F
Sal	Solubility in water at 68°F", % by weight
	(l.e., g/100 ml)
FLP	Flash point, closed cup (unless anno-
	tated "(oc)" for open cup), "F
1P**	(orization potential, eV (electron votts)
VP	Vapor pressure at 68°F°, mm Hg; "ap-
	prox" indicates approximately
MLT	Metting point for solids, °F
PP7	Franzing point for liquids and gases. "
UEL	Upper explosive limit in air, % by volume
	(at room temperature")

See footnotes at end of table.

Re: TRANSFER STATION OR NOT

Subject: Re: TRANSFER St. Kim Ford TPA

CC: Richard Tedder TAL CC: Robert Butera TPA

As I read our definition of "transfer station" any facility which consists only of containers (green boxes, compactors, dumpsters) isn't a transfer station regardless of its purpose and regardless of how poorly it's run. I believe we have occassionally required a transfer station GP anyway in cases where the facility was so big or included so many containers that we felt it went way beyond the original intent of the rule. A facility which included containers but also had other waste management areas (e.g. a sorting area, recycling area, HHW area, etc) could also be considered a transfer station.

Thank you for not asking why our definition is what it is. didn't write it. I'm sure that at the time it made perfect sense.

Date: . 5/20/97 08:34 From: Kim Ford TPA

Subject: TRANSFER STATION OR NOT To: Chris McGuire TAL CC: Richard Tedder TAL CC: Robert Butera TPA

The West Pasco W-T-E site has a residential solid waste drop-off facility that consists of a ramp that leads up to a 5000 sf. area for unloading into three 35 feet long compactor units. The County is considering expanding this facility which current has difficulty handling Saturday's operations which cause traffic to queue 20 vehicles. These compactor units have no reservoir to store any leachate that is squeezed from the waste. Further discussion with maintenance personnel indicates that these units have no seal and do discharge liquids.

The primary purpose is obviously to store and hold solid waste, but the units are compactors. Should this facility be classified as a transfer station and be required to comply with the transfer station rules for leachate collection?

Hernando County has 2 such facilities permitted as transfer stations. Hillsborough has 6 facilities designated as community collection centers (CCC) with roll-offs only - no compactor units, with an attendant, and all waste must be covered at the end of each day or removed for off-site disposal.

Please advise.

Surante ?

Any commands?

Och seno ?

Em

5/20/97



## PASCO COUNTY, FLORIDA

D.E.P.

MAY 1 9 1997

TAMPA



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DADE	E CI	ΓY
LANI	0 0	LAKES
NEW	POR	r richey
FAY		

(904) 521-4274 (813) 996-7341 (813) 847-8145

(813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-205 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

May 16, 1997

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

SUU INVEST DISTRICT

RE: MSW Inventory

Tampa, FL 33619-8318

Dear Mr. Ford:

We are once again reducing MSW inventory in SW-1 by 1,000 tons per week. This will continue until all inventory is exhausted. We have a three day scheduled total outage when certain parts arrive. Inventory removal will cease for these days only, or any other unexpected emergency.

All MSW will be gone from SW-1 by September 30, 1997 and the disposal unit will be cleaned.

Sincerely,

Vincent Mannella, P.E.

Solid Waste Facility Manager

VM/mr

Douglas S. Bramlett, Assistant County Administrator (Utilities Services)



## PASCO COUNTY, FLORIDA

DADE CITY LAND O' LAKES NEW PORT RICHEY (904) 521-4274 (813) 996-7341 (813) 847-8145

(813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-205 7530 LITTLE ROAD NEW PORT RICHEY, FL 34654

May 16, 1997

FAX

Mr. Kim Ford Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619-8318

DEP

MAY 1 9 1997 SUU INVEST DISTRICT

TAMPA

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Vincent Mannella, P.E.

Solid Waste Facility Manager

VM/mr

cc: Douglas S. Bramlett, Assistant County Administrator (Utilities Services)



# PASCO COUNTY, FLORIDA

DADE CITY
LAND O' LAKES
NEW PORT RICHEY
FAX

(904) 521-4274 (813) 996-7341 (813) 847-8145

(813) 847-8064

UTILITIES SERVICES BRANCH PUB. WKS./UTILITIES BLDG., S-205 7530 LITTLE ROAD

NEW PORT RICHEY, FL 34654

May 16, 1997

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Solid Waste Facility Manager

VM/mr

cc: Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
3804 COCONUT PALM DR.
TAMPA, FLORIDA 33619





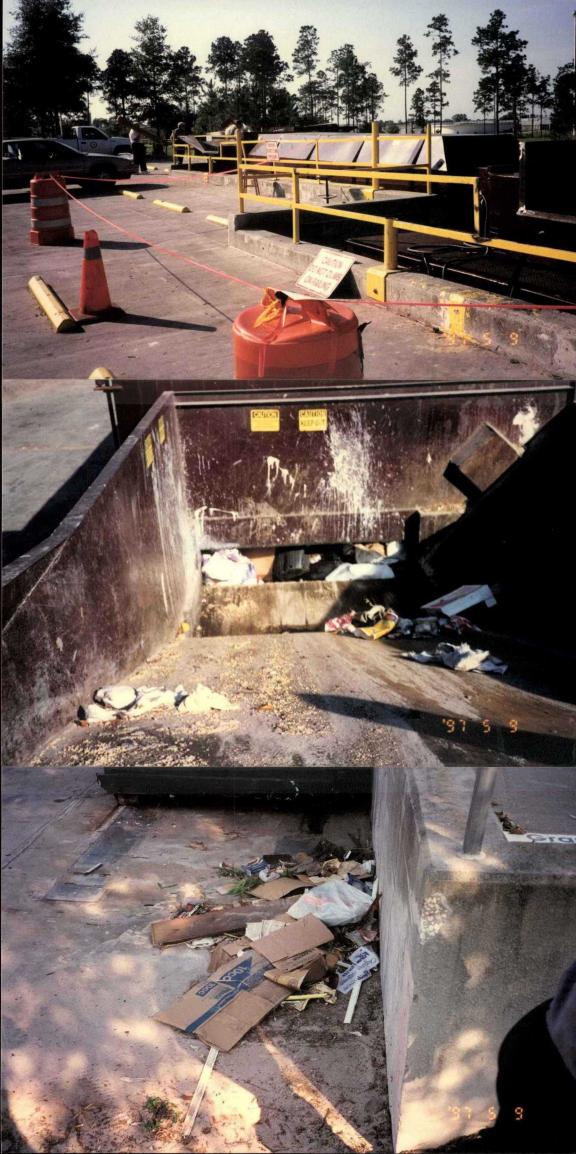




W PASCO 1-S.

> WARSUS T-S:

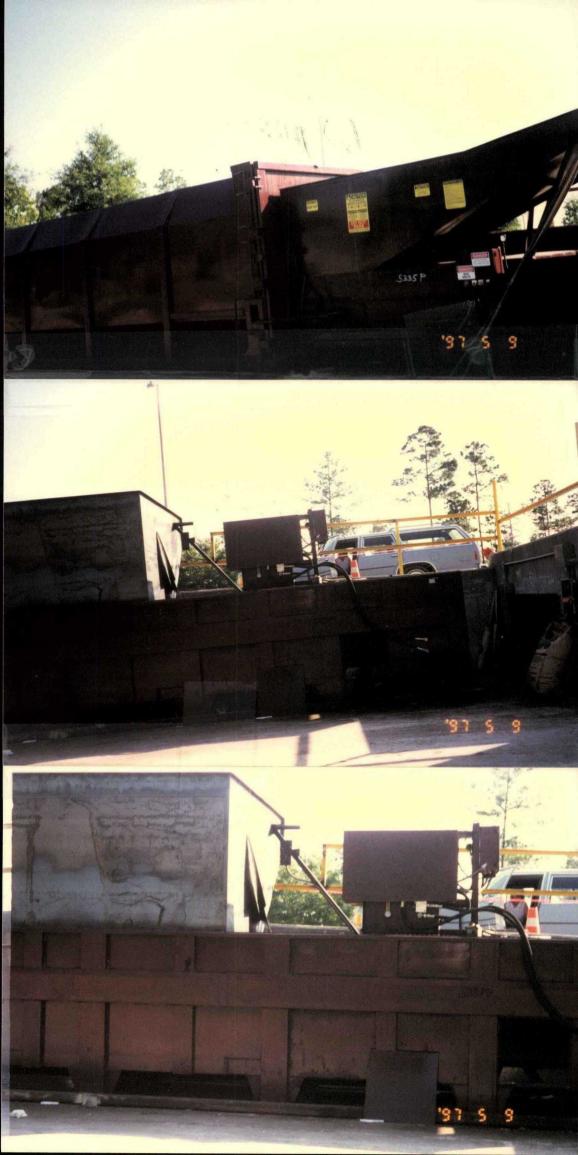
> > WPASLO T-S.



W PASCO (CNV

WPASCO

WPASCP T-S.



WPASCO (CAV

W. pasco

WPASCO LAV