



CRT Panel Glass Waste Acceptance Program

Revised May 2019



(This page left intentionally blank)

Table of Contents

1. PURPOSE	1
2. RESPONSIBILITIES	1
2.1. Program Administrator (PA).....	1
2.2. Generator.....	1
3. EVALUATION PROCESS.....	1
3.1. CRT Panel Glass Acceptance Thresholds.....	1
3.2. Sampling and Testing Protocol	2
4. DELIVERY AND DISPOSAL.....	3

Attachments

- Attachment 1 – Form WM605 – Generator Waste Profile Sheet
- Attachment 2 – Maximum Acceptable Thresholds for CRT Panel Glass Disposal
- Attachment 3 – CRT Panel Glass Testing Protocol

(This page left intentionally blank)

1. PURPOSE

This CRT Panel Glass Waste Acceptance Program (CPGWAP) has been developed by Riverside County Department of Waste Resources (Department) in compliance with all rules and regulations pertaining to proper disposal of CRT Panel Glass at a composite-lined Class III landfill.

2. RESPONSIBILITIES

2.1. Program Administrator (PA)

The PA or her designees, have the following responsibilities regarding CRT Panel Glass waste approval for disposal at its composite-lined Class III landfills:

- Implement, enforce and maintain a CPGWAP in compliance with current rules and regulations [California Code of Regulations, Title 22 (Title 22 CCR), Division 4.5, Chapter 23, Article 8, Section 66273.81].
- Review and approve CRT panel glass in accordance with the Department's CGPWAP.
- Secure adequate resources to maintain a compliant CGPWAP which protects the health and safety of the general public, site visitors, Department employees and the environment.

This CGPWAP and the responsibilities of the Department's PA for waste approval is limited to evaluating the efforts made by the generator to treat, test and classify their waste stream and not to perform such classifications for the generator. Based on information provided by the generator, including the signed profile sheet, the PA is to establish a level of confidence for the Department that the generator has honestly and appropriately evaluated and classified their waste stream and that based on the information provided, the waste is not a hazardous waste and is in compliance with applicable law.

2.2. Generator

State law places the sole responsibility for properly determining whether a waste is a regulated hazardous waste on the generator of that waste, and the generator of a particular waste stream is ultimately responsible for the proper management of that waste (Title 22 CCR Article 3 Section 66260.200). As such it is the generator's responsibility to properly evaluate and identify all suspected contaminants in their waste and the level at which these contaminants are present.

Generator must complete the Department's Form WM605 – Generator Waste Profile Sheet (Attachment 1) including the certification statement and signature block in which the generator or authorized representative certifies the information is true and correct. Supply all information and documentation requested by the PA or her designee and upon approval, present a copy of the completed signed profile sheet inclusive of the Department's stamp of approval at the landfill gate for acceptance.

3. EVALUATION PROCESS

3.1. CRT Panel Glass Acceptance Thresholds

The CRT panel glass generators are required to comply with the State Department of Toxic Substances Control's (DTSC) emergency regulations to properly treat, manage, and evaluate the CRT panel glass waste, for disposal [California Code of Regulations, Title 22 (Title 22 CCR), Division 4.5, Chapter 23, Article 8, Section 66273.81], and notify the DTSC of the disposal destination [Title 22 CCR, Division 4.5, Chapter 23, Article 8, Section 66273.82].

In order for the CRT panel glass to be accepted for disposal at composite-lined units at a Class III landfill within the Santa Ana Region, the maximum acceptable thresholds listed in Attachment 2 must be met.

3.2. Sampling and Testing Protocol

The following sampling protocol is not meant to comply with hazardous waste determination (Health and Safety Code §66262.11) and it is the responsibility of the generator to comply with all rules and regulations including, but not limited to, DTSC CRT emergency regulations. This CPGWAP sampling protocol is solely used by our landfill to spot check your waste stream.

The generator shall:

1. Perform sampling and analysis of the CRT panel glass in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, USEPA or one of the sampling methods listed in CCR, Title 22, Division 4.5, Chapter 11, Appendix I.
2. Obtain one random sample collected for every 25 cubic yards of CRT panel glass waste.
3. Sampling frequency will be performed initially for the first 200 cubic yards which is then repeated once a year and/or immediately after a change in the processes which separate funnel from panel glass or a change in the processes which remove phosphor powders from the panel glass. If any of the samples exhibits characteristic of hazardous waste, additional sampling may require.
4. Representative samples of the CRT panel glass collected shall be analyzed in accordance with the testing protocol presented in Attachment 3 for all CAM17 metals. A Chain of Custody form from a California Department of Health Services (DHS) Accredited Environmental Laboratory must be completed. The cost to analyze the sample(s) and delivery of the sample(s) to the analytical laboratory is the responsibility of the generator or their representatives. Analysis from "in house" laboratories will not be accepted.
5. Demonstrate compliance with Section 66273.75(a)(8) (CRT panel glass shall be separated from CRT funnel glass and phosphor powders removed from CRT panel glass), Section 66273.81(d) (which describes record-keeping requirements), and Section 66273.82 (which describes management of CRT panel glass prior to disposal).
6. The facility shall be inspected by the Department to ensure the CRT panel glass is separated from CRT funnel glass and phosphor powders removed from CRT panel glass.
7. Documentation submittal - Submit the following documents to the Department for evaluation:
 - a. Completed Form WM605 – Generator Waste Profile Sheet (Attachment 1);
 - b. Copy of the Laboratory Analytical Results;
 - c. Copy of the Chain of Custody form;
 - d. Certification letter to the Department certifying to the best of the generator's knowledge that:

The CRT panel glass and the CRT funnel glass have been managed as separate and discrete waste streams, all phosphor powders from the CRT panel glass have been removed pursuant to the treatment standards in §66273.75(a)(8), 22 CCR; and the CRT panel glass meets the acceptance criteria specified in the regulations listed in CCR, Title 22, Division 4.5, Chapter 11, Article 8, Section 66273.81 for disposal at a composite-lined Class III landfill.
8. The PA or her designee will review all documentation submitted to determine if the material meets acceptance thresholds. If the material does not meet the maximum acceptance thresholds, the generator is responsible for determining an alternate disposal location. If the material is acceptable, the PA or her designee will sign the Form WM605 –

Generator Waste Profile Sheet (Attachment 1) and provide the signed copy back to the generator. The generator will then make an appointment for the delivery of the CRT panel glass at the landfill. All the CRT panel glass waste loads are subject to inspection by the Department Hazardous Waste Inspectors.

4. DELIVERY AND DISPOSAL

The generator shall comply with the following for delivery and disposal of CRT panel glass at the landfill:

1. The material must be properly contained and labeled prior to disposal. CRT panel glass must be placed in a sturdy container or bag which will not split, break, or burst open when transported, unloaded and disposed of. Acceptable containers include, but are not limited to bulk bags, plastic totes, and lined cardboard boxes. The containers shall be clearly marked with the words "Excluded Hazardous Waste – CRT Panel Glass"
2. Final authority - The landfill staff reserves the right to reject any panel glass waste loads if the condition of any load does not meet appropriate acceptance criteria upon inspection.

(This page left intentionally blank)

Attachments

(This page left intentionally blank)

Attachment 1 – Form WM605 – Generator Waste Profile Sheet

(This page left intentionally blank)



GENERATOR WASTE PROFILE SHEET

Waste Profile # (Office Use Only)

Date:

Requested Disposal Facility:

- | | |
|---|---|
| <input type="checkbox"/> Badlands Landfill, Moreno Valley, CA | <input type="checkbox"/> Lamb Canyon Landfill, Beaumont, CA |
| <input type="checkbox"/> Mecca II Landfill, Mecca, CA | <input type="checkbox"/> Oasis Landfill, Oasis, CA |
| <input type="checkbox"/> Blythe Landfill, Blythe, CA | <input type="checkbox"/> El Sobrante Landfill, Corona, CA |

Please ensure to complete all applicable fields and include supporting and/or signed analytical documents when submitting the form to Waste-Approval@rivco.org. The completion of this form does not guarantee disposal at a Riverside County Landfills listed above. Disposal of any solid waste shall be at the sole discretion of Riverside County Landfills. For any questions regarding this form or how to fill it out, please contact the RCDWR Waste Approval Staff at Waste-Approval@rivco.org or (951) 486-3200. ***Depending on the complexity of the request, the review of the waste approval request may take up to 5 business days.***

I. WASTE GENERATOR INFORMATION

Generator Name:			
Generator Site Address:			
City:	County:	State:	Zip:
Generator Mailing Address (if different):			
City:	County:	State:	Zip:
Address Where Waste Was Generated:			
City:	County:	State:	Zip:
Generator Contact Name:			
Phone Number:		Fax Number:	

II. TRANSPORTER INFORMATION

Transporter Name:		Contact Name:	
Transporter Address:			
City:	County:	State:	Zip:
Phone Number:		Fax Number:	

III. PAYMENT INFORMATION

Method of Payment (please ensure the driver have the payment upon arrival at the landfill Fee Booth):
<input type="checkbox"/> Cash <input type="checkbox"/> ATM/Debit <input type="checkbox"/> Visa/MasterCard <input type="checkbox"/> Payment Account (If payment account is desired, please call (951) 486-3200)

IV. WASTE STREAM INFORMATION

Name of Waste:

Process Generating Waste (for contaminated soil, describe the site history including all business types once located on the property, attach additional pages if necessary, applicable environmental assessment reports shall also be attached):

Physical State: SOLID SEMI-SOLID POWDER LIQUID OTHER: _____

Method of Shipment: BULK DRUM BAGGED OTHER: _____

Estimated Annual Volume:	<input type="checkbox"/> CUBIC YARD	<input type="checkbox"/> TONS	<input type="checkbox"/> GALLONS	<input type="checkbox"/> OTHER
	_____	_____	_____	_____

Shipping Frequency: ONE TIME DAILY WEEKLY MONTHLY OTHER: _____

Estimated Quantity for each Shipment:	<input type="checkbox"/> CUBIC YARD	<input type="checkbox"/> TONS	<input type="checkbox"/> GALLONS	<input type="checkbox"/> OTHER
	_____	_____	_____	_____

Vehicle Type used to Transport Waste: PICK-UP END DUMP OTHER: _____

V. REPRESENTATIVE SAMPLE CERTIFICATION

By signing below I certify that the sampling plan used and samples submitted for analysis are sufficient in number and quantity to provide a representative profile of the subject waste stream and that all samples collected were analyzed for all suspect hazardous parameters and that the testing was done in accordance to Article 3 of Chapter 11 hazardous waste (sections 66261.21 to 66261.24).

Sample Date:	Type of Sample: <input type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> COMPOSITE SAMPLE
Laboratory:	Sample ID Numbers:
Sampler's Employer:	
Sampler's Name (printed):	Signature:

VI. PHYSICAL CHARACTERISTICS OF WASTE

Characteristic Components				% by Weight (range)	
1.					
2.					
3.					
4.					
Color:	Odor (describe)	% Moisture	% Solid	Flash Point	pH
_____	_____	_____	_____	_____	_____
<i>Attach Laboratory Analytical Report (and/or Safety Data Sheet) Including Required Parameters Provided for this Profile</i>					
Does this waste exhibit any characteristic of ignitability as defined in Article 3 of Chapter 11 hazardous waste, section 66261.21?				<input type="checkbox"/> Yes or <input type="checkbox"/> No	
Does this waste exhibit any characteristic of corrosivity as defined in Article 3 of Chapter 11 hazardous waste, section 66261.22?				<input type="checkbox"/> Yes or <input type="checkbox"/> No	
Does this waste exhibit any characteristic of reactivity as defined in Article 3 of Chapter 11 hazardous waste, section 66261.23?				<input type="checkbox"/> Yes or <input type="checkbox"/> No	
Does this waste exhibit any characteristic of toxicity as defined in Article 3 of Chapter 11 hazardous waste, section 66261.24?				<input type="checkbox"/> Yes or <input type="checkbox"/> No	
Is there asbestos-containing material (ACM) in the waste as defined by 40 CFR 61.141? If Yes, <input type="checkbox"/> Friable or <input type="checkbox"/> Non-Friable				<input type="checkbox"/> Yes or <input type="checkbox"/> No	
Is this waste a RCRA hazardous waste as defined in Title 22 CCR, Chapter 11, Article 4?				<input type="checkbox"/> Yes or <input type="checkbox"/> No	
Is this a regulated Toxic Material as defined by Federal and/or State regulations?				<input type="checkbox"/> Yes or <input type="checkbox"/> No	

Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input type="checkbox"/> No

VII. GENERATOR CERTIFICATION

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and an accurate description of the waste material being offered for disposal and that all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the waste. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by the Riverside County Department of Waste Resources (RCDWR). The undersigned individual warrants that he/she is authorized to sign this document on behalf of the Generator.

_____	_____
Authorized Representative Name and Title (Printed or Typed)	Company Name
_____	_____
Authorized Representative Signature	Date

VIII. RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES APPROVAL

Approved <input type="checkbox"/>	Rejected <input type="checkbox"/>	Approval Date:
Conditions:		
_____		_____
Approving Representative Name and Title (Printed or Typed)		Date

Approving Representative Signature		

Attachment 2 – Maximum Acceptable Thresholds for CRT Panel Glass Disposal

(This page left intentionally blank)

Maximum Acceptable Thresholds for CRT Panel Glass Disposal

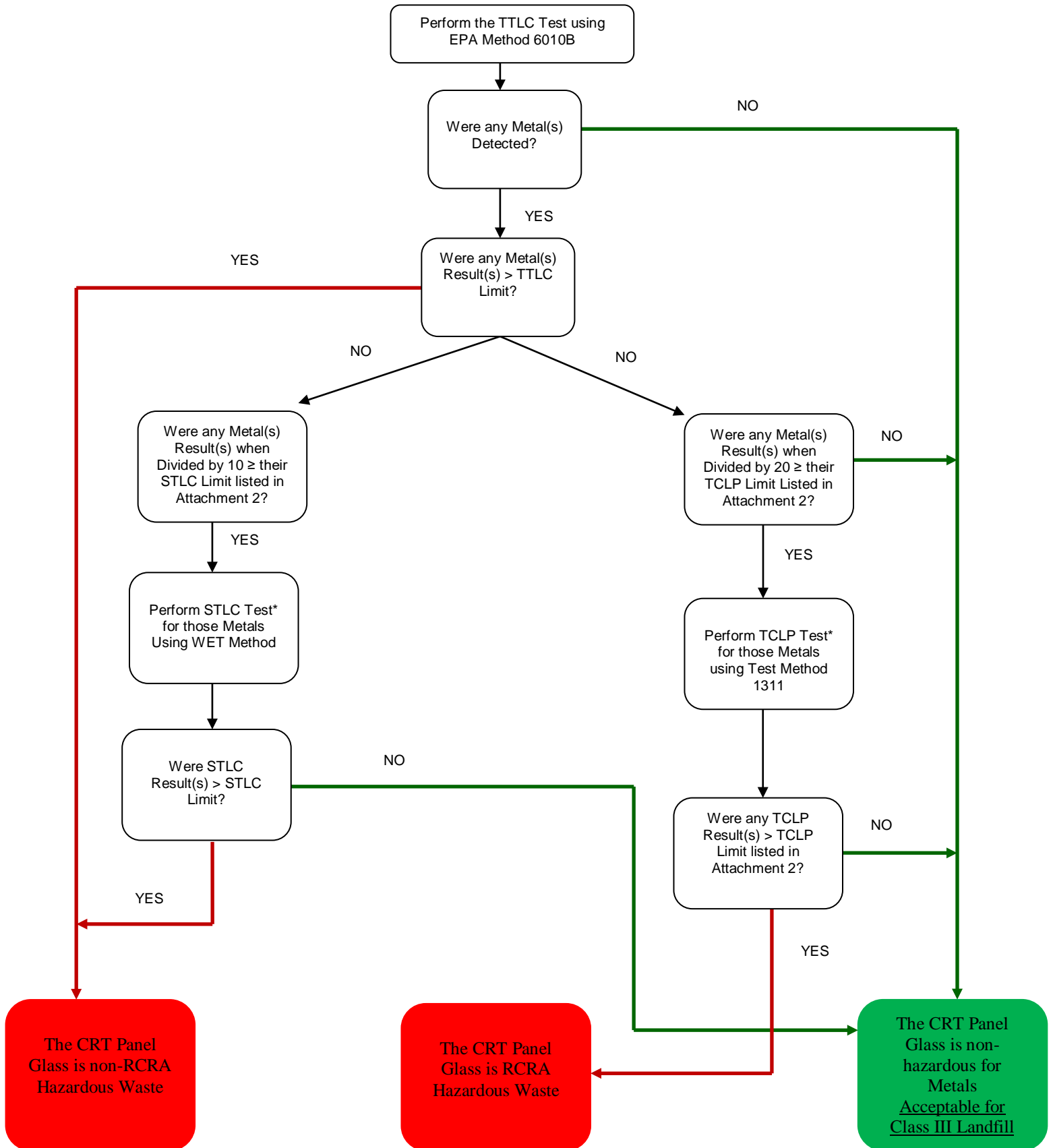
Constituent	TTLIC (mg/kg)	STLC (mg/l)	TCLP (mg/l)	TCLP* (mg/l)
Antimony	500	15		1.5
Arsenic	500	5.0	5.0	5.0
Barium	10,000	100	100	21
Beryllium	75	0.75		1.22
Cadmium	100	1.0	1.0	0.11
Chromium (VI)	500	5.0		
Chromium (III) and Chromium, total	2,500	5.0	5.0	0.6
Cobalt	8,000	80		
Copper	2,500	25		
Fluoride	18,000	180		
Lead	30,000	5.0	5.0	0.75
Mercury	20	0.2	0.2	0.025
Molybdenum	3,500	350		
Nickel	2,000	20		11.0
Selenium	100	1.0	1.0	5.7
Silver	500	5.0	5.0	0.14
Thallium	700	7.0		0.078
Vanadium	2,400	24		1.6
Zinc	5,000	250		4.3
*TCLP limits to comply with Land Disposal Restrictions Treatment Standards				

(This page left intentionally blank)

Attachment 3 – CRT Panel Glass Testing Protocol

(This page left intentionally blank)

CRT Panel Glass Testing Protocol



* Perform either the STLC or TCLP test based on the more restrictive threshold of the STLC and TCLP limits listed in Attachment 2.