Zender Environmental Health & Research

- Non-profit organization
- Based in Anchorage
- Updated website:
 www.zendergroup.org



Phone: 907 277 2111

Text: 833 277 0718

Email: info@zendergroup.org

The Problem

There is no safe way to discard hazardous and potentially

harmful waste in rural communities.





Materials come <u>in</u>...but there is no organized & consistent way of getting them back <u>out</u>

Household Hazardous Waste

LIST OF COMMON HOUSEHOLD HAZARDOUS WASTE ITEMS

CLEANING PRODUCTS

- Oven cleaners
- Drain cleaners
- Wood and metal cleaners and polish
- Toilet cleaners
- Tub, tile, shower cleaners
- Laundry bleach
- Chemical pool cleaners

AUTOMOTIVE PRODUCTS

- Motor oil
- Fuel additives
- Carburetor and fuel injection cleaners
- Air conditioning refrigerants
- Starter fluids
- Automotive batteries
- Transmission and brake fluid
- Antifreeze

LAWN AND GARDEN PRODUCTS

- Herbicides
- Insecticides
- Fungicides/wood preservatives

INDOOR PESTICIDES

- · Houseplant insecticides
- Moth repellents
- · Mouse and rat poisons and baits
- · Flea repellents and shampoos
- Bug sprays
- · Cockroach sprays and baits
- · Ant sprays and baits

WORKSHOP/PAINTING SUPPLIES

- Adhesives and glues
- Furniture strippers
- · Oil or enamel based paint
- Stains and finishes
- · Paint thinners and turpentine
- · Paint strippers and removers
- · Photographic chemicals
- Fixatives and other solvents

OTHER FLAMMABLE PRODUCTS

- Propane tanks and other compressed cylinders
- Kerosene
- · Home heating oil
- Diesel fuel
- Gas/oil mix
- Lighter fluid

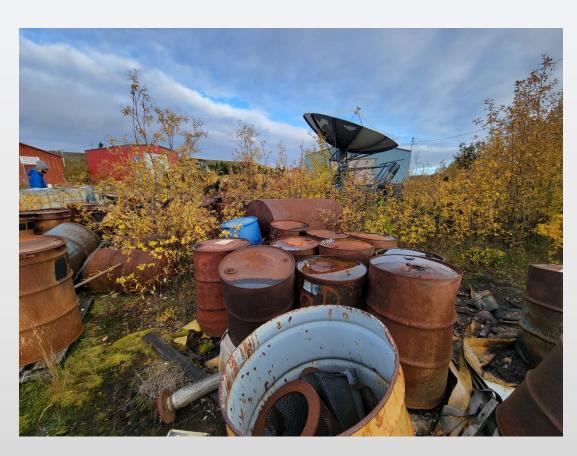
OTHER PRODUCTS

- Batteries
- Mercury thermometers or thermostats
- · Fluorescent light bulbs
- · Driveway sealers

Other Hazardous Waste Streams (Potentially Found in Communities)

- Unknown Drums (not labeled)
- Automotive Fluids (waste oil, solvents)
- Asbestos Containing Building Materials
- PCB Containing Ballasts and Transformers (pre 1979)
- Fuel Storage Tanks (sludges from cleaning)
- Contaminated Soil and Water from Clean-ups
- Mining Waste Streams
- Military Activity

Elim Alaska – Kawerak Brownfield





Inventory and Logistics Planning

- Quantity and Type of Waste Stream(s)
- How will the Waste be Packaged, Loaded, and Shipped
 - 1. DOT Approved Containers (Totes, Drums, Cubic Yard Boxes)
 - 2. Forklift, Crane, Heavy Equipment
 - 3. Truck Hauled, Landing Craft/Marine Barge, Rail, Air (Packaging Exceptions)
 - 4. 20', 40' Connex Container, Deck-loaded, or?
 - 5. Will Testing be Needed (SDS, lab analysis, Haz Cat kit, Chlor D Tec)
 - 6. Is it Residential or Commercial Generated Waste (EPA Generator ID)
- Where will the Waste be Disposed/Recycled
 - 1. EPA Approved Hazardous Waste Facility

Dillingham Alaska Paint Removal Project





Dillingham Oil Base and Latex Paints Removal

Oil Base Paints:

- 1. DOT, EPA, OSHA Regulated Hazardous Waste (Flammable and Health Hazard)
- 2. EPA Regulations Require Disposal/Recycling by an EPA Approved Hazardous Waste Facility
- 3. DOT and OSHA Regulations Require Appropriate Handling, Packaging, Labeling, Shipping, and Documentation (Hazwaste Manifest, EPA Generator/Transporter ID). Residential Generated Exception (Dangerous Goods BOL, Non-hazwaste Manifest, No EPA Generator needed

• Latex/Acrylic Paints:

- 1. Not Regulated-Except must be Dried/Hardened Before Disposal.
- 2. Water-Soluble when Liquid.

40' Container Mixed Paint:

 Packaged in 16 Lined Cu/yard Boxes, Forklift Loaded into 20' container, Hauled to Port, AML Marine Trans to Seattle, Hauled From Port to Rail, Rail to WM Hazardous Waste Facility in Arlington, OR.

Quotes

- Disposal/Recycling Facility
- Packaging and Loading

- Transportation
 - 1. Trucking (Certified for AML Transport)
 - 2. Marine Barge
 - 3. Rail

Disposal/Treatment Facility Quote

- PRICE SCHEDULE
- LP01
- Loose Packs (paint and paint related materials, flammable) crushable for fuels, no resins, adhesives
- \$1,413.00 Ydbox
- LP03
- Loose Packs (latex, water based items (pH3-11) for solidification and landfill
- \$462.00 Ydbox
- Code / Description Price Unit Minimum
- BCONT2N \$10,040.00 Per load
- 20' Intermodal Non-Hazardous Transportation
- BCONT2H \$18,330.00 Per load
- 20' Intermodal Hazardous Transportation
- A wastewater management fee, currently at 4.75% will be applied to the core disposal charge.
- \$5/ton Oregon DEQ fee.
- \$85.00 profile fee charged to each profile submitted

Profiles and Regulatory Compliance

- Preparing Hazardous Waste Facility Required Profiles
 - 1. Manufacturer SDS Sheets, Field Testing, Laboratory Analytical Data
 - 2. Chemical and Physical Characteristics
 - Hazardous or Non-Hazardous Determination
 - 4. Federal and State Regulations and Codes
- Regulatory Compliance
 - 1. Hazardous Class Determination-Flammable Class 3
 - Handling, Packaging, Labeling, Shipping, Disposal and Manifesting Requirements

Oil Base Paint Profile



EZ Profile™

| □ Multiple Generator Locations (Attach Locations) □ Request Certificate | e of Disposal Renewal? Original Profile Number: |
|---|---|
| A. GENERATOR INFORMATION (MATERIAL ORIGIN) 1. Generator Name: City of Dillingham | B. BILLING INFORMATION 1. Billing Name: Curyung Tribe-IGAP |
| 2. Generator Site Address: 141 Main St. | 2 Billing Address: 715 Seward St. |
| (City, State, ZIP) Dillingham AK 99576 | (City, State, ZIP) Dillingham AK 99576 |
| 3. County: Dillingham | 3. Contact Name: Desi Bond |
| 4. Contact Name: Patti Buholm | 4. Email: environmental@curyung.com |
| 5. Email: planner@dillinghamak.us | 5. Phone: (907) 842-2384 6. Fax: |
| 6. Phone: (907) 842-3785 7. Fax: | 7. P.O. Number: |
| 11.400 | 8. Payment Method: ☑ Credit Account □ Cash □ Credit Card at Gate |
| | |
| 9. State ID: ☑ N/A | D. REGULATORY INFORMATION 1. EPA Hazardous Waste? |
| C. MATERIAL INFORMATION | 1. EPA Hazardous Waste? ☐ Yes* ☑ No |
| 1. Common Name: Paint Related Material | 2. State Hazardous Waste? ☑ Yes □ No |
| Describe Process(es) Generating Material: ☐ See Attached | Code:X008 |
| collected from households | Is this material non-hazardous due to Treatment, ☐ Yes* ☐ No Delisting, or an Exclusion? |
| | Contains Underlying Hazardous Constituents? ☐ Yes* ☑ No |
| | Does the material contain benzene? ✓ Yes* □ No |
| 2 Material Communities and Conteminants | Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ✓ No |
| 2. Material Composition and Contaminants: See Attached | CERCLA or State-mandated clean-up? Yes* ✓ No |
| 1. oil base paint/paint related material 100 % | 8. NRC, State-regulated, NORM or TENORM waste? ☐ Yes* ☑ No |
| 2. | *If Yes, see Addendum (page 2) for additional questions and space |
| 4. | 9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes 📝 No |
| Total comp. must be equal to or greater than 100% ≥100% | a. Regulated by 40 CFR 761? ☐ Yes ☐ No |
| 3. State Waste Codes: X008 | b. Remediation under 40 CFR 761.61? ☐ Yes ☐ No |
| 4. Color: varies | c. Were PCBs imported into the US? ☐ Yes ☐ No |
| 5. Physical State at 70°F: ☐ Solid ☑ Liquid ☐ Other: | 10. Regulated and/or Untreated ☐ Yes ☑ No |
| 6. Free Liquid Range Percentage: 0 to 100 N/A | Medical/Infectious Waste? |
| 7. pH:7 to 9 | 11. Contains Asbestos? |
| 8. Strong Odor: Yes No Describe: chemical-VOC | → If Yes: □ Non-Friable □ Non-Friable - Regulated □ Friable 12. Contains Dioxins? (If Yes, please attach analysis) □ Yes ☑ No ■ Yes ☑ Non-Friable □ Yes ☑ Yes |
| 9. Flash Point: ॼ <140°F □ 140°-199°F □ ≥200° □ N/A | F. SHIPPING AND DOT INFORMATION |
| 9. Flash Politi. 3 2140 F 3 140 -199 F 3 2200 3 N/A | |
| E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION | |
| 1. Analytical attached ☐ Yes | □ Tons |
| Please identify Lab Report(s) and list specific representative Sample ID#s: | Container Type and Size: original containers packed in boxes |
| | USDOT Proper Shipping Name WA Usbot Proper Shipping Name WA Usbot Print Relate Matterial, including Punt Thening, priving, Removing, or Reducing CoMPOUND MIXTURE, 3, Pol. (of Bene-Paint and Paint Related Martrid |
| | 5. Estimated Start Date 09/28/2023 |
| 2. Other information attached (such as SDS)? | 6. Transportation Needed? |
| G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY | SIGNATURE) |
| By signing this Waste Management ("WM") Profile, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that a | |
| elevant information necessary for proper material characterization and to identify known and | d Title Coordinator |
| erevails illicities and the control of the control | |
| epresonaure as unined in 40 CFR 201. Appendix 1 or by using an equivalent method. All change occurring in the character of the material (i.e., changes in the process or new analytical) will be | Date: 09/22/2023 |
| occurring in the character of the material (i.e., changes in the process or new analytical) will be dentified by the Generator and be disclosed to WMP prior to providing the material to WM. I am awan hat there are significant penalties for knowingly submitting false information. | Certification Signature |
| I am authorized to sign on behalf of the Generator and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are | Deal James |
| accurate and complete. I am a duly authorized employee of Generator holding a position of technical responsibility with direct knowledge of the waste stream and the information contained in this profile, and I confirm that information contained in this profile, as well as supporting documents are | |

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Revised February 20, 2023 @ 2023 WM Intellectual Property Holdings, L.L.C.

Hazardous Waste Manifest

| se print or type. | PHO 10 TV | | | | | | | | 4. Manifest | | | . OMS No. | 2050-0 |
|---|--|---|--|--|--|--|--|--|--|-----------------------------|-------------------------------|--------------------|-----------------|
| UNIFORM HAZARI WASTE MANIFE | DODG | erator ID Number | | | | 3. Emergency | | | 1 01 | 7/11 | 243 | 33 F | =LI |
| 5. Generalor's Name a | | FXFME | T | | | Generator's S | ite Address | (if different th | an mailing addres | is) | | | |
| | F DILLIN | | | | | | | | | | | | |
| 141 MA | AIN ST | | | | | | | | | | | | |
| Generator S Phone N | GHAM | AK.E | 9576 | | | | | | | | | | |
| Transporter 1 Comp. | pany Name | 07)842 371 | 60 | | | | | | U.S. EPA ID | Number | | | |
| | | NE LINES | 100 | | | | 9. | | 100 | | 991281 | 808 | |
| 7. Transporter 2 Comp | pany Name | The second | | | | | -83 | | U.S. EPA ID I | | | | |
| IVNE | YEN TRAN | SPORT | | | | | | | U.S. EPA ID | AKD | 000504 | 157 | |
| 8. Designated Facility | Name and Site A | vidress | 1 | | | | | | U.S. EPAID | Number | | | |
| Facility's Photos 3 | VI5/L-26/13 | | CHEMICAL 17629 CEC ARLINGTO | AR SPR | MANAGEN INGS LANI 1812-9709 | MENT, IN | VC. | | 1_ | ORD | 099452 | 353 | |
| | | | ping Name, Hazan | d Class, ID Num | nber, | | 10. Conta | iners | 11. Total | 12. Unit | 13 | . Waste Cod | ies |
| | Group (if any)) | | | | | | No. | Type | Quantity | WL/Vol. | 1 | | - |
| 1. LINIAGE | 3 PAINT | INCLUDE | NG PAINT | LACQUE | ER, ENAME | a. 1 | | | 2000 | - | | | |
| | | | IONS, VAF | | OLISH, | 90.000.00 | 4 | CF | 3200 | P | | wass | |
| | FILER | | | | OR356 | 3612 | 1112 | 1 | - | - | + | X008 | + |
| 2 MATE | RIAL NOT | | TED BY U | .S. DOT | | | 12 | CF | 9600 | P | X004 | | |
| (LATE | X PAINT) | | | | | 2047 | | 1 | | | 1 | | |
| | | | | | OR358 | 5017 | | | | | 1 | | 1 |
| 3. | | | | | | | | | | 1 | 100/20 | | |
| | | | | | | | | | | | | | |
| - | -12-17-1 | 140-8- | | | | | | - | - | + | + | 1 | |
| 4. | | | | | | | | | | | 1 | 11 | |
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| | | | elion C CCN241 | 117 | | | CONT | AINER # | <u> </u> | 203716 | 33 | | |
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Segregation of Oil Base and Latex Paints

Packaging Paint





Paint Packages Labeling and Loading



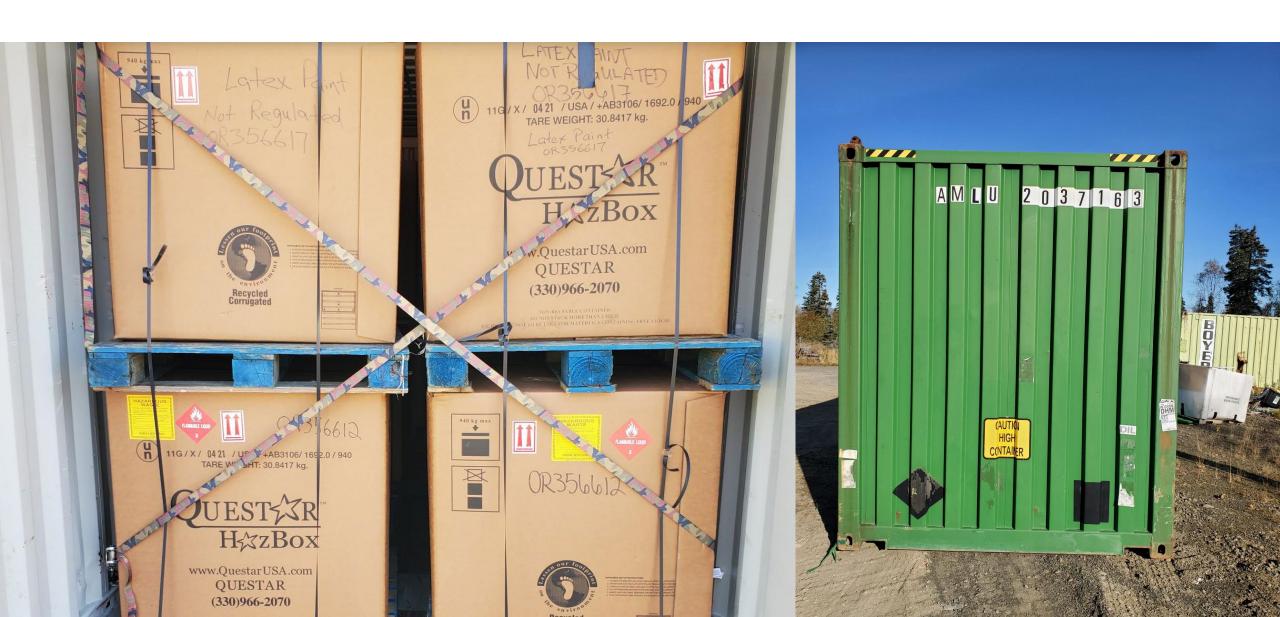


Loading Cubic Yard Boxes of Paint into 20' Container





Secured Load For Transport



Logistics Tracking and Invoicing

- Haul from Dillingham Landfill to Dock
- Book, Track, and Coordinate AML Pick-up
- Track AML Voyage to Seattle and Schedule Trucking to Railyard
- Track Arrival at Landfill
- Disposal Certificate, Final Manifest documentation
- Invoicing
 - 1. AML Invoice Approximately \$5,700 (Barge Transportation)
 - 2. WM Invoice Approximately \$13,000 (Rail Transport and Disposal/Recycling)
 - 3. Zender was In Kind (Covered by Government Grants)

Issues and Concerns to Consider

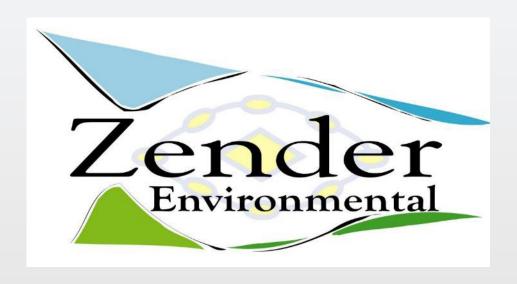
- Voyages from Alaska to Seattle Require a Canadian Transport Notice if Hazardous Waste is Shipped within their Waters
- Asbestos can be Present in most Building Materials Except Wood, Metal, and Glass (Highly Likely prior to 1987 and Likely 1987-1990)
- Hazardous Waste Shipping-EPA Generator, Shipper and Disposal ID Numbers, Manifest, Profile, Disposal, Costs, Handling, Labeling, Packaging, Storage and Shipping Regulations
- Proper PPE, Spill Prevention and Emergency Response, Health and Safety Plans, Appropriate Training Certifications (40-Hour Hazwoper with the required Environmental Professional Oversight)
- Compatibility of Waste Streams Shipping
- Large, Small, Very Small Generator, or Exempt Classification
- Environmental Consulting Company for Sampling, Testing, Packaging, Shipping
- Emergency Contact Number for Manifest-ChemTrec

Backhaul Alaska

Building a Self-Sustaining Waste Removal Program for Rural Alaska



Questions & Further Information



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