



# Visual Waste Index

ADEC Solid Waste Program





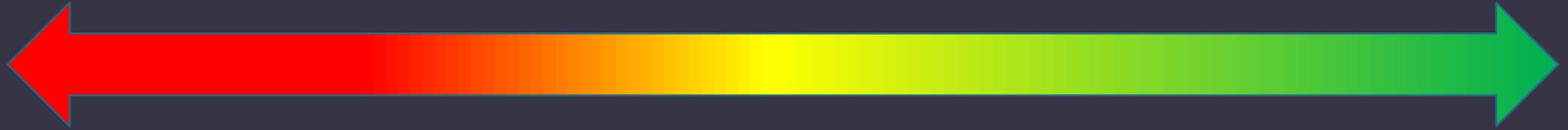
# VISUAL WASTE INDEX

By: Trisha Bower and Stephen Price

## Community Waste Management Index

Special Waste Management								COMMENTS	Score
#	Category	0	1	2	3	4	5		
6	Salvage Area	Public salvaging, if allowed, must be limited to an area that does not hinder facility operation, create a safety hazard, or cause pollution. 18 AAC 60.220							
		Uncontrolled salvaging allowed at working face	Salvaging at working face only when operator present	Separate salvage area, no apparent organization or management	Separate salvage area, some organization or management.	Salvage area has defined locations for different items, fluids are drained or contained (liner), operated safely	Salvage area managed well (see 4), items removed for disposal or backhaul regularly - signs posted		
7	Used Oil	Separating used oil out of the waste disposed at the landfill will help keep petroleum products out of the landfill and the environment, and can be reused as an energy resource for the community.							
		Used oil not managed - disposed at the landfill	Some used oil collected, not stored safely, no plan for disposal or energy recovery	Some used oil collected, not stored safely, burned without energy recovery	Used oil collected, stored safely. Burned without energy recovery	Used oil collected and safely stored. Burned for energy recovery or shipped out	Enforcement of used oil collection and safe storage. Burned for energy recovery in an EPA approved unit or shipped out		
8	Vehicles	Vehicles may not be disposed at the landfill unless all fluids and batteries have been removed. If undrained vehicles are stored at the landfill for later disposal or recycling, they must be managed to prevent release of fluids. 18 AAC 60.035, 18 AAC 60.010							
		Uncontrolled disposal - Vehicles disposed in landfill, fluids & batteries not removed	Vehicles stored in separate area of landfill, no fluids or batteries removed. No containment for leaks. No plans for disposal or recycling	Vehicles stored in separate area of landfill, some fluids or batteries removed. No containment for leaks. Plans for disposal or recycling	Vehicles stored in separate area of landfill, some fluids or batteries removed. Containment for leaks. Plans for disposal or recycling	All batteries and fluids removed prior to proper disposal or recycling	Operator verifies ALL batteries and fluids removed prior to proper disposal or recycling		
9	Freezers & Refrigerators CFCs	Chlorofluorocarbon (CFCs) must be removed from appliances by a certified technician with certified equipment prior to disposal at any landfill. No CFCs may be vented to the environment. 40 CFR 81.154-162							
		Disposed of with general waste, CFCs intentionally vented to the environment	Disposed of with general waste, no CFCs removed	Some units segregated, no CFCs removed and no plan	Some units segregated, some CFCs removed but no document	Units segregated, CFCs sporadically removed	Units segregated, CFCs removed		

# Landfill Inspection Scoring



0% - 100%

The higher the inspection score, the more protective the landfill is being of human health and the environment

The lower the inspection score, the less protective the landfill is being of human health and the environment

# Landfill Site Control

- Landfill Road Maintenance
- Signage
- Access Control

## Landfill Road Maintenance

Landfill access and onsite roads under the operator's control must be kept passable and safe for vehicles during normal hours of operation. 18 AAC 60.220

Landfill not accessible for more than one month per year

Landfill usually accessible, roads barely passable, history of being inaccessible for more than one month

Landfill generally accessible year round, history of being inaccessible for less than one month

Landfill generally accessible year round, history of minor problems

Landfill accessible year round, roads to and in landfill occasionally maintained

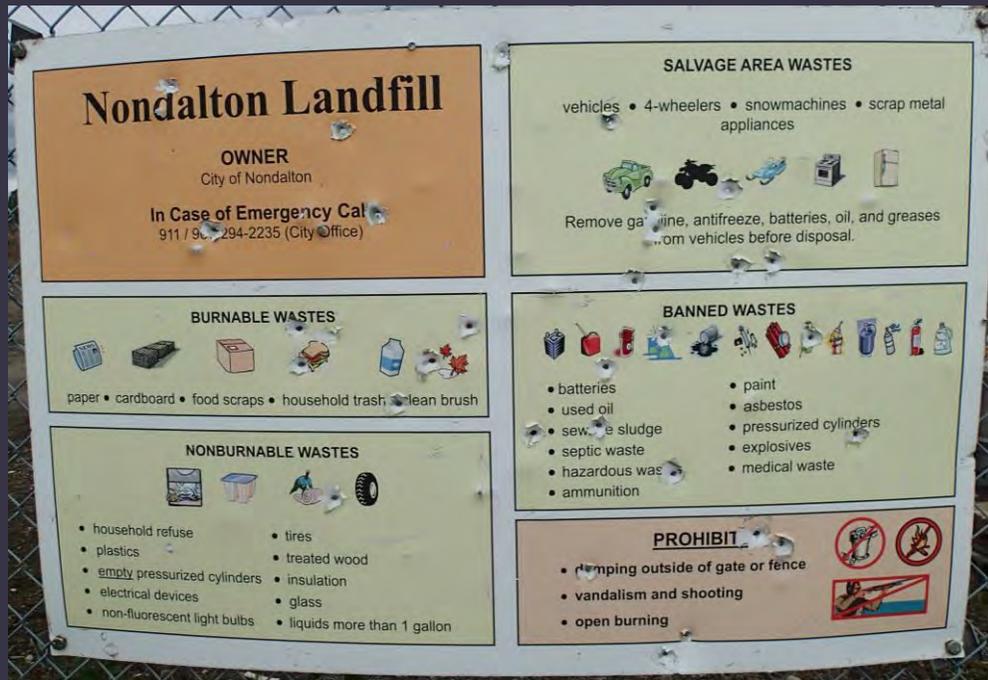
landfill accessible year round, roads to and in landfill actively maintained



## Signage

A clearly legible sign must be posted at the entrance to the landfill. The sign must prohibit disposal of regulated hazardous waste and polychlorinated biphenyl (PCB) waste. Signs should identify the owner or operator, hours of operation, and emergency contacts. Signs should also direct users where to dispose of special wastes. 18 AAC 60.240

0	1	2	3	4	5
No signs at the landfill	Signs in poor condition, unreadable	Basic information on where to dump waste and/or entrance sign	Basic information on where to dump waste and list of prohibited waste and/or entrance sign	Information on where to dump waste, list of prohibited waste, entrance sign, and burning instructions (if applicable)	Detailed information on where to dump waste, list of prohibited waste, complete entrance sign, burning instructions (if applicable), and alternative disposal methods



## Golovin Municipal Class III Landfill

Prohibited Disposal - Regulated Hazardous Waste, Polychlorinated Biphenyl (PCB) Waste, Honey Buckets or Grey Water

**Discharge of Fire Arms Is Prohibited**

IF NOT REUSABLE, ALL PIPE MUST BE 4' OR LESS

**OWNER/OPERATOR: City of Golovin**  
**EMERGENCY CONTACT- HEALTH CLINIC**  
**VILLAGE PUBLIC SAFETY OFFICER**  
**TRIBAL EPA**

**779-3211/779-2371**  
**907-779-3311**  
**907-779-3911**  
**907-779-2005**

**SPECIAL WASTES 18 AAC.60.240**

**TRIBAL EPA 907-779-2005**

HOUSEHOLD BATTERIES  
CFL (COMPACT FLOURSCENT BULBS)  
UNBURNABLE PLASTIC (BAGGED)  
ALL ELECTRONIC WASTE

### **SALVAGE YARD**

WHITE GOODS (FREEZER & REFRIGERATOR DOORS REMOVED & CLEAN UNITS)  
METAL TRUCKS  
SNOW MACHINES GRILLS  
BIKES BOAT MOTORS, ECT.

### **CITY GARAGE**

4' FLOURSCENT BULBS  
USED OIL  
USED ANTI-FREEZE  
LEAD ACID BATTERIES



09.30.2016 11:07

## CITY OF SHAKTOOLIK

MUNICIPAL SOLID WASTE LANDFILL  
SOLID WASTE PERMIT NO. SW3A109-18

**EMERGENCY PHONE NUMBER**  
**PUBLIC WORKS 955-3701**

OWNED BY CITY OF SHAKTOOLIK  
OPERATED BY SHAKTOOLIK I.G.A.P.

### ITEMS PROHIBITED FROM DISPOSAL IN THIS LANDFILL

ACIDS	MEDICAL WASTES	GASOLINE
CORROSIVES	BATTERIES	DIESEL
OILY WASTES	RADIOACTIVE WASTE	USED OIL
EXPLOSIVES	ASBESTOS	GLYCOL
FREON CONTAINING APPLIANCES	OTHER MATERIALS DEFINED AS HAZARDOUS BY ADEC	SOLVENTS

Please drop off these items at the Shaktoolik I.G.A.P.

09.27.2016 11:14



09.28.2017 12:52



09.25.2017 15:11

# New Landfill Sign Order

## PROHIBITED WASTES

Waste Oil	PCB's
Bulk Liquids	Antifreeze
Medical Waste	Explosives
Hazardous Material	Paint / Solvents
Commercial Construction Waste	Asbestos
	Polluted Soils

## CHALKYITSAK LANDFILL

Operated By Chalkyitsak Village Council

## MUNICIPAL SOLID WASTE ONLY

Emergency Contact: IGAP or Chief  
848-8117

## PLEASE TAKE THE FOLLOWING ITEMS TO THE RECYCLING CENTER

Lead-Acid Batteries	Used Oil
Household Batteries	Electronics
Fluorescent Lights	Liquids & Chemicals

**Thank You For Keeping Our Community Clean For The Future**

## DO NOT INCINERATE (BURN)

Aerosol Cans (Hair Spray, Spray Paint, etc.)  
Pressurized Cylinders  
Household, Boat, or ATV Batteries  
Highly Flammable Liquids  
Explosives (Unused Ammunition Or Fireworks)  
Rubber and Plastic Products

**In General Do Not Incinerate Any Items That May Create Black Smoke**

.080" X 24" X 48" Aluminum White Reflective Signs With Green Hp Vinyl Graphics.  
\$295.00 each x 4 = \$1180.00.

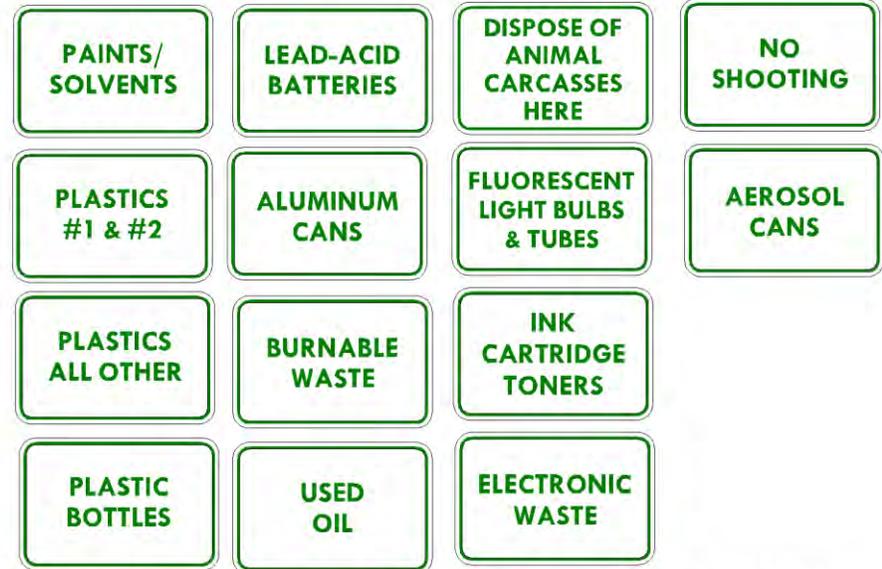


EMAIL: [vital-signs2010@live.com](mailto:vital-signs2010@live.com)  
MAILING: P.O. Box 61077  
Fairbanks, Alaska 99706  
SHIPPING: 1 Mile Dale Road  
Fairbanks, Alaska 99709  
PHONE: 907 479-7999  
FAX: 907 456-6797

SKETCH FOR:

**Patricia Salmon**  
**Chalkyitsak Village Council**  
**12 Sept.**

©2016 VITAL SIGNS, INC.



.080" X 12" X 18" Aluminum White Baked Enamel Signs With Green Hp Vinyl Graphics.  
\$70.00 each x 14 = \$980.00.



EMAIL: [vital-signs2010@live.com](mailto:vital-signs2010@live.com)  
MAILING: P.O. Box 61077  
Fairbanks, Alaska 99706  
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FAX: 907 456-6797

SKETCH FOR:

**Patricia Salmon**  
**Chalkyitsak Village Council**  
**12 Sept.**

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## Access Control

Access to the landfill facility must be limited by the use of fencing, berms, or natural barriers to control public access to the site. This should prevent unauthorized traffic or dumping. 18 AAC 60.220

No fence/barriers,  
open access,  
no restrictions

Barriers in poor  
condition,  
open access

Barriers in repairable  
condition,  
open access

Functional barriers,  
but open gates,  
open access

Functional barriers,  
locking gate,  
restricted hours

Functional  
barriers, locking  
gates, restricted  
hours, monitored





**HOURS OF OPERATION**  
**Tuesday & Friday**  
**9:00 am – 5:00 pm (Closed 12:00 – 1:00 pm)**

# Burning

- Waste Separation
- Burn Management
- Burn Unit Used

## Waste Separation

Burning of plastics, asphalts, rubber, tars, oily wastes, or other materials in a way that gives off black smoke is prohibited. 18 AAC 50.065(b)

No separation waste

Minimal separation of waste

Some separation of waste

Most wastes separated

Most wastes separated, separated waste properly disposed

All wastes separated & strictly monitored, all separated waste properly disposed



**Waste Separation**

Burning of plastics, asphalts, rubber, tars, oily wastes, or other materials in a way that gives off black smoke is prohibited. 18 AAC 50.065(b)

No separation waste

Minimal separation of waste

Some separation of waste

Most wastes separated

Most wastes separated, separated waste properly disposed

All wastes separated & strictly monitored, all separated waste properly disposed



## Burn Management

Burning must be contained and controlled and managed to minimize adverse environmental effects and limit the amount of smoke generated. 18 AAC 60.233, 18 AAC 60.355, 18 AAC 50.065(b)

No management of burning - evidence of large fires throughout the landfill

No burn management - evidence of small fires in the landfill

Burn unit or trench loaded by users, lit by users

Burn unit or trench loaded by users, lit by operator

Burn unit loaded and lit only by operator in appropriate weather

Complete management: waste kept dry; burn unit loaded, lit & monitored only by operator in appropriate weather



Complete management: waste kept dry;  
burn unit loaded, lit & monitored only by  
operator in appropriate weather



**Burn Unit Type**

Uncontained burning of municipal waste on the ground is not allowed at Class III landfills. Burning may be conducted in a burn box, burn cage, or other device where burning is contained and controlled. 18 AAC 60.233, 18 AAC 60.355

No burn unit

Burn unit onsite - limited functionality or use.

Functioning burn box or burning in a trench

Burn cage

Enclosed burn unit with smoke stack

Incinerator



Uncontained burning of municipal waste on the ground is not allowed at Class III landfills. Burning may be conducted in a burn box, burn cage, or other device where burning is contained and controlled. 18 AAC 60.233, 18 AAC 60.355

**Burn Unit Type**

No burn unit	Burn unit onsite - limited functionality or use.	Functioning burn box or burning in a trench	Burn cage	Enclosed burn unit with smoke stack	Incinerator
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# Landfill Operations

- Operator
- Equipment
- Working Face
- Compaction
- Cover
- Slopes & Grading
- Vector & Nuisance Control
- Litter
- Maintenance & Corrective Action
- Inactive Areas

## Operator

An operator is one of three elements for a successful landfill program. RALO

No operator

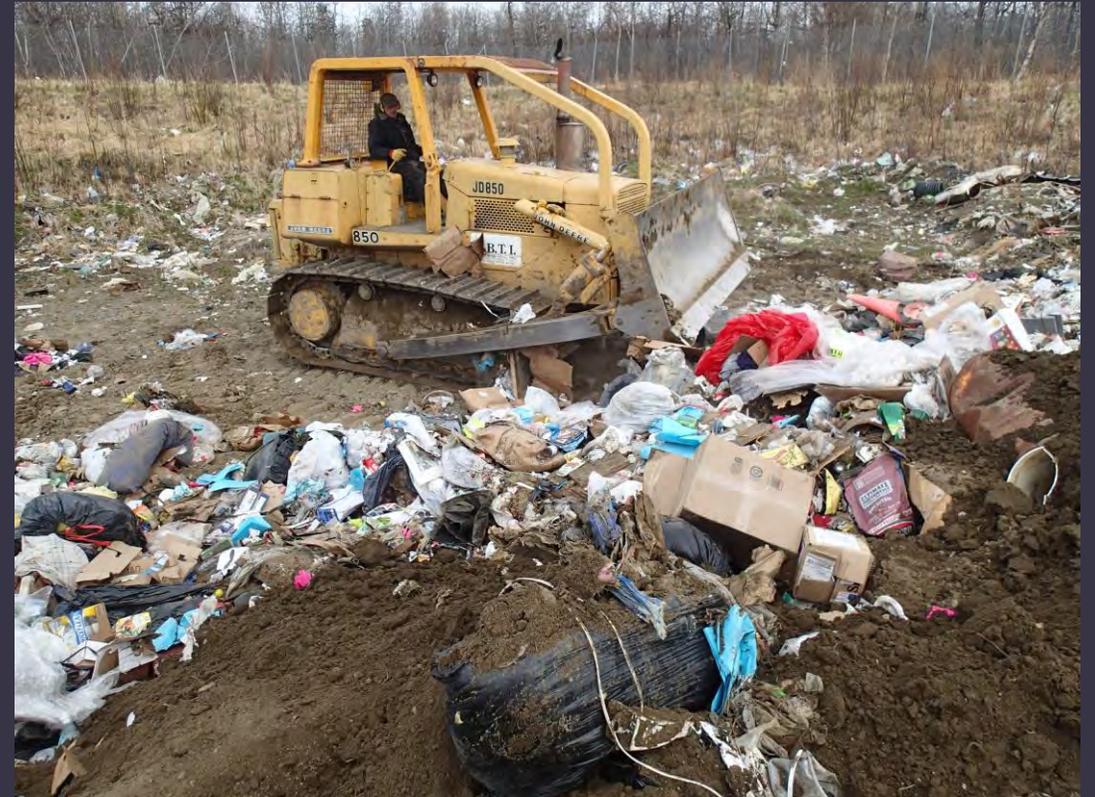
Managed as  
emergency only

Managed  
periodically

Managed  
periodically by  
assigned personnel

Operator assigned  
to landfill, not  
allocated enough  
hours

Operator  
assigned to  
landfill,  
allocated  
enough hours





The Golovin landfill was the highest scoring rural landfill in 2016. Golovin also scored higher than some of the large municipal landfills in Alaska, and this is not an insignificant achievement. Golovin is very fortunate to have one of the best Landfill Managers in the State of Alaska, Peter Olson, who has over 30 years of experience in solid waste management.



	2014	2014	2016	2016
	Points/Possible	Percentage	Points/Possible	Percentage
Landfill Site Control	12/15	80	15/15	100
Burning	11/15	73	14/15	93
Landfill Operations	49/50	98	50/50	100
Landfill Water Impacts	15/15	100	15/15	100
Special Waste Management	30/30	100	50/50	100
Administration	16/20	80	19/20	95
<b>Total</b>	<b>133/145</b>	<b>92%</b>	<b>163/165</b>	<b>99</b>

## Equipment

Properly sized and maintained equipment is one of three elements for a successful landfill program. RALO

No equipment

Broken but  
reparable  
equipment

Equipment  
borrowed -  
emergency only

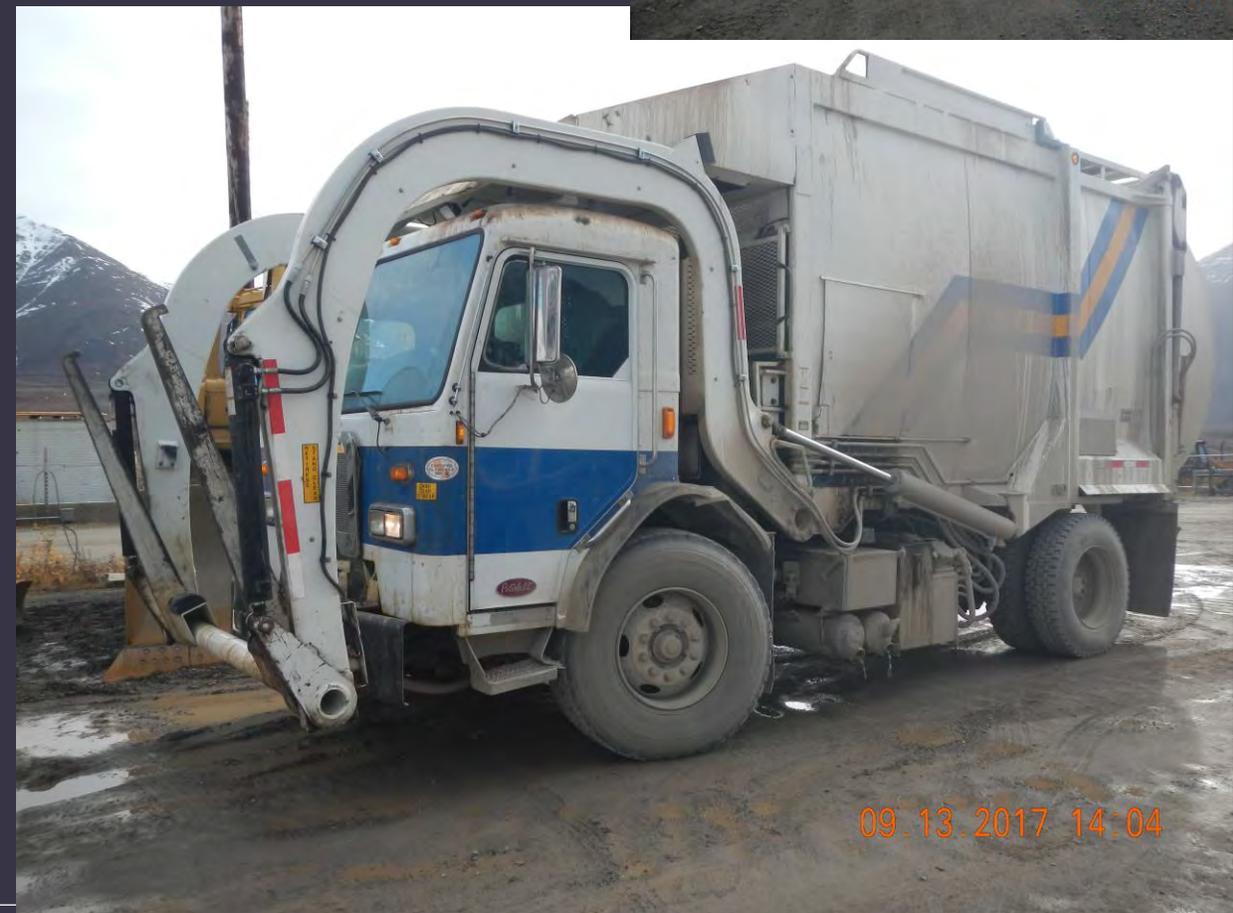
Equipment  
borrowed - regular  
schedule

Dedicated landfill  
equipment - not  
properly stored or  
maintained

Dedicated  
landfill  
equipment -  
properly stored  
& maintained



# Maintained



## Working Face

The working face must be kept as small as practical. 18 AAC 60.345

No designated working face, waste spread over entire landfill	Some attempt to keep waste to an specific area	Waste mostly in one area of the landfill	Dumping area identified, most waste limited to large dumping area	Dumping area identified, most waste limited to reasonably sized dumping area	Clearly identified dumping area, working face kept as small as practical
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# Working Face



# Working Face



## Compaction

Compaction of waste will reduce the volume and extend the useable life of the landfill, and will reduce infiltration of water that can create leachate.

No effort to compact waste, uncontrolled waste	No effort to compact waste, equipment available	Compaction of waste, with poor results	Compaction of waste 1 - 4 times per year	Compaction of waste more than 4 times per year	Compaction of waste more than 4 times per year with 4-6 passes of large tracked vehicle, waste is well compacted
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Compaction of waste more than 4 times per year

Compaction of waste more than 4 times per year with 4-6 passes of large tracked vehicle, waste is well compacted





Consolidation, Compaction and  
Cover

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Compaction of waste, with poor results

Compaction of waste  
1 - 4 times per year

Compaction of waste more than 4 times per year

Compaction of waste more than 4 times per year with 4-6 passes of large tracked vehicle, waste is well compacted



**Cover**

Waste must be covered by 6 inches of soil or an approved alternative cover as necessary to control disease vectors, fire, odor, blowing litter, and scavenging. 18 AAC 60.345

No cover applied, no cover available

No cover applied, cover available

Cover applied periodically, does not control issues, not stockpiled at landfill

Cover applied periodically, does not control issues, stockpiled at landfill

Cover applied as needed to control issues, cover not stockpiled at landfill

Cover applied as needed to control issues, cover stockpiled at landfill



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Cover applied periodically, does not control issues, stockpiled at landfill

Cover applied as needed to control issues, cover not stockpiled at landfill

Cover applied as needed to control issues, cover stockpiled at landfill



Approximate area where the red dumpster was in 2016.

## Slopes & Grading

The landfill should be graded and sloped to preserve the stability of the landfill and reduce ponding and erosion. 18 AAC 60.390, 18 AAC 60.243

Slopes unstable and ponds at the landfill, no efforts to correct

Slopes unstable and ponds at the landfill, some efforts to correct

Minor issues with instability, ponding, or erosion, no efforts to grade landfill

Minor issues with instability, ponding, or erosion, some efforts to grade landfill

Landfill graded, no ponding, erosion, or instability evident, inadequate run-on or run-off controls

Landfill actively graded to ensure stability, protect from erosion, prevent run-on, and promote run-off of storm or surface water



# Another Engineered Drainage System



**Vector & Nuisance Control**

Dust, odor, noise, traffic, other effects from the landfill, and disease vectors, including wildlife and domestic animals, must be controlled so that the public health, safety, or welfare are not endangered or they create a nuisance. 18 AAC 60.230, 18 AAC 60.233

Waste exposed to elements - flies, animals, humans, and vehicles track through waste	Few issues controlled, vector or health issues, and nuisance issues present	Some issues controlled, minor vector or health issues, and nuisance issues present	Most issues controlled, minor nuisance issues present	Issues controlled - public allowed in landfill	Issues controlled - only operator allowed in landfill
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Issues controlled – only operator allowed in the landfill



# What it's Not



Litter must be controlled so that it does not become a nuisance or hazard. 18 AAC 60.233, 18 AAC 60.345

**Litter (in and around landfill)**

Litter everywhere, no clean-up efforts

Annual litter clean-up, litter uncontrolled rest of the year

Litter issues, picked up intermittently throughout the year

Some litter issues, litter picked up regularly

No litter issues, litter picked up as needed

No litter issues, operator picks up litter as needed



Litter must be controlled so that it does not become a nuisance or hazard. 18 AAC 60.233, 18 AAC 60.345

**Litter (in and around landfill)**

Litter everywhere, no clean-up efforts

Annual litter clean-up, litter uncontrolled rest of the year

Litter issues, picked up intermittently throughout the year

Some litter issues, litter picked up regularly

No litter issues, litter picked up as needed

No litter issues, operator picks up litter as needed



**Maintenance & Corrective Action**

The landfill must maintain structures and components of the facility, and repair any structural changes or damage to the facility.  
18 AAC 60.815

Significant damage that may impact health, safety or the environment, no plan for corrective action

Significant damage that may impact health, safety or the environment, corrective action planned

Significant damage that may impact health, safety or the environment, corrective action underway

Minor damage at the facility, no plan for corrective action

Minor damage at the facility, corrective action planned

No structural damage

2014

08.25.2014

2015 Fence Repairs-  
New Fence



# 2017- Still Up 😊 Now No Structural Damage



# Corrective Action of Structural Damage



2013



2014



2016



2016



## Inactive Areas

Areas that have not received waste for more than 90 days, but have not yet reached the final capacity or elevation, must receive an intermediate cover. The area must be covered with 12 inches of soil and graded to prevent ponding and erosion. 18 AAC 60.243 Note, this is not closure. If an area is closed or should be under a closure plan, it should have 24" of soil cover and be revegetated.

No distinction between active & inactive areas

Inactive area separate from working face - uncovered

Inactive areas separate from working face - partially covered

Inactive areas separate from working face - covered with less than 12"

Inactive areas separate from working face - fully covered with 12", not graded to prevent ponding or erosion

Inactive areas separate from working face - fully covered with 12", graded to prevent ponding and erosion





Cleared area being prepared. This is Cell 3. Cell 2 will be closed and used for salvage area. It is not as large as Cell 2, so Cell 3 cannot accommodate all the components of the Elim landfill. Cell 2 will not be revegetated because it will continue to be an active part of the facility, just not for waste disposal.

Separately Fenced Cell 2- almost full

Separately Fenced Honeybucket/Septage Trench

Cell 1- Closed

Image © 2016 DigitalGlobe  
Image © 2016 TerraMetrics

Google earth

Imagery Date: 6/13/2012 64°38'47.70" N 162°13'12.87" W elev 145 ft eye alt 3415 ft

2005

# Landfill Water Impacts

- Leachate
- Surface & Storm Water Controls
- Impact to Permafrost or Wetlands
- Water Monitoring (If Required)

Leachate	Leachate means liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from the wastes. Leachate seeps must be prevented, or contained and controlled. 18 AAC 60.225					
Surface & Storm Water Controls	Leachate seeps present, no effort to contain or control	Leachate seeps present, some effort to contain or control	No leachate seeps observed, conditions likely to cause leachate, no effort to contain leachate	No leachate seeps observed, conditions likely to cause leachate, some effort to contain leachate	No leachate seeps observed, conditions likely to cause leachate, efforts to contain and prevent leachate	No leachate seeps observed, efforts in place to prevent leachate
Impact to Permafrost or Wetlands (only for facilities built on permafrost or wetlands)	A landfill must be constructed and operated so that seasonal flooding is temporary in duration. Waste may not be placed in surface water. The landfill must minimize contact between stormwater and waste. Poned water must be removed within 30 days. 18 AAC 60.225					
	Waste disposed into water body	Waste in contact with water regularly, no surface and storm water controls	Waste in contact with water, some surface and storm water controls, not effective	Some waste in contact with water, surface and storm water controls, ponding not removed within 30 days	Evidence of waste in water or ponding at the landfill, surface and storm water controls, ponding removed within 30 days	No evidence of waste in water or ponding at the landfill, berms, ditches and other controls are in place and are effective
	If the landfill is located on permafrost, it must be designed and operated so that the permafrost remains frozen. If the landfill settles and water is pooling, the operator must take corrective action. 18 AAC 60.227 If the landfill is located in or near a wetland, it may not cause or contribute to significant degradation of the wetlands. 18 AAC 60.315					
	Permafrost appears to be melting around landfill; or wetland plants around landfill are clearly impacted - no corrective action plan	Permafrost or wetlands impacted - corrective action plan under development	Permafrost or wetlands impacted - corrective action underway but no evidence of improvement	Permafrost or wetlands impacted - corrective action in place has shown improvement	No clear impacts to permafrost or wetlands, but some indicators (small ponds, leachate, etc.) present	No indicators or impact to permafrost or wetlands are evident

We've Seen Plenty Of Examples of What It's Not: What Does it Actually Look Like?















If the landfill is located on permafrost, it must be designed and operated so that the permafrost remains frozen. If the landfill settles and water is pooling, the operator must take corrective action. 18 AAC 60.227 If the landfill is located in or near a wetland, it may not cause or contribute to significant degradation of the wetlands. 18 AAC 60.315

**Impact to Permafrost or Wetlands** (only for facilities built on permafrost or wetlands)

Permafrost appears to be melting around landfill; or wetland plants around landfill are clearly impacted - no corrective action plan

Permafrost or wetlands impacted - corrective action plan under development

Permafrost or wetlands impacted - corrective action underway but no evidence of improvement

Permafrost or wetlands impacted - corrective action in place has shown improvement

No clear impacts to permafrost or wetlands, but some indicators (small ponds, leachate, etc.) present

No indicators or impact to permafrost or wetlands are evident

**Old Landfill**

**New Landfill**



Now That We Showed What It's Not- Here's a Reminder of What It Should Look Like 😊

# Special Waste Management

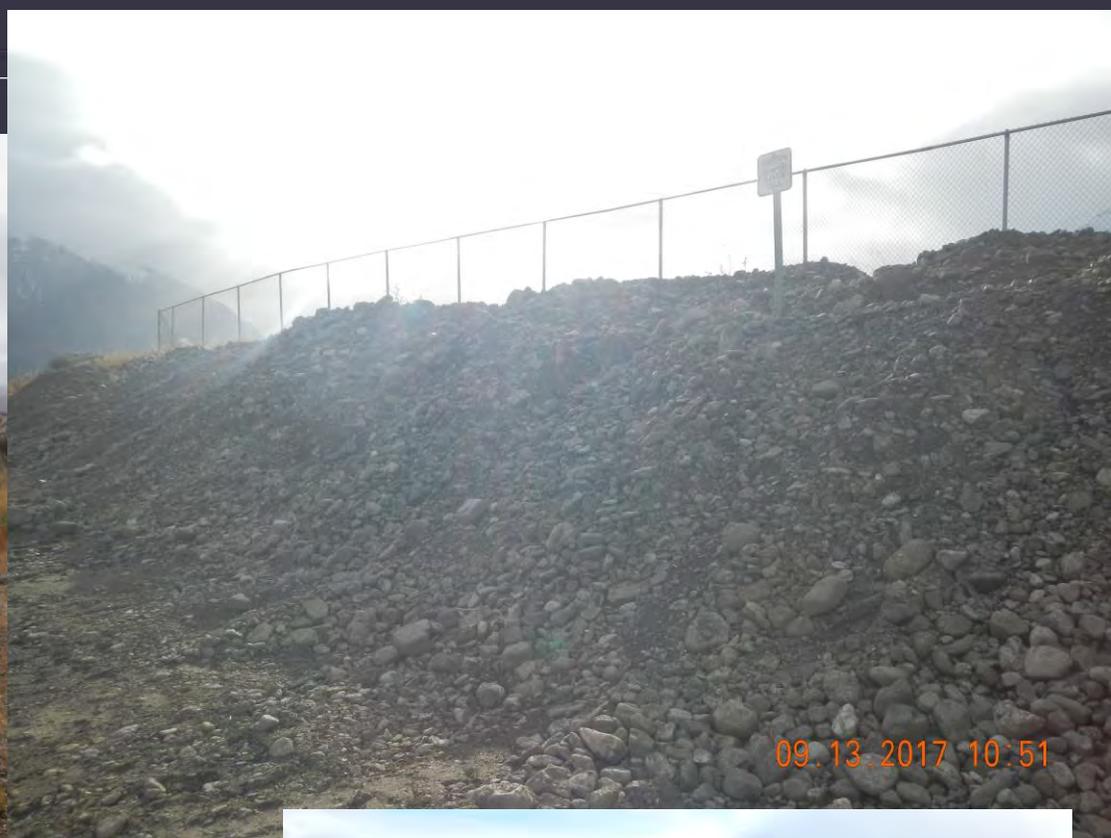
- Septage (Including Honeybucket Waste)
- Animal Carcasses including Subsistence Waste
- Household Hazardous Waste
- Liquid Waste
- Salvage Area
- Used Oil
- Vehicles
- Freezers & Refrigerators CFC's
- Lead Acid Batteries

**Septage including Honeybucket Waste**

The landfill may accept septage or honey bucket waste if it is deposited into separate trenches, less than 4' in depth, and the trench is maintained not to overflow. Hydrated lime must added to a pH of 12(30 min.) on a regular basis. 18 AAC 60.365

Septage co-mingled with MSW	Septage disposed in separate area of landfill	Septage in separate trench no lime added	Septage in properly constructed trench, lime added infrequently	Septage in properly constructed trench, lime added on a regular basis	Septage in properly constructed trench, lime added and pH tested
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**Household  
Hazardous Waste  
(HHW)**

Separating HHW out of the waste disposed at the landfill will help keep chemicals out of the landfill and reduce risks to human health and the environment. HHW can be reused within the community or shipped out for proper disposal.

No HHW separation	No HHW separation, regularly covered	HHW collection program available, accessible, but not well used	HHW collection program available, accessible, most HHW diverted from landfill	Clear options for HHW reuse or collection program, well run, most HHW diverted from landfill	Clear options for HHW reuse or collection program, well run, most HHW diverted from landfill, shipped out as needed
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**BEFORE AND AFTER CRUSHING  
EMPTY/EVAPORATED GALLON  
TIN FUEL CANS**



# Recycling Center



09.28.2017 12:52



PAINTS/ SOLVENTS	LEAD-ACID BATTERIES	DISPOSE OF ANIMAL CARCASSES HERE	NO SHOOTING
PLASTICS #1 & #2	ALUMINUM CANS	FLUORESCENT LIGHT BULBS & TUBES	AEROSOL CANS
PLASTICS ALL OTHER	BURNABLE WASTE	INK CARTRIDGE TONERS	
PLASTIC BOTTLES	USED OIL	ELECTRONIC WASTE	

.080" X 12" X 18" Aluminum White Baked Enamel Signs With Green Hp Vinyl Graphics.  
\$70.00 each x 14 = \$980.00.

09.07.2016 14:32

**Liquid Waste**

Liquid waste, including kitchen grease, may not be disposed at the landfill, with the exception of small quantities (1 gallon or less) of containerized waste. 18 AAC 60.360

Non-household liquids over 1 gallon containers disposed in landfill	Free liquids not prohibited, but limited to less than 1 gallon container	Free liquids prohibited at landfill, alternatives not well identified	Free liquids prohibited at landfill, alternatives identified, not well used	Free liquids prohibited at landfill, alternatives identified, generally used	Free liquids prohibited and enforced, alternatives identified, and widely used
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**Construction & Demolition Debris (C&D) non-RACM**

C&D is regulated based on local laws and ordinances. However, all construction projects should submit a building survey to ensure that all hazardous & asbestos waste are removed prior to disposal. Non-RACM waste must be handled so that it does not become friable and be covered within 24 hours without compaction to prevent the release of asbestos fibers. 18 AAC 60.450

<p>No controls for C&amp;D, indiscriminately disposed, no requirements for identifying or managing non-RACM</p>	<p>C&amp;D disposed at working face, no awareness or management of non-RACM</p>	<p>C&amp;D disposed at working face or separate cell, awareness of non-RACM, not covering</p>	<p>C&amp;D disposed at working face or in separate cell, not well managed - large pile. Aware of non-RACM, usually covered in 24 hours</p>	<p>C&amp;D well managed, not frequently compacted. Contractors required to identify non-RACM - not allowed or is properly managed and covered in 24 hours</p>	<p>C&amp;D well managed and compacted frequently - small pile. Contractors required to identify non-RACM - not allowed or is properly managed</p>
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# North Slope Borough PUBLIC WORK



## Application for Direct Landfill

### APPLICANT INFORMATION

Applicants Name: UIC CONSTRUCTION  
Company: UIC CONSTRUCTION (BRANDON NILES)  
Address: 6700 ARCTIC SPUR RD ANCHORAGE AK 99518  
Day Time Phone: 907-855-1400 Home Phone: 907-855-1400  
Vehicle Description: UIC SEMI & TRAILER  
License Plate Number: N/A

Approval of applications will be authorized only for the materials described below in the quantities shown. NSB Public Work will attempt to meet the requested schedule for delivery, however regularly scheduled operations and unexpected conditions may take precedence over the permitted delivery. Adverse weather conditions will delay receipt of wastes.

### WASTE INFORMATION

Project generating Waste: UIC 40 MAN CAMP  
Type of Material to be disposed of: ATCO MODULAR BLDG'S  
Volume of Material to be disposed: 8 MODULAR BLDG'S  
Requested Date and Time for disposal: 9/19/13 & 9/20/13

Delivery of wastes will be coordinated with NSB Public Work's personnel. No wastes will be delivered without NSB Public Work's landfill personnel present at the landfill. Wastes will be deposited in the active waste cell where directed by NSB Public Work's personnel.

The North Slope Borough does not assume responsibility for materials delivered to the landfill that are hazardous in nature. Costs associated with removal, proper disposal and landfill remediation shall be the sole burden of the parties involved in the infraction of the North Slope Borough Ordinances.

This application can only be signed by an authorized representative in direct understanding of wastes to be disposed and with the authority to obligate corporate assets for the purpose of remediation activities should hazardous waste be disposed

### CERTIFICATION

I have read and understand the North Slope Borough Barrow Landfill Zoning Permit and the above conditions for direct disposal of waste in the Barrow Landfill. I hereby certify that I have knowledge of the wastes, that either I or my designee will deliver to the landfill, and that no listed hazardous wastes will be hauled to the landfill for disposal. In addition, should hazardous wastes be delivered to the landfill, I understand the costs associated with this, as well as have the authority to mobilize labor, equipment, and materials needed to effect a complete remediation of the landfill, and shall accept all imposed fines related to this infraction.

BRANDON NILES  
Applicant Name  
BWZ  
Applicant Signature  
9/18/13  
Date

### APPLICATION REVIEW

APPLICATION APPROVED  
 APPLICATION REJECTED

REASON FOR REJECTION \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Robert L. Toalston  
Reviewer Name  
[Signature]  
Reviewer Signature  
9-18-13  
Date

## Salvage Area

Public salvaging, if allowed, must be limited to an area that does not hinder facility operation, create a safety hazard, or cause pollution. 18 AAC 60.220

Uncontrolled salvaging allowed at working face

Salvaging at working face only when operator present

Separate salvage area, no apparent organization or management

Separate salvage area, some organization or management.

Salvage area has defined locations for different items, fluids are drained or contained (liner), operated safely

Salvage area managed well (see 4), items removed for disposal or backhaul regularly - signs posted



## Salvage Area

Uncontrolled salvaging allowed at working face

Salvaging at working face only when operator present

Separate salvage area, no apparent organization or management

Separate salvage area, some organization or management.

Salvage area has defined locations for different items, fluids are drained or contained (liner), operated safely

Salvage area managed well (see 4), items removed for disposal or backhaul regularly - signs posted



## Used Oil

Separating used oil out of the waste disposed at the landfill will help keep petroleum products out of the landfill and the environment, and can be reused as an energy resource for the community.

Used oil not managed  
- disposed at the  
landfill

Some used oil  
collected, not stored  
safely, no plan for  
disposal or energy  
recovery

Some used oil  
collected, not stored  
safely, burned without  
energy recovery

Used oil collected,  
stored safely. Burned  
without energy  
recovery

Used oil collected  
and safely stored.  
Burned for energy  
recovery or shipped  
out

Enforcement of  
used oil  
collection and  
safe storage.  
Burned for  
energy recovery  
in an EPA  
approved unit or  
shipped out



## Vehicles

Vehicles may not be disposed at the landfill unless all fluids and batteries have been removed. If undrained vehicles are stored at the landfill for later disposal or recycling, they must be managed to prevent release of fluids. 18 AAC 60.035, 18 AAC 60.010

Uncontrolled disposal - Vehicles disposed in landfill, fluids & batteries not removed	Vehicles stored in separate area of landfill, no fluids or batteries removed. No containment for leaks. No plans for disposal or recycling	Vehicles stored in separate area of landfill, some fluids or batteries removed. No containment for leaks. Plans for disposal or recycling	Vehicles stored in separate area of landfill, some fluids or batteries removed. Containment for leaks. Plans for disposal or recycling	All batteries and fluids removed prior to proper disposal or recycling	Operator verifies ALL batteries and fluids removed prior to proper disposal or recycling
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**Freezers & Refrigerators CFCs**

Chlorofluorocarbon (CFCs) must be removed from appliances by a certified technician with certified equipment prior to disposal at any landfill. No CFCs may be vented to the environment. 40 CFR 81.154-162

Disposed of with general waste, CFCs intentionally vented to the environment	Disposed of with general waste, no CFCs removed	Some units segregated, no CFCs removed and no plan	Some units segregated, some CFCs removed but no documentation or marking	Units segregated, CFCs sporadically removed by certified tech & documented, properly disposed or recycled	Units segregated, ALL CFCs regularly removed by certified tech & documented, properly disposed or recycled
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WHITE GOODS STORAGE AREA AT LAND FILL WITH 11 FREON REMOVED, FALL 2016.



## Lead Acid Batteries

Prohibiting disposal of lead acid batteries from the landfill will reduce the risks of environmental contamination. Batteries should be stored in a lined, covered container or area, and managed to prevent any release to the environment.

Lead acid batteries disposed in landfill

Some lead acid batteries segregated but poorly stored at landfill

Most lead acid batteries segregated but poorly stored

Most lead acid batteries segregated and stored to prevent leaks, but not covered

All lead acid batteries segregated, properly stored

All lead acid batteries segregated, properly stored, and regularly shipped out



Can Be Collected Outside- But it  
Better Be Bone Dry on the Inside ☺



# Administration

- Permit
- Monthly Visual Monitoring
- Operations Plan
- Facility Location

# Administration



Questions?