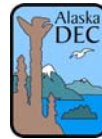


# Solid Waste Treatment Facility Solid Waste Permit Application



Alaska Department of  
Environmental Conservation  
Division of Environmental Health  
Solid Waste Program

## Part One: Fees

A check or money order for the appropriate fees must be submitted with the permit application. If the required fees are not included, the permit application will be returned to the applicant.

✓	#	Requirement:	Regulatory Citation
✓	1	Submit a check or money order to cover the permit application review fee, as listed in 18 AAC 60.700 Table I-3, if required. Solid waste treatment facilities are considered Type X facilities for purposes of fees. <i>The permit application review fee is not required to be submitted with an application for permit renewal.</i>	18 AAC 60.210(b)(8) 18 AAC 60.700

# Solid Waste Treatment Facility Solid Waste Permit Application



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## Part Two: Cover Letter and Certifications

A cover letter must be prepared, as outlined below, and submitted with the permit application.

✓	#	Requirement - letter must include:	Regulatory Citation
✓	1	A statement indicating you wish to obtain a permit for a solid waste treatment facility.	18 AAC 60.210(b)(1)
✓	2	Evidence showing that the proposed facility meets the requirements for a solid waste treatment facility.	
✓	3	A brief general description of the site topography, geology, climate, surface hydrology and groundwater hydrology.	
✓	4	A statement that you are aware of all applicable local ordinances, zoning requirements, and the Alaska Coastal Zone Management Program requirements of 11 AAC 110.	
✓	5	The applicant must submit a <b>signed original</b> of the application cover letter.	18 AAC 15.030
✓	6	The applicant must submit a <b>signed original</b> of the following statement, which may be added, exactly as shown in the box below, to the cover letter. As an alternative, the applicant may sign this sheet and submit it as an attachment to the cover letter.	18 AAC 60.210(a) 18 AAC 60.210(b)(2)

I, MARK KOZAK, certify under penalty of perjury, that all of the information and exhibits in this cover letter and application are true, accurate, and complete.

Mark Kozak  
Applicant's Signature

October / 16 / 2014  
Month Day Year

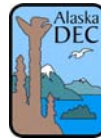
Public Works Director  
Applicant's Title

### Information about signatures

All permits or applications must be signed as follows, per 18 AAC 15.030:

- **Corporations:** A principal executive officer, an officer that is no lower than the level of vice president, or a duly authorized representative who is responsible for the overall management of the project or operation
- **Partnerships:** A general partner
- **Sole proprietorship:** The proprietor
- **Municipal, state, federal, or other public entity:** A principal executive officer, ranking elected official, or duly authorized employee

# Solid Waste Treatment Facility Solid Waste Permit Application



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Solid Waste Program

## Part Three: Contact Information

✓	#	Requirement:	Regulatory Citation
✓	1	Fill out the form completely and submit as part of the application.	18 AAC 60.210(b)(2)

**APPLICANT**

Name City of Kodiak

Contact name Mark Kozak, Public Works Director

Mailing address 2410 Mill Bay Road

City/State/Zip Kodiak, Alaska 99615

Telephone Number 907-486-8065

FAX Number 907-486-8066

Email Address [mkozak@city.kodiak.ak.us](mailto:mkozak@city.kodiak.ak.us)

Type of entity      Individual       Partnership

                                 Corporation       Other Municipal Government

State of incorporation or registration \_\_\_\_\_

Alaska business license number \_\_\_\_\_

IRS tax identification number 92-6000083

**FACILITY OWNER**

Name City of Kodiak

Mailing address 2410 Mill Bay Road

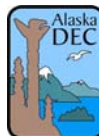
City/State/Zip Kodiak, Alaska 99615

Telephone Number 907-486-8065

FAX Number 907-486-8066

Email Address [mkozak@city.kodiak.ak.us](mailto:mkozak@city.kodiak.ak.us)

# Solid Waste Treatment Facility Solid Waste Permit Application



Alaska Department of  
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Solid Waste Program

## Part Three: Contact Information (continued)

### LANDOWNER

Name Robert Tucker, Kodiak Island Borough

Mailing address 710 Mill Bay Road

City/State/Zip Kodiak, Alaska 99615

Telephone Number 907-486-9340

FAX Number N/A

Email Address [btucker@kodiakak.us](mailto:btucker@kodiakak.us)

### OPERATOR

Name Quayana Development Corporation

Mailing address 11801 Middle Bay Drive

City/State/Zip Kodiak, Alaska 99615

Telephone Number 907-487-2291

FAX Number N/A

Email Address [plarc@alaska.net](mailto:plarc@alaska.net)

### AGENT

Name N/A

Mailing address \_\_\_\_\_

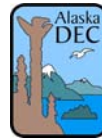
City/State/Zip \_\_\_\_\_

Telephone Number \_\_\_\_\_

FAX Number \_\_\_\_\_

Email Address \_\_\_\_\_

# Solid Waste Treatment Facility Solid Waste Permit Application



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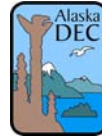
## Part Four – Location Information

Please fill out the form where required, attach the appropriate documentation, and submit as part of the application. You may submit maps that show more than one of the required items. For example, one map can show property boundaries, nearest airport, wetland and surface water locations, etc. Please ensure that all the requested information is included in the completed application.

**NOTE: Maps must have notations about sources of information, including a complete citation.**

✓	#	Requirements	Regulatory Citation
	1	<b>Location</b> information must include the following:	18 AAC 60.210(b)
✓	(a)	Fill in the latitude and longitude of the property. Latitude: <u>57°48'28"</u> Longitude: <u>152°24'38"</u>	
✓	(b)	Fill in a legal description of the property with meridian, range, township, and section. <u>Seward Meridian, Range 19 West, Township 27 South, Section 30</u>	
✓	(c)	Fill in an informal location description such as milepost, operating pad, operating unit, landmarks, distance and direction from nearest community. <u>Adjacent to existing landfill, approximately 6 miles northwest of the City of Kodiak, approximately ½ mile to Monashka Bay</u>	
✓	2	<b>Property ownership</b> information must include the following:	
✓	(a)	<b>Attach</b> a copy of the deed or another legal document that identifies the landowner. <u>See Attachment A: Land Transfer Resolution</u>	
N/A	(b)	If the applicant is not the landowner, <b>attach</b> a written and notarized statement signed by the landowner showing that the landowner consents to the treatment operation, or a copy of any lease agreement that is relevant to the proposed activity.	
✓	(c)	<b>Attach</b> a map or aerial photo that shows the location of the property boundaries. <u>See Attachment B: Aerial photo</u>	

# Solid Waste Treatment Facility Solid Waste Permit Application

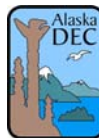


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## Part Four – Location Information (continued)

✓	#	Requirement:	Regulatory Citation
✓	3	<b>Surface water</b> information must include:	18 AAC 60.010(i) 18 AAC 60.210(b)(3)(B) 18 AAC 60.210(b)(3)(D)
✓	(a)	Fill in information about any potential for sediment carried by runoff to impact nearby surface water. <u>A filter roll will be staked at the down slope edge of pavement to prevent sediments from leaving the site.</u> <u>Sediment will be further captured in a rock-lined, grassy infiltration trench designed for a 25-yr storm event.</u>	
	(b)	Attach a map or aerial photo that shows the location of surface water bodies and streams within 200 feet of the landfill boundary. <u>See Attachment C: Aerial Distance to Waterbodies</u>	
✓	4	<b>Other</b> required information:	18 AAC 60.010(i)
✓	(a)	Attach information documenting the annual precipitation at the site. <u>See Attachment D: Kodiak Precipitation</u>	11 AAC 110.205
N/A	(b)	Attach a completed Coastal Project Questionnaire if the proposed operation is in, or might affect, the Coastal Zone of Alaska.	

# Solid Waste Treatment Facility Solid Waste Permit Application



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## Part Five – Treatment Process Description

✓	#	Requirement:	Regulatory Citation
✓	1	Fill out the form completely and submit as part of the application.	18 AAC 60.210(b)(2) 18 AAC 60.210(b)(3)(B) 18 AAC 60.210(b)(4)

**1 List the types and amounts of wastes you expect to treat at this site each year:**

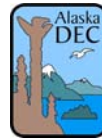
(Tons/Year) Quantity	Waste Type (e.g. inert waste, asbestos, drilling waste, etc.)
<b>2250</b>	Dewatered wastewater solids cake
<b>Up to 700</b>	Other wood waste as needed for bulking agent (wood chips, ground wood pallets, ground yard waste, etc.)
_____	_____
_____	_____
_____	_____

**2 Check or list any type(s) of processing that will be done before the waste is treated:**

<input checked="" type="checkbox"/> Grinding	<input type="checkbox"/> Separation/Segregation
<input type="checkbox"/> Shredding	<input type="checkbox"/> Salvage
<input type="checkbox"/> Drying	<input type="checkbox"/> Lime addition
<input type="checkbox"/> Other _____	
<input type="checkbox"/> Other _____	

✓	#	Requirement:	Regulatory Citation
✓	3	What is the design capacity of the facility? _____ tons/day <b>OR</b> <u>43</u> tons/batch <u>43 wet tons per week of dewatered cake</u>	18 AAC 60.005(d) 18 AAC 60.010(i) 18 AAC 60.200(a)(10)
✓	4	How long do you plan to operate at this location? <u>20</u> years	

# Solid Waste Treatment Facility Solid Waste Permit Application



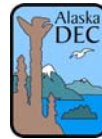
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## Part Five – Treatment Process Description (continued)

✓	#	Requirement:	Regulatory Citation
✓	5	<p>If the treated wastes will be used for some purpose, describe where, by whom, and for what purpose the wastes will be used.</p> <p><u>Class A exceptional quality biosolids compost will be produced. As such, this material can be used without restriction according to the USEPA Subpart 503 standards.</u></p>	<p>18 AAC 60.005(e) 18 AAC 60.210(b)(3)(C)</p>
✓	6	<p>If treated wastes will be disposed of, describe where the treated wastes will be disposed.</p> <p><u>Treated waste will become a Class A compost and used for landscaping and other similar purposes.</u></p> <p><u>Biosolids compost may be used as landfill final or daily cover.</u></p>	
✓	7	<p>Provide a general description of the treatment process. (Use a separate sheet if necessary.)</p> <p><u>Dewatered biosolids are generated at the City of Kodiak Wastewater Treatment Plant. Dewatered cake will be dumped within a 3-sided bunker in the mix and receiving building as shown on the Site Plan. Mixing of dewatered cake and wood chips will be conducted inside the mixing building using a stationary batch mixer. The initial mix will be moved with an elevating conveyor into a covered three-sided bin for pick-up by front-end loader for transfer to the composting bins.</u></p> <p><u>Composting will occur in three covered compost bins. The bins will have an asphalt pad upon which two perforated plastic pipes and associated fan will be placed to provide aeration for process and odor control. A 21-day retention time will comprise the active composting phase of the operation. Three additional bays of equal size are provided to allow three weeks of additional curing under aeration. One fan will be provided for each bin. Aeration will be continuous for the duration of the composting process. Screening of the finished compost will be done using a portable screen to recycle wood chips into the process and produce a high quality compost product.</u></p>	
✓	8	<p>Attach documentation that the treatment process is effective for treating the intended waste stream(s). This information will be used by DEC to determine the regulatory status of the treated wastes.</p> <p><u>An excerpt from EPA document 625/R-92/013, "Environmental Regulations and Technology, Control of Pathogens and Vector Attraction in Sewage Sludge, (Including Domestic Septage) Under 40 CFR Part 503" is included with this submittal as Attachment E.</u></p>	



# Solid Waste Treatment Facility Solid Waste Permit Application



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## Part Six – Facility Layout, Design, and Closure

A complete set of drawings must be submitted showing all the information in the following table. Drawings should be organized as shown below. The following table represents the minimum that must be submitted with this application. Additional drawings or information may be requested by the DEC after reviewing your application. Depending on the proposed treatment process, DEC may require drawings to be stamped and sealed by a registered engineer.

✓	#	Requirement	Regulatory Citation
✓	1	<b>Site map(s)</b> which show site conditions including: <u>See Attachment F: Selected Drawings (from September 2014 drawing set previously submitted for plan review)</u>	18 AAC 60.010(i) 18 AAC 60.210(b)(3)
✓	(a)	All previous, existing, and planned storage and treatment areas.	
✓	(b)	Demonstration that the waste will be located at least 50' from property boundary.	
✓	(c)	All planned and existing buildings, structures, and equipment.	
✓	(d)	All roads, ditches, trenches, fences, berms, or other features associated with the treatment process or facility.	
✓	(e)	Stormwater drainage structures, culverts, and other surface water control devices.	
✓	2	<b>Treatment Process Schematics</b> that include: <u>See Attachment G: Treatment Process Schematic</u>	
✓	(a)	Flow diagrams or schematic diagrams of the treatment process.	
✓	(b)	Floor plans of any buildings that are part of the treatment process.	
✓	(c)	Schematic diagrams of equipment (except vehicles) and structures that are part of the treatment process.	
✓	3	<b>Plan view and cross-sectional drawings</b> that include: <u>See Attachment F: Selected Drawings (from September 2014 drawing set previously submitted for plan review)</u>	
✓	(a)	Waste storage facilities	
✓	(b)	If applicable, fluid control system details for containment and control of all fluids that may run off from the waste, including the leachate collection piping system.	
N/A	4	<b>If applicable, liner information</b> , including;	
	(a)	Liner specifications and details.	
	(b)	A liner installation quality assurance plan.	
	(c)	Information and calculations used to estimate the permeability of any proposed liner.	

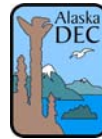
# Solid Waste Treatment Facility Solid Waste Permit Application



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✓	5	<b>Calculations</b> that document and support:
✓	(a)	<p>Necessary waste storage capacity during normal operations.</p> <p>The bunkers are sized to hold one week's worth of waste which = 205 cy</p> $\frac{18ft \times 42ft \times 10ft}{27 \frac{ft^3}{yd^3}} = 280cy$
✓	(b)	<p>Available reserve capacity for storing wastes during non-operational periods.</p> <p><u>Four bunkers will be used for regular processing. Two additional bunkers are provided for growth and/or storage.</u></p>
✓	6	<p><b>Description of the steps and actions</b> necessary to permanently close the facility and remove all treated and untreated wastes.</p> <p><u>All of the waste will be processed and removed and all of the assets of the facility will be dismantled and moved off-site.</u></p>
N/A	7	<b>Site map</b> showing the post-closure appearance of the property.

# Solid Waste Treatment Facility Solid Waste Permit Application



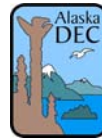
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## Part Seven – Operations Plan

The operations plan should provide sufficient detail and information that facility employees can use it to perform all required tasks for day-to-day operation of the facility. The operations plan is a flexible document that should be reviewed annually and updated/modified, as necessary. The following table represents the minimum requirements to be included in an operations plan. Additional information may be requested or required by the DEC. A copy of the operations plan should be kept at the landfill facility.

✓	#	Requirement	Regulatory Citation
✓	1	Attach a written operations plan that describes the following: <u>Please see <i>City of Kodiak, Alaska - Composting Facility Operation and Maintenance Manual</i> binder included with this submittal.</u>	18 AAC 60.010(i) 18 AAC 60.210(b)(3)
✓	(a)	How the facility ensures that only wastes intended for treatment are accepted and stored at the facility.	
✓	(b)	How waste(s) will be stored so that nuisances are avoided.	
✓	(c)	Any pre-treatment processing of the waste(s).	
✓	(d)	How stored wastes will be moved to the treatment area and the anticipated rate of treatment.	
✓	(e)	How treated wastes will be managed, handled, and stored until re-used or disposed, and how treated wastes will be transported to the re-use or disposal facility.	
N/A	(f)	How any hazardous wastes that are abandoned at the facility will be managed and handled.	
✓	(g)	Your plans for controlling odors and other nuisances.	
✓	(h)	Your plans for preventing fires at the facility and for responding to any fires that do occur.	
✓	(i)	How you will control surface water runoff from the facility to prevent a violation of the water quality standards in 18 AAC 70.	

# Solid Waste Treatment Facility Solid Waste Permit Application



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## Part Eight – Facility Monitoring

Visual monitoring is a minimum requirement for all permitted treatment facilities and must be conducted at least monthly using a prepared checklist.

✓	#	Requirement	Regulatory Citation
✓	1	<b>Attach a visual monitoring plan and checklist</b> that, at a minimum, includes monthly checks that: <u>Visual monitoring checklist is included as Section 8.6 of the attached <i>Operation and Maintenance Manual</i>.</u>	18 AAC 60.010(i) 18 AAC 60.210(b)(3)(D) 18 AAC 60.800(a)
✓	(a)	Waste is confined within defined storage areas and containers.	
✓	(b)	Litter has been picked up.	
✓	(c)	Disease vectors and animals are being controlled.	
✓	(d)	Dust, odors and other nuisance factors are under control.	
✓	(e)	Site operations are not causing polluted water run-off.	
✓	(f)	No fires are occurring within stored or treated wastes.	
✓	(g)	Public access routes (if necessary) are safe and unobstructed.	
✓	(h)	No stored or treated waste is within 50 feet of the property line.	
	2	NOTE: Additional monitoring may be required by the DEC depending on the treatment process being used, the wastes being treated, and specific site conditions.	18 AAC 60.005(d) 18 AAC 60.210(b)(3)(D) 18 AAC 60.215(b)