

### Solid Waste Disposal

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#### Department Overview

Solid Waste Management in Gallatin County is through two separate and distinct districts. They are the Gallatin Solid Waste Management District and the Hebgen/West Yellowstone Refuse District. In addition, the Districts and County participate in recycling collection, information and educational programs. The Gallatin Solid Waste Management District offers a Household Hazardous Waste Event once a month at the Bozeman Convenience Site.

The Gallatin Solid Waste Management District is under the direction of the County Commission, which appoints an Advisory Board. The Board meets monthly with the District Manager and staff at a public meeting held the fourth Wednesday of every month. The Manager operates the landfill under a Montana Department of Environmental Quality (MDEQ) permit with the policies and procedures adopted by the County Commission and its Advisory Board, and County, State and Federal regulations. The Manager supervises recycling and educational outreach, household hazardous waste, the disposal of municipal solid waste, light construction waste and heavy construction waste, bio-solids, woody waste and compost received at Logan Landfill and the Bozeman Convenience Site. The District is an Enterprise fund, funded through the collection of fees on the waste received. Tipping fees for FY 2020 are \$27 per ton for municipal solid waste, \$48 per ton for light construction and \$58 per ton for heavy construction waste.

The Hebgen / West Yellowstone Refuse District is managed by an appointed board. The Board has hired a professional compost and transfer station manager to oversee the day to day operations. The district operates the first in-vessel compost facility in the State. This facility is made possible by the support of the National Park Service and its dedication to use the compost facility. The facility composts waste received from Yellowstone National Park during the summer. All waste not processed through composting is transported to the County's Logan Landfill. The District operates through a contract with the National Park Service and tipping fees charged to users of the transfer station. Tipping fees were decreased from \$125.25 per ton to \$95 effective May 1, 2016. A new organics composting program was implemented in 2017 with the assistance of Yellowstone National Park and the Parks concessionaires. A new scale house/office building was completed in the fall of 2018. The new building provides a safer working environment for employees while being more customer friendly.

An estimated 160,000 tons of solid waste was disposed of at the Logan Landfill in FY 2019. The District receives waste from Gallatin, Madison, Broadwater and Jefferson Counties, and Yellowstone National Park.

#### Department Goals

- Always provide safe, efficient and integrated solid waste management programs at the Logan Landfill, the Bozeman Convenience site and all District operations.
- Safety committee continues to build and improve the safety program for employees and the public through training, meetings and informational brochures and update the Safety Manual.
- Continue to evaluate the Recycling program through our Waste Diversion program for cost effectiveness of diverting commodities for drafting a future strategic plan.
- Continue to expand Household Hazardous Waste (HHW) and special waste programs within the District. Continue to increase public education and outreach for the District's programs.
- Update Landfill's Operation & Maintenance Manual & Operations Process & Policy Manuals.
- Develop an updated Debris Management Plan for the District.
- Work with District stakeholders to develop preliminary engineering report to locate and build a transfer station to replace the Bozeman Convenience Site and reduce vehicle volumes at the Logan Landfill.
- Discussion to add an additional scale and improved public tipping area at Logan Landfill.
- Continue the development of the master plan and submit an application to the Montana DEQ for the expansion of the Logan Landfill.

### Solid Waste Disposal

#### Recent Accomplishments

- The site achieved a compacted waste density of 1,669 pounds per cubic yard over the last period. The staff should be commended for the continued excellent compaction. The industry standard for compacted waste density at landfills which operate 826-equivalent compactors is 1,200 LB/CY. The District staff is far exceeding that metric with the operation. This high compaction is due to dedicated and consistent application of compaction techniques in conjunction with quality equipment and operators. The overall waste-to-soil ratio for the time period was 4.04:1. This is a 22% decrease in soil usage over the previous period. The District utilizes the approved alternative daily cover as often as possible in lieu of soil. In summary, the industry standard for landfills this size is a compacted waste density of 1,200 LB/CY and a 3:1 waste-to-soil ratio which results in an overall volume per ton performance of 2.22 CY/Ton. The overall performance measured by GPS over this last period was 32% better than standard landfill performance metrics. The landfill staff should be commended for obtaining this outstanding waste density and overall landfill performance which ensures the landfill life is maintained and in this case actually extended via excellent performance criteria.
- Completed Phase 3 of the Soil Vapor Gas Extraction (SVG) pilot program. Received approval to install final extraction wells and blower system.
- Purchased a John Deere 1050K Landfill Dozer.
- The biggest accomplishment was Montana Department of Natural Resources (State Lands) and Gallatin County/the District completed the land exchange.
- Phase 4 Cell construction was completed at the end of 2018. The District has received approval from MDEQ to begin placing the first lift of selected waste in the cell.
- Started the master planning and engineering processes associated with the expansion of the Logan Landfill for application submittal to the Montana DEQ review.
- Paid off our InterCap loan from Montana Board of Investments ahead of schedule to facilitate the completion of the land exchange.
- The Recycling Outreach Educational program continued to provide information and participate in community based events. Tours of the landfill are becoming popular for schools. Fix-it-Clinics in the community are becoming more popular. People came to get broken articles fixed for free by volunteers from local companies who fix bikes, jewelry, furniture, clothes, etc. Recycling Educational kits were distributed to libraries in the communities. They are available for checkout to help assist with teaching about recycling, reduce, reuse. The District started a new recycling bin loan program. Groups can check them out for free for their events.
- Held a successful free e-waste collection event for Earth Day.
- Had a successful customer appreciation lunch and board appreciation dinner.



**Gallatin Solid Waste Management District  
(Logan Landfill – Bozeman Convenience Site)  
Logan Landfill new Phase 4 cell.**

# PUBLIC WORKS

## Solid Waste Disposal

### Gallatin County Solid Waste District Budget

Object of Expenditure	Estimated						
	Actual FY 2018	Final FY 2019	Actual FY 2019	Start Up FY 2020	Request FY 2020	Preliminary FY 2020	Final FY 2020
Personnel	\$ 2,535,541	\$ 1,174,593	\$ 1,046,437	\$ 1,239,242	\$ 1,340,005	\$ 1,340,000	\$ 1,280,521
Operations	4,782,263	2,242,359	1,163,690	2,542,648	2,296,665	2,296,670	2,296,670
Debt Service	360,025	-	-	-	-	-	-
Capital Outlay	424,863	12,321,854	2,382,572	13,139,282	15,327,070	15,327,070	15,327,070
Transfers Out	-	-	-	-	-	-	-
<b>Total</b>	<b><u>\$ 8,102,692</u></b>	<b><u>\$ 15,738,806</u></b>	<b><u>\$ 4,592,699</u></b>	<b><u>\$ 16,921,172</u></b>	<b><u>\$ 18,963,740</u></b>	<b><u>\$ 18,963,740</u></b>	<b><u>\$ 18,904,261</u></b>

#### Budget by Fund Group

General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special Revenue Funds	-	-	-	-	-	-	-
Debt Service Funds	-	-	-	-	-	-	-
Capital Project Funds	-	-	-	-	-	-	-
Enterprise Funds	8,102,692	15,738,806	4,592,699	16,921,172	18,963,740	18,963,740	18,904,261
Internal Service Funds	-	-	-	-	-	-	-
Trust & Agency Funds	-	-	-	-	-	-	-
<b>Total</b>	<b><u>\$ 8,102,692</u></b>	<b><u>\$ 15,738,806</u></b>	<b><u>\$ 4,592,699</u></b>	<b><u>\$ 16,921,172</u></b>	<b><u>\$ 18,963,740</u></b>	<b><u>\$ 18,963,740</u></b>	<b><u>\$ 18,904,261</u></b>

#### Funding Sources

Tax Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Tax Revenues	4,860,593	4,744,311	4,957,805	4,744,311	5,614,548	5,614,548	5,614,548
Cash Reappropriated	3,242,099	10,994,495	(365,106)	12,176,861	13,349,192	13,349,192	13,289,713
<b>Total</b>	<b><u>\$ 8,102,692</u></b>	<b><u>\$ 15,738,806</u></b>	<b><u>\$ 4,592,699</u></b>	<b><u>\$ 16,921,172</u></b>	<b><u>\$ 18,963,740</u></b>	<b><u>\$ 18,963,740</u></b>	<b><u>\$ 18,904,261</u></b>

### Department Personnel

No. of Positions	FT/PT	Title	FTE 2018	FTE 2019	FTE 2020
1	Full-Time	District Manager	1.00	1.00	1.00
1	Full-Time	Office Manager	1.00	1.00	1.00
1	Full-Time	Accountant	1.00	1.00	1.00
1	Full-Time	Lead Equipment Operator/Site Foreman	1.00	1.00	1.00
1	Full-Time	Scale Operator – Logan Landfill	3.00	3.00	3.00
1	Full-Time	Scale Operator – Bozeman Convenience Site	1.00	1.00	1.00
3	Full-Time	Equipment Operator	4.00	3.00	3.00
1	Full-Time	Household Hazardous Waste Specialist/Equipment	1.00	1.00	1.00
1	Full-Time	Compost Equipment Operator/Site Maintenance	1.00	1.00	1.00
1	Full-Time	Lead Mechanic	1.00	1.00	1.00
1	Full-Time	Mechanic	1.00	1.00	1.00
1	Full-Time	Environmental Outreach Educator/Scale Operator	1.00	1.00	1.00
3	Full-Time	Seasonal Scalehouse Attendant/Operations Support	-	-	-
19		Total Program	16.00	16.00	16.00

# PUBLIC WORKS

## Solid Waste Disposal

### Hebgen / West Yellowstone Refuse District Budget

Object of Expenditure	Actual		Estimated		Request FY 2020	Preliminary FY 2020	Final FY 2020
	FY 2018	Final FY 2019	Actual FY 2019	Start Up FY 2020			
Personnel	\$ 1,092,103	\$ 304,242	\$ 259,998	\$ 341,235	\$ 341,235	\$ 341,235	\$ 344,591
Operations	1,282,163	1,751,523	522,536	1,361,774	1,000,374	1,000,374	1,000,374
Debt Service	-	-	-	-	-	-	-
Capital Outlay	517,337	915,397	250,000	665,397	1,026,797	1,026,797	1,026,797
Transfers Out	-	-	-	-	-	-	-
<b>Total</b>	<b>\$ 2,891,603</b>	<b>\$ 2,971,162</b>	<b>\$ 1,032,534</b>	<b>\$ 2,368,406</b>	<b>\$ 2,368,406</b>	<b>\$ 2,368,406</b>	<b>\$ 2,371,762</b>

#### Budget by Fund Group

General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special Revenue Funds	-	-	-	-	-	-	-
Debt Service Funds	-	-	-	-	-	-	-
Capital Project Funds	-	-	-	-	-	-	-
Enterprise Funds	2,891,603	2,971,162	1,032,534	2,368,406	2,368,406	2,368,406	2,371,762
Internal Service Funds	-	-	-	-	-	-	-
Trust & Agency Funds	-	-	-	-	-	-	-
<b>Total</b>	<b>\$ 2,891,603</b>	<b>\$ 2,971,162</b>	<b>\$ 1,032,534</b>	<b>\$ 2,368,406</b>	<b>\$ 2,368,406</b>	<b>\$ 2,368,406</b>	<b>\$ 2,371,762</b>

#### Funding Sources

Tax Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Tax Revenues	754,860	921,800	848,056	921,800	921,800	921,800	921,800
Cash Reappropriated	2,136,743	2,049,362	184,478	1,446,606	1,446,606	1,446,606	1,449,962
<b>Total</b>	<b>\$ 2,891,603</b>	<b>\$ 2,971,162</b>	<b>\$ 1,032,534</b>	<b>\$ 2,368,406</b>	<b>\$ 2,368,406</b>	<b>\$ 2,368,406</b>	<b>\$ 2,371,762</b>

### Department Personnel

No. of Positions	FT/PT	Title	FTE 2018	FTE 2019	FTE 2020
1	Full-Time	Operations Manager-Transfer Station	1.00	1.00	1.00
1	Full-Time	Facility Lead Operator	1.00	1.00	1.00
1	Part-Time	Operator	1.00	1.88	1.88
2	Part-Time	Seasonal worker			
5		Total Program	3.00	3.88	3.88



Hebgen/West Yellowstone Refuse District Transfer Station/Compost