

Solid Waste Disposal

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 (DEQ) 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 2018 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.

An estimated 115,000 tons of solid waste was disposed of at the Logan Landfill in FY 2016. 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 of the District's operations.
- Continue to expand the Recycling program and Electronics Waste (E-waste) collection through our Environmental Educational Outreach program.
- Expand Household Hazardous Waste (HHW) program at the Bozeman Convenience Site and continue to educate the public on HHW.
- Continue to work with the DNRC on a Land Exchange for Section 6 on the east perimeter of the landfill in exchange for Section 1 of the Logan Springs Ranch.
- Contingent on the Logan Springs Land Exchange, begin the process of developing a master plan for the long range planning and expansion of the Logan Landfill.
- Continue to work with Montana DEQ for a permit to expand the Compost operation at the Logan Landfill.
- Contingent on the License Expansion Approval from MDEQ, construct a new compost facility along the west boundary of the landfill.
- Pending the Land Exchange and License Boundary Expansion for compost, update the current Logan Landfill Master Plan.
- Update Logan Landfill's Operation and Maintenance Manual and Operations Process and Policy Manual.
- Work on drafting a Debris Management Plan for the Gallatin Solid Waste Management District.
- Replace CAT 826H Compactor for a new trash compactor to maintain efficiency standards.

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Recent Accomplishments

- The site achieved a compacted waste density of 1,670 pounds per cubic yard over the last period. The industry standard for compacted waste density at landfills which operate 826-equivalent compactors is 1,200 pound per cubic yard. 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 5.02:1. This is 10.4% increase in soil usage over the previous period. However, this remains a high waste to soil ratio which demonstrates the effectiveness of the alternative daily cover. In summary, the industry standard for landfills this size is a compacted waste density of 1,200 pound per cubic yard and a 3:1 waste to soil ratio which results in an overall volume per ton performance of 2.22 cubic yards per ton. The overall performance measured by GPS over this last period was 35% better than standard landfill performance metrics. The landfill staff are commended for obtaining this outstanding waste density and overall landfill performance which insures the landfill's life estimates are maintained, and in this case, actually extended via excellent performance criteria.
- Purchased a John Deere Crawler Dozer and completed a Wash Bay at the Logan Landfill shop.
- The preliminary application to the Montana Department of Natural Resources for a proposed land exchange was approved by the Land Board.
- Awarded a 3 year recycling contract for processing and hauling of recyclable commodities to Four Corners Recycling.
- MDEQ received the License Boundary Expansion Application for review and development of a draft Environmental Assessment for the proposed composting facility.
- Finished the Freeway Spring Rehabilitation Plan with Fish Wildlife and Parks and Great West Engineering.
- Completed Phase I of the Soil Vapor Gas Extraction Pilot program well (3) drilling project.
- The first grain harvest on the Logan Springs Ranch property yielded 2,966 bushels. The District received \$18,433.01 for the crop.
- Site improvements for roads, slopes, ditches, litter control, seeding, and cover soil. Improved erosion and dust control using compost developed from the diversion of animals, bio-solids and chipped wood waste.
- Great West Engineering will be developing the final Cell 4 excavation, construction and design plan.
- The final design for Cell 4 will be submitted for review and approval to MDEQ.
- Awarded a five-year contract to Mark's Lumber for grinding and processing green clean wood waste at the Logan landfill and the Bozeman Convenience Site.
- The Recycling Outreach Educational program had new opportunities for outreach this fiscal year at the Bozeman Home Show, the Southwest Montana Builders Industry Association (SWMBIA), and the Sustainable Series session: Recycling and Waste: In the Loop
- Held a successful free e-waste collection event for Earth Day.
- Had a successful Customer and Board Appreciation lunch and dinner.



**Gallatin Solid Waste Management District
(Logan Landfill – Bozeman Convenience Site)**

PUBLIC WORKS

Solid Waste Disposal

Gallatin County Solid Waste District Budget

Object of Expenditure	Actual FY 2016	Final FY 2017	Actual FY 2017	Request FY 2018	Preliminary FY 2018	Final FY 2018
Personnel	\$ 991,022	\$ 1,058,468	\$ 1,010,296	\$ 1,072,296	\$ 1,104,056	\$ 1,117,781
Operations	1,583,904	2,228,547	1,730,489	2,274,119	2,242,359	2,242,359
Debt Service	130,004	133,200	133,200	135,250	135,250	135,250
Capital Outlay	159,769	7,650,911	250,000	12,388,101	12,388,101	10,388,101
Transfers Out	-	-	-	-	-	-
Total	<u>\$ 2,864,699</u>	<u>\$ 11,071,126</u>	<u>\$ 3,123,986</u>	<u>\$ 15,869,766</u>	<u>\$ 15,869,766</u>	<u>\$ 13,883,491</u>

Budget by Fund Group

General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special Revenue Funds	-	-	-	-	-	-
Debt Service Funds	-	-	-	-	-	-
Capital Project Funds	-	-	-	-	-	-
Enterprise Funds	2,864,699	11,071,126	3,123,986	15,869,766	15,869,766	13,883,491
Internal Service Funds	-	-	-	-	-	-
Trust & Agency Funds	-	-	-	-	-	-
Total	<u>\$ 2,864,699</u>	<u>\$ 11,071,126</u>	<u>\$ 3,123,986</u>	<u>\$ 15,869,766</u>	<u>\$ 15,869,766</u>	<u>\$ 13,883,491</u>

Funding Sources

Tax Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Tax Revenues	3,898,429	3,867,070	4,041,088	4,651,285	4,651,285	4,651,285
Cash Reappropriated	(1,033,730)	7,204,056	(917,102)	11,218,481	11,218,481	9,232,206
Total	<u>\$ 2,864,699</u>	<u>\$ 11,071,126</u>	<u>\$ 3,123,986</u>	<u>\$ 15,869,766</u>	<u>\$ 15,869,766</u>	<u>\$ 13,883,491</u>

Department Personnel

No. of Positions	FT/PT	Title	FTE 2016	FTE 2017	FTE 2018
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	Site Foreman/Shop Foreman	1.00	1.00	1.00
3	Full-Time	Scale Operator – Logan Landfill	2.00	3.00	3.00
4	Full-Time	Equipment Operator	4.00	4.00	4.00
1	Full-Time	Lead Mechanic	0.00	0.00	1.00
1	Full-Time	Mechanic	2.00	2.00	1.00
1	Full-Time	Site Maintenance Technician	1.00	1.00	1.00
1	Full-Time	Scale Operator (Bozeman Convenience Site)	1.00	1.00	1.00
1	Full-Time	Environmental Outreach Educator/Scale Operator	1.00	1.00	1.00
0	Full-Time	Seasonal Scalehouse Attendant/Operations Support	0.75	0.00	0.00
16		Total Program	15.75	16.00	16.00

PUBLIC WORKS

Solid Waste Disposal

Hebgen / West Yellowstone Refuse District Budget

Object of Expenditure	Actual FY 2016	Final FY 2017	Actual FY 2017	Request FY 2018	Preliminary FY 2018	Final FY 2018
Personnel	\$ 212,820	\$ 244,558	\$ 212,824	\$ 248,100	\$ 252,043	\$ 253,885
Operations	763,337	922,156	743,071	948,059	944,116	944,116
Debt Service	-	100	200	100	100	100
Capital Outlay	-	1,151,765	221,360	1,298,365	1,298,365	1,116,523
Transfers Out	-	-	-	-	-	-
Total	\$ 976,157	\$ 2,318,579	\$ 1,177,455	\$ 2,494,624	\$ 2,494,624	\$ 2,314,624

Budget by Fund Group

General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special Revenue Funds	-	-	-	-	-	-
Debt Service Funds	-	-	-	-	-	-
Capital Project Funds	-	-	-	-	-	-
Enterprise Funds	976,157	2,318,579	1,177,455	2,494,624	2,494,624	2,314,624
Internal Service Funds	-	-	-	-	-	-
Trust & Agency Funds	-	-	-	-	-	-
Total	\$ 976,157	\$ 2,318,579	\$ 1,177,455	\$ 2,494,624	\$ 2,494,624	\$ 2,314,624

Funding Sources

Tax Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Tax Revenues	378,100	734,000	599,460	820,500	820,500	820,500
Cash Reappropriated	598,057	1,584,579	577,995	1,674,124	1,674,124	1,494,124
Total	\$ 976,157	\$ 2,318,579	\$ 1,177,455	\$ 2,494,624	\$ 2,494,624	\$ 2,314,624

Department Personnel

No. of Positions	FT/PT	Title	FTE 2016	FTE 2017	FTE 2018
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	1.00	1.00
2	Part-Time	Seasonal worker	1.00	1.00	-0-
5		Total Program	4.00	4.00	3.00



Hebgen/West Yellowstone Refuse
District Transfer Station/Compost