



2 0 0 4 E n v i r o n m e n t a l R e p o r t



All data reported for Fiscal Year 2004

Land

Making the most of landfill capacity and promoting recycling helps preserve natural habitat.

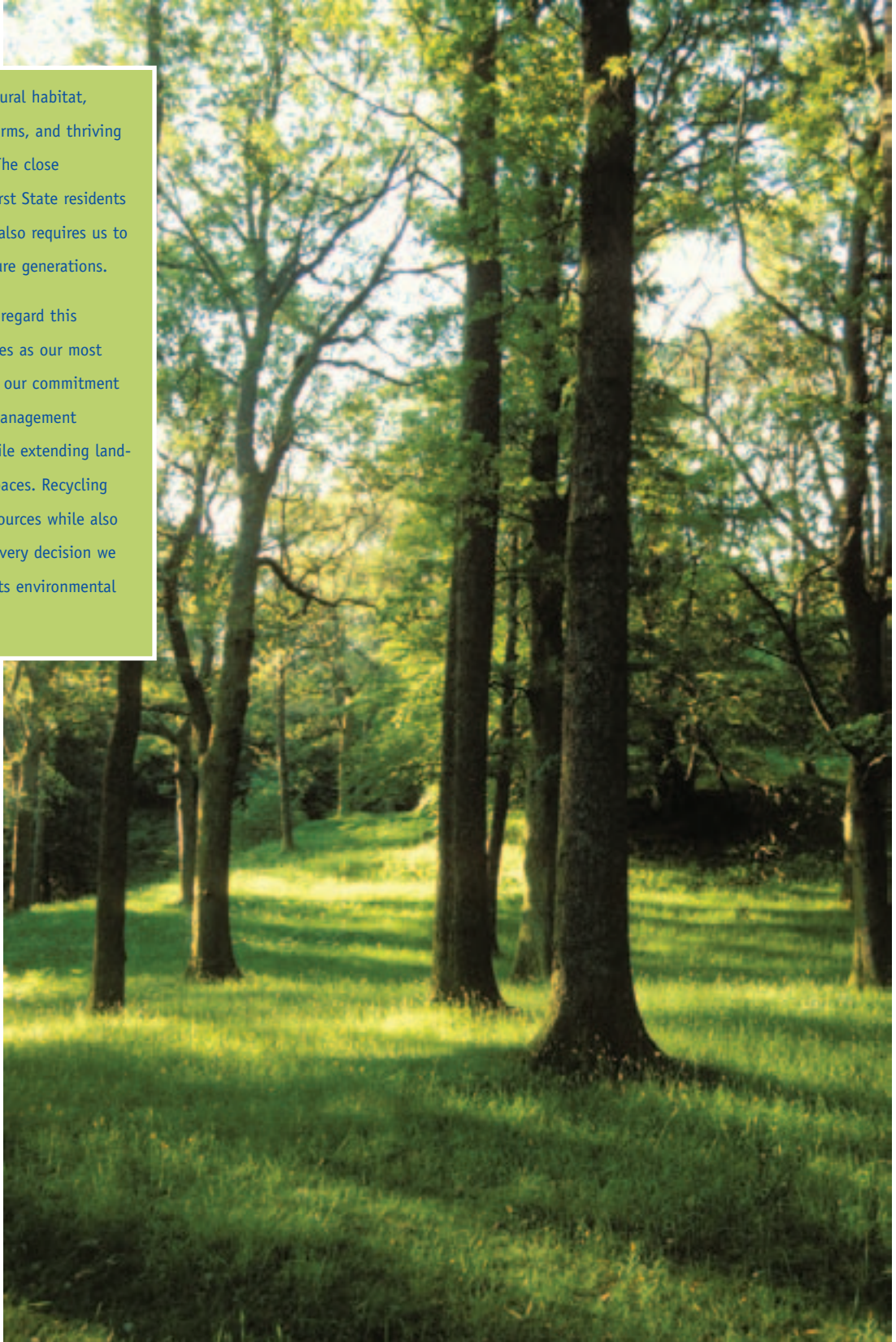
Category/Facility	Cherry Island Landfill		Sandtown Landfill		Jones Crossroads Landfill		Pine Tree Corners Transfer Station	
	Tons	(Metric Tons)	Tons	(Metric Tons)	Tons	(Metric Tons)		
Solid Waste	638,200	578,847	130,700	118,545	225,800	204,801		
	<i>Cubic Yards</i>	<i>(Cubic Meters)</i>	<i>Cubic Yards</i>	<i>(Cubic Meters)</i>	<i>Cubic Yards</i>	<i>(Cubic Meters)</i>		
Capacity Used (@ 1,200 lbs / cubic yard)	1,063,667	813,280	217,833	166,555	376,333	287,744		
Land Area	<i>Acres</i>	<i>(Hectares)</i>	<i>Acres</i>	<i>(Hectares)</i>	<i>Acres</i>	<i>(Hectares)</i>	<i>Acres</i>	<i>(Hectares)</i>
In Use (Active and Closed)	219	89	101	41	95	38	6	2
Future Use (For Landfilling)	104	42	187	76	130	53	0	0
Buffer	190	77	483	196	347	141	75	30
Totals	513	208	771	313	572	232	81	32
	<i>Acres</i>	<i>(Hectares)</i>	<i>Acres</i>	<i>(Hectares)</i>	<i>Acres</i>	<i>(Hectares)</i>	<i>Acres</i>	<i>(Hectares)</i>
Tillable Land Use	0	0	162	65.61	0	0	0	0
Other Land Use (Kent Co. Aeromodeler's Club)	0	0	10	4.05	0	0	0	0
Avg. Vehicles Across Scales (per day)		576		241		475		151

	Cherry Island Landfill			Sandtown Landfill			Jones Crossroads Landfill		
	<i>Cubic Yards</i>	<i>Alternative Materials (Tons)</i>	<i>Soil Saved (Tons)</i>	<i>Cubic Yards</i>	<i>Alternative Materials (Tons)</i>	<i>Soil Saved (Tons)</i>	<i>Cubic Yards</i>	<i>Alternative Materials (Tons)</i>	<i>Soil Saved (Tons)</i>
Soil Used for Cover									
Soils used for cover	0		0	60,022		0	60,300		0
Alternative Materials used for Soil Avoidance									
Stabilized Sludge									
Clean Earth	164,708	197,650	247,062						
Barrier	95,784	71,838	143,676						
Tarps	189,333	N/A	284,000	25,668	N/A	38,502	51,800	N/A	79,300
Recover Mat	12,488	9,366	18,732	41,547	31,168	62,336	64,800	48,600	98,900
ReagentM	68,664	82,397	102,996						
TOTALS	530,977	361,251	796,466	67,215	31,168	100,838	116,600	48,600	178,200



Delaware’s combination of sensitive natural habitat, popular recreation areas, productive farms, and thriving cities is both a blessing and a challenge. The close proximity of people and nature provides First State residents with an outstanding quality of life, but it also requires us to preserve our state’s natural bounty for future generations.

At the Delaware Solid Waste Authority, we regard this stewardship of land, air, and water resources as our most solemn responsibility, and we demonstrate our commitment in a wide variety of ways. Sound landfill management practices protect water and air quality, while extending landfill life to minimize impact on our open spaces. Recycling programs, meanwhile, conserve natural resources while also removing volume from the waste stream. Every decision we make, every action we take, is done with its environmental impact in mind.



Pigeon Point Landfill (closed)

<i>Cubic Yards</i>	<i>Alternative Materials (Tons)</i>	<i>Soil Saved (Tons)</i>
0		0
180,131	216,157	270,654
180,131	216,157	270,654

All data reported for Fiscal Year 2004

Air

Our landfills use the latest technologies to control odors and turn landfill gas into a clean-burning fuel.

Category/Facility	Pigeon Point Landfill		Cherry Island Landfill		Sandtown Landfill		Jones Crossroads Landfill	
	<i>Cubic Yards (yd³)</i>	<i>Cubic Meters (m³)</i>	<i>Cubic Yards (yd³)</i>	<i>Cubic Meters (m³)</i>	<i>Cubic Yards (yd³)</i>	<i>Cubic Meters (m³)</i>	<i>Cubic Yards (yd³)</i>	<i>Cubic Meters (m³)</i>
Landfill Gas								
Collected	3.8	2.9	93.1	71.2	23.8	18.2	30.4	23.2
Flared	3.8	2.9	30.5	23.3	23.8	18.2	30.4	23.2
Beneficially Used	0	0	62.6	47.9	0	0.0	0	0.0
Methane Content	1.3	1.0	46.2	35.3	10.8	8.3	14.4	11.0
	<i>Barrels</i>		<i>Barrels</i>		<i>Barrels</i>		<i>Barrels</i>	
<i>(barrels of oil equivalency)</i> Energy Value of Gas Captured and Sold	0		143,492		0		0	
<i>(barrels of oil equivalency)</i> Energy Potential of Gas Captured and Flared	6,072		69,650		49,753		66,660	

Water

Careful monitoring and testing of water resources around landfills protects the quality of streams and rivers.

Category/Facility	Pigeon Point Landfill		Cherry Island Landfill		Sandtown Landfill		Jones Crossroads Landfill	
	<i>Gallons</i>	<i>Liters</i>	<i>Gallons</i>	<i>Liters</i>	<i>Gallons</i>	<i>Liters</i>	<i>Gallons</i>	<i>Liters</i>
Leachate <i>x10⁶</i>								
Collected	49.8	188.493	90.300	341.786	12.700	48.069	7.300	27.631
Recirculated	0	0	0	0	0.7	2.649	0	0
Treated Off-site	49.800	188.493	90.300	341.786	12.000	45.420	7.300	27.631
Precipitation <i>x10³</i>								
Falling on Active & Closed	149.3	565.101	231.6	876.606	135	510.975	121.8	461.013
Stormwater Runoff <i>x10³</i>	99.500	376.608	141.300	534.821	122.300	462.906	114.500	433.382
*(Runoff=precipitation-leachate)								
<i>ENVIRONMENTAL PROTECTION</i>	<i>no. of units</i>		<i>no. of units</i>		<i>no. of units</i>		<i>no. of units</i>	
Monitoring <i>(Groundwater, surfacewater, and leachates)</i>								
Sampling Points		32		47		80		77
Analysis								
Analyses Per Site	4,189		7,254		12,335		10,461	
Results	Results of groundwater analysis indicate that landfilling and recycling operations have not impacted groundwater quality at any DSWA facility.							

*from leachate storage tanks