LandfillGrade™ Management System

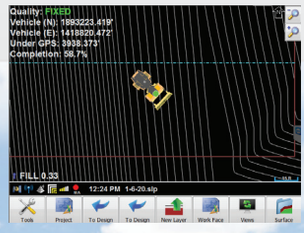
Carlson MACHINE CONTROL

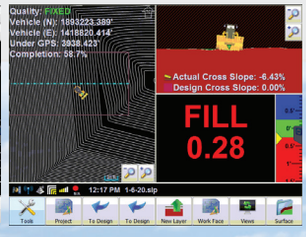
GPS Compaction System Powered by Carlson

Designed for Landfill Compactors, Dozers and Excavators

- Track your compaction in real time with color mapping using pass counts or vertical deflection
- Share data real-time between two machines with Dynamic Data Exchange (DDE) for maximum productivity
- Optimize airspace, maximize compaction reaching improved density in less time
- Easily generate Airspace Utilization Factor (AUF), density and volume reports
- Minimize daily cover
- Analyze productivity and report from anywhere

GPS-powered machine guidance takes the guesswork out of landfill compaction and grading





Experts in Machine Control Applications since 1996

- Mining - Landfill - Piling - Dredging - Construction - Contract Drilling - Custom Applications -

Learn more: **www.carlsonmachinecontrol.com**
or contact at: **info@carlsonmachinecontrol.com**

LandfillGrade™ Management System

Extend the Life of Any Landfill

Carlson Landfill Grade and Carlson Command are tools that work together to help landfills optimize their airspace usage while minimizing machine usage. Carlson Grade provides Operators with a better understanding of their compaction levels to optimize their productivity and minimize pass counts. All data is sent to Carlson Command for Real-Time Machine Views, Report Generation and Scheduling, Data Analysis, and Historical Playback

Key Features

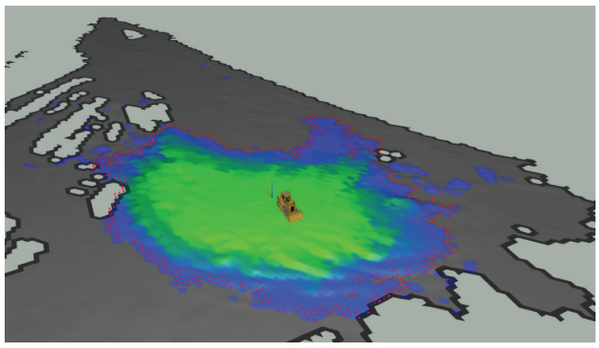
- Eliminate overfill of outer design slopes
- True recording of actual material placement
- Avoidance Zones such as gas wells and hazardous material placement
- Daily density calculations through scale house weight & import
- Forward and Reverse Compaction
- Carlson Streaming connects machines and oce
- Remote monitoring of machines and material placement
- Historical playback for machines and material placement
- Ability to collect and stake points

Special Features

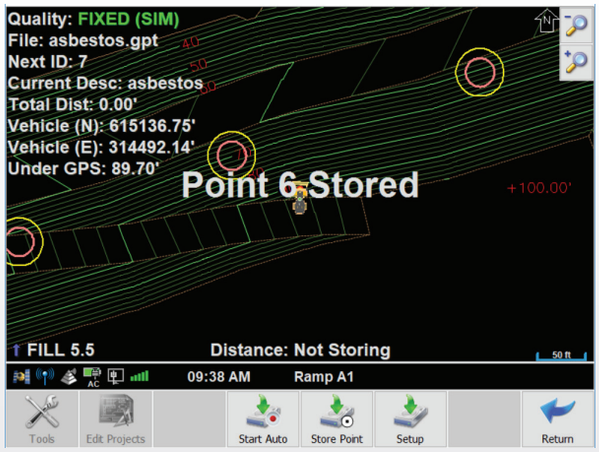
- Customizable screens
- Support for most all GPS/GNSS receivers
- Direct import of .dwg, .dxf, TN3, GC3, LN3, TIN, GRD and more...
- Operator display shows Compaction or Machine Pass Counts via color map

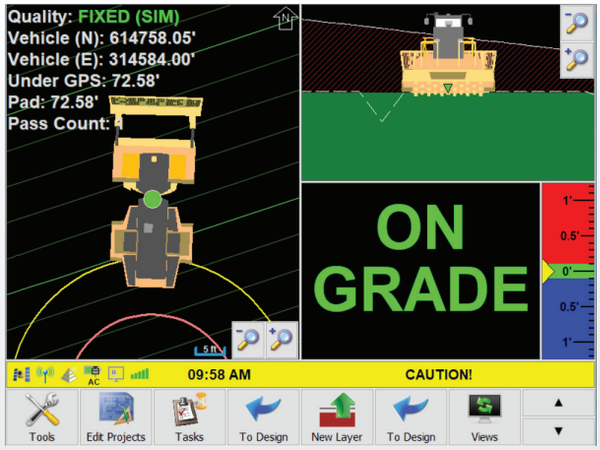
One the Site

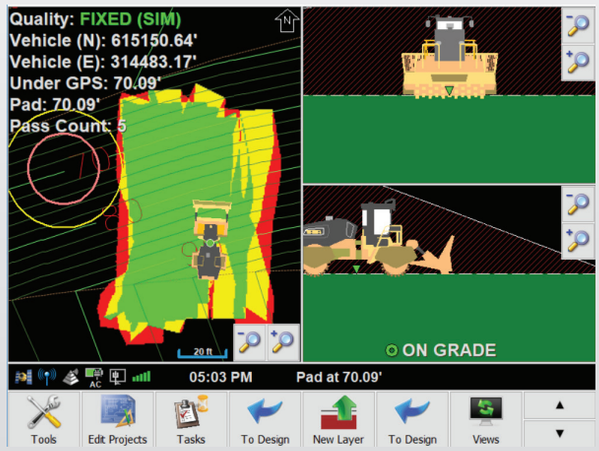
- Works with Man or Machine
- Eliminates unnecessary passes
- Reaches optimum density is less time
- Provides real-time operator grade guidance
- Gives real-time position anywhere on the site
- Allows for stakeless grading
- Manages Leachate - accurate & easy slope designs manage water runoff minimizing leachate for disposal or treatment

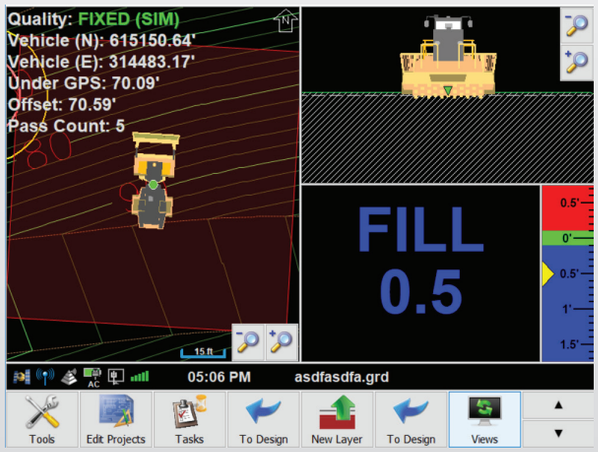


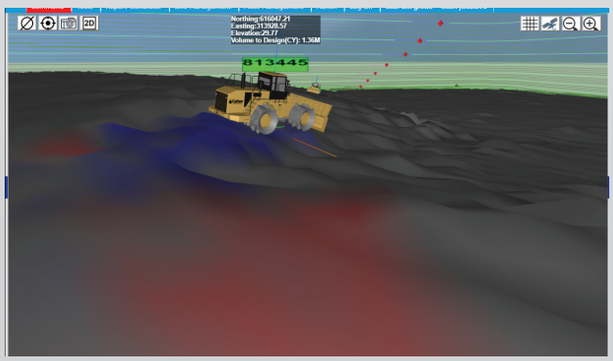
“Simple and sensible machine control for the rest of us”

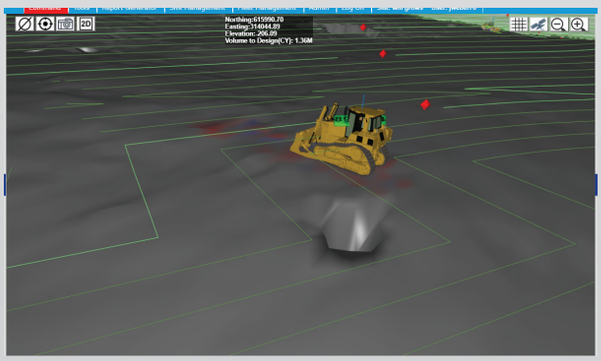












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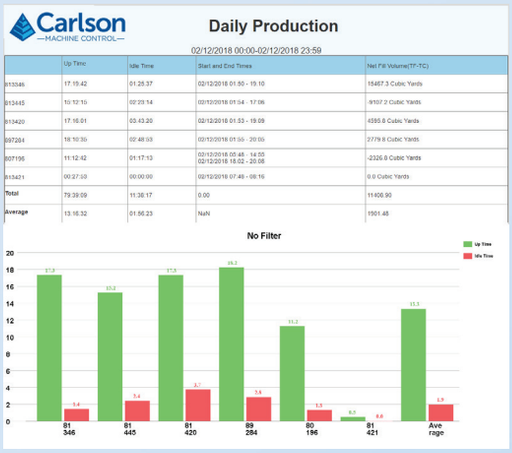
Carlson
BREAK NEW GROUND


Carlson MACHINE CONTROL

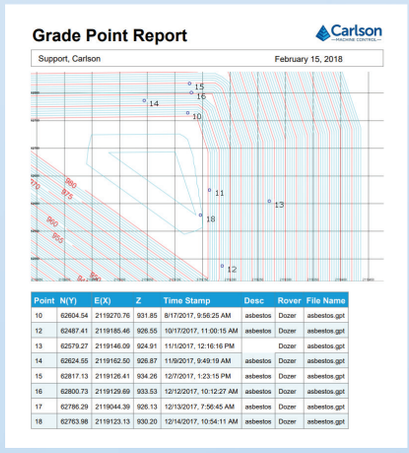
Daily Production

02/12/2018 00:00-02/12/2018 23:59

	Up Time:	Idle Time	Start and End Times	Net Fill Volume(TF-TC)
813346	17:15:42	01:25:37	02/12/2018 01:50 - 19:10	15467.3 Cubic Yards
813445	10:12:10	02:23:14	02/12/2018 01:54 - 17:06	9107.2 Cubic Yards
813420	17:16:01	03:43:20	02/12/2018 01:53 - 19:09	4595.8 Cubic Yards
897284	18:10:36	02:48:33	02/12/2018 01:55 - 20:55	2779.8 Cubic Yards
897196	11:12:42	01:17:13	02/12/2018 05:48 - 14:55 02/12/2018 16:02 - 20:08	-2326.8 Cubic Yards
813421	00:27:50	00:00:00	02/12/2018 07:49 - 08:16	0.0 Cubic Yards
Total	79:39:09	11:36:17	0.00	11406.90
Average	13:16:32	01:56:23	NaN	1901.48

No Filter

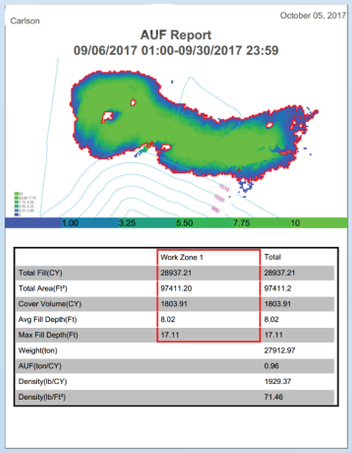
Up Time
Idle Time


Grade Point Report

Carlson MACHINE CONTROL

Support, Carlson — February 15, 2018

Point	N(Y)	E(X)	Z	Time Stamp	Desc	Rover	File Name
10	62604.54	2119270.76	931.85	8/17/2017, 9:56:25 AM	asbestos	Dozer	asbestos.gpt
12	62487.41	2119185.46	926.55	10/17/2017, 11:00:15 AM	asbestos	Dozer	asbestos.gpt
13	62579.27	2119146.09	924.91	11/1/2017, 12:16:16 PM		Dozer	asbestos.gpt
14	62624.55	2119162.50	926.87	11/9/2017, 9:49:19 AM	asbestos	Dozer	asbestos.gpt
15	62817.13	2119126.41	934.26	12/7/2017, 1:23:15 PM	asbestos	Dozer	asbestos.gpt
16	62800.73	2119129.69	933.53	12/12/2017, 10:12:27 AM	asbestos	Dozer	asbestos.gpt
17	62786.29	2119044.39	926.13	12/13/2017, 7:56:45 AM	asbestos	Dozer	asbestos.gpt
18	62763.98	2119123.13	930.20	12/14/2017, 10:54:11 AM	asbestos	Dozer	asbestos.gpt


Carlson — October 05, 2017

AUF Report

09/06/2017 01:00-09/30/2017 23:59

1.00 3.25 5.50 7.75 10

	Work Zone 1	Total
Total Fill(CY)	28937.21	28937.21
Total Area(Ft²)	97411.20	97411.2
Cover Volume(CY)	1803.91	1803.91
Avg Fill Depth(Ft)	8.02	8.02
Max Fill Depth(Ft)	17.11	17.11
Weight(ton)		27912.97
AUF(ton/CY)		0.96
Density(lb/CY)		1929.37
Density(lb/Ft³)		71.46

In your office or remote location

- Daily density reports
- Volume reports
- Efficiency reports
- Daily work area reports
- Real-time Cut/Fill color map of the site in your office
- Replay machine movements
- Report hazardous waste locations
- Manage machine files

810-230-30

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