

## Stormwater Pond Stage/Area/Storage Relationships

**Project** : Cadillac Lake  
           : Wichita, KS  
**P.N.** : 6208  
**By** : PEC  
**Date** : 12/12/07

existing Conditions		<b><i>New Market V Property</i></b>				
<b>Stage</b>	<b>Depth</b>	<b>Surface Area</b>	<b>Surface Area</b>	<b>Average Area</b>	<b>Incremental Volume</b>	<b>Total Volume</b>
<b>(feet)</b>	<b>(feet)</b>	<b>(square feet)</b>	<b>(acres)</b>	<b>(acres)</b>	<b>(ac-Ft)</b>	<b>(ac-Ft)</b>
1342.00	0.00	0	0.00	0.00	0.00	0.00
1343.00	1.00	0	0.00	0.00	0.00	0.00
1344.00	2.00	233,046	5.35	2.68	2.68	2.68
1345.00	3.00	255,262	5.86	5.61	5.61	8.28
1346.00	4.00	277,042	6.36	6.11	6.11	14.39
1347.00	5.00	364,162	8.36	7.36	7.36	21.75
1348.00	6.00	389,273	8.94	8.65	8.65	30.40
1349.00	7.00	833,769	19.14	14.04	14.04	44.44
1350.00	8.00	1,133,043	26.01	22.58	22.58	67.01

Future Conditions		<b>New Market V Property</b>				
<b>Stage (feet)</b>	<b>Depth (feet)</b>	<b>Surface Area (square feet)</b>	<b>Surface Area (acres)</b>	<b>Average Area (acres)</b>	<b>Incremental Volume (ac-Ft)</b>	<b>Total Volume (ac-Ft)</b>
1341.00	0.00	307,098	7.05	0.00	0.00	0.00
1342.00	1.00	316,246	7.26	7.16	7.16	7.16
1343.00	2.00	325,829	7.48	7.37	7.37	14.53
1344.00	3.00	350,222	8.04	7.76	7.76	22.29
1345.00	4.00	374,616	8.60	8.32	8.32	30.61
1346.00	5.00	399,010	9.16	8.88	8.88	39.49
1347.00	6.00	458,724	10.53	9.85	9.85	49.33
1348.00	7.00	581,138	13.34	11.94	11.94	61.27
1349.00	8.00	581,138	13.34	13.34	13.34	74.61
1350.00	9.00	581,138	13.34	13.34	13.34	87.95

Difference = 20.94 or 31.24162 %