

### Lake Hancock Road Phosphorus Loading Calculations

Existing Condition	Land Use	Soil Type	Total P Loading (kg/ac-yr)		Basin Acreage (acres)		Inflow Mass Loading (kg/yr)	Treatment System	Inches of Retention Over Basin Area (inches)	Pollutant Removal Efficiency (%)	Outflow Mass Loading (kg/yr)
SkyRidge	HWY 75%	HSG A	1.053	X	3.35	=	3.53	Dry Retention	1.00	83	0.60
SkyRidge	OPEN	HSG A	0.004	X	3.56	=	0.01	Dry Retention	1.00	96	0.00
Basin 1	OPEN	HSG A	0.004	X	14.28	=	0.06				0.06
Basin 2	OPEN	HSG A	0.004	X	13.48	=	0.05				0.05
Big Sky	SFR 40%	HSG A	0.25	X	1.88	=	0.47	Dry Retention	2.57	97	0.01
Basin 4A (The Reserve)	HWY 75%	HSG A	1.053	X	1.29	=	1.36	Dry Retention	11.00	100	0.00
Basin 4B (The Reserve)	OPEN	HSG A	0.004	X	1.05	=	0.00	Dry Retention	11.00	100	0.00
					<b>38.89</b>		<b>5.48</b>				<b>0.73</b>
Proposed Condition	Land Use	Soil Type	Total P Loading (kg/ac-yr)		Basin Acreage (acres)		Inflow Mass Loading (kg/yr)	Treatment System	Inches of Retention Over Basin Area (inches)	Pollutant Removal Efficiency (%)	Outflow Mass Loading (kg/yr)
SkyRidge	HWY 75%	HSG A	1.053	X	3.26	=	3.43	Dry Retention	1.00	83	0.58
SkyRidge	OPEN	HSG A	0.004	X	3.65	=	0.01	Dry Retention	1.00	96	0.00
Basin 1A	HWY 75%	HSG A	1.053	X	3.36	=	3.54	Dry Retention	4.69**	100	0.00
Basin 1B	OPEN	HSG A	0.004	X	10.92	=	0.04	Dry Retention	4.69**	100	0.00
Basin 2A	HWY 75%	HSG A	1.053	X	10.43	=	10.98	Dry Retention	7.41**	100	0.00
Basin 2B	OPEN	HSG A	0.004	X	5.42	=	0.02	Dry Retention	7.41**	100	0.00
Basin 4A (The Reserve)	HWY 75%	HSG A	1.053	X	1.26	=	1.33	Dry Retention	11.00	100	0.00
Basin 4B (The Reserve)	OPEN	HSG A	0.004	X	0.59	=	0.00	Dry Retention	11.00	100	0.00
					<b>38.89</b>		<b>19.36</b>				<b>0.58</b>

\*\* = Since inches treated is >4.0", assume 100% removal per Table 11.7-1, Page 11-30 of MSSW Handbook.

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