



# VOLUME 6 - ANNEXE SECTION 6.7 – L'HYDROLOGIE ET LE DRAINAGE DES VOIES FERRÉES



Consultant Reference: LGA-1-GN-F-FRN-RT-0006\_00\_Annexe6.7  
2023-04-14



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## Caractéristiques des bassins versants de l'alignement Billy Diamond et ponceau proposé

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface $S_i$ (%)	Tc (min)	Flux de conception ( $m^3/s$ )		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV1010	22.34	Intermittent	B	1.943	77.79	0.40	0.57	CSP	900
BV1015	21.34	Intermittent	B	1.496	70.10	0.41	0.59	CSP	900
BV1020	86.72	Intermittent	B	1.504	101.14	1.30	1.84	CSP	1200
BV1035	10.46	Intermittent	B	3.868	72.17	0.34	0.49	CSP	600
BV1036	2.19	Intermittent	B	3.614	60.06	0.08	0.12	CSP	600
BV1037	6.04	Intermittent	B	6.290	61.38	0.22	0.31	CSP	600
BV1045	7.81	Intermittent	B	4.194	65.10	0.28	0.39	CSP	900
BV1050	13.18	Intermittent	B	5.793	57.21	0.51	0.72	CSP	900
BV1052	13.18	Intermittent	B	2.810	55.74	0.30	0.42	CSP	900
BV1055	56.61	Intermittent	B	0.990	136.12	0.69	0.98	CSP	1200
BV1060	33.88	Intermittent	B	1.465	98.34	0.52	0.73	CSP	900
BV1065	41.76	Intermittent	B	1.629	101.18	0.63	0.89	CSP	1200
BV1075	458.53	Permanent Cours d'eau ( $\pm 7.0m$ Width)	B	0.894	152.04	7.42	10.50	SCA-3	7510 x 3755
BV1080A	29.47	Intermittent	B	12.575	107.22	0.74	1.04	CSP	600
BV1080B									900
BV1085	66.88	Intermittent	B	13.585	127.37	1.49	2.10	CSP	1400
BV1086	33.48	Intermittent	B	19.353	94.22	0.92	1.30	CSP	1200
BV1090	48.94	Intermittent	B	14.901	113.50	1.18	1.67	CSP	1200
BV1095	15.69	Intermittent	B	25.025	69.15	0.53	0.75	CSP	900
BV1105	111.63	Intermittent	B	7.372	164.32	2.08	2.94	CSP	1600
BV1106	3.39	Intermittent	B	9.967	58.72	0.13	0.18	CSP	600
BV1110A	27.68	Intermittent	B	14.585	101.17	0.72	1.02	CSP	600
BV1110B								CSP	900
BV1115	13.52	Intermittent	B	17.906	90.22	0.38	0.54	CSP	900
BV1120	9.41	Intermittent	B	19.212	88.85	0.27	0.38	CSP	900
BV1125	15.39	Intermittent	B	20.715	84.89	0.45	0.64	CSP	900
BV1126	9.00	Intermittent	B	18.666	75.59	0.29	0.41	CSP	900
BV1130	12.02	Intermittent	B	20.959	76.68	0.38	0.54	CSP	900
BV1135	14.23	Intermittent	B	21.078	76.46	0.45	0.64	CSP	900
BV1140	51.91	Intermittent	B	7.441	105.58	1.31	1.86	CSP	1200
BV1145	11.45	Intermittent	B	10.456	86.48	0.33	0.47	CSP	900
BV1150	13.81	Intermittent	B	11.691	83.62	0.41	0.58	CSP	900
BV1155	48.23	Intermittent	B	6.627	132.37	1.04	1.48	CSP	1200
BV1160	31.41	Intermittent	B	4.209	93.41	0.86	1.22	CSP	1200
BV1165	25.78	Lake Crossing ( $\pm 5.0m$ Width)	B	4.258	94.37	0.70	1.00	BAP-30A2	5180 x 2180
BV1170A	20.83	Intermittent	B	4.628	71.56	0.69	0.98	CSP	600
BV1170B								CSP	600
BV1170C								CSP	600
BV1175	14.85	Intermittent	B	11.300	64.76	0.53	0.75	CSP	900

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface Si (%)	Tc (min)	Flux de conception (m³/s)		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV1180	13.47	Intermittent	B	8.716	68.98	0.46	0.65	CSP	900
BV1185	9.17	Intermittent	B	8.451	52.95	0.37	0.52	CSP	900
BV1190A	13.90	Intermittent	B	6.069	76.53	0.44	0.62	CSP	600
BV1190B								CSP	600
BV1195	9.08	Intermittent	B	3.829	72.53	0.30	0.42	CSP	900
BV1200	30.47	Intermittent	B	2.500	67.89	0.60	0.85	CSP	900
BV1205	8.03	Intermittent	B	10.342	76.44	0.25	0.36	CSP	900
BV1210	14.36	Intermittent	B	10.551	70.29	0.48	0.68	CSP	900
BV1215	27.64	Intermittent	B	3.628	95.63	0.75	1.06	CSP	1200
BV1220	20.35	Intermittent	B	3.208	76.87	0.64	0.91	CSP	1200
BV1225	39.78	Intermittent	B	1.683	75.23	0.73	1.04	CSP	1200
BV1230	8.82	Intermittent	B	3.693	80.10	0.27	0.38	CSP	900
BV1235	19.42	Intermittent	B	3.632	80.77	0.59	0.84	CSP	900
BV1240	4.15	Intermittent	B	1.668	40.51	0.11	0.16	CSP	600
BV1245	14.24	Intermittent	B	2.921	47.60	0.35	0.50	CSP	900
BV1250	185.93	Permanent Cours d'eau (±5.0m Width)	B	0.294	210.11	2.04	2.88	BAP-30A2	5180 x 2180
BV1255	1625.40	Permanent Cours d'eau (±18.0m Width)	B	0.294	372.40	12.70	17.98	SCA-66	18110 x 9068
BV1265	109.82	Intermittent	B	0.811	137.83	1.33	1.89	CSP	1200
BV1270	106.19	Intermittent	B	0.834	113.91	1.47	2.08	CSP	1400
BV1275	152.06	Intermittent	B	1.544	129.55	1.93	2.72	CSP	1600
BV1280	14.59	Intermittent	B	1.092	70.54	0.28	0.40	CSP	900
BV1290	44.17	Intermittent	B	0.591	117.39	0.60	0.85	CSP	1200
BV1295	18.22	Intermittent	B	1.196	65.38	0.37	0.52	CSP	900
BV1305	20.47	Intermittent	B	1.629	65.32	0.42	0.59	CSP	900
BV1310	38.66	Intermittent	B	2.895	49.63	0.94	1.33	CSP	1200
BV1315	7.28	Intermittent	B	5.119	68.04	0.25	0.35	CSP	900
BV1320	11.77	Intermittent	B	6.099	83.63	0.35	0.49	CSP	900
BV1350	91.19	Permanent Cours d'eau (±6.0m Width)	B	3.800	119.76	2.11	2.99	SCA-1	6990 x 3495
BV1351	18.92	Intermittent	B	5.176	77.15	0.59	0.84	CSP	1200
BV2005	29.99	Intermittent	B	4.597	84.95	0.88	1.25	CSP	1200
BV2007	10.32	Intermittent	B	3.906	73.90	0.33	0.47	CSP	900
BV2010	15.00	Intermittent	B	0.740	79.50	0.27	0.38	CSP	900
BV2012	20.16	Intermittent	B	2.243	54.86	0.46	0.65	CSP	900
BV2014	21.64	Intermittent	B	0.590	96.04	0.34	0.48	CSP	900
BV2030	184.03	Permanent Cours d'eau (±6.5m Width)	B	1.173	124.30	2.40	3.39	SCA-1	6990 x 3495
BV2035	86.60	Intermittent	B	1.188	120.05	1.16	1.64	CSP	1400
BV2040	61.03	Intermittent	B	1.275	116.01	0.83	1.18	CSP	1200

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface Si (%)	Tc (min)	Flux de conception (m³/s)		Type de structure	Dimension du ponton (mm)
						25-yr	100-yr		
BV2045	32.90	Intermittent	B	1.343	105.71	0.48	0.68	CSP	900
BV2046	24.13	Intermittent	B	1.485	97.24	0.37	0.53	CSP	900
BV2050	37.62	Intermittent	B	1.263	119.71	0.50	0.71	CSP	900
BV2070	126.09	Intermittent	B	1.155	106.46	1.83	2.59	CSP	1400
BV2095	293.82	Permanent Cours d'eau	B	1.258	135.41	6.48	9.18	BAP-30A2	5180 x 2180
BV2100	143.87	Intermittent	B	6.371	148.14	2.88	4.07	CSP	1800
BV2120A	138.28	Intermittent	B	2.183	84.19	2.36	3.34	CSP	900
BV2120B								CSP	900
BV2120C								CSP	900
BV2125	286.87	Intermittent	B	1.655	157.90	3.17	4.48	CSP	1800
BV2135	59.40	Intermittent	B	0.926	99.04	0.91	1.28	CSP	1200
BV2140	10.19	Intermittent	B	5.193	67.55	0.35	0.50	CSP	900
BV2145	9.57	Intermittent	B	3.397	89.57	0.27	0.38	CSP	900
BV2155	1368.08	Permanent Cours d'eau	B	1.181	250.12	16.39	23.20	SCA-1	6990 x 3495
BV2160	44.33	Permanent Cours d'eau	B	0.223	215.24	10.52	14.89	SCA-1	6990 x 3495
BV2165	6.68	Intermittent	B	1.088	70.74	0.13	0.18	CSP	600
BV2170	15.96	Intermittent	B	0.730	98.47	0.24	0.35	CSP	900
BV2175	623.34	Potential Cours d'eau	B	0.880	212.23	9.23	13.07	SCA-49	2 X (15010 x 7505)
BV2180	39.57	Intermittent	B	1.004	123.49	0.52	0.73	CSP	900
BV2185	65.07	Intermittent	B	0.895	131.53	3.88	5.49	CSP	2000
BV2190	253.27	Intermittent	B	2.466	138.13	3.07	4.34	CSP	1800
BV2200	75.32	Intermittent	B	5.681	128.36	1.66	2.35	CSP	1400
BV2210	91.38	Lake Crossing	B	5.329	133.37	2.71	3.84	SCA-29	11910 x 5955
BV2220	27.63	Intermittent	B	5.408	95.93	0.75	1.06	CSP	1200
BV2221	19.99	Intermittent	B	3.211	118.41	0.47	0.66	CSP	900
BV2225	7.26	Intermittent	B	11.915	61.47	0.27	0.38	CSP	900
BV2230	54.67	Intermittent	B	4.977	127.23	1.21	1.72	CSP	1200
BV2235	1773.67	Permanent Cours d'eau	B	0.659	321.76	11.96	16.92	SCA-20	10100 x 5045
BV2240A	96.72	Intermittent	B	0.625	144.66	1.13	1.61	CSP	900
BV2240B								CSP	900
BV2245A	15.78	Intermittent	B	2.497	55.17	0.36	0.51	CSP	600
BV2245B								CSP	600
BV2250	16.93	Intermittent	B	1.057	72.47	0.32	0.45	CSP	900
BV2255	39.46	Intermittent	B	5.979	103.92	1.01	1.43	CSP	1200
BV2260	16.20	Intermittent	B	8.479	90.80	0.45	0.64	CSP	900
BV2065A	25.47	Intermittent	B	6.490	105.97	0.64	0.91	CSP	900
BV2065B								CSP	900
BV2266	9.32	Intermittent	B	0.179	91.25	0.15	0.21	CSP	600
BV2267	18.92	Intermittent	B	0.081	164.80	0.20	0.29	CSP	600
BV2268	7.10	Intermittent	B	3.145	72.64	0.23	0.33	CSP	900

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface Si (%)	Tc (min)	Flux de conception (m³/s)		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV2270	16.99	Intermittent	B	2.910	65.08	0.35	0.49	CSP	900
BV2275	4.55	Intermittent	B	2.526	32.09	0.14	0.20	CSP	600
BV2280	11073.20	Permanent Cours d'eau	B	0.190	757.65	41.23	58.35	SCA-66	18110 x 9068
BV2285	17.97	Intermittent	B	5.164	82.97	0.54	0.76	CSP	900
BV2290	163.17	Permanent Cours d'eau	B	1.458	124.04	2.13	3.01	BAP-30A2	5180 x 2180
BV3000	44.98	Intermittent	B	2.237	85.48	0.76	1.08	CSP	900
BV3005								CSP	900
BV3010	165.70	Intermittent	B	1.876	117.66	2.53	3.58	CSP	1600
BV3014	3.71	Intermittent	B	10.732	69.70	0.13	0.18	CSP	600
BV3015	5.06	Intermittent	B	6.667	77.74	0.16	0.22	CSP	600
BV3020	10.42	Intermittent	B	3.766	70.95	0.35	0.49	CSP	900
BV3025	77.32	Intermittent	B	3.028	104.68	1.97	2.78	CSP	1400
BV3030	77.32	Intermittent	B	2.225	88.77	1.27	1.80	CSP	900
BV3035	54.80	Intermittent	B	0.677	113.25	0.76	1.08	CSP	900
BV3036	42.37	Intermittent	B	0.712	100.54	0.64	0.91	CSP	900
BV3040	6560.07	Permanent Cours d'eau	B	0.107	1008.64	20.03	28.35	SCA-39	13460 x 6730
BV3045	25.84	Intermittent	B	0.969	89.92	0.42	0.60	CSP	900
BV3050	56.57	Intermittent	B	0.742	131.58	0.71	1.00	CSP	900
BV3057	146.67	Intermittent	B	1.595	115.15	2.02	2.85	CSP	1400
BV3060	2617.57	Permanent Cours d'eau	B	0.692	351.72	16.59	23.48	SCA-82	22250 x 11125
BV3062	63.46	Intermittent	B	2.171	65.09	1.29	1.83	CSP	1200
BV3063A	140.91	Potential Cours d'eau	B	1.837	98.95	2.15	3.04	CSP	1600
BV3063B		Potential Cours d'eau						CSP	1600
BV3063C		Potential Cours d'eau						CSP	1600
BV3063D		Potential Cours d'eau						CSP	1600
BV3063E		Potential Cours d'eau						CSP	1600
BV3065A	82.73	Potential Cours d'eau	B	2.620	76.27	1.51	2.14	CSP	1400
BV3065B		Potential Cours d'eau						CSP	1400
BV3067	26.47	Intermittent	B	1.284	87.20	0.44	0.62	CSP	900
BV3080	162.56	Potential Cours d'eau	B	0.977	137.67	1.97	2.79	CSP	1800
BV3095	7.48	Intermittent	B	2.925	47.55	0.19	0.26	CSP	600
BV3097	43.33	Intermittent	B	2.983	66.16	0.87	1.24	CSP	1200
BV3098	14.76	Intermittent	B	1.775	74.49	0.27	0.39	CSP	900
BV3100	32.60	Intermittent	B	1.790	71.48	0.62	0.88	CSP	900

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface S <sub>i</sub> (%)	T <sub>c</sub> (min)	Flux de conception (m <sup>3</sup> /s)		Type de structure	Dimension du ponton (mm)
						25-yr	100-yr		
BV3105	5.05	Intermittent	B	1.958	66.35	0.10	0.14	CSP	600
BV3110	21.65	Intermittent	B	3.609	83.03	0.65	0.92	CSP	900
BV3115	13.60	Intermittent	B	2.259	52.22	0.32	0.45	CSP	900
BV3116	2.29	Intermittent	B	4.069	41.80	0.11	0.15	CSP	600
BV3125	164.83	Intermittent	B	2.255	117.99	2.23	3.15	CSP	1400
BV3130	49.61	Intermittent	B	1.613	83.30	0.85	1.21	CSP	1200
BV3140	61.76	Intermittent	B	0.764	109.55	0.88	1.24	CSP	1200
BV3142	7273.38	Permanent Cours d'eau (±15.0m Width)	B	0.231	626.57	33.95	48.05	SCA-51	15530 x 7765
BV3144	6.11	Intermittent	B	2.000	46.09	0.15	0.22	CSP	600
BV3145	135.58	Permanent Cours d'eau (±12.0m Width)	B	1.170	115.34	3.06	4.33	SCA-49	15010 x 7505
BV3150	103.04	Intermittent	B	0.541	145.91	1.20	1.70	CSP	1200
BV3152	14.35	Intermittent	B	0.851	70.85	0.28	0.39	CSP	900
BV3154	20.85	Intermittent	B	0.674	85.91	0.35	0.50	CSP	900
BV3160	8.86	Intermittent	B	0.284	88.09	0.15	0.21	CSP	600
BV3165	5.75	Intermittent	B	1.088	64.56	0.12	0.17	CSP	600
BV3170	48.83	Intermittent	B	0.830	108.41	0.70	0.99	CSP	900
BV4005	33.49	Intermittent	B	1.036	85.06	0.57	0.80	CSP	900
BV4010	10.03	Permanent Cours d'eau (±10.0m Width)	B	1.532	68.73	0.20	0.28	SCA-20	10100 x 5045
BV4015	129.85	Permanent Cours d'eau (±10.0m Width)	B	0.567	140.22	1.56	2.20	SCA-20	10100 x 5045
BV4020	17.77	Intermittent	B	1.237	73.40	0.33	0.47	CSP	900
BV4025	51.67	Intermittent	B	1.135	88.19	0.85	1.21	CSP	1200
BV4030	67.22	Intermittent	B	0.660	138.18	0.81	1.15	CSP	1200
BV4035	43.44	Intermittent	B	1.301	99.60	0.66	0.93	CSP	900
BV4040	77.23	Intermittent	B	1.094	128.53	0.98	1.39	CSP	1200
BV4045	8.81	Intermittent	B	2.896	36.24	0.26	0.37	CSP	900
BV4050	65.32	Intermittent	B	0.821	115.40	0.90	1.27	CSP	1200
BV4055	62.94	Intermittent	B	0.663	106.69	0.91	1.29	CSP	1200
BV4056	2.90	Intermittent	B	8.348	41.27	0.14	0.19	CSP	600
BV4057A	1.74	Intermittent	B	9.952	40.83	0.08	0.12	CSP	600
BV4057B	3.21	Intermittent	B	4.840	54.20	0.13	0.18	CSP	600
BV4058	8.04	Intermittent	B	5.541	54.72	0.32	0.45	CSP	900
BV4059A	11.10	Intermittent	B	5.281	70.26	0.37	0.53	CSP	900
BV4059B	2.90	Intermittent	B	4.333	40.50	0.14	0.20	CSP	600
BV4060	34.96	Intermittent	B	2.126	70.26	0.68	0.96	CSP	900
BV4065	11.76	Intermittent	B	4.840	76.65	0.37	0.53	CSP	900
BV4070	6.58	Intermittent	B	7.885	67.14	0.23	0.32	CSP	900
BV4075	11.24	Intermittent	B	8.334	73.50	0.37	0.52	CSP	900

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface Si (%)	Tc (min)	Flux de conception (m³/s)		Type de structure	Dimension du ponton (mm)
						25-yr	100-yr		
BV4080	18.70	Intermittent	B	3.788	75.04	0.60	0.85	CSP	900
BV4085	19.99	Intermittent	B	5.080	74.82	0.64	0.91	CSP	900
BV4090	22.90	Intermittent	B	4.402	86.82	0.66	0.94	CSP	900
BV4095	13.05	Intermittent	B	8.411	69.21	0.44	0.63	CSP	900
BV4100	23.74	Intermittent	B	4.860	98.76	0.63	0.89	CSP	900
BV4105	58.09	Intermittent	B	4.417	106.15	1.46	2.07	CSP	1200
BV4110	41.64	Intermittent	B	2.302	72.72	0.79	1.11	CSP	900
BV4115	24.73	Intermittent	B	0.839	87.75	0.41	0.58	CSP	900
BV4125	11.60	Intermittent	B	0.967	78.01	0.21	0.30	CSP	900
BV4130	26.50	Intermittent	B	2.321	65.32	0.54	0.76	CSP	900
BV4135	28.89	Intermittent	B	2.500	76.59	0.53	0.75	CSP	900
BV4137	13.52	Intermittent	B	0.925	80.92	0.24	0.34	CSP	900
BV4140	44.60	Intermittent	B	1.568	90.44	0.72	1.03	CSP	900
BV4144	23.55	Intermittent	B	1.557	60.66	0.50	0.71	CSP	900
BV4145	180.62	Intermittent	B	1.037	170.01	1.89	2.68	CSP	1400
BV4150	209.53	Intermittent	B	1.086	147.49	2.42	3.43	CSP	1600
BV4155	711.98	Intermittent	B	0.723	249.89	5.72	8.09	CSP	2200
BV4160	31.73	Intermittent	B	1.467	100.76	0.48	0.68	CSP	900
BV4165	389.42	Intermittent	B	0.802	203.81	3.60	5.10	CSP	2000
BV4170	17.61	Intermittent	B	0.755	95.82	0.27	0.39	CSP	900
BV4175	74.37	Intermittent	B	1.276	107.31	1.07	1.52	CSP	1200
BV4180	88.79	Intermittent	B	0.950	144.57	1.04	1.47	CSP	1200
BV4185	45.12	Intermittent	B	1.476	95.09	0.71	1.00	CSP	1200
BV4190A	23.71	Intermittent	B	2.153	51.83	0.56	0.79	CSP	600
BV4190B		CSP						600	
BV4200	13.75	Intermittent	B	0.782	92.99	0.22	0.31	CSP	900
BV4202	20.67	Intermittent	B	1.690	63.36	0.43	0.61	CSP	900
BV4205	31.17	Intermittent	B	0.842	87.52	0.52	0.73	CSP	900
BV4210	23.04	Intermittent	B	0.583	96.89	0.36	0.50	CSP	900
BV4215	13.58	Intermittent	B	1.870	45.13	0.35	0.49	CSP	900
BV4220	5.13	Intermittent	B	1.703	48.76	0.13	0.18	CSP	600
BV4225	361.41	Permanent Cours d'eau (±5.0m Width)	B	0.628	203.79	3.34	4.73	SCA-2	7250 x 3625
BV4230	40.64	Intermittent	B	1.074	101.08	0.61	0.86	CSP	900
BV4235	13.68	Intermittent	B	1.167	77.04	0.25	0.35	CSP	900
BV4237	60.64	Intermittent	B	0.943	112.68	0.85	1.20	CSP	1200
BV4240	806.25	Permanent Cours d'eau (±10.0m Width)	B	0.370	331.42	6.86	9.71	SCA-20	10100 x 5045
BV4255	96.36	Intermittent	B	0.931	92.92	1.54	2.17	CSP	1600
BV4275	6.49	Intermittent	B	0.406	65.46	0.13	0.19	CSP	600
BV4277	12.74	Intermittent	B	0.237	102.15	0.19	0.27	CSP	600

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface Si (%)	Tc (min)	Flux de conception (m³/s)		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV4280	1163.65	Permanent Cours d'eau (±10.0m Width)	B	0.059	543.56	5.78	8.17	SCA-20	10100 x 5045
BV4285	210.17	Intermittent	B	0.312	230.55	1.78	2.53	CSP	1400
BV5005	18.47	Intermittent	B	0.944	79.56	0.33	0.46	CSP	900
BV5010	9.13	Intermittent	B	1.593	47.05	0.23	0.32	CSP	900
BV5015	2065.96	Permanent Cours d'eau (±8.0m Width)	B	0.230	503.73	10.21	14.45	SCA-20	10100 x 5045
BV5018	16.10	Intermittent	B	0.860	70.18	0.31	0.44	CSP	900
BV5025	971.29	Permanent Cours d'eau (±12.0m Width)	B	0.402	302.55	6.83	9.67	SCA-49	15010 x 7505
BV5030	43.49	Intermittent	B	1.303	89.65	0.71	1.01	CSP	1200
BV5035	95.43	Intermittent	B	0.867	130.41	1.20	1.70	CSP	1200
BV5040	6.01	Intermittent	B	0.298	84.65	0.10	0.14	CSP	600
BV5045	279.40	Permanent Cours d'eau (±12.0m Width)	B	0.662	179.86	2.82	3.99	SCA-49	15010 x 7505
BV5050	305.90	Intermittent	B	0.404	301.01	2.16	3.06	CSP	1600
BV5055	285.21	Intermittent	B	0.810	198.67	2.69	3.80	CSP	1600
BV5060	85.43	Intermittent	B	0.756	179.05	0.86	1.22	CSP	1200
BV5065	3561.03	Permanent Cours d'eau (±8.0m Width)	B	0.211	712.64	13.83	19.58	SCA-20	10100 x 5045
BV5070	1223.96	Permanent Cours d'eau (±12.0m Width)	B	0.277	492.73	6.14	8.69	SCA-49	15010 x 7505
BV5075A	63.77	Intermittent	B	0.599	134.06	0.79	1.12	CSP	900
BV5075B								CSP	900
BV5080	15.92	Intermittent	B	0.112	134.41	0.20	0.28	CSP	600
BV5085A	1896.07	Permanent Cours d'eau (±20.0m Width)	B	0.343	435.80	10.36	14.66	SCA-74	20190 x 10083
BV5085B		Permanent Cours d'eau (±5.0m Width)						BAP-30A2	5180 x 2180
BV5085C		Permanent Cours d'eau (±15.0m Width)						SCA-51	15530 x 7765
BV5090	20.48	Intermittent	B	2.897	49.60	0.50	0.70	CSP	900
BV5105	77.49	Intermittent	B	1.008	110.89	1.09	1.55	CSP	1200



Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface Si (%)	Tc (min)	Flux de conception (m³/s)		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV5110	534.53	Permanent Cours d'eau (±16.0m Width)	B	0.456	284.82	3.92	5.55	SCA-63	17600 x 8800
BV5115	245.87	Permanent Cours d'eau (±8.0m Width)	B	0.539	225.38	2.12	3.00	SCA-16	9840 x 4920
BV5120	222.82	Permanent Cours d'eau (±6.0m Width)	B	0.314	229.23	7.94	11.24	SCA-49	7640 x 3820
BV5125	56.85	Permanent Cours d'eau (±5.0m Width)	B	2.087	78.87	1.02	1.44	SCA-2	7250 x 3625
BV5135	33.74	Intermittent	B	1.454	78.64	0.60	0.85	CSP	900
BV5140	51.21	Intermittent	B	1.930	82.24	0.89	1.26	CSP	1200
BV5150	63.79	Intermittent	B	1.819	90.39	1.04	1.47	CSP	1200
BV5155	65.68	Permanent Cours d'eau (±8.0m Width)	B	1.506	88.18	1.09	1.54	SCA-16	9840 x 4920
BV5165	40.63	Intermittent	B	0.603	115.41	0.56	0.79	CSP	900
BV5170	16.93	Intermittent	B	1.223	74.14	0.32	0.45	CSP	900
BV5175	24.89	Intermittent	B	1.675	80.75	0.44	0.62	CSP	900
BV5180	87.86	Intermittent	B	1.110	120.50	1.17	1.66	CSP	1200
BV5185	80.55	Intermittent	B	0.966	121.39	1.07	1.51	CSP	1200
BV5190	93.17	Permanent Cours d'eau (±5.0m Width)	B	2.085	80.71	1.64	2.32	BAP-30A2	5180 x 2180
BV5195	54.56	Permanent Cours d'eau (±5.0m Width)	B	0.447	148.00	0.63	0.89	BAP-30A2	5180 x 2180
BV5200	16.69	Intermittent	B	0.604	81.56	0.29	0.41	CSP	900
BV5205	56.83	Intermittent	B	0.301	145.30	0.66	0.94	CSP	900
BV5215	40.64	Intermittent	B	0.492	88.24	0.67	0.95	CSP	900
BV5222	94.63	Intermittent	B	1.190	110.54	1.34	1.89	CSP	1200
BV5225	60.04	Intermittent	B	0.822	103.05	0.89	1.26	CSP	1200
BV5230	28.91	Intermittent	B	0.548	114.10	0.40	0.57	CSP	900
BV5235	108.09	Intermittent	B	1.669	87.08	1.80	2.55	CSP	1400
BV5240	16.72	Intermittent	B	1.730	73.52	0.31	0.44	CSP	900
BV5245	11.85	Intermittent	B	2.557	53.16	0.28	0.39	CSP	900
BV5255	8.85	Intermittent	B	3.228	71.69	0.29	0.41	CSP	900
BV5260	32.64	Intermittent	B	1.516	83.51	0.56	0.79	CSP	1200
BV5265	150.89	Permanent Cours d'eau (±5.0m Width)	B	1.761	100.63	2.28	3.22	BAP-30A2	5180 x 2180
BV5270	21.21	Intermittent	B	1.703	71.79	0.40	0.57	CSP	900

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface S <sub>i</sub> (%)	T <sub>c</sub> (min)	Flux de conception (m <sup>3</sup> /s)		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV5275	330.85	Intermittent	B	0.797	179.34	3.34	4.73	CSP	2000
BV5280	21.64	Intermittent	B	3.390	81.49	0.65	0.93	CSP	900
BV5285	1394.98	Permanent Cours d'eau (±15.5m Width)	B	0.437	369.48	14.39	20.36	SCA-55	16050 x 8025
BV5290A	2272.58	Permanent Cours d'eau (±5.0m Width)	B	0.506	449.65	12.15	17.19	BAP-30A2	5180 x 2180
BV5290B		Permanent Cours d'eau (±5.0m Width)						BAP-30A2	5180 x 2180
BV5290C		Permanent Cours d'eau (±15.0m Width)						SCA-51	15530 x 7765
BV5295	23.15	Intermittent	B	1.727	76.22	0.42	0.60	CSP	900
BV5296	19.37	Intermittent	B	1.736	78.39	0.35	0.49	CSP	900
BV5300	154.14	Intermittent	B	1.605	125.49	2.00	2.82	CSP	1400
BV5305	96.25	Intermittent	B	3.676	122.42	2.20	3.11	CSP	1400
BV5330	3030.76	Permanent Cours d'eau (±9.5m Width)	B	0.651	375.26	18.36	25.99	SCA-20	10100 x 5045
BV5335	162.12	Intermittent	B	2.143	109.13	2.31	3.27	CSP	1600
BV5350	145.05	Intermittent	B	2.561	96.23	2.26	3.19	CSP	1400

## Caractéristiques des bassins versants de l'alignement Grevet-Chapais et ponceau proposé

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface $S_i$ (%)	Tc (min)	Flux de conception ( $m^3/s$ )		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV060	133.35	Intermittent	B	0.646	208.86	1.22	1.69	CSP	1200
BV065	1399.01	Permanent Cours d'eau	B	0.646	208.86	12.80	17.70	SCA-12	9060 x 4530
BV070	435.80	Permanent Cours d'eau	B	0.646	208.86	3.99	5.51	SCA-29	2 X (11910 x 5955)
BV075	14.23	Intermittent	B	3.463	82.73	0.43	0.59	CSP	900
BV080	342.63	Intermittent	B	0.911	163.92	3.71	5.13	CSP	1800
BV085	178.59	Intermittent	B	1.826	109.55	2.55	3.53	CSP	1600
BV090	57.17	Intermittent	B	4.021	105.82	1.45	2.01	CSP	1200
BV094	48.42	Intermittent	B	5.867	100.48	2.73	3.77	CSP	1600
BV100	35.29	Intermittent	B	9.415	77.72	3.84	5.31	CSP	1200
BV105	110.18	Permanent Cours d'eau	B	4.364	151.02	7.48	10.34	SCA-30	12000 x 4259
BV110	57.10	Intermittent	B	8.413	107.46	1.43	1.98	CSP	1200
BV115	73.66	Intermittent	B	5.457	125.03	1.67	2.30	CSP	1200
BV120	232.11	Permanent Cours d'eau	B	2.896	104.08	14.02	19.39	2 x SCA-30	2 X (12000 x 4259)
BV125	31.94	Intermittent	B	7.035	91.77	0.90	1.24	CSP	1200
BV130	15.35	Intermittent	B	4.055	101.12	0.40	0.56	CSP	900
BV135	4.69	Intermittent	B	2.903	49.53	0.11	0.16	CSP	600
BV140	6.40	Intermittent	B	7.456	69.05	0.22	0.30	CSP	600
BV145	48.01	Intermittent	B	2.966	74.32	0.90	1.24	CSP	1200
BV150	85.34	Intermittent	B	2.762	84.28	1.46	2.02	CSP	1200
BV155	84.34	Intermittent	B	1.763	96.74	1.31	1.82	CSP	1200
BV160	31.67	Intermittent	B	1.016	97.14	0.49	0.68	CSP	900
BV165	6.77	Intermittent	B	2.124	46.87	0.17	0.24	CSP	600
BV170	951.90	Intermittent	B	1.275	177.21	11.02	15.24	CSP	2 X 2000
BV175	19.83	Intermittent	B	2.395	61.85	0.42	0.58	CSP	900
BV180	34.12	Intermittent	B	3.286	110.32	0.84	1.16	CSP	1200
BV185	17.71	Intermittent	B	5.970	85.35	0.52	0.72	CSP	900
BV190	277.00	Intermittent	B	1.957	127.92	3.56	4.92	CSP	1600
BV195	471.75	Intermittent	B	2.800	103.02	11.12	15.38	CSP	2 X 2000
BV200	231.52	Intermittent	B	1.645	147.73	2.69	3.72	CSP	1400
BV205	353.60	Intermittent	B	1.447	162.08	3.86	5.33	CSP	1800
BV210	30.72	Intermittent	B	3.470	90.85	0.87	1.20	CSP	1200
BV215	25.12	Intermittent	B	4.413	88.74	0.72	1.00	CSP	900
BV220	200.62	Intermittent	B	2.248	94.85	3.17	4.39	CSP	1600
BV225	24.39	Intermittent	B	2.681	63.98	0.51	0.70	CSP	900
BV230	74.43	Intermittent	B	1.915	95.67	1.17	1.62	CSP	1200
BV235	7.26	Intermittent	B	3.222	66.49	0.25	0.35	CSP	900
BV240	24.60	Intermittent	B	2.552	58.26	0.54	0.75	CSP	900
BV245	93.27	Intermittent	B	1.829	102.91	1.39	1.93	CSP	1200
BV250	64.54	Intermittent	B	1.507	108.32	0.93	1.29	CSP	1200
BV255	14.03	Intermittent	B	1.464	79.54	0.25	0.35	CSP	900
BV265	149.93	Intermittent	B	0.635	189.39	1.47	2.03	CSP	1200

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface S <sub>i</sub> (%)	Tc (min)	Flux de conception (m <sup>3</sup> /s)		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV270A	164.68	Intermittent	B	0.859	158.22	1.83	2.53	CSP	1600
BV275	276.84	Intermittent	B	1.523	138.15	3.37	4.66	CSP	1600
BV285	909.43	Intermittent	B	1.184	205.03	8.43	11.65	CSP	2200
BV290	113.52	Intermittent	B	3.192	104.99	2.90	4.01	CSP	1600
BV295	23.64	Intermittent	B	2.466	68.74	0.47	0.65	CSP	900
BV300	69.74	Intermittent	B	2.125	77.79	1.26	1.75	CSP	1200
BV305	715.55	Intermittent	B	1.942	135.82	8.82	12.20	CSP	2200
BV310	28.04	Intermittent	B	7.874	88.90	0.80	1.11	CSP	1200
BV315	20.30	Intermittent	B	5.378	107.05	0.51	0.71	CSP	900
BV320	35.87	Intermittent	B	5.504	106.19	0.91	1.26	CSP	1200
BV325	985.93	Permanent Cours d'eau	B	1.844	176.83	12.59	17.42	SCA-12	9060 x 4530
BV330	19.44	Intermittent	B	1.732	77.14	0.35	0.49	CSP	900
BV335	154.51	Intermittent	B	1.643	116.51	2.12	2.93	CSP	1400
BV340	101.03	Intermittent	B	1.839	105.50	1.48	2.05	CSP	1200
BV345	5.51	Intermittent	B	2.502	45.75	0.14	0.20	CSP	600
BV350	480.42	Intermittent	B	2.304	146.56	5.62	7.77	CSP	2000
BV355	13.51	Intermittent	B	4.332	81.41	0.41	0.57	CSP	900
BV360	592.35	Permanent Cours d'eau	B	1.054	172.92	9.96	13.78	SCA-12	9060 x 4530
BV365	269.27	Permanent Cours d'eau	B	1.270	130.70	3.79	5.24	SCA-2	7250 x 3625
BV370	18.52	Intermittent	B	2.546	65.16	0.38	0.53	CSP	900
BV380	29.35	Intermittent	B	3.166	77.20	0.93	1.28	CSP	1200
BV385	19.31	Intermittent	B	1.046	80.50	0.34	0.47	CSP	900
BV390	29.28	Intermittent	B	1.962	64.07	0.61	0.84	CSP	900
BV395	12.70	Intermittent	B	1.050	72.76	0.24	0.33	CSP	900
BV400	99.01	Intermittent	B	1.252	124.56	1.30	1.79	CSP	1200
BV405	69.92	Intermittent	B	1.698	85.01	1.19	1.65	CSP	1200
BV410	606.59	Intermittent	B	0.958	217.96	10.55	14.59	CSP	2 X 2000
BV415	287.20	Intermittent	B	1.352	159.97	3.16	4.37	CSP	1600
BV420	114.31	Intermittent	B	2.619	81.74	2.00	2.77	CSP	1400
BV425	153.03	Intermittent	B	2.117	102.97	2.29	3.16	CSP	1400
BV430	125.69	Intermittent	B	1.854	111.79	1.77	2.45	CSP	1400
BV435	8.06	Intermittent	B	4.271	81.73	0.24	0.34	CSP	900
BV440	39.77	Intermittent	B	2.910	64.19	0.82	1.14	CSP	1200
BV445	375.44	Intermittent	B	1.435	146.06	4.40	6.09	CSP	1800
BV450	71.38	Intermittent	B	2.243	83.86	1.23	1.70	CSP	1200
BV455	35.86	Intermittent	B	2.035	68.69	0.71	0.98	CSP	1200
BV460	25.93	Intermittent	B	2.362	49.91	0.63	0.87	CSP	900
BV465	36.63	Intermittent	B	1.231	85.23	0.62	0.86	CSP	900
BV470	40.08	Intermittent	B	2.011	74.32	0.75	1.04	CSP	900
BV475	433.71	Intermittent	B	0.965	196.79	4.13	5.72	CSP	1800
BV480	23.56	Intermittent	B	2.515	60.45	1.98	2.73	CSP	1400
BV485	26.37	Intermittent	B	0.711	100.71	1.47	2.03	CSP	1400
BV490	67.06	Intermittent	B	2.138	93.73	1.07	1.48	CSP	1200

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface S <sub>i</sub> (%)	Tc (min)	Flux de conception (m <sup>3</sup> /s)		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV495	10.28	Intermittent	B	2.438	53.29	0.24	0.33	CSP	900
BV500	26.95	Intermittent	B	2.507	60.13	0.82	1.14	CSP	1200
BV505	309.44	Intermittent	B	1.195	166.72	4.13	5.72	CSP	1800
BV510	28.29	Intermittent	B	1.641	77.80	0.51	0.71	CSP	900
BV515	4416.75	Permanent Cours d'eau	B	0.108	693.71	19.22	26.58	SCA-30	12000 x 4259
BV520	108.85	Intermittent	B	1.761	101.94	1.64	2.26	CSP	1200
BV525	9.10	Intermittent	B	2.851	37.77	0.26	0.36	CSP	900
BV530	49.85	Intermittent	B	0.602	96.60	0.78	1.08	CSP	1200
BV535	49.08	Intermittent	B	2.554	56.62	1.10	1.53	CSP	1200
BV540	74.02	Intermittent	B	1.339	88.40	1.23	1.70	CSP	1200
BV550	60.46	Intermittent	B	1.058	86.54	1.02	1.41	CSP	1200
BV555	141.65	Intermittent	B	0.842	142.14	1.69	2.34	CSP	1400
BV560	1403.96	Intermittent	B	1.043	236.18	11.79	16.31	CSP	2 X 2000
BV565	22.89	Intermittent	B	2.258	57.13	0.51	0.71	CSP	900
BV570	35.07	Intermittent	B	1.957	66.38	0.71	0.98	CSP	1200
BV575	278.49	Intermittent	B	1.838	144.73	3.28	4.54	CSP	1800
BV580	171.00	Intermittent	B	1.668	123.24	2.25	3.12	CSP	1600
BV585	549.38	Permanent Cours d'eau	B	1.611	114.16	12.54	17.35	SCA-10	9000 x 3760
BV590	211.14	Intermittent	B	1.346	132.04	2.65	3.67	CSP	1600
BV595	38.73	Permanent Cours d'eau	B	1.502	82.69	13.22	18.28	SCA-90	24000 x 12040
BV600	17.39	Permanent Cours d'eau	B	4.873	75.68	13.78	19.05	SCA-39	13460 x 6730
BV605	269.36	Permanent Cours d'eau	B	1.348	131.21	3.40	4.70	SCA-66	18110 x 9068
BV610	216.98	Intermittent	B	2.119	92.80	3.48	4.82	CSP	1800
BV615	13.32	Intermittent	B	1.365	78.87	0.24	0.33	CSP	900
BV620	62.26	Intermittent	B	1.136	109.75	0.89	1.23	CSP	1200
BV625	260.54	Intermittent	B	0.984	172.08	3.85	5.33	CSP	2000
BV630	54.83	Intermittent	B	3.404	120.91	1.27	1.76	CSP	1200
BV635	212.41	Intermittent	B	0.481	184.76	2.12	2.93	CSP	1600
BV640	151.31	Intermittent	B	0.406	207.99	1.39	1.92	CSP	1400
BV645	22.88	Intermittent	B	0.965	68.96	0.45	0.62	CSP	900
BV650	322.13	Intermittent	B	0.782	170.01	3.40	4.70	CSP	1800
BV655	226.87	Intermittent	B	0.669	212.41	2.05	2.84	CSP	1400
BV660	27.02	Intermittent	B	3.115	75.82	0.86	1.20	CSP	1200
BV665	72.96	Intermittent	B	1.585	92.11	1.18	1.63	CSP	1200
BV670	47.95	Intermittent	B	2.018	78.57	0.86	1.19	CSP	1200
BV675	60.01	Intermittent	B	1.364	107.50	0.87	1.20	CSP	1200
BV680	63.48	Intermittent	B	1.552	91.36	1.03	1.42	CSP	1200
BV685	51.56	Intermittent	B	1.373	89.18	0.85	1.18	CSP	1200
BV690	161.22	Intermittent	B	1.437	105.14	2.37	3.28	CSP	1600
BV695	760.83	Permanent Cours d'eau	B	0.937	184.90	9.94	13.75	SCA-41	2 X (13980 x 6985)
BV700	13.21	Intermittent	B	2.355	53.29	0.31	0.43	CSP	900

Bassin versant	Area (ha)	Type de traversée de cours d'eau	NRCS Groupe hydrologique des sols	Pente de l'écoulement en surface $S_i$ (%)	Tc (min)	Flux de conception ( $m^3/s$ )		Type de structure	Dimension du ponceau (mm)
						25-yr	100-yr		
BV705	30.87	Intermittent	B	1.408	87.64	0.52	0.71	CSP	900
BV710	55.89	Intermittent	B	3.522	96.19	1.52	2.10	CSP	1400
BV715	49.82	Intermittent	B	2.681	84.33	0.85	1.18	CSP	1200
BV720	264.47	Intermittent	B	1.736	132.65	3.31	4.58	CSP	1800
BV725	51.35	Intermittent	B	1.949	95.84	0.81	1.11	CSP	1200
BV730	864.32	Intermittent	B	1.222	179.76	8.77	12.13	CSP	2 X 2000
BV735	67.92	Intermittent	B	2.372	82.93	1.18	1.63	CSP	1200
BV740	67.75	Intermittent	B	1.296	93.46	1.08	1.50	CSP	1200
BV745	71.61	Intermittent	B	2.611	73.88	1.35	1.86	CSP	1400
BV750	85.20	Intermittent	B	2.084	82.14	1.49	2.06	CSP	1400
BV755	45.20	Intermittent	B	1.008	91.54	0.73	1.01	CSP	1200
BV760	24.42	Intermittent	B	1.364	75.77	0.45	0.62	CSP	900
BV765	1241.78	Intermittent	B	1.996	198.47	11.77	16.27	CSP	3 X 2000
BV770	9.19	Intermittent	B	3.082	63.63	0.33	0.46	CSP	900
BV775	99.27	Intermittent	B	1.460	103.66	1.48	2.04	CSP	1400