Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

		PROJETOS					EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
		PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS / METAIS / ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
	Valor da Disciplina Sem o Risco	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.469.949,13	9.581.961,95	1.317.059,82	874.752,38	184.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	2.724.845,06	341.870,56	**80.767.733,72**
	PROBABILIDADE	0,70	0,70	0,20	0,20	0,50	0,35	0,35	0,35	0,35	0,70	0,15	0,15	0,70	0,35	0,35	0,35	0,35	0,15	0,35	0,70	0,70	0,70	0,70	0,15	0,35	0,35	0,35	0,35	0,35	0,15	0,15	0,35	0,05	0,05	0,05	0,05	-	0,35	
	IMPACTO	0,50	0,50	0,20	0,20	0,50	0,20	0,20	0,20	0,20	0,50	0,10	0,10	0,50	0,20	0,20	0,20	0,20	0,10	0,20	0,50	0,50	0,50	0,50	0,10	0,20	0,20	0,20	0,20	0,20	0,10	0,10	0,20	0,05	0,05	0,05	0,05	-	0,20	
ALEAT.PROB X IMP	1	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.825.884,31
ALEAT.PROB X IMP	2	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	410.244,67	87.614.210,30
ALEAT.PROB X IMP	3	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	184.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	341.870,56	89.189.629,25
ALEAT.PROB X IMP	4	9.003.379,37	4.144.401,05	197.868,09	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	630.343,58	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.086.193,43
ALEAT.PROB X IMP	5	9.003.379,37	2.762.934,03	197.868,09	850.412,08	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.710.115,91
ALEAT.PROB X IMP	6	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.469.949,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.315.854,21
ALEAT.PROB X IMP	7	9.003.379,37	2.762.934,03	237.441,71	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.469.949,13	11.498.354,34	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,80	13.545,58	64.978,84	57.222,67	-	341.870,56	87.302.413,58
ALEAT.PROB X IMP	8	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.469.949,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	630.343,58	313.310,02	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.006.551,11
ALEAT.PROB X IMP	9	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.469.949,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.931.891,66
ALEAT.PROB X IMP	10	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	410.244,67	91.087.481,34
ALEAT.PROB X IMP	11	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.546.233,94
ALEAT.PROB X IMP	12	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.469.949,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.216.333,67
ALEAT.PROB X IMP	13	9.003.379,37	2.762.934,03	237.441,71	850.412,08	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	341.870,56	90.694.549,26
ALEAT.PROB X IMP	14	6.002.252,91	4.144.401,05	197.868,09	850.412,08	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	410.244,67	91.686.101,33
ALEAT.PROB X IMP	15	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	410.244,67	88.330.454,58
ALEAT.PROB X IMP	16	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.469.949,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.682.294,96
ALEAT.PROB X IMP	17	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	13.545,58	64.978,84	57.222,67	-	410.244,67	89.698.489,33
ALEAT.PROB X IMP	18	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.469.949,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	13.545,58	64.978,84	57.222,67	-	410.244,67	91.043.643,75
ALEAT.PROB X IMP	19	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.469.949,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	410.244,67	89.884.124,47
ALEAT.PROB X IMP	20	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.469.949,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	341.870,56	87.033.973,76
ALEAT.PROB X IMP	21	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.828.702,01
ALEAT.PROB X IMP	22	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	596.143,96	747.569,60	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	341.870,56	84.772.719,88
ALEAT.PROB X IMP	23	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	341.870,56	91.137.831,84
ALEAT.PROB X IMP	24	9.003.379,37	2.762.934,03	197.868,09	850.412,08	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	410.244,67	91.111.761,56
ALEAT.PROB X IMP	25	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	341.870,56	85.302.876,88
ALEAT.PROB X IMP	26	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,80	13.545,58	64.978,84	57.222,67	-	410.244,67	87.457.067,78
ALEAT.PROB X IMP	27	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.469.949,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.332.448,20
ALEAT.PROB X IMP	28	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	630.343,58	261.091,68	1.935.446,85	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.611.533,94
ALEAT.PROB X IMP	29	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	92.418.163,20
ALEAT.PROB X IMP	30	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.171.414,97
ALEAT.PROB X IMP	31	9.003.379,37	4.144.401,05	237.441,71	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.469.949,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.233.344,45
ALEAT.PROB X IMP	32	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.572.150,84
ALEAT.PROB X IMP	33	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.584.713,57
ALEAT.PROB X IMP	34	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,80	12.900,55	64.978,84	57.222,67	-	410.244,67	92.632.624,25
ALEAT.PROB X IMP	35	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.475.660,24
ALEAT.PROB X IMP	36	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	630.343,58	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.805.088,48
ALEAT.PROB X IMP	37	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	811.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.466.728,62
ALEAT.PROB X IMP	38	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.223.041,18
ALEAT.PROB X IMP	39	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	REVESTIMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.330.977,50
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.820.001,59
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.737.794,92
ALEAT.PROB X IMP	6.002.252.91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.896.170,22
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	24.035,68	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	84.910.831,29
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.237.279,21
ALEAT.PROB X IMP	6.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.437.279,21
ALEAT.PROB X IMP	9.003.379.37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.676.399,64
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.851.161,48
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.049.702,86	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	24.035,68	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	91.189.660,73
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.917.040,95
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.337.238,14
ALEAT.PROB X IMP	6.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.860.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.905.431,76
ALEAT.PROB X IMP	9.003.379.37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.027.560,34
ALEAT.PROB X IMP	9.003.379.37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.096.891,90
ALEAT.PROB X IMP	6.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.634.039,84
ALEAT.PROB X IMP	9.003.379.37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.398.260,59
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.313.177,34
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.505.160,92
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.387.119,55
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.297.543,72
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.595.593,89
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.899.470,17
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	85.657.432,43
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	92.997.833,37
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	89.619.353,97
ALEAT.PROB X IMP	6.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.235.407,10
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.997.833,37
ALEAT.PROB X IMP	6.003.379.37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.617.353,97
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.235.407,10
ALEAT.PROB X IMP	6.002.252.91	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.737.744,35
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.631.751,29
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.860.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.176.571,57
ALEAT.PROB X IMP	9.003.379.37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.905.800,17

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																										PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	345	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.989.560,98
ALEAT.PROB X IMP	346	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.351.209,41
ALEAT.PROB X IMP	347	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.136.396,95
ALEAT.PROB X IMP	348	9.003.379,37	4.144.401,05	197.868,09	850.412,08	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.101.779,00
ALEAT.PROB X IMP	349	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	68.227,78	57.222,67	-	341.870,56	94.683.715,86
ALEAT.PROB X IMP	350	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.583.616,50
ALEAT.PROB X IMP	351	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.980.040,61
ALEAT.PROB X IMP	352	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	93.731.919,74
ALEAT.PROB X IMP	353	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.917.410,56
ALEAT.PROB X IMP	354	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.056.762,11
ALEAT.PROB X IMP	355	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.138.601,33
ALEAT.PROB X IMP	356	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.940.566,45
ALEAT.PROB X IMP	357	9.003.379,37	2.762.934,03	197.868,09	850.412,08	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.669.067,85
ALEAT.PROB X IMP	358	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	434.018,92	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.332.375,47
ALEAT.PROB X IMP	359	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.149.555,78
ALEAT.PROB X IMP	360	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.599.908,42
ALEAT.PROB X IMP	361	6.002.379,37	4.144.401,05	197.868,09	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	68.227,78	57.222,67	-	341.870,56	91.980.040,61
ALEAT.PROB X IMP	362	9.003.379,37	4.144.401,05	197.868,09	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	92.590.305,35
ALEAT.PROB X IMP	363	6.002.252,91	4.144.401,05	197.868,09	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.103.768,77
ALEAT.PROB X IMP	364	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	96.116.567,00
ALEAT.PROB X IMP	365	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	89.592.227,84
ALEAT.PROB X IMP	366	6.002.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.089.736,01
ALEAT.PROB X IMP	367	6.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.501.861,84
ALEAT.PROB X IMP	368	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.716.973,96
ALEAT.PROB X IMP	369	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.693.679,04
ALEAT.PROB X IMP	370	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.769.645,24
ALEAT.PROB X IMP	371	9.003.379,37	4.144.401,05	237.441,71	850.412,08	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.696.475,75
ALEAT.PROB X IMP	372	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.893.084,43
ALEAT.PROB X IMP	373	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.109.581,44
ALEAT.PROB X IMP	374	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.893.084,43
ALEAT.PROB X IMP	375	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.563.524,16
ALEAT.PROB X IMP	376	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	87.840.676,46
ALEAT.PROB X IMP	377	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.155.085,80
ALEAT.PROB X IMP	378	9.003.379,37	2.762.934,03	237.441,71	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.952.947,73
ALEAT.PROB X IMP	379	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.989.320,01
ALEAT.PROB X IMP	380	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.132.089,21
ALEAT.PROB X IMP	381	9.003.379,37	2.762.934,03	237.441,71	850.412,08	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.451.430,89
ALEAT.PROB X IMP	382	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.320.514,16
ALEAT.PROB X IMP	383	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.285.956,53
ALEAT.PROB X IMP	384	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.582.575,78
ALEAT.PROB X IMP	385	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDROSSANITÁRIAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	CONFORTO TÉRMICO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.318.751,10
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.476.957,45
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.911.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.631.131,18
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.245.295,68
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	341.870,56	87.209.903,50
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.911.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.338.776,22
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.036.336,33
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.070.345,21
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.819.321,45
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.305.637,56
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	341.870,56	94.439.449,78
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	85.908.960,81
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.911.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.972.450,16
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.275.867,45
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.830.828,48
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.911.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	341.870,56	91.036.008,26
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.598.390,97
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.904.136,53
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.093.572,15
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.547.290,48
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	86.262.927,95
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.876.202,20
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.911.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.548.686,82
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	341.870,56	96.584.679,37
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.825.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.474.424,70
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.823.644,16
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.943.944,01
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.092.115,65
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.847.679,13
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.911.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.176.876,22
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.911.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.464.891,91
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.911.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.864.999,71
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	83.709.608,35
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.304.382,31
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.027.231,47
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.193.317,61
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.927.710,10
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.202.040,34
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	83.913.819,23
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.965.095,79
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	695	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.496.593,31
ALEAT.PROB X IMP	696	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.933.908,98
ALEAT.PROB X IMP	697	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.110.759,54
ALEAT.PROB X IMP	698	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.189.099,21
ALEAT.PROB X IMP	699	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.079.784,08
ALEAT.PROB X IMP	700	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	60.083,80	85.090.682,67
ALEAT.PROB X IMP	701	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.529.610,43
ALEAT.PROB X IMP	702	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.113.542,00
ALEAT.PROB X IMP	703	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	79.129.088,54
ALEAT.PROB X IMP	704	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.659.679,31
ALEAT.PROB X IMP	705	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	89.974.627,54
ALEAT.PROB X IMP	706	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	992.205,84	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.927.643,34
ALEAT.PROB X IMP	707	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.556.370,80
ALEAT.PROB X IMP	708	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.650.279,15
ALEAT.PROB X IMP	709	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.990.353,47
ALEAT.PROB X IMP	710	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.372.607,04
ALEAT.PROB X IMP	711	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.425.344,47
ALEAT.PROB X IMP	712	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.525.121,10
ALEAT.PROB X IMP	713	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.104.575,11
ALEAT.PROB X IMP	714	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.155.089,46
ALEAT.PROB X IMP	715	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	83.703.814,47
ALEAT.PROB X IMP	716	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.904.171,35
ALEAT.PROB X IMP	717	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	86.575.063,26
ALEAT.PROB X IMP	718	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.681.101,39
ALEAT.PROB X IMP	719	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.666.061,41
ALEAT.PROB X IMP	720	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.507.516,51
ALEAT.PROB X IMP	721	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.557.813,19
ALEAT.PROB X IMP	722	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.341.552,00
ALEAT.PROB X IMP	723	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.037.188,29
ALEAT.PROB X IMP	724	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.834.691,80
ALEAT.PROB X IMP	725	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.548.972,28
ALEAT.PROB X IMP	726	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.857.384,10
ALEAT.PROB X IMP	727	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.127.257,54
ALEAT.PROB X IMP	728	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.810.915,02
ALEAT.PROB X IMP	729	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.673.417,90
ALEAT.PROB X IMP	730	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.805.928,24
ALEAT.PROB X IMP	731	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.759.670,71
ALEAT.PROB X IMP	732	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.605.579,61
ALEAT.PROB X IMP	733	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.672.636,54
ALEAT.PROB X IMP	734	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.226.082,17
ALEAT.PROB X IMP	735	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS											EXECUÇÃO DE OBRAS																				PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	870	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,54	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.703.292,16
ALEAT.PROB X IMP	871	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,54	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.503.228,93
ALEAT.PROB X IMP	872	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,21	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.907.561,74
ALEAT.PROB X IMP	873	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.335.665,16
ALEAT.PROB X IMP	874	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,21	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.109.188,21
ALEAT.PROB X IMP	875	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.667.417,09
ALEAT.PROB X IMP	876	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.282.130,02
ALEAT.PROB X IMP	877	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.030.525,77
ALEAT.PROB X IMP	878	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.098.479,63
ALEAT.PROB X IMP	879	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.353.661,52
ALEAT.PROB X IMP	880	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.959.680,36
ALEAT.PROB X IMP	881	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.804.146,89
ALEAT.PROB X IMP	882	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	2.037.679,45	4.038.401,93	3.538.770,61	8.285.534,58	992.205,84	905.415,52	659.033,20	525.286,32	313.310,02	2.322.536,21	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.321.597,38
ALEAT.PROB X IMP	883	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.547.977,13
ALEAT.PROB X IMP	884	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.514.917,26
ALEAT.PROB X IMP	885	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.013.210,16
ALEAT.PROB X IMP	886	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.573.874,79
ALEAT.PROB X IMP	887	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.016.298,81
ALEAT.PROB X IMP	888	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.098.479,63
ALEAT.PROB X IMP	889	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.049.702,86	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.538.770,61	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.006.638,64
ALEAT.PROB X IMP	890	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.538.770,61	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.424.695,00
ALEAT.PROB X IMP	891	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.743.995,03
ALEAT.PROB X IMP	892	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.322.536,21	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.613.845,98
ALEAT.PROB X IMP	893	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.499.375,44
ALEAT.PROB X IMP	894	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,21	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.569.477,23
ALEAT.PROB X IMP	895	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.021.893,04
ALEAT.PROB X IMP	896	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,21	89.985,83	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.783.366,12
ALEAT.PROB X IMP	897	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.581.132,04
ALEAT.PROB X IMP	898	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.870.361,12
ALEAT.PROB X IMP	899	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.396.059,28
ALEAT.PROB X IMP	900	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,21	81.805,30	596.143,96	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.581.132,04
ALEAT.PROB X IMP	901	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.417.697,89
ALEAT.PROB X IMP	902	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.694.234,49
ALEAT.PROB X IMP	903	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,21	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.978.556,88
ALEAT.PROB X IMP	904	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.518.829,92
ALEAT.PROB X IMP	905	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.022.164,19
ALEAT.PROB X IMP	906	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.744.575,63
ALEAT.PROB X IMP	907	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.121.943,96
ALEAT.PROB X IMP	908	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.415.545,58
ALEAT.PROB X IMP	909	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.169.659,08
ALEAT.PROB X IMP	910	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	164.257,53	1.425

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																														PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	1045	6.002.252.91	2.762.934.03	237.441.71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	160.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	55.720.742,22
ALEAT.PROB X IMP	1046	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	160.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.066.319,68
ALEAT.PROB X IMP	1047	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	154.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	93.557.589,48
ALEAT.PROB X IMP	1048	6.002.252.91	2.762.934.03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	160.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.185.841,72
ALEAT.PROB X IMP	1049	6.002.252.91	2.762.934.03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.865.160,65
ALEAT.PROB X IMP	1050	6.002.252.91	2.762.934.03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	91.608.131,79
ALEAT.PROB X IMP	1051	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.903.507,29
ALEAT.PROB X IMP	1052	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	160.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.587.132,39
ALEAT.PROB X IMP	1053	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.763.850,17
ALEAT.PROB X IMP	1054	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.273.151,40
ALEAT.PROB X IMP	1055	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.670.214,44
ALEAT.PROB X IMP	1056	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.877.251,89
ALEAT.PROB X IMP	1057	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.283.551,06
ALEAT.PROB X IMP	1058	9.003.379,37	2.762.934.03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.292.862,06
ALEAT.PROB X IMP	1059	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.791.143,45
ALEAT.PROB X IMP	1060	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.701.802,22
ALEAT.PROB X IMP	1061	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	160.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.886.749,49
ALEAT.PROB X IMP	1062	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	160.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	92.219.399,11
ALEAT.PROB X IMP	1063	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.827.511,75
ALEAT.PROB X IMP	1064	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.451.038,11
ALEAT.PROB X IMP	1065	9.003.379,37	2.762.934.03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,33	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.232.627,58
ALEAT.PROB X IMP	1066	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.419.280,69
ALEAT.PROB X IMP	1067	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.513.095,46
ALEAT.PROB X IMP	1068	6.002.252.91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.979.203,36
ALEAT.PROB X IMP	1069	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.385.573,96
ALEAT.PROB X IMP	1070	9.003.379,37	2.762.934.03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	91.667.661,36
ALEAT.PROB X IMP	1071	9.003.379,37	2.762.934.03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	160.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.454.372,11
ALEAT.PROB X IMP	1072	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,33	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.385.573,96
ALEAT.PROB X IMP	1073	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.065.468,33
ALEAT.PROB X IMP	1074	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,33	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.437.238,11
ALEAT.PROB X IMP	1075	6.002.252.91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.052.650,43
ALEAT.PROB X IMP	1076	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,33	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.916.621,48
ALEAT.PROB X IMP	1077	9.003.379,37	2.762.934.03	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.135.052,55
ALEAT.PROB X IMP	1078	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	2.322.536,22	89.985,33	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.073.273,54
ALEAT.PROB X IMP	1079	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.627.901,96
ALEAT.PROB X IMP	1080	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	160.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,33	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.952.008,01
ALEAT.PROB X IMP	1081	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	160.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.807.597,20
ALEAT.PROB X IMP	1082	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.642.627,36
ALEAT.PROB X IMP	1083	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.509.935,10
ALEAT.PROB X IMP	1084	6.002.252.91	2.762.934.03	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.207.586,72
ALEAT.PROB X IMP	1085	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	1220	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.477.557,73
ALEAT.PROB X IMP	1221	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	258.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	87.806.548,81
ALEAT.PROB X IMP	1222	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.945.405,39
ALEAT.PROB X IMP	1223	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.094.441,27
ALEAT.PROB X IMP	1224	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.705.025,53
ALEAT.PROB X IMP	1225	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.569.318,66
ALEAT.PROB X IMP	1226	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.087.023,82
ALEAT.PROB X IMP	1227	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.197.868,93
ALEAT.PROB X IMP	1228	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.855.038,26
ALEAT.PROB X IMP	1229	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	258.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.655.019,24
ALEAT.PROB X IMP	1230	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	95.843.185,14
ALEAT.PROB X IMP	1231	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.538.543,29
ALEAT.PROB X IMP	1232	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.122.982,08
ALEAT.PROB X IMP	1233	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.060.082,08
ALEAT.PROB X IMP	1234	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.083.082,68
ALEAT.PROB X IMP	1235	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.207.059,19
ALEAT.PROB X IMP	1236	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.049.250,10
ALEAT.PROB X IMP	1237	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.049.250,10
ALEAT.PROB X IMP	1238	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.322.908,09
ALEAT.PROB X IMP	1239	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.294.338,26
ALEAT.PROB X IMP	1240	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	68.277,84	57.222,67	-	341.870,56	84.422.769,17
ALEAT.PROB X IMP	1241	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.974.174,28
ALEAT.PROB X IMP	1242	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.190.436,55
ALEAT.PROB X IMP	1243	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.428.009,56
ALEAT.PROB X IMP	1244	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.144.547,49
ALEAT.PROB X IMP	1245	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.333.170,13
ALEAT.PROB X IMP	1246	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.376.932,70
ALEAT.PROB X IMP	1247	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.597.976,07
ALEAT.PROB X IMP	1248	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.597.976,07
ALEAT.PROB X IMP	1249	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.483.675,11
ALEAT.PROB X IMP	1250	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.041.207,42
ALEAT.PROB X IMP	1251	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.928.627,47
ALEAT.PROB X IMP	1252	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.441.237,56
ALEAT.PROB X IMP	1253	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.144.499,32
ALEAT.PROB X IMP	1254	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.848.963,83
ALEAT.PROB X IMP	1255	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.316.170,13
ALEAT.PROB X IMP	1256	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.854.555,09
ALEAT.PROB X IMP	1257	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.592.002,67
ALEAT.PROB X IMP	1258	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.030.499,02
ALEAT.PROB X IMP	1259	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.150.558,49
ALEAT.PROB X IMP	1260	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																												PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	EXPOSITORES	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	1395	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.562.128,59
ALEAT.PROB X IMP	1396	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.227,76	57.222,67	-	341.870,56	88.863.223,97
ALEAT.PROB X IMP	1397	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.166.421,85
ALEAT.PROB X IMP	1398	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.757,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.508.896,24
ALEAT.PROB X IMP	1399	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.510.864,67
ALEAT.PROB X IMP	1400	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.012.013,19
ALEAT.PROB X IMP	1401	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.464.725,88
ALEAT.PROB X IMP	1402	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	341.870,56	89.032.838,46
ALEAT.PROB X IMP	1403	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.820.860,19
ALEAT.PROB X IMP	1404	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.020.991,64
ALEAT.PROB X IMP	1405	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.067.434,90
ALEAT.PROB X IMP	1406	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.920.201,96
ALEAT.PROB X IMP	1407	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.757,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.994.985,17
ALEAT.PROB X IMP	1408	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	91.116.820,35
ALEAT.PROB X IMP	1409	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.908.208,85
ALEAT.PROB X IMP	1410	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.270.705,65
ALEAT.PROB X IMP	1411	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.548.138,39
ALEAT.PROB X IMP	1412	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.071.953,47
ALEAT.PROB X IMP	1413	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.820.860,19
ALEAT.PROB X IMP	1414	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.710.962,71	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.389.737,03
ALEAT.PROB X IMP	1415	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.227,76	57.222,67	-	341.870,56	85.506.963,68
ALEAT.PROB X IMP	1416	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.183.068,67
ALEAT.PROB X IMP	1417	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.221.527,88
ALEAT.PROB X IMP	1418	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.473.243,90
ALEAT.PROB X IMP	1419	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.894.743,79
ALEAT.PROB X IMP	1420	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.959.023,34
ALEAT.PROB X IMP	1421	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	92.132.672,87
ALEAT.PROB X IMP	1422	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.242.800,79
ALEAT.PROB X IMP	1423	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.820.254,04
ALEAT.PROB X IMP	1424	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.142.395,12
ALEAT.PROB X IMP	1425	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.770.948,38
ALEAT.PROB X IMP	1426	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.093.324,24
ALEAT.PROB X IMP	1427	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.131.566,17
ALEAT.PROB X IMP	1428	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.532.229,94
ALEAT.PROB X IMP	1429	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	82.820.467,10
ALEAT.PROB X IMP	1430	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.971.302,30
ALEAT.PROB X IMP	1431	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.012.013,19
ALEAT.PROB X IMP	1432	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.548.977,81
ALEAT.PROB X IMP	1433	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.065.953,50
ALEAT.PROB X IMP	1434	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.984.561,14
ALEAT.PROB X IMP	1435	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	1570	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.166.933,70
ALEAT.PROB X IMP	1571	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.756.683,12
ALEAT.PROB X IMP	1572	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.204.303,35
ALEAT.PROB X IMP	1573	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.322.536,22	805.30	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.239.193,84
ALEAT.PROB X IMP	1574	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.916.546,13
ALEAT.PROB X IMP	1575	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.213.418,01
ALEAT.PROB X IMP	1576	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.022.211,00
ALEAT.PROB X IMP	1577	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	80.825.724,37
ALEAT.PROB X IMP	1578	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.223.476,54
ALEAT.PROB X IMP	1579	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.474.578,51
ALEAT.PROB X IMP	1580	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.939.398,33
ALEAT.PROB X IMP	1581	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.184.427,56
ALEAT.PROB X IMP	1582	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.856.677,92
ALEAT.PROB X IMP	1583	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.219.414,44
ALEAT.PROB X IMP	1584	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.044.537,91
ALEAT.PROB X IMP	1585	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.439.680,12
ALEAT.PROB X IMP	1586	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.123.632,72
ALEAT.PROB X IMP	1587	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.540.854,77
ALEAT.PROB X IMP	1588	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	805.30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.888.410,73
ALEAT.PROB X IMP	1589	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.003.294,15
ALEAT.PROB X IMP	1590	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	805.30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.750.649,36
ALEAT.PROB X IMP	1591	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805.30	89.985,83	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.009.678,38
ALEAT.PROB X IMP	1592	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.256.419,78
ALEAT.PROB X IMP	1593	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.395.048,99
ALEAT.PROB X IMP	1594	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	805.30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.789.079,28
ALEAT.PROB X IMP	1595	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.838.673,25
ALEAT.PROB X IMP	1596	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	805.30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.403.231,61
ALEAT.PROB X IMP	1597	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.873.427,46
ALEAT.PROB X IMP	1598	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.086.196,07
ALEAT.PROB X IMP	1599	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.641.617,73
ALEAT.PROB X IMP	1600	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.902.320,65
ALEAT.PROB X IMP	1601	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.029.682,01
ALEAT.PROB X IMP	1602	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	89.985,83	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.915.960,34
ALEAT.PROB X IMP	1603	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.277.865,72
ALEAT.PROB X IMP	1604	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.322.536,22	805.30	89.985,83	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.666.779,22
ALEAT.PROB X IMP	1605	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.676.963,57
ALEAT.PROB X IMP	1606	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.541.358,89
ALEAT.PROB X IMP	1607	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.322.536,22	805.30	89.985,83	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.645.679,68
ALEAT.PROB X IMP	1608	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.902.283,93
ALEAT.PROB X IMP	1609	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.947.610,14
ALEAT.PROB X IMP	1610	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	CONFORTO TÉRMICO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
9.003.379.37	2.762.934.03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.194.383,83
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.868.819,17
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.795.730,79
6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.213.166,31
6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.103.158,97	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.080.848,34
9.003.379.37	2.762.934.03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	1.680.471,78	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.723.704,85
6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,54	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.626.004,24
6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.842.569,10
9.003.379.37	2.762.934.03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.969.802,09
9.003.379.37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.448.258,81
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.477.449,17
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.091.994,20
6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	83.188.971,54
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.391.780,01
9.003.379.37	2.762.934.03	237.441,71	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.002.848,55
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.724.616,16
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.377.616,02
9.003.379.37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.981.213,61
9.003.379.37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.020.625,59
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.290.326,53
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.299.293,03
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.122.303,00
9.003.379.37	2.762.934.03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,54	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.799.892,36
9.003.379.37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.886.892,90
6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.824.829,49
9.003.379.37	2.762.934.03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	1.680.471,78	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.173.000,19
9.003.379.37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.571.961,95
6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.881.961,25
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.842.640,61
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.786.973,80
9.003.379.37	2.762.934.03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.628.643,39
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.081.081,31
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.937.937,37
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.733.090,20
9.003.379.37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.588.502,29
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.625.521,81
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.344.562,79
9.003.379.37	2.762.934.03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.634.255,83
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.648.826,31
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	83.715.660,04
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.127.299,80
6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	95.968.935,77
9.003.379.37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																										PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441.71	708.676.72	3.421.260.21	7.717.466,83		4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.221.956,45
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	95.497.079,41
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36		4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	88.872.908,73
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.443.786,96
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83		4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.731.538,01
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83		4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.054.280,71
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.889.684,75
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36		4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.988.260,12
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.741.020,61
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.052.283,12
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.344.571,74
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.460.784,61
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83		4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.834.106,74
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.652.657,77
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.992.666,07
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.383.785,25
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.614.692,82
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.090.170,61
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.770.501,35
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36		3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.992.183,91
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.309.513,76
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.979.775,50
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.186.925,75
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.996.775,50
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.612.616,32
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.647.672,45
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.144.624,94
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36		4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	86.291.409,63
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.619.017,66
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.477.098,04
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.830.150,63
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.190.786,05
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	85.213.192,30
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.876.233,63
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.837.735,98
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.010.594,70
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.133.963,26
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.553.654,67
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.676.264,70
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83		3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.857.192,91
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36		4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																									PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	REVESTIMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**2095**	6.002.252.91	4.144.401.05	237.441.71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.263.835,18
ALEAT.PROB X IMP	**2096**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	85.929.312,10
ALEAT.PROB X IMP	**2097**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.688.816,21
ALEAT.PROB X IMP	**2098**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.489.245,55
ALEAT.PROB X IMP	**2099**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	92.480.474,22
ALEAT.PROB X IMP	**2100**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.774.991,93
ALEAT.PROB X IMP	**2101**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.323.172,72
ALEAT.PROB X IMP	**2102**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.272.836,31
ALEAT.PROB X IMP	**2103**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.601.770,05
ALEAT.PROB X IMP	**2104**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.487.475,73
ALEAT.PROB X IMP	**2105**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.100.357,57
ALEAT.PROB X IMP	**2106**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.201.398,75
ALEAT.PROB X IMP	**2107**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.580.170,22
ALEAT.PROB X IMP	**2108**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.351.215,15
ALEAT.PROB X IMP	**2109**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.439.957,03
ALEAT.PROB X IMP	**2110**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.538.550,74
ALEAT.PROB X IMP	**2111**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.957.593,08
ALEAT.PROB X IMP	**2112**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.715.675,84
ALEAT.PROB X IMP	**2113**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.541.621,00
ALEAT.PROB X IMP	**2114**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.358.542,17
ALEAT.PROB X IMP	**2115**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.183.653,51
ALEAT.PROB X IMP	**2116**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.548.262,53
ALEAT.PROB X IMP	**2117**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.602.413,17
ALEAT.PROB X IMP	**2118**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.700.660,65
ALEAT.PROB X IMP	**2119**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.448.246,47
ALEAT.PROB X IMP	**2120**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.232.424,28
ALEAT.PROB X IMP	**2121**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.427.478,34
ALEAT.PROB X IMP	**2122**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.635.635,86
ALEAT.PROB X IMP	**2123**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.741.251,35
ALEAT.PROB X IMP	**2124**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.457.782,38
ALEAT.PROB X IMP	**2125**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.340.133,43
ALEAT.PROB X IMP	**2126**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.531.904,19
ALEAT.PROB X IMP	**2127**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.977.555,36
ALEAT.PROB X IMP	**2128**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.363.859,77
ALEAT.PROB X IMP	**2129**	6.002.252.91	4.144.401.05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.172.169,92
ALEAT.PROB X IMP	**2130**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	341.870,56	94.536.878,76
ALEAT.PROB X IMP	**2131**	6.002.252.91	4.144.401.05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.793.504,47
ALEAT.PROB X IMP	**2132**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.125.136,03
ALEAT.PROB X IMP	**2133**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.044.548,02
ALEAT.PROB X IMP	**2134**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.807.311,53
ALEAT.PROB X IMP	**2135**	6.002.252.91	4.144.401.05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS											EXECUÇÃO DE OBRAS																		PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SOMBREAMENTO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	58.044.091,73
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.555.802,24
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.796.459,13
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.516.972,88
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.987.331,58
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.426.093,52
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.932.320,90
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.925.080,65
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.231.416,59
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.883.017,22
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.616.143,79
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.427.741,52
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.121.638,17
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.402.458,67
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.381.289,08
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.954.681,89
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.372.185,78
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.312.216,54
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.501.077,10
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.071.026,52
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.028.783,20
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.575.382,44
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.080.783,82
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.835.752,80
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.807.752,82
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.338.342,66
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.674.475,87
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.426.765,72
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.447.889,33
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.446.782,33
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.165.323,44
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.911.771,50
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.897.481,80
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.304.486,91
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.371.089,50
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.258.732,23
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.443.647,07
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.017.974,57
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.751.769,54
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																							PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	REVESTIMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTÉCNICA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.305,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.196.921,87
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.305,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.668.734,94
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	805.305,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.708.185,33
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	805.305,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.607.793,43
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	805.305,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.868.288,81
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.659.710,79
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.387.422,96
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.922.274,65
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	805.305,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.741.620,85
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.037.679,45	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.305,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.382.536,41
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,53	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.177.907,85
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,53	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.819.274,65
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,53	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.741.281,75
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	758.320,46	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,53	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.093.438,14
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.858.531,76
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	805.305,30	541.949,05	747.569,60	60.083,80	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.338.183,06
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.160.750,65
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,53	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.080.116,84
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805.305,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.940.878,46
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.305,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.441.096,76
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,53	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.650.807,68
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	805.305,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.202.817,38
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.489.031,29
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	805.305,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.696.873,30
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	805.305,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.846.032,01
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.718.813,48
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.305,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.240.285,27
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	805.305,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.712.527,68
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.028.306,17
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.305,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.142.634,96

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																									PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**2620**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.434.490,90
ALEAT.PROB X IMP	**2621**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.423.926,60
ALEAT.PROB X IMP	**2622**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	95.434.830,04
ALEAT.PROB X IMP	**2623**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.877.713,64
ALEAT.PROB X IMP	**2624**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.275.064,28
ALEAT.PROB X IMP	**2625**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.203.247,20
ALEAT.PROB X IMP	**2626**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.628.324,53
ALEAT.PROB X IMP	**2627**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.804.903,68
ALEAT.PROB X IMP	**2628**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.817.803,24
ALEAT.PROB X IMP	**2629**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.298.213,02
ALEAT.PROB X IMP	**2630**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.458.781,44
ALEAT.PROB X IMP	**2631**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.545.653,90
ALEAT.PROB X IMP	**2632**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.616.874,41
ALEAT.PROB X IMP	**2633**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.224.753,52
ALEAT.PROB X IMP	**2634**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.704.411,40
ALEAT.PROB X IMP	**2635**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.131.484,67
ALEAT.PROB X IMP	**2636**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.964.581,98
ALEAT.PROB X IMP	**2637**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.628.569,52
ALEAT.PROB X IMP	**2638**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.834.879,14
ALEAT.PROB X IMP	**2639**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.436.148,67
ALEAT.PROB X IMP	**2640**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.425.372,52
ALEAT.PROB X IMP	**2641**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.694.152,69
ALEAT.PROB X IMP	**2642**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.313.529,42
ALEAT.PROB X IMP	**2643**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	82.350.912,66
ALEAT.PROB X IMP	**2644**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.184.019,02
ALEAT.PROB X IMP	**2645**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.897.855,61
ALEAT.PROB X IMP	**2646**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.080.432,77
ALEAT.PROB X IMP	**2647**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.752.432,90
ALEAT.PROB X IMP	**2648**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.032.390,36
ALEAT.PROB X IMP	**2649**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.883.815,76
ALEAT.PROB X IMP	**2650**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.319.308,59
ALEAT.PROB X IMP	**2651**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.065.954,37
ALEAT.PROB X IMP	**2652**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.641.637,84
ALEAT.PROB X IMP	**2653**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.936.150,29
ALEAT.PROB X IMP	**2654**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.219.266,03
ALEAT.PROB X IMP	**2655**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.352.804,83
ALEAT.PROB X IMP	**2656**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	83.631.013,69
ALEAT.PROB X IMP	**2657**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.118.236,60
ALEAT.PROB X IMP	**2658**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.237.069,61
ALEAT.PROB X IMP	**2659**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.515.799,14
ALEAT.PROB X IMP	**2660**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	CONFORTO TÉRMICO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**2795**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	58.525.896,07
ALEAT.PROB X IMP	**2796**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.822.891,82
ALEAT.PROB X IMP	**2797**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.973.855,69
ALEAT.PROB X IMP	**2798**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.903.593,72
ALEAT.PROB X IMP	**2799**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.025.478,06
ALEAT.PROB X IMP	**2800**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.889.336,00
ALEAT.PROB X IMP	**2801**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.554.871,53
ALEAT.PROB X IMP	**2802**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.848.588,98
ALEAT.PROB X IMP	**2803**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.341.544,61
ALEAT.PROB X IMP	**2804**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.079.383,00
ALEAT.PROB X IMP	**2805**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.596.973,54
ALEAT.PROB X IMP	**2806**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.345.744,11
ALEAT.PROB X IMP	**2807**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.859.548,01
ALEAT.PROB X IMP	**2808**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.606.305,05
ALEAT.PROB X IMP	**2809**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.751.125,58
ALEAT.PROB X IMP	**2810**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.852.661,11
ALEAT.PROB X IMP	**2811**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.531.917,72
ALEAT.PROB X IMP	**2812**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	82.908.307,71
ALEAT.PROB X IMP	**2813**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.471.327,28
ALEAT.PROB X IMP	**2814**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.602.268,39
ALEAT.PROB X IMP	**2815**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.451.253,53
ALEAT.PROB X IMP	**2816**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.017.553,53
ALEAT.PROB X IMP	**2817**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.196.507,88
ALEAT.PROB X IMP	**2818**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.520.181,92
ALEAT.PROB X IMP	**2819**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	94.981.944,71
ALEAT.PROB X IMP	**2820**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.873.475,86
ALEAT.PROB X IMP	**2821**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.172.725,46
ALEAT.PROB X IMP	**2822**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.756.208,26
ALEAT.PROB X IMP	**2823**	6.002.252,91	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.064.555,80
ALEAT.PROB X IMP	**2824**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.144.510,85
ALEAT.PROB X IMP	**2825**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.070.506,63
ALEAT.PROB X IMP	**2826**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.866.515,78
ALEAT.PROB X IMP	**2827**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.823.412,47
ALEAT.PROB X IMP	**2828**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.070.506,63
ALEAT.PROB X IMP	**2829**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.866.515,78
ALEAT.PROB X IMP	**2830**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.220.061,47
ALEAT.PROB X IMP	**2831**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.095.531,72
ALEAT.PROB X IMP	**2832**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.241.511,72
ALEAT.PROB X IMP	**2833**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.847.883,67
ALEAT.PROB X IMP	**2834**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.242.988,27
ALEAT.PROB X IMP	**2835**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS / METAIS / ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	CLIMATIZAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**2970**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1640.257,53	1.425.802,26	1.852.435,86	3.365.334,94	1.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	55.565.991,10
ALEAT.PROB X IMP	**2971**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	258.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1640.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.040.011,70
ALEAT.PROB X IMP	**2972**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1640.257,53	1.425.802,26	1.852.435,86	3.365.334,94	1.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.855.801,30
ALEAT.PROB X IMP	**2973**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1640.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.489.794,59
ALEAT.PROB X IMP	**2974**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1640.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.255.267,67
ALEAT.PROB X IMP	**2975**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	4.221.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.240.131,09
ALEAT.PROB X IMP	**2976**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.497.692,15
ALEAT.PROB X IMP	**2977**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	258.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.817.398,40
ALEAT.PROB X IMP	**2978**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	258.320,46	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.383.103,78
ALEAT.PROB X IMP	**2979**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	60.083,80	410.244,67	91.795.295,12
ALEAT.PROB X IMP	**2980**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.662.205,49
ALEAT.PROB X IMP	**2981**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.371.784,41
ALEAT.PROB X IMP	**2982**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.155.508,61
ALEAT.PROB X IMP	**2983**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.509.034,41
ALEAT.PROB X IMP	**2984**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.884.213,03
ALEAT.PROB X IMP	**2985**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.992.112,26
ALEAT.PROB X IMP	**2986**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.664.490,00
ALEAT.PROB X IMP	**2987**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.743.411,51
ALEAT.PROB X IMP	**2988**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1680.283,68	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.194.815,39
ALEAT.PROB X IMP	**2989**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1640.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.399.991,13
ALEAT.PROB X IMP	**2990**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.346.377,32
ALEAT.PROB X IMP	**2991**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.229.783,54
ALEAT.PROB X IMP	**2992**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.690.835,10
ALEAT.PROB X IMP	**2993**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.902.737,47
ALEAT.PROB X IMP	**2994**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.393.110,94
ALEAT.PROB X IMP	**2995**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.273.723,67
ALEAT.PROB X IMP	**2996**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	60.083,80	410.244,67	92.318.306,74
ALEAT.PROB X IMP	**2997**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.727.034,90
ALEAT.PROB X IMP	**2998**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.918.159,42
ALEAT.PROB X IMP	**2999**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.399.991,13
ALEAT.PROB X IMP	**3000**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.115.632,93
ALEAT.PROB X IMP	**3001**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.549.908,21
ALEAT.PROB X IMP	**3002**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.791.780,21
ALEAT.PROB X IMP	**3003**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.463.570,38
ALEAT.PROB X IMP	**3004**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.383.110,94
ALEAT.PROB X IMP	**3005**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.647.893,24
ALEAT.PROB X IMP	**3006**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1680.283,68	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.848.397,61
ALEAT.PROB X IMP	**3007**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.023.727,64
ALEAT.PROB X IMP	**3008**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1680.283,68	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.983.344,37
ALEAT.PROB X IMP	**3009**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1680.283,68	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.627.308,14
ALEAT.PROB X IMP	**3010**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	REVESTIMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	3145	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.276.036,69
ALEAT.PROB X IMP	3146	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.159.438,95
ALEAT.PROB X IMP	3147	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.000.263,70
ALEAT.PROB X IMP	3148	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.241.680,18
ALEAT.PROB X IMP	3149	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.546.736,13
ALEAT.PROB X IMP	3150	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.546.119,23
ALEAT.PROB X IMP	3151	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.247.037,26
ALEAT.PROB X IMP	3152	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.441.586,93
ALEAT.PROB X IMP	3153	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.826.335,90
ALEAT.PROB X IMP	3154	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.851.032,29
ALEAT.PROB X IMP	3155	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.289.067,21
ALEAT.PROB X IMP	3156	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.836.335,90
ALEAT.PROB X IMP	3157	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.316.142,23
ALEAT.PROB X IMP	3158	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.801.013,08
ALEAT.PROB X IMP	3159	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.717.171,87
ALEAT.PROB X IMP	3160	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.507.071,48
ALEAT.PROB X IMP	3161	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.117.187,81
ALEAT.PROB X IMP	3162	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.476.003,18
ALEAT.PROB X IMP	3163	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.056.840,45
ALEAT.PROB X IMP	3164	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.225.004,77
ALEAT.PROB X IMP	3165	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.136.002,78
ALEAT.PROB X IMP	3166	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.411.093,92
ALEAT.PROB X IMP	3167	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.060.477,41
ALEAT.PROB X IMP	3168	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	81.169.411,24
ALEAT.PROB X IMP	3169	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.393.133,40
ALEAT.PROB X IMP	3170	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.830.474,99
ALEAT.PROB X IMP	3171	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.519.272,35
ALEAT.PROB X IMP	3172	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.732.490,89
ALEAT.PROB X IMP	3173	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.867.086,34
ALEAT.PROB X IMP	3174	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.350.458,04
ALEAT.PROB X IMP	3175	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.334.279,27
ALEAT.PROB X IMP	3176	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.040.241,93
ALEAT.PROB X IMP	3177	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	91.629.598,06
ALEAT.PROB X IMP	3178	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	91.007.223,77
ALEAT.PROB X IMP	3179	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.420.807,46
ALEAT.PROB X IMP	3180	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.228.792,43
ALEAT.PROB X IMP	3181	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.442.205,77
ALEAT.PROB X IMP	3182	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.176.150,47
ALEAT.PROB X IMP	3183	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.510.712,77
ALEAT.PROB X IMP	3184	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.208.245,44
ALEAT.PROB X IMP	3185	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																									PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	3320	6.002.252.91	4.144.401.05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.773.168,27
ALEAT.PROB X IMP	3321	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	68.227,76	57.222,67	-	341.870,56	89.286.545,91
ALEAT.PROB X IMP	3322	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.142.089,62
ALEAT.PROB X IMP	3323	6.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.830.093,86
ALEAT.PROB X IMP	3324	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.128.856,51
ALEAT.PROB X IMP	3325	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.686.717,50
ALEAT.PROB X IMP	3326	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.200.235,35
ALEAT.PROB X IMP	3327	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	82.934.079,07
ALEAT.PROB X IMP	3328	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.284.602,65
ALEAT.PROB X IMP	3329	6.002.252.91	2.762.934,03	237.441,71	850.412,06	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.393.536,16
ALEAT.PROB X IMP	3330	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.224.434,75
ALEAT.PROB X IMP	3331	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.353.571,44
ALEAT.PROB X IMP	3332	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.064.595,32
ALEAT.PROB X IMP	3333	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.741.341,52
ALEAT.PROB X IMP	3334	6.002.252.91	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.148.611,66
ALEAT.PROB X IMP	3335	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.088.297,03
ALEAT.PROB X IMP	3336	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.440.220,55
ALEAT.PROB X IMP	3337	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.154.375,11
ALEAT.PROB X IMP	3338	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.758.380,46
ALEAT.PROB X IMP	3339	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.739.069,19
ALEAT.PROB X IMP	3340	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.290.705,27
ALEAT.PROB X IMP	3341	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.370.557,78
ALEAT.PROB X IMP	3342	6.002.252.91	2.762.934,03	197.868,09	850.412,06	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.772.239,69
ALEAT.PROB X IMP	3343	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.713.222,03
ALEAT.PROB X IMP	3344	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.930.327,78
ALEAT.PROB X IMP	3345	6.002.252.91	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.990.326,30
ALEAT.PROB X IMP	3346	6.002.252.91	4.144.401,05	237.441,71	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.615.084,91
ALEAT.PROB X IMP	3347	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.705.591,21
ALEAT.PROB X IMP	3348	6.002.252.91	4.144.401,05	197.868,09	850.412,06	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	92.127.590,21
ALEAT.PROB X IMP	3349	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.498.596,22
ALEAT.PROB X IMP	3350	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	90.945.169,48
ALEAT.PROB X IMP	3351	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.000.295,91
ALEAT.PROB X IMP	3352	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.771.672,05
ALEAT.PROB X IMP	3353	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.841.119,42
ALEAT.PROB X IMP	3354	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.777.042,80
ALEAT.PROB X IMP	3355	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.255.326,64
ALEAT.PROB X IMP	3356	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.757.648,56
ALEAT.PROB X IMP	3357	6.002.252.91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.313.093,99
ALEAT.PROB X IMP	3358	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.903.866,29
ALEAT.PROB X IMP	3359	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	68.227,76	-	410.244,67	93.368.669,90
ALEAT.PROB X IMP	3360	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**3495**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.180.683,28	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	281.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	81.187.175,22
ALEAT.PROB X IMP	**3496**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,94	1.580.471,78	1.049.702,86	1.642.757,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.932.154,87
ALEAT.PROB X IMP	**3497**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.853.474,43
ALEAT.PROB X IMP	**3498**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	385.100,89	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.279.594,09
ALEAT.PROB X IMP	**3499**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.505.359,04
ALEAT.PROB X IMP	**3500**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,94	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.481.460,74
ALEAT.PROB X IMP	**3501**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.184.730,34
ALEAT.PROB X IMP	**3502**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,94	1.580.471,78	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.512.563,54
ALEAT.PROB X IMP	**3503**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.351.735,97
ALEAT.PROB X IMP	**3504**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.679.367,38
ALEAT.PROB X IMP	**3505**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.925.511,88
ALEAT.PROB X IMP	**3506**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.368.606,52
ALEAT.PROB X IMP	**3507**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	2.037.679,45	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.158.972,78
ALEAT.PROB X IMP	**3508**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.980.137,62
ALEAT.PROB X IMP	**3509**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,94	1.580.471,78	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.317.332,76
ALEAT.PROB X IMP	**3510**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.630.696,96
ALEAT.PROB X IMP	**3511**	6.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	385.100,89	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.775.235,87
ALEAT.PROB X IMP	**3512**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.845.539,42
ALEAT.PROB X IMP	**3513**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.135.968,47
ALEAT.PROB X IMP	**3514**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,94	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.133.649,08
ALEAT.PROB X IMP	**3515**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.078.060,06
ALEAT.PROB X IMP	**3516**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.048.749,01
ALEAT.PROB X IMP	**3517**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	385.100,89	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.458.749,01
ALEAT.PROB X IMP	**3518**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	11.498.354,94	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.377.134,37
ALEAT.PROB X IMP	**3519**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.251.533,94
ALEAT.PROB X IMP	**3520**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.204.810,48
ALEAT.PROB X IMP	**3521**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.746.342,21
ALEAT.PROB X IMP	**3522**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.665.453,79
ALEAT.PROB X IMP	**3523**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.103.856,28
ALEAT.PROB X IMP	**3524**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.504.954,91
ALEAT.PROB X IMP	**3525**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	385.100,89	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.166.822,25
ALEAT.PROB X IMP	**3526**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,94	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.578.760,36
ALEAT.PROB X IMP	**3527**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.466.495,99
ALEAT.PROB X IMP	**3528**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.938.985,48
ALEAT.PROB X IMP	**3529**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.562.399,34
ALEAT.PROB X IMP	**3530**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	385.100,89	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.448.714,81
ALEAT.PROB X IMP	**3531**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.200.733,55
ALEAT.PROB X IMP	**3532**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.657.899,34
ALEAT.PROB X IMP	**3533**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.505.689,74
ALEAT.PROB X IMP	**3534**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.678.256,81
ALEAT.PROB X IMP	**3535**	9.003.379,37	4.144.401,05	237.441,71	708.676

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	COMUNICAÇÃO VISUAL	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**3670**	6.002.252.91	4.144.401.05	197.868,09	850.412,06	2.280.840,14	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	281.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.147.306,24
ALEAT.PROB X IMP	**3671**	6.002.252.91	4.144.401.05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	358.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	281.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.427.206,83
ALEAT.PROB X IMP	**3672**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	281.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.581.361,68
ALEAT.PROB X IMP	**3673**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.769.786,78
ALEAT.PROB X IMP	**3674**	9.003.379,37	4.144.401.05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	95.369.529,27
ALEAT.PROB X IMP	**3675**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.578.102,11
ALEAT.PROB X IMP	**3676**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.076.796,73
ALEAT.PROB X IMP	**3677**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.746.052,67
ALEAT.PROB X IMP	**3678**	9.003.379,37	4.144.401.05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.497.153,96
ALEAT.PROB X IMP	**3679**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.541.251,46
ALEAT.PROB X IMP	**3680**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	92.091.535,19
ALEAT.PROB X IMP	**3681**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.128.481,75
ALEAT.PROB X IMP	**3682**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.659.660,97
ALEAT.PROB X IMP	**3683**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	96.464.321,27
ALEAT.PROB X IMP	**3684**	9.003.379,37	4.144.401.05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.347.017,43
ALEAT.PROB X IMP	**3685**	6.002.252.91	4.144.401.05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.694.246,01
ALEAT.PROB X IMP	**3686**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.894.167,68
ALEAT.PROB X IMP	**3687**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.588.252,15
ALEAT.PROB X IMP	**3688**	9.003.379,37	4.144.401.05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.937.079,22
ALEAT.PROB X IMP	**3689**	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.833.797,29
ALEAT.PROB X IMP	**3690**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.810.382,10
ALEAT.PROB X IMP	**3691**	9.003.379,37	4.144.401.05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.227.543,63
ALEAT.PROB X IMP	**3692**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.028.987,37
ALEAT.PROB X IMP	**3693**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.700.078,96
ALEAT.PROB X IMP	**3694**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	905.445,52	594.194,33	525.286,32	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.384.107,66
ALEAT.PROB X IMP	**3695**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.118.895,34
ALEAT.PROB X IMP	**3696**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.445,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.886.404,67
ALEAT.PROB X IMP	**3697**	9.003.379,37	4.144.401.05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.945.178,04
ALEAT.PROB X IMP	**3698**	9.003.379,37	4.144.401.05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.692.848,46
ALEAT.PROB X IMP	**3699**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.838.707,29
ALEAT.PROB X IMP	**3700**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.843.041,83
ALEAT.PROB X IMP	**3701**	9.003.379,37	4.144.401.05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.640.287,59
ALEAT.PROB X IMP	**3702**	9.003.379,37	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.823.817,05
ALEAT.PROB X IMP	**3703**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.649.702,86	1.680.683,28	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	92.097.385,94
ALEAT.PROB X IMP	**3704**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	905.445,52	594.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.390.491,19
ALEAT.PROB X IMP	**3705**	6.002.252.91	4.144.401.05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.263.275,05
ALEAT.PROB X IMP	**3706**	9.003.379,37	4.144.401.05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.775.448,27
ALEAT.PROB X IMP	**3707**	9.003.379,37	4.144.401.05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.502.299,34
ALEAT.PROB X IMP	**3708**	6.002.252.91	4.144.401.05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.649.702,86	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.376.256,32
ALEAT.PROB X IMP	**3709**	9.003.379,37	4.144.401.05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.938.058,31
ALEAT.PROB X IMP	**3710**

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS						EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**3845**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.640.702,66	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	38.950.964,77
ALEAT.PROB X IMP	**3846**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.640.702,66	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	897.083,52	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.776.119,21
ALEAT.PROB X IMP	**3847**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.640.702,66	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.799.641,54
ALEAT.PROB X IMP	**3848**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	897.083,52	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.027.574,65
ALEAT.PROB X IMP	**3849**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.718.396,12
ALEAT.PROB X IMP	**3850**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.640.702,66	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.686.634,79
ALEAT.PROB X IMP	**3851**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.640.702,66	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.445.485,30
ALEAT.PROB X IMP	**3852**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.786.708,47
ALEAT.PROB X IMP	**3853**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.122.675,41
ALEAT.PROB X IMP	**3854**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	83.411.082,51
ALEAT.PROB X IMP	**3855**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.106.900,12
ALEAT.PROB X IMP	**3856**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.385.873,64
ALEAT.PROB X IMP	**3857**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.402.054,38
ALEAT.PROB X IMP	**3858**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.753,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.260.456,22
ALEAT.PROB X IMP	**3859**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.640.702,66	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.821.026,48
ALEAT.PROB X IMP	**3860**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.140.757,45
ALEAT.PROB X IMP	**3861**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.119.460,84
ALEAT.PROB X IMP	**3862**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.080.998,83
ALEAT.PROB X IMP	**3863**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	693.033,20	630.343,58	313.310,02	2.322.536,22	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.672.706,95
ALEAT.PROB X IMP	**3864**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	811.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.006.703,04
ALEAT.PROB X IMP	**3865**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.686.205,07
ALEAT.PROB X IMP	**3866**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	596.143,96	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	83.701.100,76
ALEAT.PROB X IMP	**3868**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	693.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	60.083,80	-	341.870,56	91.465.911,97
ALEAT.PROB X IMP	**3869**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.428.241,49
ALEAT.PROB X IMP	**3870**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.302.511,44
ALEAT.PROB X IMP	**3871**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.999.886,44
ALEAT.PROB X IMP	**3872**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.095.031,44
ALEAT.PROB X IMP	**3873**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.753,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.075.303,05
ALEAT.PROB X IMP	**3874**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.753,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.807.202,71
ALEAT.PROB X IMP	**3875**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.438.428,66
ALEAT.PROB X IMP	**3876**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	2.037.679,45	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.505.546,80
ALEAT.PROB X IMP	**3877**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.033.321,30
ALEAT.PROB X IMP	**3878**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.423.749,83
ALEAT.PROB X IMP	**3880**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	811.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	89.172.348,21
ALEAT.PROB X IMP	**3881**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.492.647,04
ALEAT.PROB X IMP	**3882**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.447.644,74
ALEAT.PROB X IMP	**3883**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.012.356,37
ALEAT.PROB X IMP	**3884**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.521.066,47
ALEAT.PROB X IMP	**3885**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	811.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.494.281,95
ALEAT.PROB X IMP	**3886**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.753,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	811.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.921.911,72
ALEAT.PROB X IMP	**3888

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	REVESTIMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	CONFORTO TÉRMICO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.099.930,67
ALEAT.PROB X IMP	**4020**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.102.620,30
ALEAT.PROB X IMP	**4022**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.300.580,25
ALEAT.PROB X IMP	**4023**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.231.998,31
ALEAT.PROB X IMP	**4024**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.270.908,52
ALEAT.PROB X IMP	**4025**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.010.750,88
ALEAT.PROB X IMP	**4026**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.335.167,14
ALEAT.PROB X IMP	**4027**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	91.384.572,54
ALEAT.PROB X IMP	**4028**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.548.735,19
ALEAT.PROB X IMP	**4029**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.609.029,28
ALEAT.PROB X IMP	**4030**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.444.373,09
ALEAT.PROB X IMP	**4031**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.186.662,79
ALEAT.PROB X IMP	**4032**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.567.015,95
ALEAT.PROB X IMP	**4033**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	85.929.894,06
ALEAT.PROB X IMP	**4034**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.094.671,43
ALEAT.PROB X IMP	**4035**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.757,53	1.825.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.097.462,72
ALEAT.PROB X IMP	**4036**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.593.476,56
ALEAT.PROB X IMP	**4037**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.736.432,48
ALEAT.PROB X IMP	**4038**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.854.534,37
ALEAT.PROB X IMP	**4039**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	758.320,46	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	92.416.594,22
ALEAT.PROB X IMP	**4040**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.610.107,30
ALEAT.PROB X IMP	**4041**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.872.860,69
ALEAT.PROB X IMP	**4042**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.929.276,04
ALEAT.PROB X IMP	**4043**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.543.675,36
ALEAT.PROB X IMP	**4044**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.645.629,72
ALEAT.PROB X IMP	**4045**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.899.950,89
ALEAT.PROB X IMP	**4046**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.420.827,13
ALEAT.PROB X IMP	**4047**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.435.737,39
ALEAT.PROB X IMP	**4048**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	758.320,46	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.842.722,46
ALEAT.PROB X IMP	**4049**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.825.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.326.815,35
ALEAT.PROB X IMP	**4050**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.936.048,77
ALEAT.PROB X IMP	**4051**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.054.491,93
ALEAT.PROB X IMP	**4052**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.373.205,42
ALEAT.PROB X IMP	**4053**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.015.292,69
ALEAT.PROB X IMP	**4054**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.425.318,73
ALEAT.PROB X IMP	**4055**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.890.482,63
ALEAT.PROB X IMP	**4056**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.531.489,41
ALEAT.PROB X IMP	**4057**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.853.524,79
ALEAT.PROB X IMP	**4058**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.509.844,22
ALEAT.PROB X IMP	**4059**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.757,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.234.809,78
ALEAT.PROB X IMP	**4060**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	305

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO – PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	4195	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	1.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.402.622,40
ALEAT.PROB X IMP	4196	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.208.038,25
ALEAT.PROB X IMP	4197	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	1.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.027.272,95
ALEAT.PROB X IMP	4198	6.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	1.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.792.149,99
ALEAT.PROB X IMP	4199	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.623.100,18
ALEAT.PROB X IMP	4200	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.694.380,01
ALEAT.PROB X IMP	4201	6.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	1.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.105.893,50
ALEAT.PROB X IMP	4202	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.837.558,85
ALEAT.PROB X IMP	4203	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	1.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.332.764,38
ALEAT.PROB X IMP	4204	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	1.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.491.943,89
ALEAT.PROB X IMP	4205	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.093.456,16
ALEAT.PROB X IMP	4206	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.948.273,29
ALEAT.PROB X IMP	4207	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.698.367,33
ALEAT.PROB X IMP	4208	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.267.180,72
ALEAT.PROB X IMP	4209	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.627.900,31
ALEAT.PROB X IMP	4210	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.554.825,26
ALEAT.PROB X IMP	4211	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.750.334,95
ALEAT.PROB X IMP	4212	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	96.162.753,69
ALEAT.PROB X IMP	4213	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.039.021,68
ALEAT.PROB X IMP	4214	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	1.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.494.247,25
ALEAT.PROB X IMP	4215	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	341.870,56	88.834.013,31
ALEAT.PROB X IMP	4216	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	1.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.304.617,93
ALEAT.PROB X IMP	4217	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	1.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.093.320,82
ALEAT.PROB X IMP	4218	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.942.200,32
ALEAT.PROB X IMP	4219	6.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.660.023,26
ALEAT.PROB X IMP	4220	6.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.417.020,00
ALEAT.PROB X IMP	4221	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.754.016,20
ALEAT.PROB X IMP	4222	6.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.714.389,76
ALEAT.PROB X IMP	4223	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.827.871,72
ALEAT.PROB X IMP	4224	6.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.096.597,72
ALEAT.PROB X IMP	4225	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.677.056,52
ALEAT.PROB X IMP	4226	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.701.757,60
ALEAT.PROB X IMP	4227	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.685.585,33
ALEAT.PROB X IMP	4228	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.880.077,75
ALEAT.PROB X IMP	4229	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.943.303,58
ALEAT.PROB X IMP	4230	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	1.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.430.014,13
ALEAT.PROB X IMP	4231	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.705.371,06
ALEAT.PROB X IMP	4232	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.911.972,01
ALEAT.PROB X IMP	4233	6.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	95.013.399,80
ALEAT.PROB X IMP	4234	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.202.478,31
ALEAT.PROB X IMP	4235	6.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS		EXECUÇÃO DE OBRAS																											PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.424.164,49
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.695.605,04
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.300.036,61
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.302.245,74
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.304.385,22
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.009.788,44
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.052.474,91
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.495.271,60
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.589.874,70
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.108.805,26
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.146.475,72
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.786.166,45
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.912.582,77
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	96.284.608,03
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.730.440,29
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.497.119,94
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.414.752,15
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.426.718,07
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.245.835,35
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.620.513,45
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.297.337,03
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	87.257.841,16
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.217.683,36
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	95.889.174,70
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	89.372.764,49
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	89.421.693,94
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.423.693,71
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.423.693,71
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.314.939,29
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.314.939,29
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.296.250,08
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.296.250,08
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.423.693,71
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.423.693,71
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS										EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	COMUNICAÇÃO VISUAL	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	4545	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.799.278,28
ALEAT.PROB X IMP	4546	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.517.786,64
ALEAT.PROB X IMP	4547	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.387.899,08
ALEAT.PROB X IMP	4548	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.696.411,59
ALEAT.PROB X IMP	4549	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	96.170.091,01
ALEAT.PROB X IMP	4550	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.518.128,03
ALEAT.PROB X IMP	4551	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.615.064,25
ALEAT.PROB X IMP	4552	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.087.079,66
ALEAT.PROB X IMP	4553	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.274.171,08
ALEAT.PROB X IMP	4554	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.614.656,19
ALEAT.PROB X IMP	4555	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.004.184,31
ALEAT.PROB X IMP	4556	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.994.475,77
ALEAT.PROB X IMP	4557	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.772.711,14
ALEAT.PROB X IMP	4558	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	82.177.597,28
ALEAT.PROB X IMP	4559	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.931.492,77
ALEAT.PROB X IMP	4560	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.310.549,14
ALEAT.PROB X IMP	4561	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.185.121,92
ALEAT.PROB X IMP	4562	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.095.021,44
ALEAT.PROB X IMP	4563	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.551.334,08
ALEAT.PROB X IMP	4564	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.156.113,45
ALEAT.PROB X IMP	4565	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.376.618,83
ALEAT.PROB X IMP	4566	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.959.816,45
ALEAT.PROB X IMP	4567	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.299.380,73
ALEAT.PROB X IMP	4568	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.166.963,16
ALEAT.PROB X IMP	4569	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.533.807,05
ALEAT.PROB X IMP	4570	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.621.185,18
ALEAT.PROB X IMP	4571	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	95.900.618,33
ALEAT.PROB X IMP	4572	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.602.027,41
ALEAT.PROB X IMP	4573	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.409.535,27
ALEAT.PROB X IMP	4574	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.809.377,16
ALEAT.PROB X IMP	4575	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.055.374,66
ALEAT.PROB X IMP	4576	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.906.843,38
ALEAT.PROB X IMP	4577	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.090.175,34
ALEAT.PROB X IMP	4578	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.573.085,39
ALEAT.PROB X IMP	4579	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.655.635,19
ALEAT.PROB X IMP	4580	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.452.008,11
ALEAT.PROB X IMP	4581	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.088.331,56
ALEAT.PROB X IMP	4582	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.962.602,41
ALEAT.PROB X IMP	4583	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.064.814,90
ALEAT.PROB X IMP	4584	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.835.106,73
ALEAT.PROB X IMP	4585	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	4720	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.892.719,55
ALEAT.PROB X IMP	4721	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.872.829,16
ALEAT.PROB X IMP	4722	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.745.189,41
ALEAT.PROB X IMP	4723	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.539.654,74
ALEAT.PROB X IMP	4724	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	341.870,56	87.012.060,28
ALEAT.PROB X IMP	4725	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	68.227,76	57.222,67	-	341.870,56	92.266.041,65
ALEAT.PROB X IMP	4726	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	68.227,76	57.222,67	-	341.870,56	95.311.447,10
ALEAT.PROB X IMP	4727	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	85.287.621,57
ALEAT.PROB X IMP	4728	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.470.550,06
ALEAT.PROB X IMP	4729	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	94.426.115,43
ALEAT.PROB X IMP	4730	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.677.647,67
ALEAT.PROB X IMP	4731	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.475.174,90
ALEAT.PROB X IMP	4732	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.854.361,09
ALEAT.PROB X IMP	4733	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.624.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.572.876,62
ALEAT.PROB X IMP	4734	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.624.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.897.652,31
ALEAT.PROB X IMP	4735	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.518.577,69
ALEAT.PROB X IMP	4736	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.624.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	82.887.100,25
ALEAT.PROB X IMP	4737	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1.624.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.969.094,61
ALEAT.PROB X IMP	4738	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.356.449,24
ALEAT.PROB X IMP	4739	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.227,76	57.222,67	-	341.870,56	89.845.706,67
ALEAT.PROB X IMP	4740	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.530.731,15
ALEAT.PROB X IMP	4741	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.310.869,24
ALEAT.PROB X IMP	4742	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.143.006,09
ALEAT.PROB X IMP	4743	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.310.869,24
ALEAT.PROB X IMP	4744	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.143.006,09
ALEAT.PROB X IMP	4745	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.624.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.039.137,53
ALEAT.PROB X IMP	4746	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.134.122,04
ALEAT.PROB X IMP	4747	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.346.483,53
ALEAT.PROB X IMP	4748	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.602.316,21
ALEAT.PROB X IMP	4749	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.624.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.663.293,73
ALEAT.PROB X IMP	4750	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.624.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.680.418,10
ALEAT.PROB X IMP	4751	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.624.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.748.285,50
ALEAT.PROB X IMP	4752	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.839.306,67
ALEAT.PROB X IMP	4753	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1.624.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.861.855,28
ALEAT.PROB X IMP	4754	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.298.332,04
ALEAT.PROB X IMP	4755	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.624.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.949.012,60
ALEAT.PROB X IMP	4756	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.624.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.178.162,86
ALEAT.PROB X IMP	4757	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.624.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.707.979,06
ALEAT.PROB X IMP	4758	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1.624.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.890.510,38
ALEAT.PROB X IMP	4759	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1.624.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.375.013,60
ALEAT.PROB X IMP	4760	6.002.252,91	4.144.401,05	237.441,71	850.412,06

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HOSPITALAR	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E INSTALAÇÃO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	CONFORTO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.875.427,67
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.264.942,93
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	892.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.500.495,65
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.490.008,19
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.330.410,98
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.832.663,99
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.991.436,36
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.232.927,88
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.905.430,74
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	24.035,68	240.606,60	12.900,55	68.277,84	57.222,67	-	341.870,56	90.563.541,47
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.277,84	57.222,67	-	341.870,56	89.303.264,47
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.905.430,74
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.905.430,74
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	68.277,84	57.222,67	-	341.870,56	89.501.518,49
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.103.368,36
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	68.277,84	57.222,67	-	410.244,67	88.911.617,81
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.118.496,57
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	89.503.368,36
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	68.277,84	57.222,67	-	410.244,67	91.443.829,08
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.529.856,84
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.607.259,01
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.443.829,08
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.529.856,84
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.309.121,73
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.751.758,74
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.803.042,89
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.816.600,84
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	89.518.496,57
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.103.368,36
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	68.277,84	57.222,67	-	410.244,67	88.911.617,81
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.668.399,86
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.398.250,79
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.905.430,74
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.855.916,56
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.668.399,86
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.379.319,86
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.327.147,14
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.668.399,86
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.855.916,56
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.303.264,47
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**5070**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.470.060,58
ALEAT.PROB X IMP	**5071**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.681.833,99
ALEAT.PROB X IMP	**5072**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.934.059,61
ALEAT.PROB X IMP	**5073**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.103.158,97	1.489.849,13	9.581.961,54	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	24.035,88	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	93.500.412,91
ALEAT.PROB X IMP	**5074**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	83.831.706,70
ALEAT.PROB X IMP	**5075**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.464.147,06
ALEAT.PROB X IMP	**5076**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	83.686.738,74
ALEAT.PROB X IMP	**5077**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	95.834.681,21
ALEAT.PROB X IMP	**5078**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.501.010,22
ALEAT.PROB X IMP	**5079**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,54	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.472.835,00
ALEAT.PROB X IMP	**5080**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.034.525,78
ALEAT.PROB X IMP	**5081**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	90.714.622,57
ALEAT.PROB X IMP	**5082**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.740.600,88
ALEAT.PROB X IMP	**5083**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.419.206,55
ALEAT.PROB X IMP	**5084**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.466.216,66
ALEAT.PROB X IMP	**5085**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.332.123,39
ALEAT.PROB X IMP	**5086**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	1.489.849,13	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.677.423,32
ALEAT.PROB X IMP	**5087**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,54	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.743.342,54
ALEAT.PROB X IMP	**5088**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	82.620.142,58
ALEAT.PROB X IMP	**5089**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	1.489.849,13	9.581.961,54	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.534.987,74
ALEAT.PROB X IMP	**5090**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.965.606,17
ALEAT.PROB X IMP	**5091**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.870.755,02
ALEAT.PROB X IMP	**5092**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	82.338.153,09
ALEAT.PROB X IMP	**5093**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	410.244,67	93.549.298,19
ALEAT.PROB X IMP	**5094**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	94.555.724,03
ALEAT.PROB X IMP	**5095**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,54	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	90.824.151,54
ALEAT.PROB X IMP	**5096**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.623.476,01
ALEAT.PROB X IMP	**5097**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.917.294,76
ALEAT.PROB X IMP	**5098**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,54	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.820.564,19
ALEAT.PROB X IMP	**5099**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	1.489.849,13	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.181.494,66
ALEAT.PROB X IMP	**5100**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,54	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.860.888,76
ALEAT.PROB X IMP	**5101**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.543.479,23
ALEAT.PROB X IMP	**5102**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.774.235,54
ALEAT.PROB X IMP	**5103**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,88	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	93.264.025,85
ALEAT.PROB X IMP	**5104**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.439.334,03
ALEAT.PROB X IMP	**5105**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.901.506,97
ALEAT.PROB X IMP	**5106**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,54	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.573.051,83
ALEAT.PROB X IMP	**5107**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.336.334,03
ALEAT.PROB X IMP	**5108**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.178.469,59
ALEAT.PROB X IMP	**5109**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,54	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.515.996,37
ALEAT.PROB X IMP	**5110**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS		EXECUÇÃO DE OBRAS																												PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTÉCNICA	SONORIZAÇÃO	CLIMATIZAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	93.875.629,02
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.271.564,42
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	91.034.537,83
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.442.685,37
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.642.257,53	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.644.903,49
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.493.182,13
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.817.984,37
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.680.683,28	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.182.056,98
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.680.683,28	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.095.149,31
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.424.793,75
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.401.122,26
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.019.627,99
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.426.793,75
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.424.793,75
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.401.122,26
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.680.683,28	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.107.627,99
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.680.683,28	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.182.056,98
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.448.448,08
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.835.782,92
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.037.829,25
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.691.939,07
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.512.199,44
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.349.373,02
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.129.398,34
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.223.153,69
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.517.010,66
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	92.510.668,55
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.861.775,36
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.435.177,35
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.265.155,26
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.979.256,28
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.977.773,94
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.404.173,79
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	68.227,78	57.222,67	-	341.870,56	86.163.195,25
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.291.817,02
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.886.637,57
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.117.196,73
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.183.128,25
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.064.950,57
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.814.227,79
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.070.163,91
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.842.435,84	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	34.965.669,58
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.842.435,84	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	39.161.177,37
ALEAT.PROB X IMP	6.002.252.91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	40.244.671,68
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.842.435,84	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	41.712.106,45
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.842.435,84	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.404.461,37
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.234.196,15
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.842.435,84	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.265.001,45
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.586.436,40
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.559.654,81
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.154.266,73
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.616.708,80
ALEAT.PROB X IMP	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.346.111,99
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.516.089,38
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.842.435,84	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.993.653,29
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.842.435,84	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.790.653,78
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.244.558,81
ALEAT.PROB X IMP	6.002.252.91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.740.933,31
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.183.665,29
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.346.111,99
ALEAT.PROB X IMP	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.516.089,38
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.983.856,29
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.652.099,35
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.219.033,69
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.415.103,71
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.031.584,77
ALEAT.PROB X IMP	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.842.435,84	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.801.584,77
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.842.435,84	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.293.091,94

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS E METAIS SANITÁRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441.71	708.676.72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.212.159,03
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	81.736.053,62
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.592.865,40
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.081.636,76
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.670.375,78
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	92.981.636,76
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.609.670,78
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	92.784.452,17
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.331.304,99
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.870.363,76
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.863.762,75
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.766.838,42
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	526.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.729.815,00
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	89.045.854,53
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	905.415,52	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.368.379,41
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.984.932,65
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.227.642,06
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.158.997,44
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.668.642,91
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.427.646,06
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.169.071,93
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.623.697,59
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.716.006,93
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.424.638,53
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.473.255,42
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.980.655,73
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	84.179.025,76
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.428.207,70
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	526.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.752.608,33
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	526.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.964.932,65
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	526.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.388.139,01
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.853.744,06
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.157.823,66
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.033.693,84
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.900.207,43
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.382.748,03
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.290.369,18
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.382.766,61
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.371.972,07
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.947.040,43
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	526.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS										EXECUÇÃO DE OBRAS																				PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**5770**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	58.948.105,70
ALEAT.PROB X IMP	**5771**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.655.099,55
ALEAT.PROB X IMP	**5772**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	693.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.810.378,20
ALEAT.PROB X IMP	**5773**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.830.188,16
ALEAT.PROB X IMP	**5774**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.251.352,06
ALEAT.PROB X IMP	**5775**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.908.398,61
ALEAT.PROB X IMP	**5776**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.566.420,16
ALEAT.PROB X IMP	**5777**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.739.480,06
ALEAT.PROB X IMP	**5778**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.004.418,04
ALEAT.PROB X IMP	**5779**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	4.136.793,16	9.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.913.184,00
ALEAT.PROB X IMP	**5780**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	693.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.576.290,34
ALEAT.PROB X IMP	**5781**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	693.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.940.691,77
ALEAT.PROB X IMP	**5782**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.408.399,78
ALEAT.PROB X IMP	**5783**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	693.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.400.767,75
ALEAT.PROB X IMP	**5784**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.894.144,47
ALEAT.PROB X IMP	**5785**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.565.953,40
ALEAT.PROB X IMP	**5786**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.013.689,15
ALEAT.PROB X IMP	**5787**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.770.462,64
ALEAT.PROB X IMP	**5788**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	82.535.817,47
ALEAT.PROB X IMP	**5789**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	693.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.298.849,30
ALEAT.PROB X IMP	**5790**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.657.637,42
ALEAT.PROB X IMP	**5791**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.495.145,39
ALEAT.PROB X IMP	**5792**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	95.393.654,98
ALEAT.PROB X IMP	**5793**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.487.207,55
ALEAT.PROB X IMP	**5794**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.985.670,44
ALEAT.PROB X IMP	**5795**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.383.539,59
ALEAT.PROB X IMP	**5796**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.671.299,65
ALEAT.PROB X IMP	**5797**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.186.222,45
ALEAT.PROB X IMP	**5798**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.507.061,12
ALEAT.PROB X IMP	**5799**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.237.307,12
ALEAT.PROB X IMP	**5800**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.225.325,52
ALEAT.PROB X IMP	**5801**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.149.764,20
ALEAT.PROB X IMP	**5802**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.390.775,45
ALEAT.PROB X IMP	**5803**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	693.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.018.039,40
ALEAT.PROB X IMP	**5804**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.339.234,69
ALEAT.PROB X IMP	**5805**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.934.607,87
ALEAT.PROB X IMP	**5806**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.737.073,12
ALEAT.PROB X IMP	**5807**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.173.147,36
ALEAT.PROB X IMP	**5808**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.870.540,05
ALEAT.PROB X IMP	**5809**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	693.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.577.768,39
ALEAT.PROB X IMP	**5810**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																												PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SOMBREAMENTO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	98.168.209,74
ALEAT.PROB X IMP	**5946**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.698.559,25
ALEAT.PROB X IMP	**5947**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	2.538.770,61	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.975.887,28
ALEAT.PROB X IMP	**5948**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.715.423,63
ALEAT.PROB X IMP	**5949**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.515.632,28
ALEAT.PROB X IMP	**5950**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.979.871,04
ALEAT.PROB X IMP	**5951**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.238.694,89
ALEAT.PROB X IMP	**5952**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.673.196,04
ALEAT.PROB X IMP	**5953**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.673.196,04
ALEAT.PROB X IMP	**5954**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.237.824,56
ALEAT.PROB X IMP	**5955**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.076.153,40
ALEAT.PROB X IMP	**5956**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.566.693,45
ALEAT.PROB X IMP	**5957**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.168.512,21
ALEAT.PROB X IMP	**5958**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.016.016,23
ALEAT.PROB X IMP	**5959**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	90.070.442,21
ALEAT.PROB X IMP	**5960**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.968.843,94
ALEAT.PROB X IMP	**5961**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.658.423,26
ALEAT.PROB X IMP	**5962**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	58.227,78	-	341.870,56	87.596.957,75
ALEAT.PROB X IMP	**5963**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	58.227,78	-	341.870,56	87.207.996,01
ALEAT.PROB X IMP	**5964**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	58.227,78	-	341.870,56	89.209.337,74
ALEAT.PROB X IMP	**5965**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.417.279,15
ALEAT.PROB X IMP	**5966**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.533.899,28
ALEAT.PROB X IMP	**5967**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.325.661,65
ALEAT.PROB X IMP	**5968**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.745.049,17
ALEAT.PROB X IMP	**5969**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.186.499,49
ALEAT.PROB X IMP	**5970**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.533.899,28
ALEAT.PROB X IMP	**5971**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.369.449,49
ALEAT.PROB X IMP	**5972**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.435.230,74
ALEAT.PROB X IMP	**5973**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.460.871,06
ALEAT.PROB X IMP	**5974**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.980.780,71
ALEAT.PROB X IMP	**5975**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.461.242,26
ALEAT.PROB X IMP	**5976**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.176.411,45
ALEAT.PROB X IMP	**5977**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.180.981,76
ALEAT.PROB X IMP	**5978**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	90.701.893,69
ALEAT.PROB X IMP	**5979**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.335.609,41
ALEAT.PROB X IMP	**5980**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.332.375,06
ALEAT.PROB X IMP	**5981**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.239.115,53
ALEAT.PROB X IMP	**5982**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.664.772,01
ALEAT.PROB X IMP	**5983**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.382.010,15
ALEAT.PROB X IMP	**5984**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.236.012,54
ALEAT.PROB X IMP	**5985**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																										PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDROSSANITÁRIAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS E CORRIMÃOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	CLIMATIZAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.947.291,99
ALEAT.PROB X IMP	**6120**	6.002.252.91	2.762.934.03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.774.008,90
ALEAT.PROB X IMP	**6121**	6.002.252.91	2.762.934.03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.759.518,11
ALEAT.PROB X IMP	**6122**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.225.722,42
ALEAT.PROB X IMP	**6123**	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.774.008,90
ALEAT.PROB X IMP	**6124**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.044.707,83
ALEAT.PROB X IMP	**6125**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.568.615,55
ALEAT.PROB X IMP	**6126**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.258.891,99
ALEAT.PROB X IMP	**6127**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.813.183,81
ALEAT.PROB X IMP	**6128**	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.802.574,74
ALEAT.PROB X IMP	**6129**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.619.171,21
ALEAT.PROB X IMP	**6130**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	410.244,67	86.567.613,56
ALEAT.PROB X IMP	**6131**	6.002.252.91	2.762.934.03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	83.585.303,04
ALEAT.PROB X IMP	**6132**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.898.145,42
ALEAT.PROB X IMP	**6133**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.232.316,38
ALEAT.PROB X IMP	**6134**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.510.486,48
ALEAT.PROB X IMP	**6135**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.953.507,27
ALEAT.PROB X IMP	**6136**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.415.454,43
ALEAT.PROB X IMP	**6137**	6.002.252.91	2.762.934.03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.780.867,74
ALEAT.PROB X IMP	**6138**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.201.313,81
ALEAT.PROB X IMP	**6139**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.635.694,09
ALEAT.PROB X IMP	**6140**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.441.697,24
ALEAT.PROB X IMP	**6141**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.457.394,09
ALEAT.PROB X IMP	**6142**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.760.468,94
ALEAT.PROB X IMP	**6143**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.200.321,12
ALEAT.PROB X IMP	**6144**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.917.644,53
ALEAT.PROB X IMP	**6145**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.844.193,03
ALEAT.PROB X IMP	**6146**	6.002.252.91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.980.485,82
ALEAT.PROB X IMP	**6147**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.319.555,68
ALEAT.PROB X IMP	**6148**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.306.257,97
ALEAT.PROB X IMP	**6149**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.457.394,09
ALEAT.PROB X IMP	**6150**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.669.958,01
ALEAT.PROB X IMP	**6151**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.308.257,97
ALEAT.PROB X IMP	**6152**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.457.394,09
ALEAT.PROB X IMP	**6153**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.665.421,46
ALEAT.PROB X IMP	**6154**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.064.225,18
ALEAT.PROB X IMP	**6155**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.143.693,71
ALEAT.PROB X IMP	**6156**	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.977.198,77
ALEAT.PROB X IMP	**6157**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.622.827,87
ALEAT.PROB X IMP	**6158**	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.778.098,77
ALEAT.PROB X IMP	**6159**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS						EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	593.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.615.758,35
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.907.672,22
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.601.428,34
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.233.919,12
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	93.402.294,79
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.083.812,80
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.060.667,69
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.204.526,98
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.358.366,67
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.053.803,16
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	89.985.233,67
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.541.400,61
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.358.366,67
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.053.803,16
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.948.940,46
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.445.978,26
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.601.613,76
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.010.902,91
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.435.275,08
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.498.798,98
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.629.216,13
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.894.290,30
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.870.035,76
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.546.613,96
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.464.231,21
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.642.795,32
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	596.143,96	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.006.951,30
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.568.784,82
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.459.650,78
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.144.359,84
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.245.292,09
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.906.557,72
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	91.456.448,40
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	94.372.328,40
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.808.710,59
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.615.758,35
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.772.143,71
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	4.221.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.816.107,73

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPO	ELEVADORES	LOUÇAS / METAIS / ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	6470	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	281.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	347.810,56	87.593.695,59
ALEAT.PROB X IMP	6471	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.366.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	281.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.438.734,38
ALEAT.PROB X IMP	6472	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.366.334,94	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	281.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.914.819,41
ALEAT.PROB X IMP	6473	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.280.840,14	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.204.386,13
ALEAT.PROB X IMP	6474	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.366.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.627.812,10
ALEAT.PROB X IMP	6475	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.366.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.872.985,08
ALEAT.PROB X IMP	6476	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.280.840,14	6.431.222,36	3.447.327,63	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.366.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.677.696,35
ALEAT.PROB X IMP	6477	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.366.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.550.830,68
ALEAT.PROB X IMP	6478	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.280.840,14	6.431.222,36	3.447.327,63	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	2.037.679,45	3.808.334,94	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	83.085.524,14
ALEAT.PROB X IMP	6479	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.753.181,27
ALEAT.PROB X IMP	6480	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	84.878.308,05
ALEAT.PROB X IMP	6481	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	84.873.827,57
ALEAT.PROB X IMP	6482	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.649.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,21	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	91.370.947,47
ALEAT.PROB X IMP	6483	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.366.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,21	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	87.557.320,82
ALEAT.PROB X IMP	6484	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.366.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,21	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	92.468.567,20
ALEAT.PROB X IMP	6485	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	9.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.649.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.366.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	92.761.888,67
ALEAT.PROB X IMP	6486	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.649.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.366.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,21	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	95.184.429,61
ALEAT.PROB X IMP	6487	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,21	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.950.556,11
ALEAT.PROB X IMP	6488	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,21	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.227.216,04
ALEAT.PROB X IMP	6489	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,21	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.978.295,29
ALEAT.PROB X IMP	6490	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,21	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.970.178,19
ALEAT.PROB X IMP	6491	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,21	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.700.350,15
ALEAT.PROB X IMP	6492	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.280.840,14	6.431.222,36	3.447.327,63	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,21	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.852.274,43
ALEAT.PROB X IMP	6493	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.224.291,29
ALEAT.PROB X IMP	6494	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,21	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.682.435,34
ALEAT.PROB X IMP	6495	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.205.118,09
ALEAT.PROB X IMP	6496	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.270.925,72
ALEAT.PROB X IMP	6497	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,21	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.935.118,09
ALEAT.PROB X IMP	6498	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	9.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	91.287.798,82
ALEAT.PROB X IMP	6499	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.472.021,29
ALEAT.PROB X IMP	6500	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.364.417,56
ALEAT.PROB X IMP	6501	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.649.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,21	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.773.374,39
ALEAT.PROB X IMP	6502	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.227.216,04
ALEAT.PROB X IMP	6503	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,21	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.978.295,29
ALEAT.PROB X IMP	6504	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.918.065,07
ALEAT.PROB X IMP	6505	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	91.271.145,74
ALEAT.PROB X IMP	6506	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	83.853.692,57
ALEAT.PROB X IMP	6507	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.735.796,57
ALEAT.PROB X IMP	6508	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	9.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	88.852.274,43
ALEAT.PROB X IMP	6509	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	COBERTURA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	87.182.348,47
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	354.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	84.184.482,93
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	354.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	82.049.324,47
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	354.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	82.049.324,47
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	91.960.476,77
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805.30	596.143,96	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.960.476,77
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.363.862,32
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805.30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.881.085,80
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,21	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.498.290,64
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,21	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.916.060,90
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,21	805.30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.632.279,80
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,08	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,21	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.786.695,89
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.786.695,89
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,21	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.498.290,64
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,21	805.30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.916.060,90
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,21	805.30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.916.060,90
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,21	805.30	596.143,96	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.151.592,99
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,21	805.30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.057.766,31
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,21	805.30	596.143,96	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.733.175,61
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.801.556,64
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,21	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.682.897,55
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,21	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.173.154,83
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,21	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.306.465,70
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,21	805.30	596.143,96	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	84.813.748,14
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,21	805.30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.910.137,53
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,21	805.30	596.143,96	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	91.191.945,47
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.481.890,19
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,21	805.30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.480.022,76
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,08	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,21	805.30	596.143,96	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.273.873,26
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,08	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.630.179,02
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,08	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.271.556,40
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,08	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.752.396,93
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.362.146,11
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.449.502,76
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.646.502,76
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,08	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.383.185,91
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.169.686,99
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,08	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.933.698,88
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.141.130,20
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.265.093,49
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	434.018,92	8.275.599,06	2.234.773,70	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805.30	541

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																							PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDROSSANITÁRIAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	QUÍMICA CIVIL	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	CLIMATIZAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.792.568,47
ALEAT.PROB X IMP	6021	6.002.252.91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.346.339,27
ALEAT.PROB X IMP	6022	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	11.876.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	992.205,84	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	82.326.852,20
ALEAT.PROB X IMP	6023	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.465.070,42
ALEAT.PROB X IMP	6024	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.279.296,52
ALEAT.PROB X IMP	6025	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	11.876.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	82.763.354,08
ALEAT.PROB X IMP	6026	6.002.252.91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.988.384,21
ALEAT.PROB X IMP	6027	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	92.971.735,80
ALEAT.PROB X IMP	6028	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	11.876.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	93.285.750,31
ALEAT.PROB X IMP	6029	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	11.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	87.405.953,61
ALEAT.PROB X IMP	6030	6.002.252.91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	11.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.159.031,06
ALEAT.PROB X IMP	6031	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.715.423,01
ALEAT.PROB X IMP	6032	6.002.252.91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	12.428.301,87	1.488.308,76	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	60.083,80	-	410.244,67	84.769.733,36
ALEAT.PROB X IMP	6033	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	11.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	68.227,78	57.222,67	-	341.870,56	90.552.317,53
ALEAT.PROB X IMP	6034	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.773.726,06
ALEAT.PROB X IMP	6035	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	11.876.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	12.428.301,87	1.488.308,76	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.136.642,61
ALEAT.PROB X IMP	6036	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	12.428.301,87	1.488.308,76	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.218.947,95
ALEAT.PROB X IMP	6037	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.803.030,53
ALEAT.PROB X IMP	6038	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.623.913,10
ALEAT.PROB X IMP	6039	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	11.876.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.297.974,41
ALEAT.PROB X IMP	6040	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	11.876.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.597.517,37
ALEAT.PROB X IMP	6041	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	11.876.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.023.638,98
ALEAT.PROB X IMP	6042	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	11.876.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.240.864,10
ALEAT.PROB X IMP	6043	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	11.876.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	12.428.301,87	1.488.308,76	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.328.773,71
ALEAT.PROB X IMP	6044	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	11.876.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.847.177,26
ALEAT.PROB X IMP	6045	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.304.848,14
ALEAT.PROB X IMP	6046	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.384.542,05
ALEAT.PROB X IMP	6047	6.002.252.91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.538.770,61	12.428.301,87	1.488.308,76	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	82.829.511,55
ALEAT.PROB X IMP	6048	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	11.876.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	92.218.682,91
ALEAT.PROB X IMP	6049	6.002.252.91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	68.227,78	57.222,67	-	341.870,56	90.216.088,41
ALEAT.PROB X IMP	6050	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.707.652,46
ALEAT.PROB X IMP	6051	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.134.611,75
ALEAT.PROB X IMP	6052	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.949.637,47
ALEAT.PROB X IMP	6053	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.134.611,75
ALEAT.PROB X IMP	6054	6.002.252.91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.024.238,90
ALEAT.PROB X IMP	6055	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.640.133,74
ALEAT.PROB X IMP	6056	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.436.067,47
ALEAT.PROB X IMP	6057	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.609.019,99
ALEAT.PROB X IMP	6058	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.585.053,25
ALEAT.PROB X IMP	6059	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.653.053,53
ALEAT.PROB X IMP	6060	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																										PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.879.896,88
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.001.271,67
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.301.443,24
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.649.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.877.936,07
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.980.683,28	1.725.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.216.186,07
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.180.116,29
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.837.723,64
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.612.841,32
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	385.100,89	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.672.214,58
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.837.337,54
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.522.603,41
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.694.979,22
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	385.100,89	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.022.694,85
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.649.702,86	1.725.802,26	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.338.816,13
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.395.215,72
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.612.070,06
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.701.490,42
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	2.037.679,45	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.348.106,54
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	2.037.679,45	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.399.985,36
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.961.300,14
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,21	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.556.605,03
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.726.159,41
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.676.683,78
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.633.239,60
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.647.273,12
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,21	89.985,83	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.757.640,46
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,21	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.022.607,51
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,21	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.618.461,98
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.317.721,29
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.677.845,34
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.302.094,77
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.677.845,34

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																												PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	7170	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.106.266,70
ALEAT.PROB X IMP	7171	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	68.227,76	57.222,67	-	410.244,67	84.414.636,43
ALEAT.PROB X IMP	7172	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.436.370,30
ALEAT.PROB X IMP	7173	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.615.337,89
ALEAT.PROB X IMP	7174	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	60.083,80	-	341.870,56	87.690.472,68
ALEAT.PROB X IMP	7175	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.343.772,14
ALEAT.PROB X IMP	7176	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.035.356,19
ALEAT.PROB X IMP	7177	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.738.268,72
ALEAT.PROB X IMP	7178	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.592.808,71
ALEAT.PROB X IMP	7179	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.117.816,31
ALEAT.PROB X IMP	7180	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.561.425,46
ALEAT.PROB X IMP	7181	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.342.138,22
ALEAT.PROB X IMP	7182	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.877.773,06
ALEAT.PROB X IMP	7183	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.211.183,02
ALEAT.PROB X IMP	7184	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	13.545,68	64.978,84	57.222,67	-	410.244,67	91.696.283,72
ALEAT.PROB X IMP	7185	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.515.233,61
ALEAT.PROB X IMP	7186	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,68	64.978,84	57.222,67	-	410.244,67	93.803.564,62
ALEAT.PROB X IMP	7187	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.310.596,53
ALEAT.PROB X IMP	7188	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.141.361,48
ALEAT.PROB X IMP	7189	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,68	64.978,84	57.222,67	-	341.870,56	89.635.818,55
ALEAT.PROB X IMP	7190	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	341.870,56	91.897.120,25
ALEAT.PROB X IMP	7191	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.083.896,13
ALEAT.PROB X IMP	7192	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.548.412,71
ALEAT.PROB X IMP	7193	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.398.926,43
ALEAT.PROB X IMP	7194	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.836.940,69
ALEAT.PROB X IMP	7195	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.405.888,41
ALEAT.PROB X IMP	7196	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.631.405,53
ALEAT.PROB X IMP	7197	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.295.056,41
ALEAT.PROB X IMP	7198	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.819.007,24
ALEAT.PROB X IMP	7199	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	60.083,80	-	341.870,56	88.096.894,92
ALEAT.PROB X IMP	7200	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.775.127,85
ALEAT.PROB X IMP	7201	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.721.663,16
ALEAT.PROB X IMP	7202	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.180.853,20
ALEAT.PROB X IMP	7203	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.593.373,38
ALEAT.PROB X IMP	7204	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.150.495,09
ALEAT.PROB X IMP	7205	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	13.545,68	64.978,84	57.222,67	-	410.244,67	95.722.319,89
ALEAT.PROB X IMP	7206	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,68	64.978,84	57.222,67	-	341.870,56	93.387.624,48
ALEAT.PROB X IMP	7207	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.123.064,27
ALEAT.PROB X IMP	7208	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.655.910,16
ALEAT.PROB X IMP	7209	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.346.246,45
ALEAT.PROB X IMP	7

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																										PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ESPELHO D'ÁGUA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	1.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	56.547.855,83
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	258.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	54.039.736,75
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	1.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.397.240,33
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	1.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.838.337,69
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.614.103,14
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.569.844,77
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.793.057,44
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	258.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.917.517,72
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	258.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.164.257,53	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.956.056,09
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.710.862,81
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.602.516,66
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.678.873,41
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.189.472,32
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.458.988,50
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.604.951,41
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.493.913,09
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.489.115,38
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	659.033,20	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.047.557,32
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	659.033,20	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.261.694,35
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	1.164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.680.690,42
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.150.450,60
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	68.227,78	64.978,84	57.222,67	-	341.870,56	87.366.335,27
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.427.072,99
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.150.450,60
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.636.330,44
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.150.450,60
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.514.117,89

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	6.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	1.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.364.154,86
ALEAT.PROB X IMP	**7621**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.557.697,87
ALEAT.PROB X IMP	**7622**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.480.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.550.484,28
ALEAT.PROB X IMP	**7623**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.821.613,09
ALEAT.PROB X IMP	**7624**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.480.683,28	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.575.355,28
ALEAT.PROB X IMP	**7625**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.480.683,28	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.257.738,79
ALEAT.PROB X IMP	**7626**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.414.407,80
ALEAT.PROB X IMP	**7627**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.946.135,76
ALEAT.PROB X IMP	**7628**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.587.228,27
ALEAT.PROB X IMP	**7629**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.206.551,17
ALEAT.PROB X IMP	**7630**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	89.620.735,80
ALEAT.PROB X IMP	**7631**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.111.057,73
ALEAT.PROB X IMP	**7632**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.265.073,93
ALEAT.PROB X IMP	**7633**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.456.627,15
ALEAT.PROB X IMP	**7634**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.575.355,28
ALEAT.PROB X IMP	**7635**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.541.723,74
ALEAT.PROB X IMP	**7636**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.044.304,27
ALEAT.PROB X IMP	**7637**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.334.641,28
ALEAT.PROB X IMP	**7638**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.582.472,97
ALEAT.PROB X IMP	**7639**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.791.690,38
ALEAT.PROB X IMP	**7640**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.149.377,70
ALEAT.PROB X IMP	**7641**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.972.892,72
ALEAT.PROB X IMP	**7642**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.680.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.699.370,92
ALEAT.PROB X IMP	**7643**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.227,78	60.083,80	-	341.870,56	90.665.041,98
ALEAT.PROB X IMP	**7644**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.368.377,02
ALEAT.PROB X IMP	**7645**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.680.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.053.183,38
ALEAT.PROB X IMP	**7646**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.156.152,36
ALEAT.PROB X IMP	**7647**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.422.150,10
ALEAT.PROB X IMP	**7648**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	96.143,96	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.766.274,89
ALEAT.PROB X IMP	**7649**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.807.222,67
ALEAT.PROB X IMP	**7650**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.233.209,44
ALEAT.PROB X IMP	**7651**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.972.487,64
ALEAT.PROB X IMP	**7652**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.397.177,47
ALEAT.PROB X IMP	**7653**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.652.945,58
ALEAT.PROB X IMP	**7654**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.472.550,10
ALEAT.PROB X IMP	**7655**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.450.570,49
ALEAT.PROB X IMP	**7656**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.665.176,73
ALEAT.PROB X IMP	**7657**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.064.013,68
ALEAT.PROB X IMP	**7658**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.903.650,62
ALEAT.PROB X IMP	**7659**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.060.982,89
ALEAT.PROB X IMP	**7660**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS		EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	7695	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.168.355,32
ALEAT.PROB X IMP	7696	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.993.456,63
ALEAT.PROB X IMP	7697	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.181.913,88
ALEAT.PROB X IMP	7698	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	434.018,92	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.428.294,99
ALEAT.PROB X IMP	7699	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	596.143,96	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.619.252,24
ALEAT.PROB X IMP	7700	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.736.061,89
ALEAT.PROB X IMP	7701	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.805.173,09
ALEAT.PROB X IMP	7702	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.510.181,34
ALEAT.PROB X IMP	7703	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.411.668,30
ALEAT.PROB X IMP	7704	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.905.343,49
ALEAT.PROB X IMP	7705	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.970.495,81
ALEAT.PROB X IMP	7706	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.555.311,77
ALEAT.PROB X IMP	7707	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.036.474,87
ALEAT.PROB X IMP	7708	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.327.137,83
ALEAT.PROB X IMP	7709	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.876.241,90
ALEAT.PROB X IMP	7710	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.391.594,13
ALEAT.PROB X IMP	7711	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.730.989,30
ALEAT.PROB X IMP	7712	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.652.456,81
ALEAT.PROB X IMP	7713	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.635.456,81
ALEAT.PROB X IMP	7714	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.073.678,32
ALEAT.PROB X IMP	7715	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.782.164,34
ALEAT.PROB X IMP	7716	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.004.556,47
ALEAT.PROB X IMP	7717	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.449.089,75
ALEAT.PROB X IMP	7718	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.211.308,45
ALEAT.PROB X IMP	7719	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.148.438,42
ALEAT.PROB X IMP	7720	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	82.964.189,07
ALEAT.PROB X IMP	7721	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.215.568,40
ALEAT.PROB X IMP	7722	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.773.139,04
ALEAT.PROB X IMP	7723	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.109.139,05
ALEAT.PROB X IMP	7724	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.322.536,22	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.073.678,32
ALEAT.PROB X IMP	7725	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.668.238,51
ALEAT.PROB X IMP	7726	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	805,30	541.949,05	897.083,52	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	93.941.522,43
ALEAT.PROB X IMP	7727	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.998.320,50
ALEAT.PROB X IMP	7728	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.515.256,41
ALEAT.PROB X IMP	7729	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.791.439,32
ALEAT.PROB X IMP	7730	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.405.388,07
ALEAT.PROB X IMP	7731	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.098.053,56
ALEAT.PROB X IMP	7732	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.154.777,01
ALEAT.PROB X IMP	7733	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.800.925,04
ALEAT.PROB X IMP	7734	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	92.880.081,25
ALEAT.PROB X IMP	7735	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HOSPITALAR	INSTALAÇÕES HOSPITALARES	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.308.511,52
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.427.176,30
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.892.863,14
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.278.639,91
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.615.854,39
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.045.452,12
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.539.057,18
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.434.018,11
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.591.840,40
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.655.056,38
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.137.052,11
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.954.255,98
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.184.143,29
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.529.075,21
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.464.235,75
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.094.635,09
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	92.756.419,03
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	83.313.582,23
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	84.094.635,09
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	84.094.635,09
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.787.680,89
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.840.864,11
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.908.029,65
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.954.554,01
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.272.636,01
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	80.272.636,01
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.953.202,31
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.953.202,31
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.954.202,31
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.907.136,53
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.006.694,39
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.053.233,71
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.649.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.530.691,70
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.076.886,05
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.639.559,71
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.914.081,36
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.533.616,49
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.274.347,71
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.649.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.767.750,30
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.649.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	596.143,96	897.083,52	22.891,12	288.727

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS			EXECUÇÃO DE OBRAS																								PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	237.441.71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	32.611.552,96
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.439.606,34
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	90.200.217,41
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.088.810,03
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	90.655.308,98
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.719.438,45
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.838.106,75
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.839.181,85
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.822.013,05
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.733.854,30
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	410.244,67	90.926.495,57
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.120.006,06
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.577.586,70
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	410.244,67	90.926.495,57
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	95.120.006,06
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	90.655.308,98
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	68.227,78	57.222,67	-	410.244,67	88.818.719,96
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.795.651,48
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.309.789,60
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.383.580,70
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.528.564,76
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	86.995.197,44
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.618.083,82
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.995.329,44
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.559.292,53
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.855.455,20
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.943.124,15
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	89.445.093,40
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.313.170,40
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.340.492,60
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.777.792,53
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.500.439,15
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.172.771,14
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.784.745,38
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.185.968,65
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.910.237,60
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.090.135,76
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.073.855,91
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.855.455,20
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.470.183,58
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	659.033,20	525.286,32	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	87.392.811,09
ALEAT.PROB X IMP	6.002.252.91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	8220	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.993.101,92
ALEAT.PROB X IMP	8221	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	68.227,78	57.222,67	-	410.244,67	91.723.679,51
ALEAT.PROB X IMP	8222	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.402.359,96
ALEAT.PROB X IMP	8223	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.873.151,50
ALEAT.PROB X IMP	8224	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.897.124,55
ALEAT.PROB X IMP	8225	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.227.179,00
ALEAT.PROB X IMP	8226	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.193.218,29
ALEAT.PROB X IMP	8227	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.442.033,17
ALEAT.PROB X IMP	8228	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.545.954,61
ALEAT.PROB X IMP	8229	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.977.462,23
ALEAT.PROB X IMP	8230	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.635.152,23
ALEAT.PROB X IMP	8231	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.111.258,53
ALEAT.PROB X IMP	8232	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.542.722,20
ALEAT.PROB X IMP	8233	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.576.668,99
ALEAT.PROB X IMP	8234	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.924.554,73
ALEAT.PROB X IMP	8235	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.123.865,77
ALEAT.PROB X IMP	8236	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.883.050,34
ALEAT.PROB X IMP	8237	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.387.494,90
ALEAT.PROB X IMP	8238	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.775.808,82
ALEAT.PROB X IMP	8239	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.559.644,75
ALEAT.PROB X IMP	8240	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.414.682,44
ALEAT.PROB X IMP	8241	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.532.338,04
ALEAT.PROB X IMP	8242	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.547.324,95
ALEAT.PROB X IMP	8243	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.413.454,99
ALEAT.PROB X IMP	8244	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.697.171,34
ALEAT.PROB X IMP	8245	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.607.450,17
ALEAT.PROB X IMP	8246	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.228.578,40
ALEAT.PROB X IMP	8247	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.771.134,76
ALEAT.PROB X IMP	8248	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	83.587.604,37
ALEAT.PROB X IMP	8249	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.483.696,24
ALEAT.PROB X IMP	8250	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.835.904,29
ALEAT.PROB X IMP	8251	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.761.778,81
ALEAT.PROB X IMP	8252	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	2.037.679,45	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.565.503,26
ALEAT.PROB X IMP	8253	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.598.462,78
ALEAT.PROB X IMP	8254	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.621.330,36
ALEAT.PROB X IMP	8255	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.592.446,00
ALEAT.PROB X IMP	8256	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.248.674,10
ALEAT.PROB X IMP	8257	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	2.037.679,45	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.141.637,36
ALEAT.PROB X IMP	8258	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.748.955,48
ALEAT.PROB X IMP	8259	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.935.415,01
ALEAT.PROB X IMP	8260	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	CENOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441.71	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	758.320.46	305.268.71	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.425.802.26	2.037.679.45	3.365.334.94	2.538.770.61	12.428.301.87	1.488.308.76	823.105.02	659.033.20	630.343.58	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	58.991.356,48
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	237.441.71	850.412.06	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	385.100.89	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.425.802.26	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	549.194.33	525.286.32	313.310.02	1.935.446.85	81.805.30	541.949.05	897.083.52	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	410.244.67	89.973.693,78
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	237.441.71	850.412.06	3.421.260.21	7.717.466.83	3.447.327.63	8.176.295.89	758.320.46	254.390.59	385.100.89	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	992.205.84	823.105.02	659.033.20	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	94.349.498,96
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	197.868.09	708.676.72	3.421.260.21	6.431.222.36	4.136.793.16	8.176.295.89	631.933.72	254.390.59	577.651.34	434.018.92	8.275.599.06	2.234.773.70	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	992.205.84	823.105.02	659.033.20	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	88.280.814,96
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	850.412.06	3.421.260.21	6.431.222.36	3.447.327.63	9.811.555.07	758.320.46	254.390.59	385.100.89	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	2.538.770.61	8.285.534.58	1.488.308.76	823.105.02	659.033.20	630.343.58	313.310.02	2.322.536.22	81.805.30	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	341.870.56	84.576.690,62
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	4.136.793.16	9.811.555.07	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.365.334.94	2.538.770.61	8.285.534.58	1.488.308.76	823.105.02	659.033.20	630.343.58	261.091.68	2.322.536.22	81.805.30	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	341.870.56	93.601.754,30
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	4.136.793.16	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.365.334.94	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	630.343.58	261.091.68	2.322.536.22	81.805.30	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	341.870.56	92.143.615,06
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	7.717.466.83	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	94.744.598,26
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.365.334.94	3.808.155.92	8.285.534.58	1.488.308.76	823.105.02	659.033.20	630.343.58	261.091.68	1.935.446.85	81.805.30	541.949.05	897.083.52	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	410.244.67	85.344.254,93
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	708.676.72	3.421.260.21	7.717.466.83	3.447.327.63	8.176.295.89	631.933.72	305.268.71	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	2.037.679.45	3.365.334.94	3.808.155.92	8.285.534.58	992.205.84	823.105.02	659.033.20	630.343.58	313.310.02	2.322.536.22	81.805.30	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	341.870.56	87.443.110,35
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441.71	708.676.72	3.421.260.21	2.280.840.14	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	305.268.71	577.651.34	394.562.65	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	2.037.679.45	4.038.401.93	2.538.770.61	12.428.301.87	1.488.308.76	823.105.02	659.033.20	525.286.32	261.091.68	2.322.536.22	81.805.30	596.143.96	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	341.870.56	86.564.955,87
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	237.441.71	708.676.72	3.421.260.21	7.717.466.83	3.447.327.63	8.176.295.89	631.933.72	254.390.59	385.100.89	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.580.471.78	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	525.286.32	261.091.68	1.935.446.85	89.985.83	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	89.343.850,86
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	434.018.92	8.275.599.06	2.234.773.70	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	525.286.32	313.310.02	2.322.536.22	81.805.30	596.143.96	897.083.52	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	341.870.56	89.006.676,66
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441.71	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	630.343.58	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	87.975.675,70
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	992.205.84	823.105.02	549.194.33	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	91.718.071,40
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441.71	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	758.320.46	254.390.59	385.100.89	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	630.343.58	313.310.02	2.322.536.22	81.805.30	541.949.05	897.083.52	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	92.170.925,36
ALEAT.PROB X IMP	9.003.379.37	2.762.934.03	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	9.103.158.97	2.234.773.70	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	992.205.84	823.105.02	549.194.33	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	897.083.52	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	410.244.67	89.261.710,94
ALEAT.PROB X IMP	9.003.379.37	2.762.934.03	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	9.103.158.97	2.234.773.70	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	897.083.52	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	89.620.358,44
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	9.103.158.97	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	630.343.58	261.091.68	1.935.446.85	81.805.30	541.949.05	897.083.52	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	84.756.190,67
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	237.441.71	708.676.72	3.421.260.21	2.280.840.14	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	305.268.71	577.651.34	434.018.92	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	84.988.217,35
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	4.136.793.16	8.176.295.89	758.320.46	254.390.59	577.651.34	394.562.65	9.103.158.97	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.365.334.94	3.808.155.92	8.285.534.58	992.205.84	823.105.02	659.033.20	630.343.58	313.310.02	2.322.536.22	89.985.83	541.949.05	897.083.52	24.035.68	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	85.244.516,24
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	708.676.72	3.421.260.21	7.717.466.83	3.447.327.63	8.176.295.89	631.933.72	254.390.59	385.100.89	394.562.65	9.103.158.97	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	630.343.58	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	94.044.354,22
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	850.412.06	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	305.268.71	577.651.34	434.018.92	9.103.158.97	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	630.343.58	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	94.107.716,99
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	630.343.58	313.310.02	2.322.536.22	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	410.244.67	87.849.945,01
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	708.676.72	3.421.260.21	7.717.466.83	4.136.793.16	8.176.295.89	631.933.72	305.268.71	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.365.334.94	3.808.155.92	8.285.534.58	1.488.308.76	823.105.02	659.033.20	525.286.32	313.310.02	1.935.446.85	89.985.83	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	84.882.312,60
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	8.285.534.58	1.488.308.76	823.105.02	549.194.33	630.343.58	313.310.02	2.322.536.22	81.805.30	541.949.05	897.083.52	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	92.170.925,36
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	850.412.06	3.421.260.21	7.717.466.83	3.447.327.63	8.176.295.89	631.933.72	254.390.59	385.100.89	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	525.286.32	261.091.68	1.935.446.85	89.985.83	596.143.96	897.083.52	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	89.867.394,78
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	7.717.466.83	4.136.793.16	8.176.295.89	758.320.46	254.390.59	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	630.343.58	313.310.02	2.322.536.22	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	88.182.593,33
ALEAT.PROB X IMP	9.003.379.37	4.144.401.05	197.868.09	708.676.72	3.421.260.21	7.717.466.83	3.447.327.63	8.176.295.89	758.320.46	254.390.59	385.100.89	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	24.035.68	288.727.92	12.900.55	64.978.84	57.222.67	-	410.244.67	88.182.593,33
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	992.205.84	823.105.02	549.194.33	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	410.244.67	91.977.434,48
ALEAT.PROB X IMP	9.003.379.37	2.762.934.03	197.868.09	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	758.320.46	254.390.59	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	992.205.84	823.105.02	549.194.33	525.286.32	261.091.68	1.935.446.85	81.805.30	541.949.05	747.569.60	24.035.68	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	89.588.376,94
ALEAT.PROB X IMP	6.002.252.91	4.144.401.05	197.868.09	708.676.72	3.421.260.21	6.431.222.36	4.136.793.16	8.176.295.89	631.933.72	254.390.59	577.651.34	394.562.65	8.275.599.06	1.489.849.13	9.581.961.56	1.580.471.78	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	659.033.20	630.343.58	313.310.02	2.322.536.22	81.805.30	541.949.05	747.569.60	22.891.12	240.606.60	12.900.55	64.978.84	57.222.67	-	410.244.67	92.297.330,80
ALEAT.PROB X IMP	6.002.252.91	2.762.934.03	237.441.71	708.676.72	3.421.260.21	6.431.222.36	3.447.327.63	8.176.295.89	631.933.72	254.390.59	385.100.89	394.562.65	8.275.599.06	2.234.773.70	9.581.961.56	1.317.059.82	874.752.38	1.049.702.86	1.842.537.53	1.710.962.71	1.852.435.86	4.038.401.93	3.808.155.92	12.428.301.87	1.488.308.76	823.105.02	549.194.33	630.343.58	261.091.68	1.935.446.85	81.805.30	541.949.05	897.083.52	22.891.12	288.727.92	12.900.55	64.978.84	57.222.67	-	341.870.56	88.587.004,23

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS E CORRIMÃOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	8570	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.778.205,76
ALEAT.PROB X IMP	8571	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.166.659,94
ALEAT.PROB X IMP	8572	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	281.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.492.362,04
ALEAT.PROB X IMP	8573	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.801.617,47
ALEAT.PROB X IMP	8574	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.093.512,36
ALEAT.PROB X IMP	8575	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	88.918.863,36
ALEAT.PROB X IMP	8576	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.937.376,96
ALEAT.PROB X IMP	8577	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.577.042,66
ALEAT.PROB X IMP	8578	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.210.552,97
ALEAT.PROB X IMP	8579	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.332.772,59
ALEAT.PROB X IMP	8580	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.509.515,39
ALEAT.PROB X IMP	8581	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.377.742,72
ALEAT.PROB X IMP	8582	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.664.732,94
ALEAT.PROB X IMP	8583	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.298.144,34
ALEAT.PROB X IMP	8584	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.324.626,09
ALEAT.PROB X IMP	8585	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.016.578,09
ALEAT.PROB X IMP	8586	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.041.062,57
ALEAT.PROB X IMP	8587	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.131.170,68
ALEAT.PROB X IMP	8588	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.210.552,97
ALEAT.PROB X IMP	8589	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.193.155,95
ALEAT.PROB X IMP	8590	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	93.518.463,42
ALEAT.PROB X IMP	8591	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.377.607,91
ALEAT.PROB X IMP	8592	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.814.524,75
ALEAT.PROB X IMP	8593	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	93.804.139,94
ALEAT.PROB X IMP	8594	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.432.699,56
ALEAT.PROB X IMP	8595	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.306.143,14
ALEAT.PROB X IMP	8596	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	89.858.722,53
ALEAT.PROB X IMP	8597	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.850.766,72
ALEAT.PROB X IMP	8598	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.422.225,03
ALEAT.PROB X IMP	8600	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.389.428,65
ALEAT.PROB X IMP	8601	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.086.487,64
ALEAT.PROB X IMP	8603	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.161.647,09
ALEAT.PROB X IMP	8604	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.331.237,86
ALEAT.PROB X IMP	8605	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.392.752,65
ALEAT.PROB X IMP	8606	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.890.380,45
ALEAT.PROB X IMP	8607	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.021.844,27
ALEAT.PROB X IMP	8608	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.011.844,27
ALEAT.PROB X IMP	8609	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.161.647,09
ALEAT.PROB X IMP	8610	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.161.647,09
ALEAT.PROB X IMP	8611	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.896.097,65
ALEAT.PROB X IMP	8612	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	CONFORTO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	281.091,68	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.921.357,92
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.898.325,36
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.444.493,48
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	281.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.648.159,25
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.109,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.182.325,33
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.109,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	81.947.623,54
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.082.131,61
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	81.466.388,62
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.109,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.882.758,81
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.868.606,25
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.109,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.634.755,06
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.262.617,55
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.842.222,03
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.744.664,61
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.543.784,70
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.811.555,07	758.320,46	305.268,71	385.109,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.824.318,73
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	89.876.740,76
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	81.749.343,66
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.756.408,25
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.109,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.571.055,36
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.236.883,85
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	281.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.544.189,14
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.574.359,20
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.978.263,54
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.140.750,47
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.664.851,04
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.423.987,25
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.501.757,04
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.510.518,95
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.109,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.352.805,91
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.111.538,85
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.109,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.251.359,67
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.654.524,20
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.677.017,03
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.674.743,62
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.811.555,07	631.933,72	305.268,71	385.109,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.594.121,85
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.150.541,19
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.790.126,46
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	410.244,67	88.074.328,47
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.728.997,96
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS					EXECUÇÃO DE OBRAS																					PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	COMUNICAÇÃO VISUAL	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.083.001,97
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.088.827,35
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.088.827,35
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.204.956,90
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.908.586,06
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.428.322,37
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	84.063.551,75
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.232.793,72
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.608.810,84
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.127.770,44
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.352.489,72
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.166.268,62
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.608.810,84
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	305.268,71	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.127.770,44
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.608.810,84
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.608.810,84
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.608.810,84
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.640.026,90
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.307.980,29
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.565.991,45
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.165.268,62
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.511.500,65
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.640.026,90
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.550.131,06
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.910.413,90
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.079.684,90
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.884.472,23
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.082.882,73
ALEAT.PROB X IMP	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.278.544,17
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.090.339,93
ALEAT.PROB X IMP	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.280.226,62
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.083.001,97
ALEAT.PROB X IMP	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.088.827,35
ALEAT.PROB X IMP	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.579.613,49

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS						EXECUÇÃO DE OBRAS																						PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HOSPITALAR	INSTALAÇÕES HOSPITALARES	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO E CORRIMÃO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	ILUMINAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**9095**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.704.229,06
ALEAT.PROB X IMP	**9096**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	82.970.805,29
ALEAT.PROB X IMP	**9097**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	84.558.084,43
ALEAT.PROB X IMP	**9098**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	83.256.892,21
ALEAT.PROB X IMP	**9099**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.680.683,28	1.710.962,71	2.037.679,45	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.380.485,79
ALEAT.PROB X IMP	**9100**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	633.933,72	254.390,59	385.100,89	434.018,92	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.510.084,48
ALEAT.PROB X IMP	**9101**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.010.381,52
ALEAT.PROB X IMP	**9102**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	633.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.562.543,92
ALEAT.PROB X IMP	**9103**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	633.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.250.144,23
ALEAT.PROB X IMP	**9104**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.043.611,14
ALEAT.PROB X IMP	**9105**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.280.783,48
ALEAT.PROB X IMP	**9106**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.359.893,74
ALEAT.PROB X IMP	**9107**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.334.373,79
ALEAT.PROB X IMP	**9108**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	87.540.758,99
ALEAT.PROB X IMP	**9109**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.867.114,07
ALEAT.PROB X IMP	**9110**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.268.607,82
ALEAT.PROB X IMP	**9111**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	84.187.170,02
ALEAT.PROB X IMP	**9112**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	633.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.975.116,63
ALEAT.PROB X IMP	**9113**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.712.317,09
ALEAT.PROB X IMP	**9114**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.015.200,31
ALEAT.PROB X IMP	**9115**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.628.456,58
ALEAT.PROB X IMP	**9116**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.097.278,34
ALEAT.PROB X IMP	**9117**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	92.272.697,99
ALEAT.PROB X IMP	**9118**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.680.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.669.608,56
ALEAT.PROB X IMP	**9119**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.386.339,14
ALEAT.PROB X IMP	**9120**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.101.348,51
ALEAT.PROB X IMP	**9121**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.112.801,97
ALEAT.PROB X IMP	**9122**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.493.014,02
ALEAT.PROB X IMP	**9123**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.203.034,35
ALEAT.PROB X IMP	**9124**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.045.045,29
ALEAT.PROB X IMP	**9125**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	68.227,78	64.978,84	57.222,67	-	341.870,56	92.481.468,89
ALEAT.PROB X IMP	**9126**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.054.864,71
ALEAT.PROB X IMP	**9127**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.344.657,47
ALEAT.PROB X IMP	**9128**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	68.227,78	64.978,84	57.222,67	-	410.244,67	91.376.991,17
ALEAT.PROB X IMP	**9129**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.483.614,02
ALEAT.PROB X IMP	**9130**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.680.683,28	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	87.502.664,32
ALEAT.PROB X IMP	**9131**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.498.728,11
ALEAT.PROB X IMP	**9132**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.083.013,96
ALEAT.PROB X IMP	**9133**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	1.049.702,86	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.874.872,25
ALEAT.PROB X IMP	**9134**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	633.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	874.752,38	1.680.683,28	1.425.802,26	1.852.435,86	4.038.401,93

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																												PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICOS	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	DURAÇÃO CONSTR.	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	COMUNICAÇÃO VISUAL	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL		
ALEAT.PROB X IMP	**9270**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	805.30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.638.712,32
ALEAT.PROB X IMP	**9271**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	805.30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.316.878,19
ALEAT.PROB X IMP	**9272**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	94.737.890,34
ALEAT.PROB X IMP	**9273**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.958.349,25
ALEAT.PROB X IMP	**9274**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.260.776,58
ALEAT.PROB X IMP	**9275**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.507.977,90
ALEAT.PROB X IMP	**9276**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.487.758,33
ALEAT.PROB X IMP	**9277**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	94.351.103,81
ALEAT.PROB X IMP	**9278**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	94.826.285,89
ALEAT.PROB X IMP	**9279**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.522.746,15
ALEAT.PROB X IMP	**9280**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,56	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.836.971,54
ALEAT.PROB X IMP	**9281**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.191.371,55
ALEAT.PROB X IMP	**9282**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	82.097.039,27
ALEAT.PROB X IMP	**9283**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.308.396,46
ALEAT.PROB X IMP	**9284**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.989.111,30
ALEAT.PROB X IMP	**9285**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	91.106.923,15
ALEAT.PROB X IMP	**9286**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.923.730,83
ALEAT.PROB X IMP	**9287**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.911.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.432.606,06
ALEAT.PROB X IMP	**9288**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.741.556,17
ALEAT.PROB X IMP	**9289**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	94.803.452,23
ALEAT.PROB X IMP	**9290**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.481.665,50
ALEAT.PROB X IMP	**9291**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.033.552,80
ALEAT.PROB X IMP	**9292**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.911.555,07	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.045.571,61
ALEAT.PROB X IMP	**9293**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.951.851,05
ALEAT.PROB X IMP	**9294**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.347.290,47
ALEAT.PROB X IMP	**9295**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.033.552,80
ALEAT.PROB X IMP	**9296**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.655.447,76
ALEAT.PROB X IMP	**9297**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.655.447,76
ALEAT.PROB X IMP	**9298**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	93.976.033,84
ALEAT.PROB X IMP	**9299**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.737.220,84
ALEAT.PROB X IMP	**9300**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.117.664,29
ALEAT.PROB X IMP	**9301**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.678.313,87
ALEAT.PROB X IMP	**9302**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.236.278,62
ALEAT.PROB X IMP	**9303**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	90.035.035,64
ALEAT.PROB X IMP	**9304**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.691.210,87
ALEAT.PROB X IMP	**9305**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.035.160,82
ALEAT.PROB X IMP	**9306**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.553.663,85
ALEAT.PROB X IMP	**9307**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.691.210,87
ALEAT.PROB X IMP	**9308**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.456.773,18
ALEAT.PROB X IMP	**9309**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	9.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,56	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.451.815,92
ALEAT.PROB X IMP	**9310**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS									EXECUÇÃO DE OBRAS																			PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICO	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINOTÉCNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	9445	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	87.853.743,55
ALEAT.PROB X IMP	9446	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.270.485,57
ALEAT.PROB X IMP	9447	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.424.287,25
ALEAT.PROB X IMP	9448	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.512.042,15
ALEAT.PROB X IMP	9449	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	95.584.432,69
ALEAT.PROB X IMP	9450	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.706.688,03
ALEAT.PROB X IMP	9451	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.083.083,29
ALEAT.PROB X IMP	9452	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.601.381,29
ALEAT.PROB X IMP	9453	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.135.797,83
ALEAT.PROB X IMP	9454	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.729.062,59
ALEAT.PROB X IMP	9455	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.915.622,33
ALEAT.PROB X IMP	9456	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.138.212,69
ALEAT.PROB X IMP	9457	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.124.895,73
ALEAT.PROB X IMP	9458	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.073.753,18
ALEAT.PROB X IMP	9459	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.111.050,49
ALEAT.PROB X IMP	9460	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.554.757,92
ALEAT.PROB X IMP	9461	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.034.907,06
ALEAT.PROB X IMP	9462	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.439.932,77
ALEAT.PROB X IMP	9463	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.290.798,73
ALEAT.PROB X IMP	9464	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.339.074,34
ALEAT.PROB X IMP	9465	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.665.302,52
ALEAT.PROB X IMP	9466	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.298.709,98
ALEAT.PROB X IMP	9467	6.002.252,91	2.762.934,03	197.868,09	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.524.466,42
ALEAT.PROB X IMP	9468	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.281.880,94
ALEAT.PROB X IMP	9469	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.290.709,98
ALEAT.PROB X IMP	9470	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.133.152,29
ALEAT.PROB X IMP	9471	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.338.037,95
ALEAT.PROB X IMP	9472	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.297.375,53
ALEAT.PROB X IMP	9473	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	85.125.127,74
ALEAT.PROB X IMP	9474	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.817.899,43
ALEAT.PROB X IMP	9475	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.249.512,67
ALEAT.PROB X IMP	9476	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.324.350,66
ALEAT.PROB X IMP	9477	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.340.447,79
ALEAT.PROB X IMP	9478	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.704.837,56
ALEAT.PROB X IMP	9479	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.855.549,57
ALEAT.PROB X IMP	9480	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	82.504.490,69
ALEAT.PROB X IMP	9481	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.043.739,73
ALEAT.PROB X IMP	9482	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.076.077,32
ALEAT.PROB X IMP	9483	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.305.867,32
ALEAT.PROB X IMP	9484	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.005.357,50
ALEAT.PROB X IMP	9485	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

	PROJETOS	EXECUÇÃO DE OBRAS																														PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
	PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HOSPITALAR	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOGRAFIA	SONORIZAÇÃO	ILUMINAÇÃO CÊNICA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**9620**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	633.933,72	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	92.044.930,30
ALEAT.PROB X IMP	**9621**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	92.876.392,11
ALEAT.PROB X IMP	**9622**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.039.172,60
ALEAT.PROB X IMP	**9623**	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	2.037.679,45	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	13.545,58	64.978,84	57.222,67	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.490.322,85
ALEAT.PROB X IMP	**9624**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.942.254,34
ALEAT.PROB X IMP	**9625**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.388.807,49
ALEAT.PROB X IMP	**9626**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.764.257,53	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	92.083.083,80
ALEAT.PROB X IMP	**9627**	6.002.252,91	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	90.091.773,68
ALEAT.PROB X IMP	**9628**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.870.239,72
ALEAT.PROB X IMP	**9629**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.164.700,71
ALEAT.PROB X IMP	**9630**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	341.870,56	94.170.201,54
ALEAT.PROB X IMP	**9631**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.170.775,79
ALEAT.PROB X IMP	**9632**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	91.077.414,16
ALEAT.PROB X IMP	**9633**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	68.227,78	57.222,67	-	410.244,67	91.554.381,49
ALEAT.PROB X IMP	**9634**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.141.180,69
ALEAT.PROB X IMP	**9635**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.838.889,18
ALEAT.PROB X IMP	**9636**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	13.545,58	64.978,84	57.222,67	-	341.870,56	91.428.271,88
ALEAT.PROB X IMP	**9637**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	434.018,92	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.315.142,04
ALEAT.PROB X IMP	**9638**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	9.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.825.402,26	2.037.679,45	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.776.208,60
ALEAT.PROB X IMP	**9639**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	434.018,92	9.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	68.227,78	57.222,67	-	410.244,67	90.457.754,87
ALEAT.PROB X IMP	**9640**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.825.402,26	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.367.721,98
ALEAT.PROB X IMP	**9641**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.423.599,63
ALEAT.PROB X IMP	**9642**	6.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.168.444,01
ALEAT.PROB X IMP	**9643**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.372.436,89
ALEAT.PROB X IMP	**9644**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.966.950,26
ALEAT.PROB X IMP	**9645**	6.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	758.320,46	254.390,59	434.018,92	9.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.358.001,20
ALEAT.PROB X IMP	**9646**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	86.616.034,63
ALEAT.PROB X IMP	**9647**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.022.464,74
ALEAT.PROB X IMP	**9648**	6.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.923.210,64
ALEAT.PROB X IMP	**9649**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.836.983,76
ALEAT.PROB X IMP	**9650**	6.003.379,37	2.762.934,03	237.441,71	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.536.702,89
ALEAT.PROB X IMP	**9651**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.825.402,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.502.314,98
ALEAT.PROB X IMP	**9652**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.419.193,72
ALEAT.PROB X IMP	**9653**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.350.556,03
ALEAT.PROB X IMP	**9654**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	92.718.707,38
ALEAT.PROB X IMP	**9655**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.265.612,11
ALEAT.PROB X IMP	**9656**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	410.244,67	89.696.716,66
ALEAT.PROB X IMP	**9657**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.764.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.306.599,64
ALEAT.PROB X IMP	**9658**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.825.402,26	2.037.679,45	3.365.334,94	3.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.981.858,52
ALEAT.PROB X IMP	**9659**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.825.402,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

PROJETOS		EXECUÇÃO DE OBRAS																												PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPOS	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	SONORIZAÇÃO	CLIMATIZAÇÃO	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**9795**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	84.193.126,30
ALEAT.PROB X IMP	**9796**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.298.347,16
ALEAT.PROB X IMP	**9797**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.753.828,52
ALEAT.PROB X IMP	**9798**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.010.037,17
ALEAT.PROB X IMP	**9799**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	68.227,78	57.222,67	-	341.870,56	82.351.590,08
ALEAT.PROB X IMP	**9800**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.072.615,76
ALEAT.PROB X IMP	**9801**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.568.460,07
ALEAT.PROB X IMP	**9802**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	313.310,02	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	90.175.236,79
ALEAT.PROB X IMP	**9803**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.172.757,38
ALEAT.PROB X IMP	**9804**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.493.075,26
ALEAT.PROB X IMP	**9805**	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	341.870,56	91.686.473,92
ALEAT.PROB X IMP	**9806**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.493.075,26
ALEAT.PROB X IMP	**9807**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	434.018,92	9.103.158,97	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.429.197,49
ALEAT.PROB X IMP	**9808**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1.580.683,28	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.792.330,19
ALEAT.PROB X IMP	**9809**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	88.407.700,29
ALEAT.PROB X IMP	**9810**	6.002.252,91	2.762.934,03	237.441,71	850.412,06	3.421.260,21	6.431.222,36	4.136.793,16	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	86.232.680,37
ALEAT.PROB X IMP	**9811**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.455.756,21
ALEAT.PROB X IMP	**9812**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.184.696,66
ALEAT.PROB X IMP	**9813**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	9.581.961,55	1.580.471,78	1.049.702,86	1.580.683,28	1.710.962,71	1.852.435,86	4.365.334,94	2.538.770,61	8.285.534,58	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.725.079,06
ALEAT.PROB X IMP	**9814**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	905.415,52	549.194,33	630.343,58	261.091,68	2.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.706.186,01
ALEAT.PROB X IMP	**9815**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	2.037.679,45	4.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.093.186,30
ALEAT.PROB X IMP	**9816**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	93.045.585,74
ALEAT.PROB X IMP	**9817**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	94.084.813,38
ALEAT.PROB X IMP	**9818**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	86.855.874,19
ALEAT.PROB X IMP	**9819**	9.003.379,37	2.762.934,03	237.441,71	708.676,72	2.280.840,14	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	91.999.090,76
ALEAT.PROB X IMP	**9820**	6.002.252,91	4.144.401,05	197.868,09	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.653.599,41
ALEAT.PROB X IMP	**9821**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	89.620.366,08
ALEAT.PROB X IMP	**9822**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.695.666,47
ALEAT.PROB X IMP	**9823**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	874.752,38	1.642.257,53	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	82.507.592,69
ALEAT.PROB X IMP	**9824**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	83.362.996,23
ALEAT.PROB X IMP	**9825**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	92.438.218,17
ALEAT.PROB X IMP	**9826**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.317.059,82	1.049.702,86	1.642.257,53	1.710.962,71	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.804.729,09
ALEAT.PROB X IMP	**9827**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	13.545,58	64.978,84	57.222,67	-	341.870,56	92.537.048,89
ALEAT.PROB X IMP	**9828**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	93.151.720,61
ALEAT.PROB X IMP	**9829**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.527.020,76
ALEAT.PROB X IMP	**9830**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,16	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	85.527.188,51
ALEAT.PROB X IMP	**9831**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	434.018,92	8.275.599,06	2.234.773,70	9.581.961,55	1.317.059,82	1.049.702,86	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	630.343,58	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	83.908.168,97
ALEAT.PROB X IMP	**9832**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,16	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,55	1.580.471,78	1.049.702,86	1.642.257,53	1.425.802,26	2.037.679,45	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	93.096.825,98
ALEAT.PROB X IMP	**9833**	6.002.252,91	4.144.401,05	237.441,71	850.412,06	2.280.840,14	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.693.391,11
ALEAT.PROB X IMP	**9834**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,55	1.580.471,78	874.752,38	1.642.257,53	1.425.802,26	1.852.435,86	4.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	89.751.327,83
ALEAT.PROB X IMP	**9835**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.

Prefeitura de Joinville

CÁLCULO DO ADICIONAL DE RISCO A PARTIR DE ANÁLISES QUALITATIVAS DE PROBABILIDADES E IMPACTOS – APÓS MITIGAÇÃO

		PROJETOS	EXECUÇÃO DE OBRAS																														PRÉ OPERAÇÃO	VALOR TOTAL DA OBRA (SEM TAXA DE RISCO)
		PROJETO / MEMORIAL	SERVIÇOS INICIAIS	TERRAPLENAGEM	DRENAGEM	FUNDAÇÕES	ESTRUTURA DE CONCRETO PRÉ-MOLDADO	ESTRUTURA DE CONCRETO MOLDADA "IN LOCO"	ESTRUTURA METÁLICA	FORRO DE BLOQUEIO DE RUÍDO - PLATEIA	SUBESTAÇÃO	EDIFICAÇÃO HISTÓRICA	INSTALAÇÕES HIDRÁULICAS	INSTALAÇÕES ELÉTRICAS	CONSERVAÇÃO E RESTAURO	FECHAMENTOS	PISOS	ESQUADRIAS	GUARDA-CORPO	ELEVADORES	LOUÇAS, METAIS E ACESSÓRIOS	MOBILIÁRIO	TRATAMENTO ACÚSTICO	CENOTECNIA	ADMOESTAÇÃO	CARPINTARIA	IMPERMEABILIZAÇÃO	INSTALAÇÕES DE PREVENÇÃO E COMBATE A INCÊNDIO	SISTEMA PREVENTIVO CONTRA DESCARGAS ATMOSFÉRICAS	SISTEMA DE CLIMATIZAÇÃO	INSTALAÇÕES DE SISTEMAS DE SEGURANÇA	COMUNICAÇÃO VISUAL	PAVIMENTAÇÃO / CALÇADAS	MOBILIÁRIO URBANO	ACESSIBILIDADE	SINALIZAÇÃO	PAISAGISMO	SERVIÇOS FINAIS	ADMINISTRAÇÃO LOCAL	PRÉ-OPERAÇÃO	
ALEAT.PROB X IMP	**9970**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,18	9.811.555,07	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,53	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.840.056,61
ALEAT.PROB X IMP	**9971**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	313.310,02	2.322.536,22	89.985,83	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.053.893,65
ALEAT.PROB X IMP	**9972**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,53	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	24.035,68	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	90.328.284,64
ALEAT.PROB X IMP	**9973**	6.002.252,91	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.322.536,22	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.831.990,45
ALEAT.PROB X IMP	**9974**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	87.878.496,36
ALEAT.PROB X IMP	**9975**	9.003.379,37	4.144.401,05	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,18	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.885.719,08
ALEAT.PROB X IMP	**9976**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	88.974.669,87
ALEAT.PROB X IMP	**9977**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	897.083,52	13.545,58	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.817.191,33
ALEAT.PROB X IMP	**9978**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,53	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	95.615.084,83
ALEAT.PROB X IMP	**9979**	9.003.379,37	2.762.934,03	237.441,71	850.412,06	3.421.260,21	7.717.466,83	4.136.793,18	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	88.844.541,78
ALEAT.PROB X IMP	**9980**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	4.136.793,18	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	1.049.702,86	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.293.138,56
ALEAT.PROB X IMP	**9981**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	596.143,96	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.702.957,44
ALEAT.PROB X IMP	**9982**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	3.421.260,21	7.717.466,83	4.136.793,18	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	11.498.354,34	1.580.471,78	1.049.702,86	180.683,28	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.124.118,77
ALEAT.PROB X IMP	**9983**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	7.717.466,83	4.136.793,18	8.176.295,89	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	85.403.966,55
ALEAT.PROB X IMP	**9984**	6.002.252,91	2.762.934,03	197.868,09	850.412,06	3.421.260,21	7.717.466,83	4.136.793,18	9.811.555,07	758.320,46	254.390,59	385.100,89	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	89.146.631,24
ALEAT.PROB X IMP	**9985**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	2.322.536,22	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	89.273.937,76
ALEAT.PROB X IMP	**9986**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,18	9.811.555,07	631.933,72	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	2.037.679,45	4.038.401,53	3.808.155,92	8.285.534,58	1.488.308,76	905.415,52	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	93.613.131,60
ALEAT.PROB X IMP	**9987**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	341.870,56	87.552.249,15
ALEAT.PROB X IMP	**9988**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	434.018,92	8.275.599,06	1.489.849,13	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.710.962,71	2.037.679,45	3.365.334,94	2.538.770,61	12.428.301,87	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	24.035,68	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.704.684,32
ALEAT.PROB X IMP	**9989**	6.002.252,91	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	85.966.665,56
ALEAT.PROB X IMP	**9990**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	88.977.101,46
ALEAT.PROB X IMP	**9991**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	6.431.222,36	4.136.793,18	8.176.295,89	758.320,46	254.390,59	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	1.488.308,76	905.415,52	659.033,20	630.343,58	261.091,68	2.322.536,22	81.805,30	596.143,96	897.083,52	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	92.517.145,12
ALEAT.PROB X IMP	**9992**	9.003.379,37	4.144.401,05	197.868,09	708.676,72	3.421.260,21	7.717.466,83	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	525.286,32	313.310,02	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	90.655.960,29
ALEAT.PROB X IMP	**9993**	9.003.379,37	2.762.934,03	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	2.538.770,61	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	2.322.536,22	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	60.083,80	-	410.244,67	84.775.283,92
ALEAT.PROB X IMP	**9994**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,18	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	2.234.773,70	9.581.961,95	1.580.471,78	874.752,38	164.257,53	1.710.962,71	1.852.435,86	3.365.334,94	3.808.155,92	8.285.534,58	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	87.101.251,60
ALEAT.PROB X IMP	**9995**	6.002.252,91	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	68.227,78	60.083,80	-	341.870,56	85.746.232,97
ALEAT.PROB X IMP	**9996**	9.003.379,37	2.762.934,03	197.868,09	708.676,72	2.280.840,14	6.431.222,36	4.136.793,18	8.176.295,89	758.320,46	254.390,59	385.100,89	394.562,65	9.103.158,97	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	60.083,80	-	410.244,67	85.350.395,74
ALEAT.PROB X IMP	**9997**	9.003.379,37	4.144.401,05	237.441,71	708.676,72	3.421.260,21	6.431.222,36	4.136.793,18	8.176.295,89	631.933,72	305.268,71	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	1.049.702,86	180.683,28	1.710.962,71	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	1.488.308,76	823.105,02	549.194,33	525.286,32	313.310,02	1.935.446,85	89.985,83	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	91.874.515,40
ALEAT.PROB X IMP	**9998**	9.003.379,37	4.144.401,05	197.868,09	850.412,06	2.280.840,14	6.431.222,36	3.447.327,63	8.176.295,89	631.933,72	305.268,71	385.100,89	394.562,65	9.103.158,97	1.489.849,13	11.498.354,34	1.580.471,78	874.752,38	180.683,28	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	12.428.301,87	992.205,84	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	897.083,52	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	341.870,56	91.876.618,52
ALEAT.PROB X IMP	**9999**	6.002.252,91	9.003.379,37	197.868,09	708.676,72	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	631.933,72	254.390,59	577.651,34	394.562,65	8.275.599,06	1.489.849,13	9.581.961,95	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	4.038.401,93	3.808.155,92	8.285.534,58	1.488.308,76	823.105,02	549.194,33	525.286,32	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	240.606,60	12.900,55	64.978,84	57.222,67	-	410.244,67	89.085.425,44
ALEAT.PROB X IMP	**10000**	9.003.379,37	9.003.379,37	237.441,71	850.412,06	3.421.260,21	6.431.222,36	3.447.327,63	9.811.555,07	758.320,46	254.390,59	577.651,34	394.562,65	9.103.158,97	2.234.773,70	11.498.354,34	1.317.059,82	874.752,38	164.257,53	1.425.802,26	1.852.435,86	3.365.334,94	3.808.155,92	12.428.301,87	992.205,84	823.105,02	659.033,20	630.343,58	261.091,68	1.935.446,85	81.805,30	541.949,05	747.569,60	22.891,12	288.727,92	12.900,55	64.978,84	57.222,67	-	410.244,67	99.792.806,28
																																	MÉDIA		**89.748.893,12**

DESVIO PADRÃO	2.973.076,25
50% PROB.	89.748.893,12
95% PROB.	92.251.097,22
CONTING. P50%	8.981.159,40
CONTING. P80%	11.483.363,50
Taxa de risco	**14,22%**