

Relatório geral da instalação – Bacia nº 02

1. Descrição da rede de saneamento

- Título: BACIA Nº02

A velocidade da instalação deverá permanecer acima do mínimo estabelecido, para evitar sedimentação, incrustação e estancamento, e abaixo do máximo, para que não se produza erosão.

2. Descrição dos materiais utilizados

Os materiais utilizados para esta instalação são:

TUBOS PVC - Coeficiente de Manning: 0.01000

Descrição	Geometria	Dimensão	Diâmetros mm
DN150	Circular	Diâmetro	150.0

O diâmetro a utilizar será calculado de forma que a velocidade no conduto não exceda a velocidade máxima e ultrapasse a velocidade mínima estabelecidas para o cálculo.

3. Descrição de Solos

As características dos solos a escavar serão detalhadas em seguida.

Descrição	Leito cm	Reaterro cm	Largura mínima cm	Distância lateral cm	Talude
Solos coesivos	20	20	1	13	0/1

4. Formulação

Para o cálculo de condutos de saneamento, emprega-se a fórmula de Manning - Strickler.

$$Q = \frac{A \cdot Rh^{(2/3)} \cdot So^{(1/2)}}{n}$$

$$v = \frac{Rh^{(2/3)} \cdot So^{(1/2)}}{n}$$

onde:

- ⇒ Q é a vazão em m3/s
- ⇒ v é a velocidade do fluido em m/s
- ⇒ A é a seção da lâmina do fluido (m2).
- ⇒ Rh é o raio hidráulico da lâmina de fluido (m).
- ⇒ So é a inclinação do solo do canal (desnível por comprimento de conduto).
- ⇒ n é o coeficiente de Manning.

5. Combinações

A seguir são detalhadas as hipóteses utilizadas nas contribuições, e as combinações que são realizadas ponderando os valores concedidos para cada hipótese.

Combinação	Hipóteses Esaotos
Esaotos	1.00

6. Resultados

6.1 Relatório de nós

Combinação: Esgotos

Nó	Cota m	Prof. Poço de visita m	Vazão sim. l/s	Coment.
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EEE1	482.73	2.75	1.02
PS1	525.37	1.65	0.00
PS2	524.92	1.65	0.00
PS3	524.58	1.65	0.00
PS4	523.65	1.65	0.00
PS5	522.53	1.65	0.00
PS6	520.85	1.65	0.00
PS7	518.82	1.65	0.00
PS8	516.25	1.65	0.00
PS9	513.71	1.65	0.12
PS10	510.73	1.65	0.00
PS11	509.94	1.65	0.00
PS12	506.68	1.65	0.00
PS13	506.48	1.73	0.00
PS14	503.20	2.00	0.00
PS15	499.64	2.00	0.00
PS16	495.61	1.65	0.00
PS17	495.01	1.65	0.00
PS18	493.87	1.65	0.00
PS19	493.78	1.65	0.00
PS20	492.91	1.65	0.00
PS21	488.62	1.65	0.00
PS22	484.50	1.65	0.00
PS23	482.73	2.58	0.00
PS24	513.92	1.65	0.00
PS25	511.12	1.65	0.00
PS26	508.66	1.65	0.00
PS27	506.40	1.65	0.00
PS28	502.70	1.65	0.00
PS29	498.70	1.65	0.00
PS30	523.41	1.65	0.00
PS31	520.92	1.65	0.00
PS32	520.54	1.65	0.00
PS33	520.20	1.65	0.00
PS34	519.95	1.65	0.00
PS35	519.20	1.65	0.00
PS36	518.40	1.65	0.00
PS37	516.54	1.65	0.00
PS38	514.40	1.65	0.00
PS39	511.69	1.65	0.00
PS40	510.00	1.65	0.00
PS41	522.78	1.65	0.00
PS42	521.42	1.65	0.00
PS43	518.27	1.65	0.00
PS44	508.77	1.65	0.00
PS45	507.26	1.65	0.04
PS46	505.60	1.65	0.00
PS48	502.45	1.65	0.00
PS49	500.93	2.00	0.00
PS50	495.58	2.50	0.00
PS51	492.21	5.28	0.00
PS52	491.37	4.56	0.00
PS54	487.57	1.65	0.00
PS55	486.41	1.65	0.00

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PS56	485.46	1.65	0.00
PS57	484.66	2.39	0.00
PS58	484.20	1.65	0.00
PS59	482.84	1.65	0.00
PS60	482.18	1.65	0.00
PS61	490.28	1.65	0.00
PS62	488.81	1.65	0.00
PS63	489.13	2.36	0.00
PS64	509.05	1.65	0.00
PS65	506.25	1.65	0.00
PS66	502.68	1.65	0.00
PS67	499.77	1.65	0.00
PS68	496.36	1.65	0.00
PS69	493.29	1.65	0.00
PS70	501.90	1.65	0.05
PS71	498.10	1.65	0.00
PS72	506.82	2.41	0.00
PS73	502.80	1.65	0.00
PS74	498.46	1.65	0.00
PS75	516.83	1.65	0.00
PS76	516.03	1.65	0.06
PS77	511.27	1.65	0.00
PS78	507.78	1.65	0.00
PS79	506.54	1.65	0.00
PS80	506.83	2.25	0.00
PS81	517.05	1.65	0.00
PS82	511.60	1.65	0.00
PS83	504.45	1.65	0.00
PS84	503.73	1.65	0.00
PS85	516.19	1.65	0.00
PS86	512.95	1.65	0.00
PS87	508.30	1.65	0.00
PS88	502.14	1.65	0.12
PS89	498.66	1.65	0.00
PS90	497.85	1.65	0.00
PS91	501.12	1.65	0.00
PS92	494.13	1.65	0.00
PS93	490.32	1.86	0.00
PS94	489.92	1.65	0.00
PS95	490.27	2.22	0.00
PS96	497.75	2.00	0.00
PS97	490.48	2.77	0.00
PS98	498.25	2.00	0.00
PS99	490.70	3.30	0.00
PV5	489.15	2.64	0.00

6.2 Relatório de trechos

Os valores negativos na vazão ou na velocidade indicam que o sentido de circulação é do nó final para o nó inicial.

Combinação: Esgotos

Início	Final	Comprimento m	Diâmetros mm	Inclinação %	Infiltração l/s	Vazão l/s	Profundidade mm	Velocidade m/s	Coment.
EEE1	PS23	35.13	DN150	0.47	0.0026	-1.02 -1.02	27.80 27.84	0.60	

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PS1	PS2	67.24	DN150	0.67	0.0050	0.01	2.11	0.60
						0.01	2.90	0.60
PS1	PV1	68.09	DN150	2.07	0.0051	-0.01	0.00	0.00
						0.00	1.63	0.60
PS2	PS3	62.30	DN150	0.55	0.0047	0.01	3.05	0.60
						0.01	3.63	0.60
PS3	PS4	67.82	DN150	1.37	0.0051	0.02	3.35	0.60
						0.02	3.73	0.60
PS3	PV2	66.19	DN150	1.21	0.0050	-0.00	0.00	0.60
						0.00	1.82	0.00
PS4	PS5	69.00	DN150	1.62	0.0052	0.02	3.58	0.60
						0.03	3.91	0.60
PS5	PS6	67.56	DN150	2.49	0.0051	0.03	3.54	0.60
						0.04	3.81	0.60
PS6	PS7	69.90	DN150	2.90	0.0052	0.04	3.68	0.60
						0.04	3.92	0.60
PS7	PS8	66.72	DN150	3.85	0.0050	0.04	3.67	0.60
						0.05	3.88	0.60
PS8	PS9	73.58	DN150	3.45	0.0055	0.05	3.98	0.60
						0.05	4.20	0.60
PS9	PS10	69.30	DN150	4.30	0.0052	0.18	7.09	0.60
						0.18	7.19	0.60
PS9	PV117	55.87	DN150	0.38	0.0042	-0.00	0.00	0.60
						0.00	2.20	0.00
PS10	PS11	49.58	DN150	1.59	0.0037	0.19	9.20	0.60
						0.19	9.28	0.60
PS10	PV118	68.61	DN150	0.57	0.0051	-0.01	0.00	0.60
						0.00	2.20	0.00
PS11	PS12	81.72	DN150	3.99	0.0061	0.19	7.49	0.60
						0.20	7.60	0.60
PS12	PS13	55.29	DN150	0.50	0.0041	0.20	12.39	0.60
						0.20	12.51	0.60
PS13	PS14	72.91	DN150	4.87	0.0055	0.20	7.32	0.60
						0.20	7.42	0.60
PS14	PS15	82.56	DN150	4.31	0.0062	0.20	7.63	0.60
						0.21	7.74	0.61
PS15	PS16	37.22	DN150	9.89	0.0028	0.21	6.37	0.81
						0.21	6.41	0.82
PS16	PS17	41.32	DN150	1.45	0.0031	0.25	10.87	0.60
						0.26	10.93	0.60
PS16	PS29	81.17	DN150	3.81	0.0061	-0.04	3.32	0.60
						-0.03	3.60	0.60
PS17	PS18	74.83	DN150	1.52	0.0056	0.26	10.81	0.60
						0.26	10.92	0.60
PS18	PS19	56.65	DN150	0.16	0.0042	0.26	18.69	0.60
						0.27	18.83	0.60
PS19	PS20	38.16	DN150	2.28	0.0029	0.29	10.38	0.60
						0.29	10.43	0.60
PS19	PS74	71.69	DN150	6.53	0.0054	-0.02	2.14	0.60
						-0.02	2.44	0.60
PS20	PS21	46.59	DN150	9.21	0.0035	0.35	8.26	0.93
						0.36	8.30	0.93
PS20	PS71	69.65	DN150	7.45	0.0052	-0.06	3.78	0.60
						-0.06	3.93	0.60
PS21	PS22	68.23	DN150	6.04	0.0051	0.36	9.17	0.81
						0.36	9.23	0.81
PS22	PS23	58.50	DN150	4.61	0.0044	0.36	9.83	0.74
						0.37	9.89	0.74
PS23	PS60	78.88	DN150	0.47	0.0059	-0.65	22.25	0.60
						-0.64	22.35	0.60

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PS24	PS25	72.78	DN150	3.85	0.0055	0.00	0.00	0.00
						0.01	1.45	0.60
PS25	PS26	53.56	DN150	4.59	0.0040	0.01	1.39	0.60
						0.01	1.80	0.60
PS26	PS27	56.82	DN150	3.98	0.0043	0.01	1.86	0.60
						0.01	2.21	0.60
PS27	PS28	90.88	DN150	4.07	0.0068	0.02	2.55	0.60
						0.03	2.94	0.60
PS27	PV125	69.90	DN150	0.11	0.0052	-0.01	0.00	0.60
						0.00	3.22	0.00
PS28	PS29	86.85	DN150	4.61	0.0065	0.03	2.86	0.60
						0.03	3.18	0.60
PS30	PS31	71.48	DN150	3.48	0.0054	0.00	1.42	0.60
						0.01	2.00	0.60
PS30	PV29	66.40	DN150	2.95	0.0050	-0.00	0.00	0.60
						0.00	1.48	0.00
PS31	PS32	70.90	DN150	0.54	0.0053	0.01	3.08	0.60
						0.02	3.74	0.60
PS32	PS33	65.82	DN150	0.52	0.0049	0.02	3.77	0.60
						0.02	4.29	0.60
PS33	PS34	66.40	DN150	0.38	0.0050	0.03	5.56	0.60
						0.04	5.96	0.60
PS33	PS41	72.75	DN150	3.55	0.0055	-0.01	1.38	0.60
						-0.00	1.98	0.60
PS34	PS35	66.40	DN150	1.13	0.0050	0.04	4.62	0.60
						0.04	4.91	0.60
PS35	PS36	66.41	DN150	1.20	0.0050	0.05	5.35	0.60
						0.06	5.59	0.60
PS35	PS42	68.49	DN150	3.24	0.0051	-0.01	1.42	0.60
						-0.00	1.99	0.60
PS36	PS37	66.52	DN150	2.80	0.0050	0.06	4.59	0.60
						0.06	4.78	0.60
PS37	PS38	63.83	DN150	3.35	0.0048	0.07	4.91	0.60
						0.08	5.06	0.60
PS37	PS43	71.46	DN150	2.42	0.0054	-0.01	1.46	0.60
						-0.00	2.11	0.60
PS38	PS39	58.70	DN150	4.62	0.0044	0.08	4.70	0.60
						0.08	4.83	0.60
PS39	PS40	51.70	DN150	3.27	0.0039	0.08	5.39	0.60
						0.09	5.50	0.60
PS39	PV40	69.19	DN150	2.10	0.0052	-0.01	0.00	0.60
						0.00	1.63	0.00
PS40	PS44	85.57	DN150	1.44	0.0064	0.09	6.66	0.60
						0.09	6.89	0.60
PS41	PV65	62.88	DN150	2.86	0.0047	-0.00	0.00	0.60
						0.00	1.45	0.00
PS42	PV67	63.43	DN150	1.75	0.0048	-0.00	0.00	0.60
						0.00	1.64	0.00
PS43	PV69	57.96	DN150	0.95	0.0043	-0.00	0.00	0.60
						0.00	1.81	0.00
PS44	PS45	66.64	DN150	2.27	0.0050	0.09	6.19	0.60
						0.10	6.34	0.60
PS45	PS46	54.14	DN150	3.07	0.0041	0.15	7.05	0.60
						0.15	7.14	0.60
PS45	PV88	53.28	DN150	2.44	0.0040	-0.00	0.00	0.60
						0.00	1.40	0.00
PS46	PS48	66.14	DN150	4.76	0.0050	0.15	6.44	0.60
						0.15	6.54	0.60
PS48	PS49	85.49	DN150	2.19	0.0064	0.31	10.87	0.60
						0.32	10.98	0.60

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PS48	PS84	67.15	DN150	1.91	0.0050	-0.15	7.98	0.60
						-0.15	8.10	0.60
PS49	PS50	84.61	DN150	6.91	0.0063	0.32	8.37	0.81
						0.32	8.45	0.82
PS50	PS51	57.57	DN150	10.68	0.0043	0.32	7.63	0.95
						0.33	7.68	0.96
PS51	PS52	25.34	DN150	0.47	0.0019	0.53	20.18	0.60
						0.53	20.22	
PS51	PS99	100.18	DN150	0.47	0.0075	-0.20	12.48	0.60
						-0.19	12.71	0.60
PS52	PV5	59.42	DN150	0.47	0.0045	0.53	20.31	0.60
						0.54	20.39	
PS52	PV116	63.51	DN150	7.05	0.0048	-0.00	0.00	0.60
						0.00	1.19	0.00
PS54	PS55	75.11	DN150	1.54	0.0056	0.61	16.23	0.60
						0.61	16.30	0.60
PS54	PV5	71.79	DN150	0.82	0.0054	-0.61	18.80	0.60
						-0.60	18.88	0.60
PS55	PS56	72.57	DN150	1.31	0.0054	0.61	16.96	0.60
						0.62	17.03	0.60
PS56	PS57	66.65	DN150	2.31	0.0050	0.62	14.87	0.68
						0.62	14.93	0.68
PS57	PS58	59.31	DN150	0.47	0.0044	-0.01	2.08	0.60
						-0.00	2.92	0.60
PS57	PS59	87.30	DN150	1.24	0.0065	0.63	17.44	0.60
						0.64	17.53	0.60
PS58	PV112	55.29	DN150	0.38	0.0041	-0.00	0.00	0.60
						0.00	2.19	0.00
PS59	PS60	96.40	DN150	0.68	0.0072	0.64	20.21	0.60
						0.64	20.32	0.60
PS61	PS62	101.81	DN150	1.44	0.0076	0.01	1.93	0.60
						0.01	2.80	0.60
PS61	PV62	82.22	DN150	3.20	0.0062	-0.01	0.00	0.60
						0.00	1.60	0.00
PS62	PS63	82.91	DN150	0.47	0.0062	0.01	3.64	0.60
						0.02	4.32	0.60
PS63	PS69	61.20	DN150	6.80	0.0046	-0.04	2.97	0.60
						-0.03	3.15	0.60
PS63	PV5	56.25	DN150	0.47	0.0042	0.06	7.14	0.60
						0.06	7.37	0.60
PS64	PS65	90.24	DN150	3.10	0.0068	0.00	1.20	0.60
						0.01	2.02	0.60
PS64	PV50	42.92	DN150	2.07	0.0032	-0.00	0.00	0.60
						0.00	1.31	0.00
PS65	PS66	88.98	DN150	4.01	0.0067	0.01	1.90	0.60
						0.02	2.41	0.27
PS66	PS67	96.24	DN150	3.02	0.0072	0.02	2.58	0.60
						0.02	3.04	0.60
PS67	PS68	82.72	DN150	4.12	0.0062	0.02	2.83	0.60
						0.03	3.15	0.60
PS68	PS69	52.34	DN150	5.87	0.0039	0.03	2.91	0.60
						0.03	3.08	0.60
PS70	PS71	91.72	DN150	4.14	0.0069	0.05	4.09	0.60
						0.06	4.33	0.60
PS70	PV59	64.75	DN150	6.72	0.0049	-0.00	0.00	0.60
						0.00	1.21	0.00
PS72	PS73	67.78	DN150	4.81	0.0051	0.01	1.35	0.60
						0.01	1.85	0.60
PS72	PV25	69.37	DN150	1.00	0.0052	-0.01	0.00	0.60
						0.00	1.94	0.00

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PS73	PS74	81.80	DN150	5.31	0.0061	0.01	1.81	0.60
						0.02	2.25	0.60
PS75	PS76	66.55	DN150	1.20	0.0050	0.00	1.82	0.60
						0.01	2.52	0.60
PS75	PV79	66.55	DN150	0.33	0.0050	-0.00	0.00	0.60
						0.00	2.46	0.00
PS76	PS77	63.80	DN150	7.46	0.0048	0.08	4.22	0.60
						0.08	4.34	0.60
PS76	PV71	77.53	DN150	5.38	0.0058	-0.01	0.00	0.60
						0.00	1.38	0.00
PS77	PS78	63.86	DN150	5.47	0.0048	0.08	4.67	0.60
						0.09	4.80	0.60
PS78	PS79	69.12	DN150	1.79	0.0052	0.09	6.22	0.60
						0.09	6.39	0.60
PS79	PS80	65.09	DN150	0.47	0.0049	0.09	8.75	0.60
						0.10	8.97	0.60
PS80	PS82	92.37	DN150	5.81	0.0069	-0.02	1.88	0.60
						-0.01	2.33	0.60
PS80	PS83	77.89	DN150	2.29	0.0058	0.11	6.73	0.60
						0.12	6.89	0.60
PS81	PS82	96.22	DN150	5.66	0.0072	0.00	1.21	0.60
						0.01	1.89	0.60
PS81	PV81	59.06	DN150	0.19	0.0044	-0.00	0.00	0.60
						0.00	2.66	0.00
PS83	PS84	82.78	DN150	0.87	0.0062	0.12	8.64	0.60
						0.13	8.85	0.60
PS84	PS87	81.96	DN150	5.58	0.0061	-0.02	2.29	0.60
						-0.02	2.63	0.60
PS85	PS86	87.56	DN150	3.70	0.0066	0.00	1.39	0.60
						0.01	2.07	0.60
PS85	PV84	65.19	DN150	1.49	0.0049	-0.00	0.00	0.60
						0.00	1.72	0.00
PS86	PS87	81.79	DN150	5.69	0.0061	0.01	1.87	0.60
						0.02	2.28	0.60
PS88	PS89	59.50	DN150	5.85	0.0045	0.12	5.62	0.60
						0.13	5.72	0.60
PS88	PV89	56.02	DN150	8.37	0.0042	-0.00	0.00	0.60
						0.00	1.08	0.00
PS89	PS90	26.22	DN150	3.09	0.0020	0.13	6.64	0.60
						0.13	6.68	0.60
PS90	PS91	61.52	DN150	5.32	0.0046	-0.01	1.20	0.60
						-0.00	1.68	0.60
PS90	PS92	53.07	DN150	7.01	0.0040	0.14	5.69	0.64
						0.14	5.77	0.64
PS91	PV95	56.17	DN150	5.93	0.0042	-0.00	0.00	0.60
						0.00	1.17	0.00
PS92	PS93	58.48	DN150	6.52	0.0044	0.14	5.87	0.63
						0.15	5.95	0.63
PS93	PS94	41.22	DN150	0.47	0.0031	0.15	11.20	0.60
						0.16	11.31	0.60
PS93	PV97	69.93	DN150	0.47	0.0052	-0.01	0.00	0.60
						0.00	2.32	0.00
PS94	PS95	46.04	DN150	0.47	0.0035	0.16	11.31	0.60
						0.16	11.43	0.60
PS95	PS96	84.16	DN150	9.15	0.0063	-0.01	1.24	0.60
						-0.01	1.73	0.60
PS95	PS97	72.30	DN150	0.47	0.0054	0.17	11.83	0.60
						0.18	12.01	0.60
PS96	PV4	79.16	DN150	8.00	0.0059	-0.01	0.00	0.60
						0.00	1.28	0.00

Relatório geral da instalação – Bacia nº 02

PS97	PS98	81.71	DN150	10.45	0.0061	-0.01	0.99	0.60
						-0.00	1.53	0.60
PS97	PS99	66.14	DN150	0.47	0.0050	0.19	12.33	0.60
						0.19	12.48	0.60
PS98	PV102	52.92	DN150	8.60	0.0040	-0.00	0.00	0.60
						0.00	1.04	0.00

7. Envoltória

Indicam-se os máximos dos valores absolutos.

Envoltória de máximos

Início	Final	Comprimento m	Diâmetros mm	Inclinação %	Vazão l/s	Profundidade mm	Velocidade m/s
EEE1	PS23	35.13	DN150	0.47	1.02	27.84	0.60
PS1	PS2	67.24	DN150	0.67	0.01	2.90	0.60
PS1	PV1	68.09	DN150	2.07	0.01	1.63	0.60
PS2	PS3	62.30	DN150	0.55	0.01	3.63	0.60
PS3	PS4	67.82	DN150	1.37	0.02	3.73	0.60
PS3	PV2	66.19	DN150	1.21	0.00	1.82	0.60
PS4	PS5	69.00	DN150	1.62	0.03	3.91	0.60
PS5	PS6	67.56	DN150	2.49	0.04	3.81	0.60
PS6	PS7	69.90	DN150	2.90	0.04	3.92	0.60
PS7	PS8	66.72	DN150	3.85	0.05	3.88	0.60
PS8	PS9	73.58	DN150	3.45	0.05	4.20	0.60
PS9	PS10	69.30	DN150	4.30	0.18	7.19	0.60
PS9	PV117	55.87	DN150	0.38	0.00	2.20	0.60
PS10	PS11	49.58	DN150	1.59	0.19	9.28	0.60
PS10	PV118	68.61	DN150	0.57	0.01	2.20	0.60
PS11	PS12	81.72	DN150	3.99	0.20	7.60	0.60
PS12	PS13	55.29	DN150	0.50	0.20	12.51	0.60
PS13	PS14	72.91	DN150	4.87	0.20	7.42	0.63
PS14	PS15	82.56	DN150	4.31	0.21	7.74	0.61
PS15	PS16	37.22	DN150	9.89	0.21	6.41	0.82
PS16	PS17	41.32	DN150	1.45	0.26	10.93	0.60
PS16	PS29	81.17	DN150	3.81	0.04	3.60	0.60
PS17	PS18	74.83	DN150	1.52	0.26	10.92	0.60
PS18	PS19	56.65	DN150	0.16	0.27	18.83	0.60
PS19	PS20	38.16	DN150	2.28	0.29	10.43	0.60
PS19	PS74	71.69	DN150	6.53	0.02	2.44	0.60
PS20	PS21	46.59	DN150	9.21	0.36	8.30	0.93
PS20	PS71	69.65	DN150	7.45	0.06	3.93	0.60
PS21	PS22	68.23	DN150	6.04	0.36	9.23	0.81
PS22	PS23	58.50	DN150	4.61	0.37	9.89	0.74
PS23	PS60	78.88	DN150	0.47	0.65	22.35	0.60
PS24	PS25	72.78	DN150	3.85	0.01	1.45	0.60
PS25	PS26	53.56	DN150	4.59	0.01	1.80	0.60
PS26	PS27	56.82	DN150	3.98	0.01	2.21	0.60
PS27	PS28	90.88	DN150	4.07	0.03	2.94	0.60
PS27	PV125	69.90	DN150	0.11	0.01	3.22	0.60
PS28	PS29	86.85	DN150	4.61	0.03	3.18	0.60
PS30	PS31	71.48	DN150	3.48	0.01	2.00	0.60
PS30	PV29	66.40	DN150	2.95	0.00	1.48	0.60
PS31	PS32	70.90	DN150	0.54	0.02	3.74	0.60
PS32	PS33	65.82	DN150	0.52	0.02	4.29	0.60
PS33	PS34	66.40	DN150	0.38	0.04	5.96	0.60

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PS33	PS41	72.75	DN150	3.55	0.01	1.98	0.60
PS34	PS35	66.40	DN150	1.13	0.04	4.91	0.60
PS35	PS36	66.41	DN150	1.20	0.06	5.59	0.60
PS35	PS42	68.49	DN150	3.24	0.01	1.99	0.60
PS36	PS37	66.52	DN150	2.80	0.06	4.78	0.60
PS37	PS38	63.83	DN150	3.35	0.08	5.06	0.60
PS37	PS43	71.46	DN150	2.42	0.01	2.11	0.60
PS38	PS39	58.70	DN150	4.62	0.08	4.83	0.60
PS39	PS40	51.70	DN150	3.27	0.09	5.50	0.60
PS39	PV40	69.19	DN150	2.10	0.01	1.63	0.60
PS40	PS44	85.57	DN150	1.44	0.09	6.89	0.60
PS41	PV65	62.88	DN150	2.86	0.00	1.45	0.60
PS42	PV67	63.43	DN150	1.75	0.00	1.64	0.60
PS43	PV69	57.96	DN150	0.95	0.00	1.81	0.60
PS44	PS45	66.64	DN150	2.27	0.10	6.34	0.60
PS45	PS46	54.14	DN150	3.07	0.15	7.14	0.60
PS45	PV88	53.28	DN150	2.44	0.00	1.40	0.60
PS46	PS48	66.14	DN150	4.76	0.15	6.54	0.60
PS48	PS49	85.49	DN150	2.19	0.32	10.98	0.60
PS48	PS84	67.15	DN150	1.91	0.15	8.10	0.60
PS49	PS50	84.61	DN150	6.91	0.32	8.45	0.82
PS50	PS51	57.57	DN150	10.68	0.33	7.68	0.96
PS51	PS52	25.34	DN150	0.47	0.53	20.22	0.60
PS51	PS99	100.18	DN150	0.47	0.20	12.71	0.60
PS52	PV5	59.42	DN150	0.47	0.54	20.39	0.60
PS52	PV116	63.51	DN150	7.05	0.00	1.19	0.60
PS54	PS55	75.11	DN150	1.54	0.61	16.30	0.60
PS54	PV5	71.79	DN150	0.82	0.61	18.88	0.60
PS55	PS56	72.57	DN150	1.31	0.62	17.03	0.60
PS56	PS57	66.65	DN150	2.31	0.62	14.93	0.68
PS57	PS58	59.31	DN150	0.47	0.01	2.92	0.60
PS57	PS59	87.30	DN150	1.24	0.64	17.53	0.60
PS58	PV112	55.29	DN150	0.38	0.00	2.19	0.60
PS59	PS60	96.40	DN150	0.68	0.64	20.32	0.60
PS61	PS62	101.81	DN150	1.44	0.01	2.80	0.60
PS61	PV62	82.22	DN150	3.20	0.01	1.60	0.60
PS62	PS63	82.91	DN150	0.47	0.02	4.32	0.60
PS63	PS69	61.20	DN150	6.80	0.04	3.15	0.60
PS63	PV5	56.25	DN150	0.47	0.06	7.37	0.60
PS64	PS65	90.24	DN150	3.10	0.01	2.02	0.60
PS64	PV50	42.92	DN150	2.07	0.00	1.31	0.60
PS65	PS66	88.98	DN150	4.01	0.02	2.41	0.60
PS66	PS67	96.24	DN150	3.02	0.02	3.04	0.60
PS67	PS68	82.72	DN150	4.12	0.03	3.15	0.60
PS68	PS69	52.34	DN150	5.87	0.03	3.08	0.60
PS70	PS71	91.72	DN150	4.14	0.06	4.33	0.60
PS70	PV59	64.75	DN150	6.72	0.00	1.21	0.60
PS72	PS73	67.78	DN150	4.81	0.01	1.85	0.60
PS72	PV25	69.37	DN150	1.00	0.01	1.94	0.60
PS73	PS74	81.80	DN150	5.31	0.02	2.25	0.60
PS75	PS76	66.55	DN150	1.20	0.01	2.52	0.60
PS75	PV79	66.55	DN150	0.33	0.00	2.46	0.60
PS76	PS77	63.80	DN150	7.46	0.08	4.34	0.60
PS76	PV71	77.53	DN150	5.38	0.01	1.38	0.60

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PS77	PS78	63.86	DN150	5.47	0.09	4.80	0.60
PS78	PS79	69.12	DN150	1.79	0.09	6.39	0.60
PS79	PS80	65.09	DN150	0.47	0.10	8.97	0.60
PS80	PS82	92.37	DN150	5.81	0.02	2.33	0.60
PS80	PS83	77.89	DN150	2.29	0.12	6.89	0.60
PS81	PS82	96.22	DN150	5.66	0.01	1.89	0.60
PS81	PV81	59.06	DN150	0.19	0.00	2.66	0.60
PS83	PS84	82.78	DN150	0.87	0.13	8.85	0.60
PS84	PS87	81.96	DN150	5.58	0.02	2.63	0.60
PS85	PS86	87.56	DN150	3.70	0.01	2.07	0.60
PS85	PV84	65.19	DN150	1.49	0.00	1.72	0.60
PS86	PS87	81.79	DN150	5.69	0.02	2.28	0.60
PS88	PS89	59.50	DN150	5.85	0.13	5.72	0.60
PS88	PV89	56.02	DN150	8.37	0.00	1.08	0.60
PS89	PS90	26.22	DN150	3.09	0.13	6.68	0.60
PS90	PS91	61.52	DN150	5.32	0.01	1.68	0.60
PS90	PS92	53.07	DN150	7.01	0.14	5.77	0.64
PS91	PV95	56.17	DN150	5.93	0.00	1.17	0.60
PS92	PS93	58.48	DN150	6.52	0.15	5.95	0.63
PS93	PS94	41.22	DN150	0.47	0.16	11.31	0.60
PS93	PV97	69.93	DN150	0.47	0.01	2.32	0.60
PS94	PS95	46.04	DN150	0.47	0.16	11.43	0.60
PS95	PS96	84.16	DN150	9.15	0.01	1.73	0.60
PS95	PS97	72.30	DN150	0.47	0.18	12.01	0.60
PS96	PV4	79.16	DN150	8.00	0.01	1.28	0.60
PS97	PS98	81.71	DN150	10.45	0.01	1.53	0.60
PS97	PS99	66.14	DN150	0.47	0.19	12.48	0.60
PS98	PV102	52.92	DN150	8.60	0.00	1.04	0.60

Indicam-se os mínimos dos valores absolutos.

Envoltória de mínimos

Início	Final	Comprimento m	Diâmetros mm	Inclinação %	Vazão l/s	Profundidade mm	Velocidade m/s
EEE1	PS23	35.13	DN150	0.47	1.02	27.80	0.60
PS1	PS2	67.24	DN150	0.67	0.01	2.11	0.60
PS1	PV1	68.09	DN150	2.07	0.00	0.00	0.00
PS2	PS3	62.30	DN150	0.55	0.01	3.05	0.60
PS3	PS4	67.82	DN150	1.37	0.02	3.35	0.60
PS3	PV2	66.19	DN150	1.21	0.00	0.00	0.00
PS4	PS5	69.00	DN150	1.62	0.02	3.58	0.60
PS5	PS6	67.56	DN150	2.49	0.03	3.54	0.60
PS6	PS7	69.90	DN150	2.90	0.04	3.68	0.60
PS7	PS8	66.72	DN150	3.85	0.04	3.67	0.60
PS8	PS9	73.58	DN150	3.45	0.05	3.98	0.60
PS9	PS10	69.30	DN150	4.30	0.18	7.09	0.60
PS9	PV117	55.87	DN150	0.38	0.00	0.00	0.00
PS10	PS11	49.58	DN150	1.59	0.19	9.20	0.60
PS10	PV118	68.61	DN150	0.57	0.00	0.00	0.00
PS11	PS12	81.72	DN150	3.99	0.19	7.49	0.60
PS12	PS13	55.29	DN150	0.50	0.20	12.39	0.60
PS13	PS14	72.91	DN150	4.87	0.20	7.32	0.63
PS14	PS15	82.56	DN150	4.31	0.20	7.63	0.60
PS15	PS16	37.22	DN150	9.89	0.21	6.37	0.81
PS16	PS17	41.32	DN150	1.45	0.25	10.87	0.60

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PS16	PS29	81.17	DN150	3.81	0.03	3.32	0.60
PS17	PS18	74.83	DN150	1.52	0.26	10.81	0.60
PS18	PS19	56.65	DN150	0.16	0.26	18.69	0.60
PS19	PS20	38.16	DN150	2.28	0.29	10.38	0.60
PS19	PS74	71.69	DN150	6.53	0.02	2.14	0.60
PS20	PS21	46.59	DN150	9.21	0.35	8.26	0.93
PS20	PS71	69.65	DN150	7.45	0.06	3.78	0.60
PS21	PS22	68.23	DN150	6.04	0.36	9.17	0.81
PS22	PS23	58.50	DN150	4.61	0.36	9.83	0.74
PS23	PS60	78.88	DN150	0.47	0.64	22.25	0.60
PS24	PS25	72.78	DN150	3.85	0.00	0.00	0.00
PS25	PS26	53.56	DN150	4.59	0.01	1.39	0.60
PS26	PS27	56.82	DN150	3.98	0.01	1.86	0.60
PS27	PS28	90.88	DN150	4.07	0.02	2.55	0.60
PS27	PV125	69.90	DN150	0.11	0.00	0.00	0.00
PS28	PS29	86.85	DN150	4.61	0.03	2.86	0.60
PS30	PS31	71.48	DN150	3.48	0.00	1.42	0.60
PS30	PV29	66.40	DN150	2.95	0.00	0.00	0.00
PS31	PS32	70.90	DN150	0.54	0.01	3.08	0.60
PS32	PS33	65.82	DN150	0.52	0.02	3.77	0.60
PS33	PS34	66.40	DN150	0.38	0.03	5.56	0.60
PS33	PS41	72.75	DN150	3.55	0.00	1.38	0.60
PS34	PS35	66.40	DN150	1.13	0.04	4.62	0.60
PS35	PS36	66.41	DN150	1.20	0.05	5.35	0.60
PS35	PS42	68.49	DN150	3.24	0.00	1.42	0.60
PS36	PS37	66.52	DN150	2.80	0.06	4.59	0.60
PS37	PS38	63.83	DN150	3.35	0.07	4.91	0.60
PS37	PS43	71.46	DN150	2.42	0.00	1.46	0.60
PS38	PS39	58.70	DN150	4.62	0.08	4.70	0.60
PS39	PS40	51.70	DN150	3.27	0.08	5.39	0.60
PS39	PV40	69.19	DN150	2.10	0.00	0.00	0.00
PS40	PS44	85.57	DN150	1.44	0.09	6.66	0.60
PS41	PV65	62.88	DN150	2.86	0.00	0.00	0.00
PS42	PV67	63.43	DN150	1.75	0.00	0.00	0.00
PS43	PV69	57.96	DN150	0.95	0.00	0.00	0.00
PS44	PS45	66.64	DN150	2.27	0.09	6.19	0.60
PS45	PS46	54.14	DN150	3.07	0.15	7.05	0.60
PS45	PV88	53.28	DN150	2.44	0.00	0.00	0.00
PS46	PS48	66.14	DN150	4.76	0.15	6.44	0.60
PS48	PS49	85.49	DN150	2.19	0.31	10.87	0.60
PS48	PS84	67.15	DN150	1.91	0.15	7.98	0.60
PS49	PS50	84.61	DN150	6.91	0.32	8.37	0.81
PS50	PS51	57.57	DN150	10.68	0.32	7.63	0.95
PS51	PS52	25.34	DN150	0.47	0.53	20.18	0.60
PS51	PS99	100.18	DN150	0.47	0.19	12.48	0.60
PS52	PV5	59.42	DN150	0.47	0.53	20.31	0.60
PS52	PV116	63.51	DN150	7.05	0.00	0.00	0.00
PS54	PS55	75.11	DN150	1.54	0.61	16.23	0.60
PS54	PV5	71.79	DN150	0.82	0.60	18.80	0.60
PS55	PS56	72.57	DN150	1.31	0.61	16.96	0.60
PS56	PS57	66.65	DN150	2.31	0.62	14.87	0.68
PS57	PS58	59.31	DN150	0.47	0.00	2.08	0.60
PS57	PS59	87.30	DN150	1.24	0.63	17.44	0.60
PS58	PV112	55.29	DN150	0.38	0.00	0.00	0.00

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PS59	PS60	96.40	DN150	0.68	0.64	20.21	0.60
PS61	PS62	101.81	DN150	1.44	0.01	1.93	0.60
PS61	PV62	82.22	DN150	3.20	0.00	0.00	0.00
PS62	PS63	82.91	DN150	0.47	0.01	3.64	0.60
PS63	PS69	61.20	DN150	6.80	0.03	2.97	0.60
PS63	PV5	56.25	DN150	0.47	0.06	7.14	0.60
PS64	PS65	90.24	DN150	3.10	0.00	1.20	0.60
PS64	PV50	42.92	DN150	2.07	0.00	0.00	0.00
PS65	PS66	88.98	DN150	4.01	0.01	1.90	0.60
PS66	PS67	96.24	DN150	3.02	0.02	2.58	0.60
PS67	PS68	82.72	DN150	4.12	0.02	2.83	0.60
PS68	PS69	52.34	DN150	5.87	0.03	2.91	0.60
PS70	PS71	91.72	DN150	4.14	0.05	4.09	0.60
PS70	PV59	64.75	DN150	6.72	0.00	0.00	0.00
PS72	PS73	67.78	DN150	4.81	0.01	1.35	0.60
PS72	PV25	69.37	DN150	1.00	0.00	0.00	0.00
PS73	PS74	81.80	DN150	5.31	0.01	1.81	0.60
PS75	PS76	66.55	DN150	1.20	0.00	1.82	0.60
PS75	PV79	66.55	DN150	0.33	0.00	0.00	0.00
PS76	PS77	63.80	DN150	7.46	0.08	4.22	0.60
PS76	PV71	77.53	DN150	5.38	0.00	0.00	0.00
PS77	PS78	63.86	DN150	5.47	0.08	4.67	0.60
PS78	PS79	69.12	DN150	1.79	0.09	6.22	0.60
PS79	PS80	65.09	DN150	0.47	0.09	8.75	0.60
PS80	PS82	92.37	DN150	5.81	0.01	1.88	0.60
PS80	PS83	77.89	DN150	2.29	0.11	6.73	0.60
PS81	PS82	96.22	DN150	5.66	0.00	1.21	0.60
PS81	PV81	59.06	DN150	0.19	0.00	0.00	0.00
PS83	PS84	82.78	DN150	0.87	0.12	8.64	0.60
PS84	PS87	81.96	DN150	5.58	0.02	2.29	0.60
PS85	PS86	87.56	DN150	3.70	0.00	1.39	0.60
PS85	PV84	65.19	DN150	1.49	0.00	0.00	0.00
PS86	PS87	81.79	DN150	5.69	0.01	1.87	0.60
PS88	PS89	59.50	DN150	5.85	0.12	5.62	0.60
PS88	PV89	56.02	DN150	8.37	0.00	0.00	0.00
PS89	PS90	26.22	DN150	3.09	0.13	6.64	0.60
PS90	PS91	61.52	DN150	5.32	0.00	1.20	0.60
PS90	PS92	53.07	DN150	7.01	0.14	5.69	0.64
PS91	PV95	56.17	DN150	5.93	0.00	0.00	0.00
PS92	PS93	58.48	DN150	6.52	0.14	5.87	0.63
PS93	PS94	41.22	DN150	0.47	0.15	11.20	0.60
PS93	PV97	69.93	DN150	0.47	0.00	0.00	0.00
PS94	PS95	46.04	DN150	0.47	0.16	11.31	0.60
PS95	PS96	84.16	DN150	9.15	0.01	1.24	0.60
PS95	PS97	72.30	DN150	0.47	0.17	11.83	0.60
PS96	PV4	79.16	DN150	8.00	0.00	0.00	0.00
PS97	PS98	81.71	DN150	10.45	0.00	0.99	0.60
PS97	PS99	66.14	DN150	0.47	0.19	12.33	0.60
PS98	PV102	52.92	DN150	8.60	0.00	0.00	0.00

8. Quantitativos

Em seguida, são detalhados os comprimentos totais dos materiais utilizados na instalação.

TUBOS PVC

Relatório geral da instalação – Bacia nº 02

Descrição	Comprimento m
DN150	8412.34

9. Quantitativos escavação

Os volumes de terra removidos para a execução da obra são:

Descrição	Vol. escavado m3	Vol. areias m3	Vol. areia fina m3
Solos coesivos	7057.22	2164.67	4743.89
Total	7057.22	2164.67	4743.89

Volume de terra por trechos

Início	Final	Solo Início m	Solo Final m	Comprimento m	Prof. Início m	Prof. Final m	Largura fundo cm	Talude	Vol. escavado m3	Vol. areias m3	Vol. areia fina m3	Superfície pavimento m2
EEE1	PS23	482.38	482.38	35.13	2.75	2.58	50.00	0/1	44.13	9.04	34.47	17.57
PS1	PS2	525.02	524.57	67.24	1.65	1.65	50.00	0/1	50.43	17.30	31.94	33.62
PS1	PV1	525.02	526.43	68.09	1.65	1.65	50.00	0/1	51.07	17.52	32.34	34.05
PS2	PS3	524.57	524.23	62.30	1.65	1.65	50.00	0/1	46.73	16.03	29.59	31.15
PS3	PS4	524.23	523.30	67.82	1.65	1.65	50.00	0/1	50.87	17.45	32.21	33.91
PS3	PV2	524.23	525.03	66.19	1.65	1.65	50.00	0/1	49.64	17.03	31.44	33.10
PS4	PS5	523.30	522.18	69.00	1.65	1.65	50.00	0/1	51.75	17.76	32.78	34.50
PS5	PS6	522.18	520.50	67.56	1.65	1.65	50.00	0/1	50.67	17.39	32.09	33.78
PS6	PS7	520.50	518.47	69.90	1.65	1.65	50.00	0/1	52.42	17.99	33.20	34.95
PS7	PS8	518.47	515.90	66.72	1.65	1.65	50.00	0/1	50.04	17.17	31.69	33.36
PS8	PS9	515.90	513.36	73.58	1.65	1.65	50.00	0/1	55.18	18.93	34.95	36.79
PS9	PS10	513.36	510.38	69.30	1.65	1.65	50.00	0/1	51.97	17.83	32.92	34.65
PS9	PV11	513.36	513.57	55.87	1.65	1.65	50.00	0/1	41.90	14.38	26.54	27.93
PS10	PS11	510.38	509.59	49.58	1.65	1.65	50.00	0/1	37.19	12.76	23.55	24.79
PS10	PV11	510.38	510.77	68.61	1.65	1.65	50.00	0/1	51.46	17.66	32.59	34.31
PS11	PS12	509.59	506.33	81.72	1.65	1.65	50.00	0/1	61.29	21.03	38.82	40.86
PS12	PS13	506.33	506.13	55.29	1.65	1.73	50.00	0/1	42.52	14.23	27.32	27.65
PS13	PS14	506.13	502.85	72.91	1.73	2.00	50.00	0/1	62.45	18.76	42.40	36.45
PS14	PS15	502.85	499.29	82.56	2.00	2.00	50.00	0/1	76.37	21.25	53.67	41.28
PS15	PS16	499.29	495.26	37.22	2.00	1.65	50.00	0/1	31.11	9.58	20.88	18.61
PS16	PS17	495.26	494.66	41.32	1.65	1.65	50.00	0/1	30.99	10.63	19.63	20.66
PS16	PS29	495.26	498.35	81.17	1.65	1.65	50.00	0/1	60.88	20.89	38.56	40.59
PS17	PS18	494.66	493.52	74.83	1.65	1.65	50.00	0/1	56.12	19.26	35.54	37.42
PS18	PS19	493.52	493.43	56.65	1.65	1.65	50.00	0/1	42.49	14.58	26.91	28.33
PS19	PS20	493.43	492.56	38.16	1.65	1.65	50.00	0/1	28.69	9.82	18.19	19.08
PS19	PS74	493.43	498.11	71.69	1.65	1.65	50.00	0/1	53.90	18.45	34.18	35.84
PS20	PS21	492.56	488.27	46.59	1.65	1.65	50.00	0/1	35.03	11.99	22.22	23.30
PS20	PS71	492.56	497.75	69.65	1.65	1.65	50.00	0/1	52.24	17.92	33.08	34.82
PS21	PS22	488.27	484.15	68.23	1.65	1.65	50.00	0/1	51.30	17.56	32.54	34.12
PS22	PS23	484.15	482.38	58.50	1.65	2.58	50.00	0/1	56.98	15.05	40.90	29.25
PS23	PS60	482.38	481.83	78.88	2.58	1.65	50.00	0/1	76.77	20.30	55.08	39.44
PS24	PS25	513.57	510.77	72.78	1.65	1.65	50.00	0/1	54.58	18.73	34.57	36.39
PS25	PS26	510.77	508.31	53.56	1.65	1.65	50.00	0/1	40.17	13.78	25.44	26.78
PS26	PS27	508.31	506.05	56.82	1.65	1.65	50.00	0/1	42.62	14.62	26.99	28.41
PS27	PS28	506.05	502.35	90.88	1.65	1.65	50.00	0/1	68.16	23.39	43.17	45.44
PS27	PV12	506.05	506.13	69.90	1.65	1.65	50.00	0/1	52.42	17.99	33.20	34.95
PS28	PS29	502.35	498.35	86.85	1.65	1.65	50.00	0/1	65.14	22.35	41.25	43.42
PS30	PS31	523.06	520.57	71.48	1.65	1.65	50.00	0/1	53.61	18.39	33.95	35.74

Relatório geral da instalação – Bacia nº 02

PS30	PV29	523.06	525.02	66.40	1.65	1.65	50.00	0/1	49.80	17.09	31.54	33.20
PS31	PS32	520.57	520.19	70.90	1.65	1.65	50.00	0/1	53.17	18.24	33.68	35.45
PS32	PS33	520.19	519.85	65.82	1.65	1.65	50.00	0/1	49.37	16.94	31.27	32.91
PS33	PS34	519.85	519.60	66.40	1.65	1.65	50.00	0/1	49.80	17.09	31.54	33.20
PS33	PS41	519.85	522.43	72.75	1.65	1.65	50.00	0/1	54.56	18.72	34.55	36.37
PS34	PS35	519.60	518.85	66.40	1.65	1.65	50.00	0/1	49.80	17.09	31.54	33.20
PS35	PS36	518.85	518.05	66.41	1.65	1.65	50.00	0/1	49.81	17.09	31.55	33.21
PS35	PS42	518.85	521.07	68.49	1.65	1.65	50.00	0/1	51.37	17.62	32.53	34.24
PS36	PS37	518.05	516.19	66.52	1.65	1.65	50.00	0/1	49.89	17.12	31.60	33.26
PS37	PS38	516.19	514.05	63.83	1.65	1.65	50.00	0/1	47.87	16.42	30.32	31.91
PS37	PS43	516.19	517.92	71.46	1.65	1.65	50.00	0/1	53.60	18.39	33.94	35.73
PS38	PS39	514.05	511.34	58.70	1.65	1.65	50.00	0/1	44.02	15.10	27.88	29.35
PS39	PS40	511.34	509.65	51.70	1.65	1.65	50.00	0/1	38.78	13.30	24.56	25.85
PS39	PV40	511.34	512.79	69.19	1.65	1.65	50.00	0/1	51.89	17.81	32.87	34.60
PS40	PS44	509.65	508.42	85.57	1.65	1.65	50.00	0/1	64.18	22.02	40.64	42.78
PS41	PV65	522.43	524.23	62.88	1.65	1.65	50.00	0/1	47.16	16.18	29.87	31.44
PS42	PV67	521.07	522.18	63.43	1.65	1.65	50.00	0/1	47.57	16.32	30.13	31.71
PS43	PV69	517.92	518.47	57.96	1.65	1.65	50.00	0/1	43.47	14.91	27.53	28.98
PS44	PS45	508.42	506.91	66.64	1.65	1.65	50.00	0/1	49.98	17.15	31.66	33.32
PS45	PS46	506.91	505.25	54.14	1.65	1.65	50.00	0/1	40.60	13.93	25.72	27.07
PS45	PV88	506.91	508.21	53.28	1.65	1.65	50.00	0/1	39.96	13.71	25.31	26.64
PS46	PS48	505.25	502.10	66.14	1.65	1.65	50.00	0/1	49.60	17.02	31.42	33.07
PS48	PS49	502.10	500.58	85.49	1.65	2.00	50.00	0/1	71.46	22.00	47.95	42.74
PS48	PS84	502.10	503.38	67.15	1.65	1.65	50.00	0/1	50.36	17.28	31.90	33.57
PS49	PS50	500.58	495.23	84.61	2.00	2.50	50.00	0/1	88.63	21.77	65.36	42.31
PS50	PS51	495.23	491.86	57.57	2.50	5.28	50.00	0/1	104.96	14.80	89.14	28.75
PS51	PS52	491.86	491.02	25.34	5.28	4.56	50.00	0/1	60.37	6.52	53.40	12.67
PS51	PS99	491.86	490.35	100.18	5.28	3.30	50.00	0/1	205.39	25.77	177.85	50.08
PS52	PV5	491.02	488.80	59.42	4.56	2.62	50.00	0/1	100.78	15.28	84.44	29.70
PS52	PV11	491.02	492.94	63.51	4.56	2.00	50.00	0/1	96.41	16.33	78.96	31.73
PS54	PS55	487.22	486.06	75.11	1.65	1.65	50.00	0/1	56.50	19.33	35.84	37.56
PS54	PV5	487.22	488.80	71.79	1.65	2.64	50.00	0/1	71.02	18.47	51.28	35.89
PS55	PS56	486.06	485.11	72.57	1.65	1.65	50.00	0/1	54.59	18.68	34.63	36.29
PS56	PS57	485.11	484.31	66.65	1.65	2.39	50.00	0/1	62.05	17.15	43.72	33.32
PS57	PS58	484.31	483.85	59.31	2.39	1.65	50.00	0/1	55.07	15.26	38.76	29.65
PS57	PS59	484.31	482.49	87.30	2.39	1.65	50.00	0/1	81.28	22.47	57.27	43.65
PS58	PV11	483.85	484.06	55.29	1.65	1.65	50.00	0/1	41.47	14.23	26.26	27.64
PS59	PS60	482.49	481.83	96.40	1.65	1.65	50.00	0/1	72.51	24.81	46.00	48.20
PS61	PS62	489.93	488.46	101.81	1.65	1.65	50.00	0/1	76.35	26.20	48.36	50.90
PS61	PV62	489.93	492.56	82.22	1.65	1.65	50.00	0/1	61.67	21.16	39.06	41.11
PS62	PS63	488.46	488.78	82.91	1.65	2.36	50.00	0/1	76.41	21.33	53.61	41.45
PS63	PS69	488.78	492.94	61.20	1.65	1.65	50.00	0/1	45.90	15.75	29.07	30.60
PS63	PV5	488.78	488.80	56.25	2.36	2.64	50.00	0/1	66.11	14.47	50.64	28.12
PS64	PS65	508.70	505.90	90.24	1.65	1.65	50.00	0/1	67.68	23.22	42.86	45.12
PS64	PV50	508.70	509.59	42.92	1.65	1.65	50.00	0/1	32.19	11.05	20.39	21.46
PS65	PS66	505.90	502.33	88.98	1.65	1.65	50.00	0/1	66.73	22.90	42.26	44.49
PS66	PS67	502.33	499.42	96.24	1.65	1.65	50.00	0/1	72.18	24.76	45.71	48.12
PS67	PS68	499.42	496.01	82.72	1.65	1.65	50.00	0/1	62.04	21.29	39.29	41.36
PS68	PS69	496.01	492.94	52.34	1.65	1.65	50.00	0/1	39.26	13.47	24.86	26.17
PS70	PS71	501.55	497.75	91.72	1.65	1.65	50.00	0/1	68.79	23.60	43.57	45.86
PS70	PV59	501.55	505.90	64.75	1.65	1.65	50.00	0/1	48.57	16.66	30.76	32.38
PS72	PS73	506.47	502.45	67.78	2.41	1.65	50.00	0/1	63.40	17.44	44.76	33.89
PS72	PV25	506.47	506.40	69.37	2.41	1.65	50.00	0/1	64.81	17.85	45.74	34.68
PS73	PS74	502.45	498.11	81.80	1.65	1.65	50.00	0/1	61.50	21.05	39.00	40.90

Relatório geral da instalação – Bacia nº 02

PS75	PS76	516.48	515.68	66.55	1.65	1.65	50.00	0/1	49.91	17.12	31.61	33.27
PS75	PV79	516.48	516.70	66.55	1.65	1.65	50.00	0/1	49.91	17.12	31.61	33.27
PS76	PS77	515.68	510.92	63.80	1.65	1.65	50.00	0/1	47.85	16.42	30.30	31.90
PS76	PV71	515.68	519.85	77.53	1.65	1.65	50.00	0/1	58.15	19.95	36.83	38.77
PS77	PS78	510.92	507.43	63.86	1.65	1.65	50.00	0/1	47.89	16.43	30.33	31.93
PS78	PS79	507.43	506.19	69.12	1.65	1.65	50.00	0/1	51.84	17.79	32.83	34.56
PS79	PS80	506.19	506.48	65.09	1.65	2.25	50.00	0/1	58.24	16.75	40.34	32.54
PS80	PS82	506.48	511.25	92.37	2.25	1.65	50.00	0/1	82.75	23.77	57.35	46.19
PS80	PS83	506.48	504.10	77.89	2.25	1.65	50.00	0/1	69.78	20.04	48.36	38.95
PS81	PS82	516.70	511.25	96.22	1.65	1.65	50.00	0/1	72.17	24.76	45.70	48.11
PS81	PV81	516.70	516.81	59.06	1.65	1.65	50.00	0/1	44.29	15.20	28.05	29.53
PS83	PS84	504.10	503.38	82.78	1.65	1.65	50.00	0/1	62.09	21.30	39.32	41.39
PS84	PS87	503.38	507.95	81.96	1.65	1.65	50.00	0/1	61.47	21.09	38.93	40.98
PS85	PS86	515.84	512.60	87.56	1.65	1.65	50.00	0/1	65.67	22.53	41.59	43.78
PS85	PV84	515.84	516.81	65.19	1.65	1.65	50.00	0/1	48.89	16.77	30.96	32.59
PS86	PS87	512.60	507.95	81.79	1.65	1.65	50.00	0/1	61.34	21.05	38.85	40.90
PS88	PS89	501.79	498.31	59.50	1.65	1.65	50.00	0/1	44.62	15.31	28.26	29.75
PS88	PV89	501.79	506.48	56.02	1.65	1.65	50.00	0/1	42.01	14.41	26.61	28.01
PS89	PS90	498.31	497.50	26.22	1.65	1.65	50.00	0/1	19.67	6.75	12.45	13.11
PS90	PS91	497.50	500.77	61.52	1.65	1.65	50.00	0/1	46.14	15.83	29.22	30.76
PS90	PS92	497.50	493.78	53.07	1.65	1.65	50.00	0/1	39.81	13.66	25.21	26.54
PS91	PV95	500.77	504.10	56.17	1.65	1.65	50.00	0/1	42.13	14.45	26.68	28.09
PS92	PS93	493.78	489.97	58.48	1.65	1.65	50.00	0/1	43.86	15.05	27.78	29.24
PS93	PS94	489.97	489.57	41.22	1.86	1.65	50.00	0/1	33.02	10.61	21.68	20.61
PS93	PV97	489.97	490.13	69.93	1.82	1.65	50.00	0/1	55.37	17.99	36.14	34.96
PS94	PS95	489.57	489.92	46.04	1.65	2.22	50.00	0/1	40.87	11.85	28.21	23.02
PS95	PS96	489.92	497.40	84.16	2.22	2.00	50.00	0/1	82.44	21.66	59.29	42.08
PS95	PS97	489.92	490.13	72.30	2.22	2.77	50.00	0/1	84.57	18.60	64.69	36.15
PS96	PV4	497.40	503.38	79.16	2.00	1.65	50.00	0/1	66.18	20.37	44.41	39.58
PS97	PS98	490.13	497.90	81.71	2.77	2.00	50.00	0/1	90.85	21.02	68.38	40.85
PS97	PS99	490.13	490.35	66.14	2.77	3.30	50.00	0/1	95.28	17.02	77.09	33.07
PS98	PV10	497.90	502.10	52.92	2.00	1.65	50.00	0/1	44.24	13.62	29.68	26.46

Número de poços por profundidades

Profundidade m	Número de pocos de visita
1.65	104
1.73	1
2.00	6
2.58	1
2.41	1
2.50	1
5.28	1
2.36	1
2.64	1
2.25	1
1.86	1
2.22	1
2.77	1
3.30	1
4.56	1
2.39	1
2.75	1
Total	125

