

SHOTOVER WWTP effluent results

Daily discharge volume m ³	pH		BOD ₅			TSS			Turbidity		TP			DRP		NH ₄ -NO ₃			TN		NO ₃ -N		E. coli				Faecal coliforms		DO	
	@ 20°C		(g/m ³)			(g/m ³)			NTU		(g/m ³)			g/m ³		g/m ³			g/m ³		g/m ³		cfu/100 mL				g/m ³			
	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	Annual Mean	95th Percentile	95th Percentile	90th Percentile	Geomean	Annual Mean	95th Percentile	Annual Mean	95th Percentile	
	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³
Consent Limit 98102	6.5-9.0		50	100	50	130					5.5	10			20	30			20	30							5,000	50,000	2	
Consent Limit 2008.240	6.5-9.0		50	100	65	130					7.5	10			25	30			35	40							35,000	100,000	2	
Consent Limit RM13.215.02	6.5-9.0		50	100	65	130					7.5	10			35	40			45	55			350,000		50,000				2	
Consent Limit RM13.215.04	6.5-9.0		30	50	30	50					7.5	10			15	25			23	35				260	260					
Consent Limit RM13.215.03			30	50	30	50													23	35			260	260						
17/01/2018	7.17		3		2.8						4.4				4.0				12.0											
20/02/2018	7.33		5.6	9.5	11.0	12.3	22.0				6.7	4.3	6.5		12.0	6.2	13.9	23.0	14.4	23.0										
23/03/2018	7.26		5.9	9.4	5.1	11.1	22.0				4.0	4.3	6.5		13.0	7.2	13.9	20.0	15.5	23.0			60.0							
23/04/2018	7.06		8.3	9.8	14.0	12.0	22.0				4.3	4.6	6.5		0.1	7.2	13.9	6.8	15.6	23.0			40.0							
23/05/2018	7.3		6.6	9.7	24.0	13.2	22.9				4.0	4.7	6.5		12.0	7.6	13.9	21.0	15.4	23.0			8.2							
19/06/2018	6.96		8.3	9.3	16.0	12.9	22.9				4.6	4.7	6.5		9.1	7.1	13.0	20.0	15.2	23.0			2.0							
25/07/2018	7.37		13	8.7	20.0	12.8	22.9				3.1	4.4	6.5		8.9	7.0	13.0	16.0	14.9	23.0			2.0							
29/08/2018	7.42		11	8.7	3.6	11.3	22.9				3.4	4.4	6.5		12.0	6.9	12.5	15.0	14.7	23.0			0.5							
26/09/2018	7.33		12	9.2	9.8	11.5	22.9				2.8	4.2	6.5		6.7	7.4	12.5	21.0	15.8	23.0			1.0							
24/10/2018	7.26		19	9.6	9.6	12.2	22.9				2.5	4.1	6.5		8.8	8.1	12.5	13.0	16.4	23.0			6.0							
29/11/2018	7.43		12	10.3	7.8	12.1	22.9				3.5	4.1	6.5		9.3	8.8	12.5	22.0	17.7	23.0			10.0							
20/12/2018	7.27		23	10.6	15.0	11.6	21.8				4.7	4.0	5.6		9.6	8.8	12.5	22.0	17.7	22.5			5.0							
7/01/2019	7.4		6.9	11.0	9.0	12.1	21.8				11.0	4.6	8.6		14.0	9.6	13.5	21.0	18.4	22.5			46.0							
4/02/2019	7.4		2.6	10.7	2.8	11.4	21.8				1.9	4.2	7.5		0.2	8.6	13.5	4.9	16.9	22.0			1.6	45	6					
7/03/2019	7.51		4.3	10.6	5.0	11.4	21.8				6.0	4.3	8.3		8.4	8.3	12.9	19.0	16.8	22.0			6	37	5					
2/04/2019	7.22		3	10.1	3.3	10.5	21.8				4.9	4.4	8.3		4.6	8.6	12.9	11.0	17.2	22.0			1.0	10	3					
7/05/2019	7.3		5.3	10.0	7.4	9.1	17.8				4.2	4.4	8.3		11.0	8.6	12.9	16.0	16.7	22.0			0.8	10	3					
6/06/2019	7.35		4.2	9.7	5.4	8.2	17.3				3.7	4.3	8.3		9.3	8.6	12.9	17.0	16.5	22.0			1.0	10	3					
2/07/2019			2.9	8.9	3.2	6.8	12.1				1.2	4.2	8.3		0.1	7.8	12.9	3.9	15.5	22.0			0.5	10	2					
5/08/2019			6.1	8.4	13.0	7.6	13.9				1.5	4.0	8.3		12.0	7.8	12.9	16.0	15.6	22.0			3.0	10	3					
4/09/2019			9.8	8.3	8.7	7.5	13.9				2.1	3.9	8.3		8.6	8.0	12.9	13.0	14.9	22.0			0.5	10	3					
1/10/2019			3.6	7.0	3.5	7.0	13.9				1.1	3.8	8.3		0.1	7.3	12.9	5.7	14.3	22.0			1.0	10	2					
5/11/2019			9.1	6.7	8.0	7.0	13.9				4.3	3.9	8.3		16.0	7.8	14.9	19.0	14.0	21.5			1.0	6	2					
5/12/2019			2.6	5.0	14.0	6.9	13.5				3.2	3.8	8.3		12.0	8.0	14.9	16.0	13.5	19.9			5.0	6	2					
9/01/2020	11385		9.4	5.2	20.0	7.9	16.7				3.6	3.1	5.4		14.0	8.0	14.9	18.0	13.3	19.0			35	6	2					
3/02/2020	13309		6.8	5.6	9.8	8.4	16.7				3.8	3.3	5.4		13.0	9.1	14.9	18.0	14.4	19.0			0.5	6	2					
5/03/2020	9010		5.8	5.7	8.0	8.7	16.7				3.6	3.1	4.6		14.0	9.6	14.9	19.0	14.4	19.0			18	17	2					
2/04/2020	6767		7.5	6.1	25.0	10.5	22.3				1.9	2.9	4.2		0.9	9.3	14.9	4.7	13.9	19.0			2	17	2					
6/05/2020	7579		5.2	6.1	7.4	10.5	22.3				2.4	2.7	4.0		7.1	8.9	14.9	12.0	13.5	19.0			5	17	2					
3/06/2020	8476		5.3	6.2	4.6	10.4	22.3				1.8	2.5	4.0		7.4	8.8	14.9	12.0	13.1	19.0			5	17	2					
2/07/2020	10383		3.8	6.3	5.8	10.7	22.3				1.9	2.6	4.0		5.0	9.2	14.9	13.0	13.9	19.0			0.5	17	2					
3/08/2020	9024		24	7.7	17.0	11.0	22.3				2.1	2.7	4.0		5.5	8.6	14.9	11.0	13.5	19.0			10.0	17	3					
1/09/2020	12733		8.6	7.6	8.0	10.9	22.3				1.7	2.6	4.0		4.2	8.3	14.9	8.6	13.1	19.0			5.0	17	3					
7/10/2020	10992		3.6	7.6	3.4	10.9	22.3				2.1	2.7	4.0		6.6	8.8	14.9	11.0	13.5	19.0			5.0	17	4					
4/11/2020	7727		8.5	7.6	6.6	10.8	22.3				2.7	2.6	3.7		6.9	8.1	14.0	11.0	12.9	18.5			5.0	17	4					
3/12/2020	8754		6.0	7.9	9.2	10.4	22.3				3.9	2.6	3.8		7.4	7.7	14.0	14.0	12.7	18.5			18.0	18	5					
7/01/2021	10729		3.3	7.4	2.3	8.9	20.6				4.8	2.7	4.3		4.7	6.9	13.5	14.0	12.4	18.5			7.0	17	4					
3/02/2021	6510		2.0	7.0	5.9	8.6	20.6				1.3	2.5	4.3		0.2	5.8	10.4	5.2	11.3	16.3			5.0	17	5					
3/03/2021	6578		2.0	6.7	3.3	8.2	20.6				3.3	2.5	4.3		0.2	4.7	7.4	4.7	10.1	14.0			9.0	10	5					
7/04/2021	7124		2.3	6.2	0.6	6.4	12.7				0.6	2.4	4.3		0.7	4.7	7.4	4.2	10.1	14.0			5.0	10	5					
6/05/2021	6707		2.0	6.0	3.6	6.1	12.7				3.6	2.5	4.3		0.7	4.1	7.4	6.0	9.6	14.0			1.0	10	5					
3/06/2021	8966		5.9	6.0	2.6	6.2																								

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Daily discharge volume	pH	BOD ₅			TSS			Turbidity		TP			DRP		NH ₄ -NO ₃			TN		NO ₃ -N		E. coli				Faecal coliforms		DO		
		m ³	Annual Mean	(g/m ³)		(g/m ³)		NTU	Annual Mean	(g/m ³)		g/m ³	Annual Mean	g/m ³	Annual Mean	95 Percentile	g/m ³	95 Percentile	g/m ³	Annual Mean	g/m ³	Annual Mean	cfu/100 mL			cfu/100 mL	Annual Mean	95 Percentile	g/m ³	Annual Mean
				Mean	95 Percentile	Mean	95 Percentile			95th	90th												Geomean							
Consent Limit 98102	6.5-9.0			50	100					5.5	10				20	30			20	30							5,000	50,000	2	
Consent Limit 2008.240	6.5-9.0			50	100					7.5	10				25	30			35	40							35,000	100,000	2	
5/10/2023	11083			16.0	8.0	25.4	33.8	12.0	31.5	5.0	3.6	5.6			9.2	7.2	11.7	17.3	13.4	24.9			10.0		10	10				
14/11/2023	11636			6.4	8.4	25.4	3.2	12.1	31.5	2.7	3.7	5.6			1.2	7.3	11.7	5.0	13.5	24.9			<10		10	10				
7/12/2023	9426			63.9	13.1	49.1	66.0	17.0	48.3	8.1	4.1	6.8			44.8	10.3	26.9	58.6	17.2	40.7			1,300.0		10	16				
5/01/2024	11289			24.8	14.8	49.1	32.2	19.0	48.3	5.4	4.1	6.7			36.1	12.8	40.0	40.3	19.7	48.5			230.0		230	21				
7/02/2024	10697			15.2	15.9	49.1	26.3	20.9	48.3	2.6	3.9	6.7			10.1	13.1	40.0	18.1	20.2	48.5			30.0		230	23				
6/03/2024	10944			15.8	17.0	49.1	23.0	22.1	48.3	2.9	3.7	6.7			10.6	13.4	40.0	16.1	20.9	48.5			10.0		230	23				
4/04/2024	11399			12.9	17.9	49.1	6.9	22.5	48.3	2.3	3.8	6.7			10.4	14.3	40.0	17.0	22.0	48.5			1.0		230	19				
2/05/2024	11121			14.7	19.0	49.1	19.3	23.7	48.3	2.6	3.5	6.6			7.8	13.9	40.0	15.5	22.0	48.5			10.0		230	19				
6/06/2024	9974			15.3	20.0	49.1	10.0	23.3	48.3	1.9	3.4	6.6			11.4	14.3	40.0	19.6	22.5	48.5			10.0		230	19				
4/07/2024	10961			16.5	20.6	49.1	13.5	22.8	48.3	5.9	3.6	6.9			20.2	15.0	40.0	27.6	22.6	48.5			20.0		230	20				
1/08/2024	11749			51.6	24.2	57.1	43.5	24.0	53.6	4.2	3.8	6.9			34.4	17.1	40.0	53.5	25.1	55.8			150.0		230	25				
4/09/2024	13344			16.0	22.4	57.1	23.1	25.1	53.6	2.1	3.8	6.9			12.0	17.4	40.0	21.7	25.9	55.8			10.0		230	25				
3/10/2024	15738			41.9	24.6	57.1	56.0	26.9	60.5	2.5	3.6	6.9			8.9	17.3	40.0	20.2	26.1	55.8			40.0		230	29				
4/11/2024	11819			6.9	24.6	57.1	11.3	27.6	60.5	2.4	3.6	6.9			7.9	17.9	40.0	13.4	26.8	55.8			10.0		222	26				
2/12/2024	12136			11.2	20.2	46.3	14.4	23.3	49.1	2.6	3.1	5.7			7.1	14.7	35.2	15.6	23.2	46.2			10.0		139	18				
7/01/2024	9428			74.0	24.3	61.7	11.0	21.5	49.1	2.4	2.9	5.0			7.9	12.4	26.6	13.2	21.0	39.3			10.0		39	13				
3/02/2025	10140			6	23.6	61.7	2.5	19.5	49.1	0.8	2.7	5.0			0.2	11.6	26.6	5.6	19.9	39.3			20		38	13				