

Day: MTWTF S

Date: ___/___/___

Name

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ID

NO # 6864

Section

NO #1 B

Assignment

NO # 01

Submitted

to Dr. Nadeem Akhbar

Date

of

submission 2 July 2020

University of

National

University

Peshawar,

Date: ___/___/___

Day: M T W T F S

Date: ___/___/___

Q No (1), Make a comparative list of Pakistan NEDs for municipal wastewater disposal into the surface water source with only 5 countries relevant standards.

(1) Take only 10 parameters.

Parameter	Pakistan	China	Brazil	Argentina	Portugaly	Canada
PH values	6-9	5.5-9.0	6-10	6-9	5-9	-
BOD (mg/L)	80	30-50		200	250	300
Zinc (mg/l)	5	5	5	5	5	2
POD (mg/l)	400	250-300	500	-	600	550
Lead (mg/l)	0.5	1	1.5	0.5	0.5	1
Fats and Oil (mg/l)	10	150	150	100	100	150
Microbes (mp/l)	0.01	0.2	1.5	0.05	0.1	0.1
Calcium (mg/l)	0.1	0.5	1.5	0.1	0.2	0.1
Temp (°C)	<=30	35	40	45	40	40
Sulphide (mg/l)	2.0	5.0	1	1	1	1

(2) Data relevance:
 (1) Environmental, Health and safety Guidelines

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Sessional Assignment No 1: Wastewater Engineering

Make a comparative list of Pakistan NEQs for municipal wastewater disposal into the surface water source with any 5 countries relevant standards.

1) Take only 10 parameters

NEQS	Pakistan	Chile	Brazil	Argentina	Paraguay	Canada
PH values	6 - 9	5.5 – 9.0	6–10	6–9	5-9	--
BOD(mg/l)	80	30-50		200	250	300
Zinc (µg/l)	5	5	5	5	5	2
COD (mg/l)	400	250–300	500	-	600	550
Lead (mg/l)	0.5	1	1.5	0.5	0.5	1
Fats and oil (mg/l)	10	150	150	100	100	150
Mercury (mg/l)	0.01	.02	1.5	.005	.01	.01
Cadmium (mg/l)	0.1	0.5	1.5	0.1	0.2	0.7
Temperature (°C)	=<3°C	35	40	45	40	40
Sulphide (mg/l)	1.0	5	1	1	1	1

2) Data reference

1. Environmental, Health, and Safety Guidelines

2. REVISED NATIONAL ENVIRONMENTAL QUALITY STANDARDS (NEQS)

3. https://en.wikipedia.org/wiki/Wastewater_discharge_standards_in_Latin_America

