BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH, NEW DELHI

Original Application No. 366 of 2023

IN THE MATTER OF:

Rajesh Kumar Dokwal … Applicant(s)

Versus

Govt. of NCT of Delhi … Respondent(s)

INDEX NDOH-15/01/2024

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Through Richa Kapoor

Richa Kapoor
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Place: New Delhi
Dated: 11.01.2024

BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH, NEW DELHI
Original Application No. 366 of 2023

IN THE MATTER OF:

Rajesh Kumar Dokwal … Applicant(s)

Versus

Govt. of NCT of Delhi … Respondent(s)

STATUS REPORT ON BEHALF OF DELHI JAL BOARD IN COMPLIANCE OF ORDER DATED 30.10.2023

MOST RESPECTFULLY SHOWETH:

1. That Delhi Jal Board is filing the present status report in compliance of order dated 30.10.2023 passed in the captioned original Application, which has been preferred by the applicant seeking directions on non-functional STP at New Kondli, Mayur Vihar, Phase-3 which is emitting poisonous gas creating air pollution, causing serious health hazards to the local residents. That vide order of the said date, this Hon'ble Tribunal had issued directions as under:

> "4. A perusal of the report reveals that even in respect of STP in Kondli Phase I, the commissioning of 2 sludge digesters and 2 gas holder plants is yet to be done and On-Line Monitoring System (OLMS) at the outlet was found installed but not in operational condition. In respect of Kondli Phase II and III, 4 chlorination tanks were found to be under construction and 5 sludge digesters and 2 gas holders plants were found to be completed but not commissioned and sludge after sludge thickener unit was being directly transferred to sludge drying beds as centrifuge unit and gas generation units were under construction. In respect of Kondli Phase II and III, it is also found that OLMS was not installed for phase II. In respect of Kondli Phase IV, the finding is that the plant has total capacity of 45 MGD and only half of this capacity is being treated and rest is being by-passed as the plant is under rehabilitation and OLMS at the outlet was not found to be installed.
>
> 5. Paragraph 10 of the status report mentions that the samples were collected from STP at Kondli Phase I, II and IV but it further states that STP at Kondli Phase I and III were meeting the prescribed standards. It is surprising when no sample was taken from Phase III, how it was found to be meeting with standards. Enclosed Annexure R-2 is the reports of the samples taken from inlet and outlet but the said report does not contain the report relating to the coliform contents.
>
> 6. So far as the status report filed on behalf of the DJB is concerned, we find that the report does not mention about the DO and coliform.

7. In view of the above, we require the DPCC and DJB to file fresh analysis report after taking inlet and outlet sample of STPs at all the four Phases of Kondli and keeping in view the observations made above. Let the fresh reports on behalf of DPCC and DJB be filed within four weeks by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF."

2. It is submitted that presently there are four Sewage Treatment Plants are working at divisional office vicinity, Kondli, New Delhi. It is relevant to state here that in compliance to the directions of this Hon'ble Tribunal in OA No. 882/2018 and OA No. 429/2019, the following status is being submitted:

S. No.	Name of STP	Capacity	Design Parameters (BOD/TSS in mg/l)	Status	Meeting standards prescribed (Yes/No)	Present status
1.	Phase-I, Kondli	10 MGD	10/10	Operational	Yes	- The rehabilitation work of liquid stream is completed and plant is functional & achieving the latest effluent norms of DPCC/NGT. - The commissioning of the 2 sludge digesters and 2 gas holders have been completed and ready to function once the commencement of the common E&M equipment of common gas engine of Phase I, II & III gets completed in all respect. - Overall physical progress of rehabilitation is approx. 98%, whereas the rehabilitation of minor works related to instrumentation i.e. Supervisory Control and Data Acquisition (SCADA) &

						Electrification etc. is in progress. - The Online Monitoring System is already installed and working.
2.	Phase-II, Kondli	25 MGD	10/10	Operational	Yes	- The rehabilitation work of liquid stream is completed and plants are functional & achieving the latest effluent norms of DPCC/NGT. - The installation of Chlorination System is almost completed and testing commissioning yet to be made which is expected to be completed by March 2024. - Construction of 5 sludge digesters and 2 gas holders are almost completed and related electro-mechanical work is under progress. However, Sludge beds are being used to dispose the treated sludge until the rehabilitation and construction is completed. Photographs showcasing sludge beds being used to dispose the treated sludge is enclosed as **ANNEXURE R-1.** - Construction work of centrifuges are completed and commissioned. - Power generation unit is under construction. - The testing, commissioning and functioning of sludge units i.e. digesters/gas holders and
3.	Phase-III, Kondli	10 MGD	10/10	Operational	Yes	

						power generation is expected to be completed by end of March 2024. Further, the tertiary treatment units and final discharge channel of Phase-II & III STPs are common. Presently, the Online Monitoring System is installed at secondary discharge point of Phase-III STP which will be shifted at final common outlet of Phase II & III both and hence the OLMS shall start recording the parameter reading at one place jointly for the aforementioned STPs.
4.	Phase-IV, Kondli	45 MGD	20/30	Operational	Yes	- Rehabilitation of Phase-IV (45 MGD) STP Kondli is going on in such a way that half stream has to be under rehab and balance half will continue the treatment of sewage as per the present design parameters i.e. BOD/TSS<20/30 at a time. The complete Plant is likely to be functional by the end of March, 2024. - Presently the rehabilitation of half liquid stream up to secondary unit has already been completed and treating the sewage accordingly. - The Online monitoring system is already installed and working. - There are total 3 Nos. of Odour Control Units (OCU) installed at 45 MGD Phase-IV STP and all of

						them are functional. - The real time data of H2S gas at the inlet and outlet of all three OCUs can be viewed by any public/official at the DJBs official website https://delhijalboard.delhi.gov.in/services. - It is further to apprise that the Rehabilitation/Upgradation work of 45 MGD STP Ph-IV is going on to get the effluent standard i.e. BOD/TSS < 10/10 mg/l and on request of the executing agency and to carry out the rehabilitation the FRP (Fiber-reinforced polymer or plastic) covering of OCU units are being removed and shall be restored unit wise to carry out the rehabilitation later on.

The present equipment status of the STPs are enclosed as **ANNEXURE R-2.** Latest report of DPCC dated 05.01.2024 on Effluent standards of STPs Kondli, New Delhi in liquid stream is enclosed as **ANNEXURE R-3.**

3. That the daily testing and analysis report of DJB in respect of Kondli STPs, Phase I, II & III is conducted by Executing agency namely Triveni Engineering and Industries which includes the testing of fecal coli on weekly basis and the test reports for the month of

December 2023 are enclosed herein as **Annexure R-4.** Further, the divisional laboratory of DJB itself conducts the analysis on daily sampling of the inlet and outlet of the Kondli STPs, New Delhi, Phase I, II, III & IV, in respect of Dissolve Oxygen (DO) and the test reports for the month of December 2023 are enclosed as **ANNEXURE R-5.**

4. In view of above, this Hon'ble Tribunal is apprised that DJB has fully complied with directions passed in the OA No. 882/2018 as well as OA No. 429/2019 and has produced the present status of inlet and outlet samples of STPs at all the four phases of Kondli. The analysis reports for the month of December 2023 are enclosed as **ANNEXURE R-6.** It is also stated that Delhi Jal Board shall remain duty bound to abide any further direction(s) passed by this Hon'ble Tribunal.

5. The status report is being submitted in this Hon'ble Tribunal for the record and kind perusal. However, any further direction given by this Hon'ble Tribunal in this regard will be abided by the undersigned. Submitted please.

BHUPESH KUMAR
CHIEF ENGINEER (SDW)
DELHI JAL BOARD

Place: New Delhi
Dated: 11.01.2024


Jan 11, 2024 3:45:44 PM
Kondli
New Delhi
Delhi Division
Delhi

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Annexure R-2

11

E&M EQUIPMENT STATUS REPORT							
10 MGD STP PHASE-I KONDLI							
Division Name: EE(SDW)-IV							
Status as on 01.01.2024							
S. No.	**Name of Items/Equipmentwith details**	**Total Qty.**	**Working**	**Not Working**	**Since Equipment Not Working**	**Target Date to Make Equipment Working**	**Remark**
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)
1	Coarse Bar Screen	2 Nos.	2Nos.	NIL	NIL	NIL	
2	Fine Bar Screen	2 Nos.	2Nos.	NIL	NIL	NIL	
3	Vortex	2 Nos.	2Nos.	NIL	NIL	NIL	
4	Rake Classifier	2 Nos.	2Nos.	NIL	NIL	NIL	
5	Grit Transfer Pump	2 Nos.	2Nos.	NIL	NIL	NIL	
6	PST	2 Nos.	02 Nos	NIL	NIL	NIL	
7	Raw Sludge Sump mixer	2 Nos.	02 Nos	Nil	NIL	NIL	
8	Raw Sludge Pump	2 Nos.	2Nos.	NIL	NIL	NIL	
9	Sludge Thickener	1 Nos.	1Nos.	NIL	NIL	NIL	
10	Supernent Sump Pump	02 Nos	02 Nos	Nil	NIL	NIL	
11	PST Scum Sump Pump	02 Nos	02 Nos	Nil	NIL	NIL	
12	Thickened Sludge Sump mixer	02 Nos	02 Nos	Nil	NIL	NIL	
13	Thickened Sludge Pump	2 Nos.	2Nos.	NIL	NIL	NIL	
14	Bio Reactor Air Blower	3 Nos.	3 Nos.	NIL	NIL	NIL	
15	Anoxic Tank Mixer	8 Nos.	8 Nos.	Nil	NIL	NIL	
16	Anerobic Tank Mixer	6 Nos.	6Nos.	NIL	NIL	NIL	
17	Bio Reactor MLR Pump	3 Nos.	3 Nos.	NIL	NIL	NIL	
18	SST	2 Nos.	2Nos.	NIL	NIL	NIL	
19	Secondary Scump Sump	2 Nos.	2Nos.	NIL	NIL	NIL	
20	RAS Pump	04 Nos.	04Nos.	NIL	NIL	NIL	
21	RGF Airblower	03 Nos	03 Nos	Nil	NIL	NIL	
22	RGF Feed pump	03 Nos	03 Nos	NIL	NIL	NIL	
23	RGF Mechanisem	04 Nos	4Nos	NIL	NIL	NIL	
24	RGF B/w Pump	03 NOS	03 Nos	NIL	NIL	NIL	
25	Filtrate Pump	02 Nos	02 NOS	NIL	NIL	NIL	
26	Gas Chlorination Plant	02 set	02 Set	Nil	NIL	NIL	
27	Transformer	2 Nos.	2Nos.	NIL	NIL	NIL	
28	LT Panel	6 Nos.	6 Nos.	NIL	NIL	NIL	
29	HT Panel	2 Nos.	2Nos.	NIL	NIL	NIL	
30	Inlret Flowmeter	01 Nos	01 Nos	Nil	NIL	NIL	
31	Outlet Fl;owmeter	01 Nos	01 Nos	Nil	NIL	NIL	

E&M EQUIPMENT STATUS REPORT

25 MGD STP PHASE-II KONDLI

Division Name: EE(SDW)-IV

Status as on 01.01.2024

S. No.	Name of Items/Equipmentwith details	Total Qty.	Working	Not Working	Since Equipment Not Working	Target Date to Make Equipment Working	Remark
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)
1	Coarse Bar Screen	5 Nos.	5Nos.	NIL	NIL	NIL	05 screen (04 W+01 S) are common for Phase 2 & 3
2	Fine Bar Screen	5 Nos.	5Nos.	NIL	NIL	NIL	05 screen (04 W+01 S) are common for Phase 2 & 3
3	Vortex	3 Nos.	03Nos.	Nil	Nil	Nil	03 Vortex (2 W+1 S)are common for Phase 2 & 3.
4	Rake Classifier	3Nos.	3Nos.	NIL	NIL	NIL	03 (02 W+01 S) Classifier are common for Phase-2 & 3
5	PST	2 Nos.	2 Nos.	Nil	NIL	NIL	
6	Raw Sludge Sump Mixer	2 Nos.	2 Nos.	Nil	NIL	NIL	
7	Raw Sludge Pump	3 Nos.	3Nos.	NIL	NIL	NIL	
8	Sludge Thickener	2 Nos.	2 Nos	NIL	NIL	NIL	
9	Thickened Sludge Pump	2 Nos.	2Nos.	NIL	NIL	NIL	
10	Bio Reactor Air Blower	6 Nos.	6 Nos.	NIL	NIL	NIL	
11	Anoxic Tank Mixer	8 Nos.	8Nos.	NIL	NIL	NIL	
12	Anerobic Tank Mixer	6 Nos.	6Nos.	NIL	NIL	NIL	
13	Bio Reactor MLR Pump	5 Nos.	5 Nos.	NIL	NIL	NIL	
14	SST	3 Nos.	03 Nos.	Nil	NIL	Nil	
15	RAS Pump	4 Nos.	04 Nos	NIL	NIL	NIL	
16	MLR Pump	03 Nos	03 Nos	Nil	NIL	NIL	
20	RGF	10 Nos	05 Nos	05 nos	NIL	NIL	Common For Phase 2 & 3.
21	RGF Feed Pump	03 Nos	03 Nos	NIL	NIL	NIL	03 Pumps (2 W+1 S) are common for Phasde 2 & 3
22	RGF B/w Pump	03 Nos	02 Nos	01 Nos	NIL	15.01.2024	03 Pumps (2 W+1 S)are common for Phasde 2 & 3. 01 Pump is under commissioning.
23	RGF Air Blower	03 Nos	03 Nos	NIL	NIL	NIL	03 Air Blowers are common for Phasde 2 & 3
24	Transformer	4 Nos.	4Nos.	NIL	NIL	NIL	
25	LT Panel	3Nos.	3 Nos.	NIL	NIL	NIL	
26	HT Panel	4Nos.	4Nos.	NIL	NIL	NIL	
27	Inlet Flowmeter	01 Nos.	01 Nos.	NIL	NIL	NIL	
28	Outlet Flowmeter	01 Nos.	01 Nos.	NIL	NIL	NIL	Outlet Flowmeter is common for Phase 2 & 3

E&M EQUIPMENT STATUS REPORT

10 MGD STP PHASE-III KONDLI

Division Name: EE(SDW)-IV

Status as on 01.01.2024

S. No.	Name of Items/Equipmentwith details	Total Qty.	Working	Not Working	Since Equipment Not Working	Target Date to Make Equipment Working	Remark
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)
1	Coarse Bar Screen	5 Nos.	5Nos.	NIL	NIL	NIL	05 screen (04 W+01 S) are common for Phase 2 & 3
2	Fine Bar Screen	5 Nos.	5Nos.	NIL	NIL	NIL	05 screen (04 W+01 S) are common for Phase 2 & 3
3	Vortex	3 Nos.	02Nos.	NIL	NIL	NIL	03 Vortex (2 W+1 S)are common for Phase 2 & 3.
4	Rake Classifier	3Nos.	3Nos.	NIL	NIL	NIL	03 (02 W+01 S) Classifier are common for Phase-2 & 3
5	PST	2 Nos.	02 Nos.	NIL	NIL	NIL	
6	Raw Sludge Sump Mixer	2 Nos.	02 Nos.	NIL	NIL	NIL	
7	Raw Sludge Pump	2 Nos.	2Nos.	NIL	NIL	NIL	
8	Sludge Thickener	01 Nos.	01 Nos	NIL	NIL	NIL	
9	Thickened Sludge Pump	2 Nos.	2Nos.	NIL	NIL	NIL	
10	Bio Reactor Air Blower	3 Nos.	3 Nos.	NIL	NIL	NIL	
11	Anoxic Tank Mixer	8 Nos.	8Nos.	NIL	NIL	NIL	
12	Anerobic Tank Mixer	6 Nos.	6Nos.	NIL	NIL	NIL	
13	Bio Reactor MLR Pump	3 Nos.	3 Nos.	NIL	NIL	NIL	
14	SST	3 Nos.	3 Nos.	Nil	NIL	NIL	
15	RAS Pump	4 Nos.	04 Nos	NIL	NIL	NIL	
16	MLR Pump	03 Nos	03 Nos	Nil	Nil	Nil	
20	RGF	10 Nos	05 Nos	05 Nos	Nil	Nil	Common For Phase 2 & 3.
21	RGF Feed Pump	03 Nos	03 Nos	NIL	NIL	NIL	03 Pumps (02 W+01 S) are common for Phase 2 & 3.
22	RGF B/w Pump	03 Nos	02 Nos	01 Nos	NIL	15.01.2024	03 Pumps (2 W+1 S)are common for Phasde 2 & 3. 01 Pump is under commissioning.
23	RGF Air Blower	03 Nos	03 Nos	NIL	NIL	NIL	
24	Transformer	2 Nos.	2Nos.	NIL	NIL	NIL	
25	LT Panel	3 Nos.	3 Nos.	NIL	NIL	NIL	
26	HT Panel	2 Nos.	2Nos.	NIL	NIL	NIL	
27	Inlet Flowmeter	01 Nos.	01 Nos	Nil	Nil	Nil	
28	Outlet Flowmeter	01 Nos.	01 Nos	Nil	Nil	Nil	Common for Phase 2 & 3.

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E&M EQUIPMENT STATUS REPORT							
45 MGD STP PHASE-IV KONDLI							
Division Name: EE(SDW)-IV							
Status as on 31.12.2023							
S. No.	**Name of Items/Equipmentwith details**	**Total Qty.**	**Working**	**Not Working**	**Rehab**	**Nature of defect**	**Action Taken/ Required**
(i)	(ii)	(iii)	(iv)	(v)		(vi)	(vii)
1	Mechanical Coarse Bar Screens	3 Nos.	2 Nos	1 Nos.	3 Nos.	Major Maintanance to be done as per	Spares part for Coarse Screen 3 to be received
2	Mechanical Fine Bar Screens	3 Nos.	3 Nos	0 Nos.	3 Nos.		Rehab done
3	Aerated Grit Chamber	3 Nos.	1 Nos	2Nos.	1 Nos.	Grit Travelling bridges suction pumps screw classifiers and measuring	Taken into Rehabilitation work(chamber-B dewatered for repair work), Repair work in progress
4	Aerated Grit Chamber Blower House	5 Nos.	5Nos.	0 Nos.	5 Nos.		Rehab done
5	Primary Sedimentation Tank(PST)	4 Nos.	3 Nos.	1 nos	1 Nos.	All Mechanism is working	PST- C in Rehab
6	Primary Sludge & Pump House	4 Nos.	4 Nos.	0	0		Working
7	Aeration Tank	4 Nos.	2Nos.	0	02 Nos		Aeration Tank A &D in Rehab
8	Aeration Blowers	16 Nos.	16 Nos.	0	0Nos.		Rehab done
9	Return Activated Sludge Pumps (RAS)	4 Nos.	3Nos.	1Nos.	Pumps are damaged		As per DNIT new sump is proposed so we shall procure as per revised
10	Excess Sludge Thickner Pump House	02Nos.	0	2 Nos	02 Nos		1 Nos. Extra Pump with Hose connection is
11	Final Settling Tank (FST)	4 Nos.	3Nos.	1	01 Nos	All Mechanism is working	FST- A in rehab
12	Primary Sludge Thickener	2 Nos.	NIL	0	2 Nos.	No sludge withdrawl, due raking system is corroded,Over flow	In Rehab
13	Excess/Secondry Sludge Thickener or DAF	2 Nos.	0Nos.	0	2 Nos.	Over flow line is cleaned	Taken into Rehabilitation work,
14	Sludge Digester	4 Nos.	Nil	0	**4Nos.**	All digestors are filled with sludge ,MS Dome is rusted and having leakage,panels and instruments	Rehab done in B , C & D , testing in progress, A in Rehab
15	BFP	4 Nos.	4 Nos.	0	0		BFP Installed under testing

16	Gas Holder	2 Nos.	Nil	0	2Nos.	Due to digestors are not functional Gas holders are not in working	Gas Holder -A Rehab done, under testing , B in Rehab
17	Gas Flare Stack	2 Nos.	Nil	0	2Nos.	Due to digestors are not functional Gas holders flare stake are not in	aken into Rehabilitation work
18	H2S Scrubber Blower House	2 Nos.	Nil	0	02Nos.	Alll electro mechanical equipments are	aken into Rehabilitation work
19	Bio- Gas Engine	03 Nos	NIL	0	3Nos.	All gas engines are not in working	Taken into Rehabilitation work(Under Repairs)
24	Digester Feed Sump & Pump House	6 Nos.	04 nos	0	02 Nos.	Major repair of 1 pump and 1 pump required	Taken into Rehabilitation work(Under approvals)
25	Recirculation Pump House (Dirgestor Control	8 Nos.	06 nos	0	02 nos	Due to digestors are not functional, Pumps in not	Taken into Rehabilitation work(vendor under finalizations)
26	Centrifuge Feed Pump house/ Sludge Balancing Tank	5 Nos.	04 Nos.	1	05 Nos.	Major repairs	New Pumps Reached Sites
27	Bio-gas mixing Compressor House	8 Nos.	0 Nos.	8 Nos.	8 Nos.	Due to digestors are not functional, Compressors are not in operation	Taken into Rehabilitation work
28	Dilution Water Pump House	5 Nos.	03 Nos.	0	02Nos.	Motor issue	Taken into Rehabilitation work
29	Tertiary Treatment Unit	1 Unit	1 Unit	0	1 Nos.		Dismantled for new TTU

DELHI POLLUTION CONTROL COMMITTEE

(Government of N.C.T. of Delhi) 4th & 5th Floor, ISBT Building
Kashmere Gate, Delhi 110006
(Visit us at https://www.dpccocmms.nic.in)

Report Number: DPCC/W/STP/23-24/227/546 Dated 05/01/2024

ANALYSIS REPORT OF STP FOR THE MONTH OF DECEMBER-2023

1. Name of STP : Kondli
2. Sampling location : Inlet and Outlet of STP
3. Date of inspection : 13.12.2023
4. Samples collected by : DPCC Lab
5. Parameters analyzed and results :

Sr. No.	Installed Capacity (MGD)	STP Standard	Parameters							Remarks
			pH	TSS (mg/l)	BOD (mg/l)	COD (mg/l)	Oil & Grease (mg/l)	Ammonical Nitrogen (mg/l)	Dissolved Phosphate as P(mg/l)	
			6.5-9.0	10	10	50	10	5	2	
1	Ph-I (10)	Inlet	7.3	228	98	304	4.8	27.6	25.4	Meeting the standards.
		Outlet	7.5	10	6	40	1.6	2.1	1.5	
		OLMS	7.6	6.7	4.4	25.3	-	4.8	-	
2	Ph-II (25)	Outlet	7.1	8	5	32	1.2	1.5	1.3	Meeting the standards
		OLMS	-	-	-	-	-	-	-	OLMS was non-functional
3	Ph-III (10)	Outlet	7.5	8	4	16	1.6	1.4	1.4	Meeting the standards.
		OLMS	7.3	18.4	5.0	41.6	-	0.2	-	
Total 45										

I/C LABORATORY

Dr. Mamata Moitra

DELHI POLLUTION CONTROL COMMITTEE

(Government of N.C.T. of Delhi) 4th & 5th Floor, ISBT Building
Kashmere Gate, Delhi 110006
(Visit us at https://www.dpccocmms.nic.in)

LiFE Lifestyle for Environment

Report Number: DPCC/W/STP/23-24/228/547 Dated 05/01/2024

ANALYSIS REPORT OF STP FOR THE MONTH OF DECEMBER-2023

1. Name of STP : Kondli New
2. Sampling location : Inlet and Outlet of STP
3. Date of Inspection : 13.12.2023
4. Samples collected by : DPCC Lab
5. Parameters analyzed and results :

Sr. No.	Installed Capacity (MGD)	STP Standard	Parameters							Remarks
			pH	TSS (mg/l)	BOD (mg/l)	COD (mg/l)	Oil & Grease (mg/l)	Ammonical Nitrogen (mg/l)	Dissolved Phosphate as P(mg/l)	
			6.5-9.0	10	10	50	10	5	2	
1	Ph-IV (45)	Inlet	7.3	204	175	224	5.2	18.9	23.5	
		Outlet	7.5	30	16	88	2.4	1.1	1.3	Not Meeting the Standards wrt TSS, BOD & COD.
		OLMS	-	-	-	-	-	-	-	OLMS was non-functional
Total 45										

I/C LABORATORY

Dr. Nandita Moitra
Scientist 'D'

Annexure R-4

18

DAILY TESTING & ANALYSIS REPORT
DELHI JAL BOARD
10 MGD PHASE-III STP KONDLI DELHI

Date of Analysis	PLANT CAPACITY IN MGD	INLET SEWAGE IN MGD	TREATED SEWAGE IN MGD	TOTAL SLUDGE GENERATION (MT)	PH		TSS		BOD		COD		AMMONIA		PHOSPHATE		SULPHIDE		DO OUTLET	MLSS	FECAL COLI FORM (Limit <100 MPN/ 100 ML)	REMARK
					INLET	OUTLET (Limit 6.5-9)	INLET	OUTLET (Limit <10 Mg/l)	INLET	OUTLET (Limit <10 Mg/l)	INLET	OUTLET (Limit <50Mg/l)	INLET	OUTLET (Limit <5Mg/l)	INLET	OUTLET (Limit <2Mg/l)	INLET	OUTLET				
1-Dec-23	10	10.09	9.99	8.5	7.2	7.46	340	8	160	5.5	450	16	32	Nil	3.2	1.4	5.4	Nil	3.8	1700	46	
2-Dec-23	10	10.15	10.05	8.6	7.19	7.5	312	6	155	6	465	15	32	Nil	3.4	1	5.4	Nil	4.2	1680		
3-Dec-23	10	10.18	10.08	8.6	7	7.5	296	6	154	4	400	12	30	Nil	3.1	1.1	5.4	Nil	4.1	1690		
4-Dec-23	10	10.12	10.02	8.6	7.12	7.48	290	6	158	5	440	13	28	Nil	2.9	1.1	4.6	Nil	4.1	1720		
5-Dec-23	10	10.23	10.13	8.7	7.1	7.3	388	6	160	5.5	486	14	32	Nil	3.1	1.1	5.4	Nil	4.1	1840		
6-Dec-23	10	10.19	10.09	8.7	7.13	7.4	288	7	144	5	482	17	32	Nil	3.2	0.88	5.6	Nil	4.1	2560	50	
7-Dec-23	10	10.06	9.96	8.5	7	7.4	290	8	146	4	380	15	30	Nil	2.98	0.94	5.4	Nil	4.2	2000		
8-Dec-23	10	10.13	10.03	8.6	7.12	7.5	288	7	145	6	406	16	35	Nil	3.6	1.12	5.4	Nil	3.8	2050		
9-Dec-23	10	10.1	10	8.6	7.16	7.4	296	8	146	4.5	440	13	32	Nil	3	1.16	5.8	Nil	3.9	2000		
10-Dec-23	10	10.14	10.04	8.6	7.15	7.44	300	7	140	6	446	15	36	Nil	3.2	1.1	6	Nil	4	2600		
11-Dec-23	10	10.17	10.07	8.6	7.13	7.5	296	8	144	5	421	16	35	Nil	3.2	1.08	5.6	Nil	4.1	2120		
12-Dec-23	10	10.11	10.01	8.6	7.22	7.5	280	6	145	5.5	440	15	32	Nil	3.1	1.4	5.4	Nil	4	2140		
13-Dec-23	10	10.17	10.07	8.6	7.15	7.48	280	8	148	6	464	18	33	Nil	3.2	1.12	5.2	Nil	4	2210	48	
14-Dec-23	10	10.08	9.98	8.5	7.16	7.4	260	6	140	4.5	430	14	32	Nil	3.2	1.1	5.6	Nil	1.1	2300		
15-Dec-23	10	10.13	10.03	8.6	7.19	7.4	310	8	140	4.5	474	13	30	Nil	3.4	106	4.4	Nil	4.15	2100		
16-Dec-23	10	10.18	10.08	8.6	7.1	7.3	364	8	156	6	488	16	30	Nil	3.1	1.1	4.8	Nil	4.2	1340		
17-Dec-23	10	10.22	10.12	8.6	7.16	7.38	320	7	160	5	440	14	34	Nil	3.1	1.1	6.2	Nil	4	2180		
18-Dec-23	10	10.14	10.04	8.6	7.1	7.3	300	7	150	4.5	470	15	32	Nil	3.4	1.2	6.2	Nil	4.1	2600		
19-Dec-23	10	10.05	9.95	8.5	7.11	7.21	300	7	150	5	448	18	30	Nil	3.3	0.8	5	Nil	4	2250	52	
20-Dec-23	10	10.15	10.05	8.6	7.12	7.2	246	8	144	5.5	410	14	34	Nil	3.1	0.6	5.4	Nil	3.16	2450		
21-Dec-23	10	10.21	10.11	8.7	7.25	7.4	340	7	150	6	450	16	32	Nil	3.1	1.1	5.6	Nil	3	2380		
22-Dec-23	10	10.09	9.99	8.5	7.12	7.44	330	8	140	5	430	13	30	Nil	3.4	1.06	6	Nil	3.2	2420		
23-Dec-23	10	10.17	10.07	8.5	7.13	7.5	302	7	148	5.5	425	12	34	Nil	3.3	1	6.2	Nil	3.1	2320		
24-Dec-23	10	10.14	10.04	8.6	7.16	7.5	312	8	150	5	446	14	34	Nil	3.1	1.4	6.2	Nil	3.1	2200		
25-Dec-23	10	10.05	9.95	8.5	7.14	7.2	278	8	148	5.5	412	14	34	Nil	3.1	0.8	5.2	Nil	3.9	2230	56	
26-Dec-23	10	10.13	10.03	8.6	7.1	7.2	290	6	150	5	450	14	32	1	3.5	1	5.8	Nil	4	1960		
27-Dec-23	10	10.19	10.09	8.6	7.11	7.5	320	7	155	5	462	14	34	Nil	3.4	1.1	5.8	Nil	3.6	2400		
28-Dec-23	10	10.06	9.96	8.5	7	7.4	340	6	156	4	478	13	30	Nil	3.3	1.2	5.8	Nil	3.62	2500		
29-Dec-23	10	10.16	10.06	8.6	7	7.5	324	6	150	5	464	12	34	Nil	3.4	1.1	6	Nil	3.62	2300		
30-Dec-23	10	10.04	9.94	8.5	7.02	7.5	320	7	160	6.5	470	14	30	Nil	3.4	1.2	5.8	Nil	3.5	2280		
31-Dec-23	10	10.06	9.96	8.5	7.09	7.4	316	7			464	15	28	Nil	3.3	1.1	5.2	Nil	3.2	2320	48	
AVERAGE		**10.1**	**10.0**	**8.6**	**7.1**	**7.4**	**307.0**	**7.1**	**149.7**	**5.2**	**446.2**	**14.5**	**32.0**	**1.0**	**3.2**	**4.5**	**5.5**	**Nil**	**3.7**	**2156.1**		

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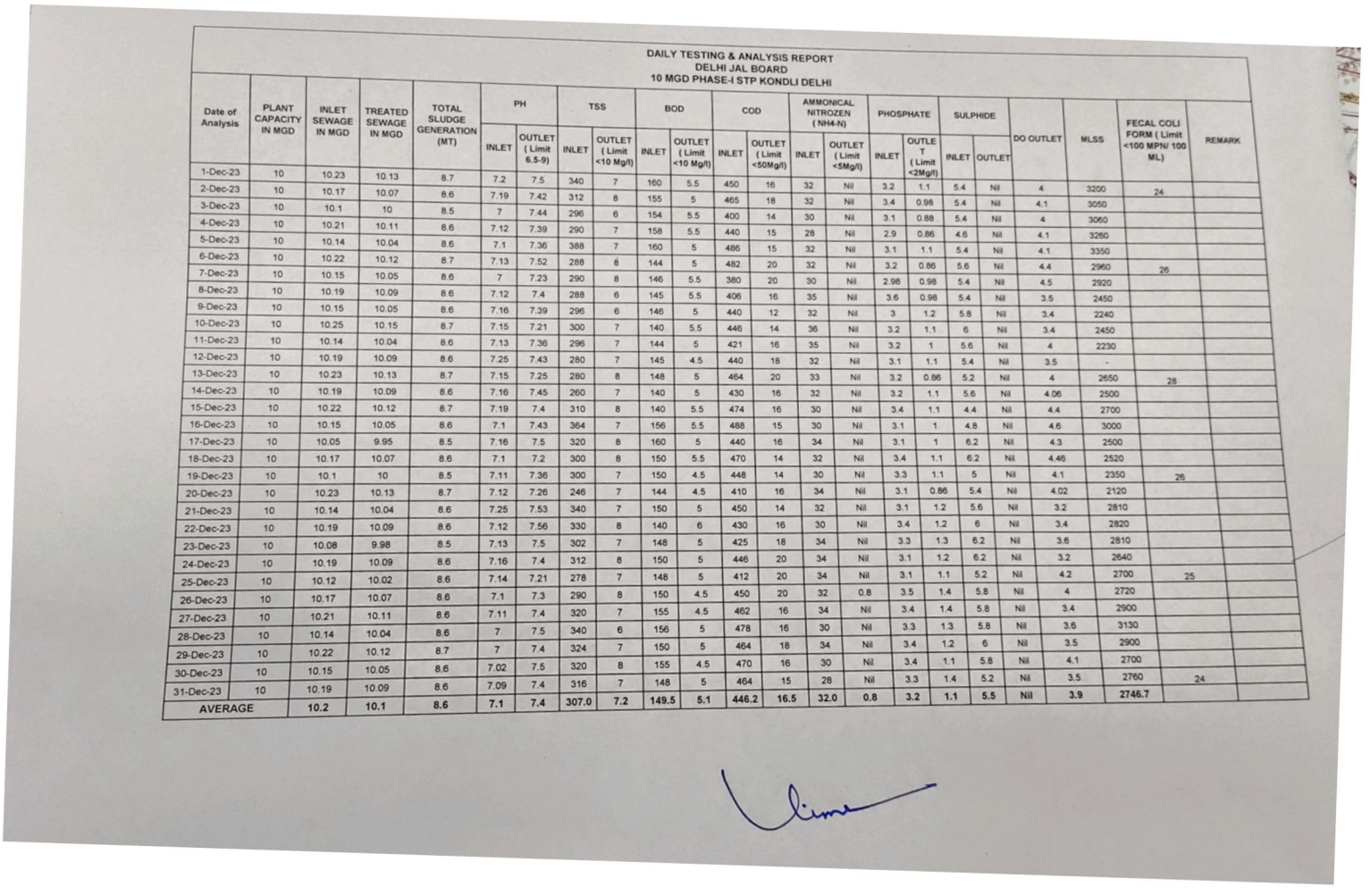
DAILY TESTING & ANALYSIS REPORT
DELHI JAL BOARD
25 MGD PHASE-II STP KONDLI DELHI

Date of Analysis	PLANT CAPACITY IN MGD	INLET SEWAGE IN MGD	TREATED SEWAGE IN MGD	TOTAL SLUDGE GENERATION (MT)	PH		TSS		BOD		COD		AMMONIA		PHOSPHATE		SULPHIDE		DO OUTLET	MLSS	FECAL COLI FORM (Limit <100 MPN/ 100 ML)	REMARK
					INLET	OUTLET (Limit 6.5-9)	INLET	OUTLET (Limit <10 Mg/l)	INLET	OUTLET (Limit <10 Mg/l)	INLET	OUTLET (Limit <50Mg/l)	INLET	OUTLET (Limit <5Mg/l)	INLET	OUTLET (Limit <2Mg/l)	INLET	OUTLET				
1-Dec-23	25	25.24	25.04	21.5	7.2	7.6	340	8	160	5	450	14	32	Nil	3.2	1.2	5.4	Nil	4	1700	44	
2-Dec-23	25	25.12	24.92	21.3	7.19	7.56	312	6	155	6	465	15	32	Nil	3.4	1.1	5.4	Nil	4.1	1680		
3-Dec-23	25	25.08	24.88	21.3	7	754	296	7	154	4	400	12	30	Nil	3.1	0.88	5.4	Nil	4.15	1720		
4-Dec-23	25	25.15	24.95	21.3	7.12	7.57	290	6	158	4	440	13	28	Nil	2.9	1.1	4.6	Nil	4.16	1680		
5-Dec-23	25	25.1	24.9	21.3	7.1	7.42	388	6	160	5	486	11	32	Nil	3.1	1.2	5.4	Nil	4	1900		
6-Dec-23	25	25.13	24.93	21.3	7.13	7.41	288	5	144	5.5	482	15	32	Nil	3.2	1.1	5.6	Nil	3.8	2700	48	
7-Dec-23	25	25.28	25.08	21.4	7	7.4	290	8	146	5	380	18	30	Nil	2.98	0.92	5.4	Nil	3.5	1850		
8-Dec-23	25	25.14	24.94	21.4	7.12	7.5	288	6	145	5.5	406	16	35	Nil	3.6	0.98	5.4	Nil	3.5	2450		
9-Dec-23	25	25.1	24.9	21.4	7.16	7.52	296	6	146	5	440	12	32	Nil	3	1.2	5.8	Nil	3.4	2240		
10-Dec-23	25	25.18	24.98	21.4	7.15	7.39	300	7	140	5.5	446	14	36	Nil	3.2	1.1	6	Nil	3.4	2450		
11-Dec-23	25	25.22	25.02	21.4	7.13	7.51	296	7	144	5	421	16	35	Nil	3.2	1	5.6	Nil	4	2230		
12-Dec-23	25	25.26	25.06	21.4	7.22	7.5	280	6	145	4.5	440	14	32	Nil	3.1	1.4	5.4	Nil	3.6	2240		
13-Dec-23	25	25.15	24.95	21.4	7.15	7.5	280	7	148	5	464	12	33	Nil	3.2	1.1	5.2	Nil	4	2450	50	
14-Dec-23	25	25.1	24.9	21.3	7.16	7.51	260	7	140	5	430	13	32	Nil	3.2	1.1	5.6	Nil	3.8	2400		
15-Dec-23	25	25.16	24.96	21.4	7.19	7.32	310	7	140	4.5	474	13	30	Nil	3.4	1	4.4	Nil	4.1	2200		
16-Dec-23	25	25.29	25.09	21.5	7.1	7.41	364	6	156	5	488	12	30	Nil	3.1	0.98	4.8	Nil	4.1	1280		
17-Dec-23	25	25.1	24.9	21.3	7.16	7.23	320	8	160	5.5	440	14	34	Nil	3.1	1.1	6.2	Nil	4	2060		
18-Dec-23	25	25.16	24.96	21.4	7.1	7.23	300	7	150	5	470	15	32	Nil	3.4	1.3	6.2	Nil	4.1	2680		
19-Dec-23	25	25.27	25.07	21.5	7.11	7.2	300	7	150	5.5	448	20	30	Nil	3.3	1.2	5	Nil	4.2	2400	48	
20-Dec-23	25	25.14	24.94	21.4	7.12	7.4	246	7	144	5.5	410	16	34	Nil	3.1	0.88	5.4	Nil	3.1	2300		
21-Dec-23	25	25.06	24.86	21.3	7.25	7.42	340	8	150	6	450	14	32	Nil	3.1	1.1	5.6	Nil	3.1	2700		
22-Dec-23	25	25.27	25.07	21.5	7.12	7.4	330	8	140	5	430	13	30	Nil	3.4	1.2	6	Nil	4.1	2300		
23-Dec-23	25	25.15	24.95	21.4	7.13	7.42	302	7	148	5.5	425	18	34	Nil	3.3	1.1	6.2	Nil	3.6	2520		
24-Dec-23	25	25.23	25.03	21.5	7.16	7.46	312	8	150	6	446	16	34	Nil	3.1	1.4	6.2	Nil	3.2	2450		
25-Dec-23	25	25.17	24.97	21.4	7.14	7.32	278	7	148	4.5	412	14	34	Nil	3.1	1.3	5.2	Nil	4.2	1950	45	
26-Dec-23	25	25.23	25.03	21.5	7.1	7.48	290	7	150	4	450	18	32	0.8	3.5	1.4	5.8	Nil	4	1570		
27-Dec-23	25	25.12	24.92	21.4	7.11	7.42	320	7	155	5	462	16	34	Nil	3.4	1.1	5.8	Nil	3.5	2590		
28-Dec-23	25	25.3	25.1	21.5	7	7.4	340	8	156	4	478	14	30	Nil	3.3	1.2	5.8	Nil	3.7	2500		
29-Dec-23	25	25.19	24.99	21.5	7	7.4	324	7	150	5.5	464	14	34	Nil	3.4	1.2	6	Nil	3.5	2590		
30-Dec-23	25	25.27	25.07	21.5	7.02	7.41	320	8	160	5	470	15	30	Nil	3.4	1.2	5.8	Nil	3.52	2450		
31-Dec-23	25	25.14	24.94	21.4	7.09	7.4	316	7			464	14	28	Nil	3.3	1.1	5.2	Nil	3.6	2430	49	
AVERAGE		**25.2**	**25.0**	**21.4**	**7.1**	**31.5**	**307.0**	**7.0**	**149.7**	**5.1**	**446.2**	**14.5**	**32.0**	**0.8**	**3.2**	**1.1**	**5.5**	**Nil**	**3.8**	**2214.8**		



DAILY TESTING & ANALYSIS REPORT
DELHI JAL BOARD
10 MGD PHASE-I STP KONDLI DELHI

Date of Analysis	PLANT CAPACITY IN MGD	INLET SEWAGE IN MGD	TREATED SEWAGE IN MGD	TOTAL SLUDGE GENERATION (MT)	PH		TSS		BOD		COD		AMMONICAL NITROZEN (NH4-N)		PHOSPHATE		SULPHIDE		DO OUTLET	MLSS	FECAL COLI FORM (Limit <100 MPN/ 100 ML)	REMARK
					INLET	OUTLET (Limit 6.5-9)	INLET	OUTLET (Limit <10 Mg/l)	INLET	OUTLET (Limit <10 Mg/l)	INLET	OUTLET (Limit <50Mg/l)	INLET	OUTLET (Limit <5Mg/l)	INLET	OUTLET (Limit <2Mg/l)	INLET	OUTLET				
1-Dec-23	10	10.23	10.13	8.7	7.2	7.5	340	7	160	5.5	450	16	32	Nil	3.2	1.1	5.4	Nil	4	3200	24	
2-Dec-23	10	10.17	10.07	8.6	7.19	7.42	312	8	155	5	465	18	32	Nil	3.4	0.98	5.4	Nil	4.1	3050		
3-Dec-23	10	10.1	10	8.5	7	7.44	296	6	154	5.5	400	14	30	Nil	3.1	0.88	5.4	Nil	4	3060		
4-Dec-23	10	10.21	10.11	8.6	7.12	7.39	290	7	158	5.5	440	15	28	Nil	2.9	0.86	4.6	Nil	4.1	3260		
5-Dec-23	10	10.14	10.04	8.6	7.1	7.36	388	7	160	5	486	15	32	Nil	3.1	1.1	5.4	Nil	4.1	3350		
6-Dec-23	10	10.22	10.12	8.7	7.13	7.52	288	8	144	5	482	20	32	Nil	3.2	0.86	5.6	Nil	4.4	2960	26	
7-Dec-23	10	10.15	10.05	8.6	7	7.23	290	8	146	5.5	380	20	30	Nil	2.98	0.98	5.4	Nil	4.5	2920		
8-Dec-23	10	10.19	10.09	8.6	7.12	7.4	288	6	145	5.5	406	16	35	Nil	3.6	0.98	5.4	Nil	3.5	2450		
9-Dec-23	10	10.15	10.05	8.6	7.16	7.39	296	6	146	5	440	12	32	Nil	3	1.2	5.8	Nil	3.4	2240		
10-Dec-23	10	10.25	10.15	8.7	7.15	7.21	300	7	140	5.5	446	14	36	Nil	3.2	1.1	6	Nil	3.4	2450		
11-Dec-23	10	10.14	10.04	8.6	7.13	7.36	296	7	144	5	421	16	35	Nil	3.2	1	5.6	Nil	4	2230		
12-Dec-23	10	10.19	10.09	8.6	7.25	7.43	280	7	145	4.5	440	18	32	Nil	3.1	1.1	5.4	Nil	3.5	-		
13-Dec-23	10	10.23	10.13	8.7	7.15	7.25	280	8	148	5	464	20	33	Nil	3.2	0.86	5.2	Nil	4	2650	28	
14-Dec-23	10	10.19	10.09	8.6	7.16	7.45	260	7	140	5	430	16	32	Nil	3.2	1.1	5.6	Nil	4.06	2500		
15-Dec-23	10	10.22	10.12	8.7	7.19	7.4	310	8	140	5.5	474	16	30	Nil	3.4	1.1	4.4	Nil	4.4	2700		
16-Dec-23	10	10.15	10.05	8.6	7.1	7.43	364	7	156	5.5	488	15	30	Nil	3.1	1	4.8	Nil	4.6	3000		
17-Dec-23	10	10.05	9.95	8.5	7.16	7.5	320	8	160	5	440	16	34	Nil	3.1	1	6.2	Nil	4.3	2500		
18-Dec-23	10	10.17	10.07	8.6	7.1	7.2	300	8	150	5.5	470	14	32	Nil	3.4	1.1	6.2	Nil	4.46	2520		
19-Dec-23	10	10.1	10	8.5	7.11	7.36	300	7	150	4.5	448	14	30	Nil	3.3	1.1	5	Nil	4.1	2350	26	
20-Dec-23	10	10.23	10.13	8.7	7.12	7.26	246	7	144	4.5	410	16	34	Nil	3.1	0.86	5.4	Nil	4.02	2120		
21-Dec-23	10	10.14	10.04	8.6	7.25	7.53	340	7	150	5	450	14	32	Nil	3.1	1.2	5.6	Nil	3.2	2810		
22-Dec-23	10	10.19	10.09	8.6	7.12	7.56	330	8	140	6	430	16	30	Nil	3.4	1.2	6	Nil	3.4	2820		
23-Dec-23	10	10.08	9.98	8.5	7.13	7.5	302	7	148	5	425	18	34	Nil	3.3	1.3	6.2	Nil	3.6	2810		
24-Dec-23	10	10.19	10.09	8.6	7.16	7.4	312	8	150	5	446	20	34	Nil	3.1	1.2	6.2	Nil	3.2	2640		
25-Dec-23	10	10.12	10.02	8.6	7.14	7.21	278	7	148	5	412	20	34	Nil	3.1	1.1	5.2	Nil	4.2	2700	25	
26-Dec-23	10	10.17	10.07	8.6	7.1	7.3	290	8	150	4.5	450	20	32	0.8	3.5	1.4	5.8	Nil	4	2720		
27-Dec-23	10	10.21	10.11	8.6	7.11	7.4	320	7	155	4.5	462	16	34	Nil	3.4	1.4	5.8	Nil	3.4	2900		
28-Dec-23	10	10.14	10.04	8.6	7	7.5	340	6	156	5	478	16	30	Nil	3.3	1.3	5.8	Nil	3.6	3130		
29-Dec-23	10	10.22	10.12	8.7	7	7.4	324	7	150	5	464	18	34	Nil	3.4	1.2	6	Nil	3.5	2900		
30-Dec-23	10	10.15	10.05	8.6	7.02	7.5	320	8	155	4.5	470	16	30	Nil	3.4	1.1	5.8	Nil	4.1	2700		
31-Dec-23	10	10.19	10.09	8.6	7.09	7.4	316	7	148	5	464	15	28	Nil	3.3	1.4	5.2	Nil	3.5	2760	24	
AVERAGE		**10.2**	**10.1**	**8.6**	**7.1**	**7.4**	**307.0**	**7.2**	**149.5**	**5.1**	**446.2**	**16.5**	**32.0**	**0.8**	**3.2**	**1.1**	**5.5**	**Nil**	**3.9**	**2746.7**		

Annexure R-5

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DELHI JAL BOARD

OFFICE OF THE ASSISTANT CHIEF WATER ANALYST(KONDLI)

MONTHLY AVERAGE ANALYSIS REPORT SEWAGE TREATED

AT KONDLI PH-I (10 MGD) DURING MONTH OF DECEMBER-2023

SNo	Parameter	Unit	Method of Test(Ref.)	Acceptable limit	Raw Sewage	P.S.T	A.T	F.S.T
1	pH	-	IS 3025(Part 11)	5.5-9.0	7.0	7.2	7.3	7.4
2	Total Alkalinity	mg/l	IS 3025(Part 23)	-	345	324	302	278
3	Chloride	mg/l	IS 3025(Part 32)	-	144	-	-	106
4	Oxygen Absorption	mg/l	IS 3025(Part 63)	-	—	—	-	—
5	Dissolve Oxygen	mg/l	IS 3025(Part 63)	-	-	-	4.2	4.1
6	Conductivity	us	IS 3025(Part 14)	-	1004	—	-	881
7	TDS	mg/l	IS 3025(Part 16)	-	652	641	578	572
8	TSS	mg/l	IS 3025(Part 17)	10	303	107	2769	8
9	TS	mg/l	IS 3025(Part 15)	-	955	748	3348	591
10	BOD	mg/l	IS 3025(Part 44)	10	151	—	-	6
11	COD	mg/l	IS 3025(Part 58)	50	442	—	-	17
12	Ammonia	mg/l	IS 3025(Part 32)	5	34	-	-	1
13	Phosphate	mg/l	IS 3025(Part 11)	2.0	3.32	-	-	1.21
14	Sulphide	mg/l	IS 3025(Part 29)	-	5.67	-	-	0.41
15	TKN	mg/l	IS 3025(Part)	-	—	-	-	—
16	Oil & Grease(mg/l)	mg/l	IS 3025(Part 39)	-	7.1	-	-	NIL

Unit(max/min)	max/min	ph	TSS	BOD	COD	NH3	PO4	O&G
INLET	Maximun	7.2	392	162	490	36	3.8	7.5
	Minimum	6.8	240	140	379	28	2.8	6.7
OUTLET	Maximum	7.5	9	15	24	0.8	1.6	0
	Minimum	0	0	5	12	0	0	0

6/1/2024

A.C.W.A.

06/1/24

Chemist

Asstt.Chemist/Lab Tech

DELHI JAL BOARD

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OFFICE OF THE ASSISTANT CHIEF WATER ANALYST(KONDLI)

CESS REPORT OF KONDLI PH-I (10 MGD)DURING MONTH OF DECEMBER-2023

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DURING MONTH OF DECEMBER-2023

S.No.	Unit	BOD (mg/l)	T.S.S.(mgl)
1	Raw Sewage	151	303
2	FST	6	8

06-1-24

Chemist **Asstt.Chemist/Lab Tech**

Remarks:On the basis of above tested parameters it is certified that the final treated effluent meet the DPCC standards i.e. 8 ppm for TSS and 6 ppm for BOD hence CESS can be claimed.

6/1/2024

A.C.W.A.

DELHI JAL BOARD

OFFICE OF THE ASSISTANT CHIEF WATER ANALYST(KONDLI)

MONTHLY AVERAGE ANALYSIS REPORT SEWAGE TREATED

AT KONDLI PH-II(25MGD) DURING MONTH OF DECEMBER-2023

SNo	Parameter	Unit	Method of Test(Ref.)	Acceptable limit	Raw Sewage	P.S.T	A.T	F.S.T
1	pH	-	IS 3025(Part 11)	5.5-9.0	9.2	7.1	7.3	7.4
2	Total Alkalinity	mg/l	IS 3025(Part 23)	-	344	321	300	271
3	Chloride	mg/l	IS 3025(Part 32)	-	144	-	-	106
4	Oxygen Absorption	mg/l	IS 3025(Part 63)	-	—	—	-	—
5	Dissolve Oxygen	mg/l	IS 3025(Part 63)	-	-	-	4.2	3.9
6	Conductivity	us	IS 3025(Part 14)	-	1004		-	890
7	TDS	mg/l	IS 3025(Part 16)	-	652	636	589	578
8	TSS	mg/l	IS 3025(Part 17)	10	301	105	2288	8
9	TS	mg/l	IS 3025(Part 15)	-	953	765	2864	585
10	BOD	mg/l	IS 3025(Part 44)	10	151	—	-	5
11	COD	mg/l	IS 3025(Part 58)	50	440	—	-	15
12	Ammonia	mg/l	IS 3025(Part 32)	5	34	-	-	1
13	Phosphate	mg/l	IS 3025(Part 11)	2.0	3.31	-	-	1.16
14	Sulphide	mg/l	IS 3025(Part 29)	-	5.67	-	-	NIL
15	TKN	mg/l	IS 3025(Part)	-	—	-	-	—
16	Oil & Grease(mg/l)	mg/l	IS 3025(Part 39)	-	7.1	-	-	NIL

Unit(max/min)	max/min	ph	TSS	BOD	COD	NH3	PO4	O&G
INLET	Maximun	76.9	392	162	490	36	3.8	7.5
	Minimum	6.8	240	140	379	28	2.8	6.7
OUTLET	Maximum	7.5	9	6	20	1.2	1.5	0
	Minimum	7.2	6	4	10	0	0	0

6/1/2024

A.C.W.A.

Chemist 6/1/24

Asstt.Chemist/Lab Tech

DELHI JAL BOARD

OFFICE OF THE ASSISTANT CHIEF WATER ANALYST(KONDLI)

CESS REPORT OF KONDLI PH-II(25MGD)-RehabilitationDURING MONTH OF DECEMBER-2023

DURING MONTH OF DECEMBER-2023

S.No.	Unit	BOD (mg/l)	T.S.S.(mgl)
1	Raw Sewage	151	301
2	FST	5	8

6/1/24

Chemist Asstt.Chemist/Lab Tech

Remarks:On the basis of above tested parameters it is certified that the final treated effluent meet the DPCC standards i.e. 8 ppm for TSS and 5 ppm for BOD hence CESS can be claimed.

6/1/2024

A.C.W.A.

DELHI JAL BOARD

OFFICE OF THE ASSISTANT CHIEF WATER ANALYST(KONDLI)

MONTHLY AVERAGE ANALYSIS REPORT SEWAGE TREATED

AT KONDLI PH-III (10 MGD) DURING MONTH OF DECEMBER-2023

SNo	Parameter	Unit	Method of Test(Ref.)	Acceptable limit	Raw Sewage	P.S.T	A.T	F.S.T
1	pH	-	IS 3025(Part 11)	5.5-9.0	7.0	7.2	7.3	7.4
2	Total Alkalinity	mg/l	IS 3025(Part 23)	-	344	317	295	343
3	Chloride	mg/l	IS 3025(Part 32)	-	144	-	-	101
4	Oxygen Absorption	mg/l	IS 3025(Part 63)	-	918.0	—	-	—
5	Dissolve Oxygen	mg/l	IS 3025(Part 63)	-	-	-	4.1	3.9
6	Conductivity	us	IS 3025(Part 14)	-	1004	—	-	892
7	TDS	mg/l	IS 3025(Part 16)	-	652	606	591	578
8	TSS	mg/l	IS 3025(Part 17)	10	301	115	2194	8
9	TS	mg/l	IS 3025(Part 15)	-	953	738	2761	586
10	BOD	mg/l	IS 3025(Part 44)	10	151	—	-	5
11	COD	mg/l	IS 3025(Part 58)	50	439	—	-	14
12	Ammonia	mg/l	IS 3025(Part 32)	5	34	-	-	1
13	Phosphate	mg/l	IS 3025(Part 11)	2.0	3.30	-	-	1.07
14	Sulphide	mg/l	IS 3025(Part 29)	-	5.65	-	-	H/L
15	TKN	mg/l	IS 3025(Part)	-	—	-	-	—
16	Oil & Grease(mg/l)	mg/l	IS 3025(Part 39)	-	7.1	-	-	H/L

Unit(max/min)	max/min	ph	TSS	BOD	COD	NH3	PO4	O&G
INLET	Maximun	7.2	392	162	490	36	3.8	7.5
	Minimum	6.8	240	140	379	28	2.8	6.7
OUTLET	Maximum	7.5	9	6	20	1.2	1.5	0
	Minimum	7.2	6	4	10	0	0	0

6/1/2024

A.C.W.A.

Chemist 6/1/24 Asstt.Chemist/Lab Tech

DELHI JAL BOARD

OFFICE OF THE ASSISTANT CHIEF WATER ANALYST(KONDLI)

CESS REPORT OF KONDLI PH-III (10 MGD)DURING MONTH OF DECEMBER-2023

DURING MONTH OF DECEMBER-2023

S.No.	Unit	BOD (mg/l)	T.S.S.(mgl)
1	Raw Sewage	151	301
2	FST	5	8

6/1/24

Chemist Asstt.Chemist/Lab Tech

Remarks:On the basis of above tested parameters it is certified that the final treated effluent meet the DPCC standards i.e. 8 ppm for TSS and 5 ppm for BOD hence CESS can be claimed.

6/1/2024

A.C.W.A.

DELHI JAL BOARD

OFFICE OF THE ASSISTANT CHIEF WATER ANALYST(KONDLI)

MONTHLY AVERAGE ANALYSIS REPORT SEWAGE TREATED

AT KONDLI PH-IV(45MGD) DURING MONTH OF DECEMBER-2023

SNo	Parameter	Unit	Method of Test(Ref.)	Acceptable limit	Raw Sewage	P.S.T	A.T	F.S.T
1	pH	-	IS 3025(Part 11)	5.5-9.0	7.0	7.1	7.3	7.4
2	Total Alkalinity	mg/l	IS 3025(Part 23)	-	360	327	308	292
3	Chloride	mg/l	IS 3025(Part 32)	-	155	-	-	111
4	Oxygen Absorption	mg/l	IS 3025(Part 63)	-	—		-	—
5	Dissolve Oxygen	mg/l	IS 3025(Part 63)	-	-	-	6.7	2.3
6	Conductivity	us	IS 3025(Part 14)	-	1029	—	-	890
7	TDS	mg/l	IS 3025(Part 16)	-	668	635	592	573
8	TSS	mg/l	IS 3025(Part 17)	30	311	127	1762	13
9	TS	mg/l	IS 3025(Part 15)	-	979	762	2385	587
10	BOD	mg/l	IS 3025(Part 44)	20	155	—	-	10
11	COD	mg/l	IS 3025(Part 58)	50	450		-	25
12	Ammonia	mg/l	IS 3025(Part 32)	5	34	-	-	1
13	Phosphate	mg/l	IS 3025(Part 11)	2.0	3.36	-	-	1.18
14	Sulphide	mg/l	IS 3025(Part 29)	-	6.01	-	-	0.82
15	TKN	mg/l	IS 3025(Part)	-	—	-	-	—
16	Oil & Grease(mg/l)	mg/l	IS 3025(Part 39)	-	7.2	-	-	0.7

Unit(max/min)	max/min	ph	TSS	BOD	COD	NH3	PO4	O&G
INLET	Maximun	7.1	440	167	572	40	3.8	7.4
	Minimum	6.9	252	145	46	30	2.8	7
OUTLET	Maximum	7.5	19	13	43	6	1.8	1
	Minimum	7.2	9	6	16	0.5	0.8	0.6

6/1/2024

A.C.W.A.

6/1/24

Chemist

Asstt.Chemist/Lab Tech

DELHI JAL BOARD

OFFICE OF THE ASSISTANT CHIEF WATER ANALYST(KONDLI)

CESS REPORT OF KONDLI PH-IV(45MGD)DURING MONTH OF DECEMBER-2023

DURING MONTH OF DECEMBER-2023

S.No.	Unit	BOD (mg/l)	T.S.S.(mgl)
1	Raw Sewage	155	311
2	FST	10	13

6/1/24

Chemist **Asstt.Chemist/Lab Tech**

Remarks:On the basis of above tested parameters it is certified that the final treated effluent meet the DPCC standards i.e. 13 ppm for TSS and 10 ppm for BOD hence CESS can be claimed.

6/1/2024

A.C.W.A.

OFFICE OF THE ASSISTANT CHIEF WATER ANALYST
STP KONDLI, DELHI JAL BOARD
DELHI-96

10 MGD Phase-I

Date of Analysis	Inlet-pH	Outlet-pH	Inlet-TSS	Outlet-TSS	Inlet-BOD	Outlet-BOD	Inlet-COD	Outlet-COD	Inlet-Ammonical nitrogen	Outlet-Ammonical nitrogen	Inlet-Phosphate	Outlet-Phosphate	Inlet-Sulphide	Outlet-Sulphide
12-01-2023	7.1	7.5	340	8	160	5	442	14	34	0	3.2	1.2	5.7	0
12-03-2023	7.0	7.4	296	7	155	5	398	12	32	0	3.0	1.2	5.7	0
12-04-2023	7.0	7.4	282	8	160	6	438	15	32	0	2.8	1.0	4.8	0
12-02-2023	7.0	7.4	282	8	157	7	460	17	35	0	3.0	1.0	5.8	0
12-05-2023	7.1	7.3	392	7	160	5	480	15	35	0	3.0	1.2	5.5	0
12-06-2023	7.0	7.5	288	9	143	6	482	23	35	0	3.4	0.9	5.6	0.5
12-07-2023	7.0	7.5	284	9	145	8	379	22	36	0	3.0	1.0	5.4	0
12-08-2023 to 12-11-2023 plant closed due to maintanance work														
12-12-2023	7.2	7.4	274	8	145	6	438	19	35	0	3.2	1.2	5.8	0
12/13/2023	7.0	7.4	280	9	148	7	460	22	35	0	3.2	1.0	5.5	0
12/14/2023	7.1	7.5	272	8	140	6	428	15	36	0	3.5	1.2	6.0	0
12/15/2023	7.0	7.4	316	9	147	7	472	16	32	0	3.5	1.2	4.5	0
12/16/2023	7.1	7.2	364	7	155	5	490	15	32	0	3.0	1.0	6.9	0
12/17/2023	7.0	7.5	318	9	160	6	442	16	35	0	3.2	1.0	6.4	0
12/18/2023	7.1	7.2	304	8	150	6	472	12	34	0	3.7	1.2	6.0	0
12/19/2023	6.9	7.3	296	7	148	5	448	14	32	0	3.4	1.2	5.2	0
12/20/2023	6.8	7.2	240	8	140	5	402	15	36	0	3.2	0.8	5.6	0
12/21/2023	6.9	7.5	348	7	150	5	452	12	35	0	3.2	1.5	5.8	0
12/22/2023	7.0	7.4	326	8	145	7	432	15	32	0	3.5	1.4	6.2	0
12/23/2023	7.0	7.5	302	8	152	6	425	18	35	0	3.4	1.2	5.8	0
12/24/2023	7.1	7.4	310	9	155	7	445	22	35	0	3.2	1.4	6.4	0
12/25/2023	7.0	7.2	280	8	148	5	410	15	36	0	3.2	1.2	5.4	0
12/26/2023	6.9	7.3	294	9	152	6	446	24	34	0.8	3.8	1.6	6.0	0
12/27/2023	7.0	7.4	326	8	155	5	460	18	35	0	3.8	1.5	5.8	0
12/28/2023	7.1	7.5	340	9	162	7	476	18	32	0	3.5	1.5	6.0	0
12/29/2023	7.0	7.4	324	8	155	6	460	19	35	0	3.8	1.4	6.2	0
12/30/2023	7.0	7.5	316	8	150	5	412	12	30	0	3.6	1.2	5.4	0
12/31/2023	6.9	7.4	318	7	151	5	430	12	28	0	3.5	1.5	5.6	0

6/1/2024
ACWA(CK)

06/1/24
Chemist

06/01/24
4 Tech

6/1/24
Lab. Asstt.

Page-2

25 MGD Phase-II

Date of Analysis	Inlet-pH	Outlet-pH	Inlet-TSS	Outlet-TSS	Inlet-BOD	Outlet-BOD	Inlet-COD	Outlet-COD	Inlet-Ammonical nitrogen	Outlet-Ammonical nitrogen	Inlet-Phosphate	Outlet-Phosphate	Inlet-Sulphide	Outlet-Sulphide
12-01-2023	7.1	7.5	340	9	160	6	442	15	34	0	3.2	1.5	5.7	0
12-02-2023	7.0	7.5	282	7	157	6	460	16	35	0	3.0	1.0	5.8	0
12-03-2023	7.0	7.5	296	6	155	4	398	10	32	0	3.0	0.9	5.7	0
12-04-2023	7.0	7.5	282	6	160	4	438	12	32	0	2.8	1.0	4.8	0
12-05-2023	7.1	7.4	392	6	160	5	480	12	35	0	3.0	1.0	5.5	0
12-06-2023	7.0	7.4	288	7	143	5	482	16	35	0	3.4	1.0	5.6	0
12-07-2023	7.0	7.4	284	8	145	5	379	19	36	0	3.0	0.8	5.4	0
12-08-2023	7.1	7.5	280	8	152	6	406	17	35	0	3.6	1.0	5.4	0
12-09-2023	7.0	7.5	260	8	148	5	440	12	32	0	3.0	1.2	5.8	0
12-10-2023	6.9	7.4	280	8	145	6	446	15	36	0	3.2	1.0	6.0	0
12-11-2023	7.1	7.5	268	7	150	5	421	16	35	0	3.2	1.1	5.6	0
12-12-2023	7.2	7.5	274	6	145	5	438	14	35	0	3.2	1.5	5.8	0
12/13/2023	7.0	7.5	280	8	148	5	460	11	35	0	3.2	1.2	5.5	0
12/14/2023	7.1	7.5	272	7	140	6	428	12	36	0	3.5	1.0	6.0	0
12/15/2023	7.0	7.5	316	8	147	6	472	12	32	0	3.5	1.0	4.5	0
12/16/2023	7.1	7.3	364	6	155	5	490	10	32	0	3.0	0.8	4.8	0
12/17/2023	7.0	7.4	318	8	160	5	442	15	35	0	3.2	1.2	6.4	0
12/18/2023	7.1	7.2	304	9	150	6	472	16	34	0	3.7	1.4	6.0	0
12/19/2023	6.9	7.2	296	7	148	6	448	13	32	0	3.4	1.4	5.2	0
12/20/2023	6.8	7.2	240	7	140	6	402	15	36	0	3.2	0.9	5.6	0
12/21/2023	6.9	7.5	348	9	150	6	452	15	35	0	3.2	1.2	5.8	0
12/22/2023	7.0	7.4	326	9	145	5	432	12	32	0	3.5	1.2	6.2	0
12/23/2023	7.0	7.4	302	8	152	5	425	20	35	0	3.4	1.0	5.8	0
12/24/2023	7.1	7.5	310	8	155	6	445	17	35	0	3.2	1.5	6.4	0
12/25/2023	7.0	7.4	280	7	148	5	410	13	36	0	3.2	1.4	5.4	0
12/26/2023	6.9	7.3	294	8	152	5	446	20	34	0.8	3.8	1.5	6.0	0
12/27/2023	7.0	7.5	326	7	155	5	460	15	35	0	3.8	1.2	5.8	0
12/28/2023	7.1	7.4	340	8	162	5	476	15	32	0	3.5	1.4	6.0	0
12/29/2023	7.0	7.5	324	7	155	5	460	15	35	0	3.8	1.4	6.2	0
12/30/2023	7.0	7.4	316	9	150	6	412	14	30	0	3.6	1.4	5.4	0
12/31/2023	6.9	7.4	318	8	151	6	430	14	28	0	3.5	1.2	5.6	0

6/1/2024
ACW(ACR)

06/1/24
Chemist

06/01/24
Lab Tech

06/1/24
Lab. Asstt.

10 MGD Phse-III

Date of Analysis	Inlet-pH	Outlet-pH	Inlet-TSS	Outlet-TSS	Inlet-BOD	Outlet-BOD	Inlet-COD	Outlet-COD	Inlet-Ammonical nitrogen	Outlet-Ammonical nitrogen	Inlet-Phosphate	Outlet-Phosphate	Inlet-Sulphide	Outlet-Sulphide
12-01-2023	7.1	7.5	340	9	160	6	442	15	34	0	3.2	1.5	5.7	0
12-02-2023	7.0	7.5	282	7	157	6	460	15	35	0	3.0	0.9	5.8	0
12-03-2023	7.0	7.5	296	6	155	4	398	10	32	0	3.0	1.0	5.7	0
12-04-2023	7.0	7.5	282	6	160	5	438	13	32	0	2.8	1.2	4.8	0
12-05-2023	7.1	7.3	392	6	160	4	480	12	35	0	3.0	1.0	5.5	0
12-06-2023	7.0	7.4	288	7	143	5	482	17	35	0	3.4	1.0	5.6	0
12-07-2023	7.0	7.4	284	8	145	5	379	18	36	0	3.0	0.8	5.4	0
12-08-2023	7.1	7.5	280	8	152	6	406	15	35	0	3.6	1.0	5.4	0
12-09-2023	7.2	7.5	260	9	148	5	440	10	32	0	3.0	1.2	5.8	0
12-10-2023	6.9	7.4	280	8	145	6	446	14	36	0	3.2	1.0	6.0	0
12-11-2023	7.1	7.5	268	8	150	5	421	15	35	0	3.2	1.1	5.6	0
12-12-2023	7.2	7.5	274	6	145	5	438	15	35	0	3.2	1.5	5.8	0
12/13/2023	7.0	7.5	280	8	148	6	460	14	35	0	3.2	1.2	5.5	0
12/14/2023	7.1	7.4	272	7	140	5	428	12	36	0	3.5	1.0	6.0	0
12/15/2023	7.0	7.4	316	9	147	6	472	13	32	0	3.5	1.0	4.5	0
12/16/2023	7.1	7.3	364	9	155	6	490	18	32	0	3.0	0.8	6.9	0
12/17/2023	7.0	7.4	318	8	160	5	442	14	35	0	3.2	1.2	6.4	0
12/18/2023	7.1	7.3	304	9	150	6	472	16	34	0	3.7	1.4	6.0	0
12/19/2023	6.9	7.2	296	8	148	5	448	20	32	0	3.4	0.7	5.2	0
12/20/2023	6.8	7.2	240	9	140	6	402	14	36	0	3.2	0.5	5.6	0
12/21/2023	6.9	7.4	348	8	150	6	452	15	35	0	3.2	1.2	5.8	0
12/22/2023	7.0	7.5	326	9	145	5	432	12	32	0	3.5	1.2	6.2	0
12/23/2023	7.0	7.5	302	7	152	6	425	15	35	0	3.4	1.0	5.8	0
12/24/2023	7.1	7.5	310	8	155	5	445	15	35	0	3.2	1.5	6.4	0
12/25/2023	7.0	7.2	280	8	148	6	410	13	36	0	3.2	0.7	5.4	0
12/26/2023	6.9	7.2	294	8	152	5	446	14	34	1.0	3.8	1.1	6.0	0
12/27/2023	7.0	7.5	326	7	155	5	460	12	35	0	3.8	1.2	5.8	0
12/28/2023	7.1	7.4	340	8	162	6	476	15	32	0	3.5	1.4	6.0	0
12/29/2023	7.0	7.5	324	7	155	5	460	13	35	0	3.8	1.2	6.2	0
12/30/2023	7.0	7.5	316	8	150	6	412	14	30	0	3.6	1.4	5.4	0
12/31/2023	6.9	7.4	318	8	151	6	430	15	28	0	3.5	1.2	5.6	0

6/1/2024
ACWA

PIC 06/1/24
Chemist

06/01/24
Lab Tech.

6/1/24
Lab. Asstt.

45MGD Phase-IV

Date of Analysis	Inlet-pH	Outlet-pH	Inlet-TSS	Outlet-TSS	Inlet-BOD	Outlet-BOD	Inlet-COD	Outlet-COD	Inlet-Ammonical nitrogen	Outlet-Ammonical nitrogen	Inlet-Phosphate	Outlet-Phosphate	Inlet-Sulphide	Outlet-Sulphide
12-01-2023	7.0	7.5	320	11	155	6	430	19	35	6.0	3.6	1.2	6.1	1.2
12-03-2023	7.0	7.4	308	11	160	7	445	19	32	3.0	3.4	1.2	6.0	0.8
12-04-2023	6.9	7.4	298	13	165	10	465	24	30	3.0	3.2	1.0	5.4	0.8
12-02-2023	6.9	7.6	302	13	163	12	482	22	35	4.5	3.2	1.0	6.1	1.2
12-05-2023	7.1	7.4	320	14	158	10	460	26	40	2.0	3.5	0.8	6.0	0.4
12-06-2023	6.9	7.4	320	11	150	7	520	26	32	1.5	3.4	1.0	6.0	0.8
12-07-2023	6.9	7.4	308	19	153	13	445	43	35	1.5	3.4	1.2	5.8	1.0
12-08-2023	6.9	7.4	304	14	163	9	490	30	36	1.2	3.2	0.9	5.8	0.8
12-09-2023	7.1	7.5	292	13	157	10	460	28	35	1.0	3.2	0.8	6.2	0.5
12-10-2023	7.0	7.5	300	15	153	10	488	30	38	1.2	3.5	1.0	6.4	0.6
12-11-2023	7.0	7.5	286	17	157	13	445	31	36	0.9	3.8	1.2	6.0	0.8
12-12-2023	7.1	7.4	284	14	150	11	460	25	38	0.8	3.6	1.8	6.2	1.4
12/13/2023	6.9	7.4	296	15	152	10	478	18	32	1.0	3.0	1.2	6.0	1.0
12/14/2023	7.0	7.5	304	14	148	11	466	22	35	1.1	3.2	1.5	6.4	0.8
12/15/2023	6.9	7.4	320	12	150	9	480	24	36	0.8	3.2	0.9	5.3	0.4
12/16/2023	7.1	7.3	322	12	148	8	464	20	34	0.7	3.5	0.8	7.3	0.6
12/17/2023	6.9	7.5	292	14	158	10	436	25	32	0.8	3.4	1.2	5.8	0.6
12/18/2023	7.1	7.3	298	13	145	10	460	24	36	0.8	3.4	1.6	5.6	0.8
12/19/2023	7.0	7.2	328	10	155	8	470	22	34	0.5	2.8	0.8	6.4	0.8
12/20/2023	6.9	7.4	252	9	148	8	440	17	32	0.6	3.0	0.8	6.0	0.0
12/21/2023	7.0	7.4	440	14	155	11	572	25	32	1.2	3.4	1.4	6.2	0.8
12/22/2023	6.9	7.4	308	13	153	10	480	18	36	1.2	3.0	1.0	6.6	1.2
12/23/2023	6.9	7.5	292	14	150	9	440	16	36	1.0	3.5	1.4	6.5	1.0
12/24/2023	6.9	7.4	322	13	157	10	460	10	35	1.2	3.4	1.5	6.8	1.0
12/25/2023	6.9	7.4	292	15	150	12	446	28	32	1.0	3.4	1.2	5.8	1.0
12/26/2023	7.0	7.2	306	17	157	13	425	28	36	1.2	3.4	0.8	5.6	0.8
12/27/2023	6.9	7.4	352	12	160	9	480	22	34	1.4	3.6	1.2	6.4	0.8
12/28/2023	6.9	7.5	356	15	167	12	488	28	35	1.2	3.8	1.5	6.3	0.6
12/29/2023	6.9	7.4	338	16	160	12	480	30	35	1.4	3.6	1.8	6.0	0.8
12/30/2023	6.9	7.4	328	13	158	10	430	26	32	1.4	3.5	1.5	5.8	0.8
12/31/2023	7.0	7.5	306	15	154	12	440	26	30	0.9	3.2	1.5	5.8	0.6

6/1/2024
ACWA(K)

06/1/24
Chemist

06/1/24
Lab Technician

6/1/24
Lab Assistant