

TEST REPORT

Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Outlet cooling water of Phu My Fertilizer Plant
2. **Date of Monitoring:** 27/02/2023 (11:10)
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Suspended Solids (TSS)	mg/l	TCVN 6625:2000	17
2	Residual Chlorine	mg/l	TCVN 6225-3:2011	ND (<0.90)
3	Fluoride (F-)	mg/l	SMEWW 4500-F-B&D:2017	1.2
4	Hexavalent Chromium (Cr6+)	mg/l	TCVN 6658:2000	ND (<0.010)
5	Trivalent Chromium (Cr3+)	mg/l	Ref: TCVN 6658:2000 / SMEWW 3120B	ND (<0.050)
6	Sulfide (S2-)	mg/l	SMEWW 4500 S2-D:2017	ND (<0.12)
7	Color	mg/l Pt	TCVN 6185:2015	5
8	Chemical Oxygen Demand (COD)	mg/l	SMEWW 5220D:2017	ND (<30)
9	Ammonium (NH4+ as N)	mg/l	TCVN 5988:1995	ND (<1.00)
10	Arsenic (As)	mg/l	ASTM-D2972:15	ND (<0.010)
11	Total Coliform	MPN/100ml	TCVN 6187-2:2020	46 x 10 ¹
12	Total Nitrogen (T-N)	mg/l	TCVN 6638:2000	ND (<10.0)
13	Total Phosphorus (T-P)	mg/l	TCVN 6202:2008	ND (<0.020)
14	Biochemical Oxygen Demand (BOD5)	mg/l	TCVN 6001-1:2021	ND (<3.0)
15	Lead (Pb)	mg/l	ASTM-D3559:15	ND (<0.010)
16	Total Iron (T-Fe)	mg/l	US EPA 3015A & SMEWW 3120 B: 2017	0.256
17	Copper (Cu)	mg/l	US EPA 3015A & SMEWW 3120 B: 2017	ND (<0.050)
18	Zinc (Zn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2017	ND (<0.050)
19	Nickel (Ni)	mg/l	US EPA 3015A & SMEWW 3120 B: 2017	ND (<0.050)
20	Cadmium (Cd)	mg/l	ASTM-D3557:17	ND (<0.0023)
21	Manganese (Mn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2017	ND (<0.050)
22	Mercury (Hg)	mg/l	TCVN 7877:2008	ND (<0.0010)
23	Barium (Ba)	mg/l	US EPA 3015A & US EPA 200.8	ND (<0.025)
24	Cyanide (CN-)	mg/l	TCVN 6181-1996	ND (<0.008)
25	pH	-	TCVN 6492:2011	7.1
26	Dissolved Oxygen (DO)	mg/l	TCVN 12026:2018	7.1
27	Temperature	°C	SMEWW 2550B:2017	34.4
28	Mineral Oil and Grease	mg/l	SMEWW 5520B&F: 2017	ND (<0.3)

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
29	Phenol	mg/l	TCVN 6216:1996	ND (<0.10)
30	Total Organic Carbon (TOC)	mg/l	TCVN 6634:2000	3.56
31	Tin (Sn)	mg/l	SMEWW 3111B:2017	ND (<0.03)

Notes / Remarks: • Sample collected and analyzed by CEMRB according to official service contract. • ND: Not Detected below method detection limit. • Test results are only valid for the analyzed samples at the time and location indicated.
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Nguyen Thi Le Hang / Nguyen Thi Hang	Le Tuan Kiet / Nguyen Xuan Son / Vo Phi Long
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TEST REPORT

Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Outlet cooling water of Phu My Fertilizer Plant
2. **Date of Monitoring:** 30/06/2023 (12:10)
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Ammonium (NH ₄ ⁺ as N)	mg/l	TCVN 5988:1995	ND (<1.00)
2	Total Suspended Solids (TSS)	mg/l	TCVN 6625:2000	28
3	Fluoride (F ⁻)	mg/l	SMEWW 4500-F-B&D:2023	1.4
4	Total Phosphorus (T-P)	mg/l	TCVN 6202:2008	0.058
5	Chemical Oxygen Demand (COD)	mg/l	SMEWW 5220.D:2023	ND (<30)
6	Lead (Pb)	mg/l	ASTM-D3559:D-15	0.0179
7	Arsenic (As)	mg/l	ASTM-D2972:C-15	ND (<0.0100)
8	Mercury (Hg)	mg/l	TCVN 7877:2008	ND (<0.0010)
9	Total Iron (T-Fe)	mg/l	TCVN 6177:1996	0.52
10	Mineral Oil and Grease	mg/l	SMEWW 5520B&F: 2023	ND (<0.3)
11	Biochemical Oxygen Demand (BOD ₅)	mg/l	TCVN 6001-1:2021	ND (<3.0)
12	Temperature	°C	SMEWW 2550B:2023	35.0
13	Dissolved Oxygen (DO)	mg/l	TCVN 12026:2018	6.6
14	pH	-	TCVN 6492:2011	7.3
15	Phenol	mg/l	TCVN 6216:1996	ND (<0.10)
16	Cyanide (CN ⁻)	mg/l	TCVN 6181-1996	ND (<0.008)
17	Residual Chlorine	mg/l	TCVN 6225-3:2011	ND (<0.90)
18	Color	mg/l Pt	TCVN 6185:2015	6
19	Total Nitrogen (T-N)	mg/l	TCVN 6638:2000	ND (<10.0)
20	Sulfide (S ₂ ⁻)	mg/l	SMEWW 4500 S ₂ -D:2023	ND (<0.12)
21	Hexavalent Chromium (Cr ₆ ⁺)	mg/l	TCVN 6658:2000	ND (<0.010)
22	Trivalent Chromium (Cr ₃ ⁺)	mg/l	Ref: TCVN 6658:2000 / SMEWW 3120B	ND (<0.050)
23	Zinc (Zn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
24	Manganese (Mn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
25	Cadmium (Cd)	mg/l	ASTM-D3557:D-17	ND (<0.0023)
26	Nickel (Ni)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
27	Copper (Cu)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
28	Total Coliform	MPN/100ml	TCVN 6187-2:2020	24 x 10 ^{^2}

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
29	Barium (Ba)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.030)
30	Tin (Sn)	mg/l	EPA Method 200.7	ND (<0.03)
31	Total Organic Carbon (TOC)	mg/l	TCVN 6634:2000	4.04

Notes / Remarks:

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TEST REPORT

Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Outlet cooling water of Phu My Fertilizer Plant
2. **Date of Monitoring:** 31/07/2023 (12:25)
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Ammonium (NH ₄ ⁺ as N)	mg/l	TCVN 5988:1995	ND (<1.00)
2	Total Suspended Solids (TSS)	mg/l	TCVN 6625:2000	15
3	Fluoride (F ⁻)	mg/l	SMEWW 4500-F-B&D:2023	1.5
4	Total Phosphorus (T-P)	mg/l	TCVN 6202:2008	0.078
5	Chemical Oxygen Demand (COD)	mg/l	SMEWW 5220.D:2023	ND (<30)
6	Lead (Pb)	mg/l	ASTM-D3559:D-15	ND (<0.0100)
7	Arsenic (As)	mg/l	ASTM-D2972:C-15	ND (<0.0100)
8	Mercury (Hg)	mg/l	TCVN 7877:2008	ND (<0.0010)
9	Total Iron (T-Fe)	mg/l	TCVN 6177:1996	0.31
10	Mineral Oil and Grease	mg/l	SMEWW 5520B&F: 2023	ND (<0.3)
11	Biochemical Oxygen Demand (BOD ₅)	mg/l	TCVN 6001-1:2021	ND (<3.0)
12	Temperature	°C	SMEWW 2550B:2023	38.3
13	pH	-	TCVN 6492:2011	6.3
14	Sulfide (S ₂ ⁻)	mg/l	SMEWW 4500 S ₂ -D:2023	ND (<0.12)
15	Color	mg/l Pt	TCVN 6185:2015	ND (<5)
16	Total Nitrogen (T-N)	mg/l	TCVN 6638:2000	ND (<10.0)
17	Residual Chlorine	mg/l	TCVN 6225-3:2011	ND (<0.90)
18	Hexavalent Chromium (Cr ₆ ⁺)	mg/l	TCVN 6658:2000	ND (<0.010)
19	Trivalent Chromium (Cr ₃ ⁺)	mg/l	Ref: TCVN 6658:2000 / SMEWW 3120B	ND (<0.050)
20	Zinc (Zn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
21	Manganese (Mn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
22	Cadmium (Cd)	mg/l	ASTM-D3557:D-17	ND (<0.0023)
23	Nickel (Ni)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
24	Copper (Cu)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
25	Total Coliform	MPN/100ml	TCVN 6187-2:2020	43 x 10 ^{^1}

Notes / Remarks:

- Sample collected and analyzed by CEMRB according to official service contract.
- ND: Not Detected below method detection limit.
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Nguyen Thi Le Hang / Nguyen Thi Hang

Le Tuan Kiet / Nguyen Xuan Son / Vo Phi Long

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TEST REPORT

Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Outlet cooling water of Phu My Fertilizer Plant
2. **Date of Monitoring:** 07/09/2023 (10:30)
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Ammonium (NH ₄ ⁺ as N)	mg/l	TCVN 5988:1995	ND (<1.00)
2	Total Suspended Solids (TSS)	mg/l	TCVN 6625:2000	16
3	Fluoride (F ⁻)	mg/l	SMEWW 4500-F-B&D:2023	1.5
4	Total Phosphorus (T-P)	mg/l	TCVN 6202:2008	0.065
5	Chemical Oxygen Demand (COD)	mg/l	SMEWW 5220.D:2023	ND (<30)
6	Lead (Pb)	mg/l	ASTM-D3559:D-15	ND (<0.0100)
7	Arsenic (As)	mg/l	ASTM-D2972:C-15	ND (<0.0100)
8	Mercury (Hg)	mg/l	TCVN 7877:2008	ND (<0.0010)
9	Total Iron (T-Fe)	mg/l	TCVN 6177:1996	0.53
10	Mineral Oil and Grease	mg/l	SMEWW 5520B&F: 2023	ND (<0.3)
11	Biochemical Oxygen Demand (BOD ₅)	mg/l	TCVN 6001-1:2021	ND (<3.0)
12	Temperature	°C	SMEWW 2550B:2023	37.8
13	Dissolved Oxygen (DO)	mg/l	TCVN 12026:2018	7.2
14	pH	-	TCVN 6492:2011	7.2
15	Phenol	mg/l	TCVN 6216:1996	ND (<0.10)
16	Cyanide (CN ⁻)	mg/l	TCVN 6181:1996	ND (<0.008)
17	Residual Chlorine	mg/l	TCVN 6225-3:2011	ND (<0.90)
18	Color	mg/l Pt	TCVN 6185:2015	ND (<5)
19	Total Nitrogen (T-N)	mg/l	TCVN 6638:2000	ND (<10.0)
20	Sulfide (S ₂ ⁻)	mg/l	SMEWW 4500 S ₂ -D:2023	ND (<0.12)
21	Hexavalent Chromium (Cr ₆ ⁺)	mg/l	TCVN 6658:2000	ND (<0.010)
22	Trivalent Chromium (Cr ₃ ⁺)	mg/l	Ref: TCVN 6658:2000 / SMEWW 3120B	ND (<0.050)
23	Zinc (Zn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
24	Manganese (Mn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
25	Cadmium (Cd)	mg/l	ASTM-D3557:D-17	ND (<0.0023)
26	Nickel (Ni)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
27	Copper (Cu)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
28	Total Coliform	MPN/100ml	TCVN 6187-2:2020	Negative (<3)

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
29	Barium (Ba)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.030)
30	Tin (Sn)	mg/l	SMEWW 3113B:2017	0.010
31	Total Organic Carbon (TOC)	mg/l	SMEWW 5310C:2017	3.8

Notes / Remarks:

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TEST REPORT

Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Outlet cooling water of Phu My Fertilizer Plant
2. **Date of Monitoring:** 13/10/2023 (11:30)
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Ammonium (NH ₄ ⁺ as N)	mg/l	TCVN 5988:1995	ND (<1.00)
2	Total Suspended Solids (TSS)	mg/l	TCVN 6625:2000	20
3	Fluoride (F ⁻)	mg/l	SMEWW 4500-F-B&D:2023	1.2
4	Total Phosphorus (T-P)	mg/l	TCVN 6202:2008	0.071
5	Chemical Oxygen Demand (COD)	mg/l	SMEWW 5220.D:2023	ND (<30)
6	Lead (Pb)	mg/l	ASTM-D3559:D-15	ND (<0.0100)
7	Arsenic (As)	mg/l	ASTM-D2972:C-15	ND (<0.0100)
8	Mercury (Hg)	mg/l	TCVN 7877:2008	ND (<0.0010)
9	Total Iron (T-Fe)	mg/l	SMEWW 3125B:2023	0.420
10	Mineral Oil and Grease	mg/l	SMEWW 5520B&F: 2023	ND (<0.3)
11	Biochemical Oxygen Demand (BOD ₅)	mg/l	TCVN 6001-1:2021	ND (<3.0)
12	Temperature	°C	SMEWW 2550B:2023	36.3
13	Dissolved Oxygen (DO)	mg/l	TCVN 7325:2016	7.4
14	pH	-	TCVN 6492:2011	7.1
15	Phenol	mg/l	TCVN 6216:1996	ND (<0.10)
16	Cyanide (CN ⁻)	mg/l	TCVN 6181:1996	ND (<0.008)
17	Residual Chlorine	mg/l	TCVN 6225-3:2011	ND (<0.90)
18	Color	mg/l Pt	TCVN 6185:2015	ND (<5)
19	Total Nitrogen (T-N)	mg/l	TCVN 6638:2000	ND (<10.0)
20	Sulfide (S ₂ ⁻)	mg/l	SMEWW 4500 S ₂ -D:2023	ND (<0.12)
21	Hexavalent Chromium (Cr ₆ ⁺)	mg/l	TCVN 6658:2000	ND (<0.010)
22	Trivalent Chromium (Cr ₃ ⁺)	mg/l	Ref: TCVN 6658:2000 / SMEWW 3120B	ND (<0.050)
23	Zinc (Zn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
24	Manganese (Mn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	0.052
25	Cadmium (Cd)	mg/l	ASTM-D3557:D-17	ND (<0.0023)
26	Nickel (Ni)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
27	Copper (Cu)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
28	Total Coliform	MPN/100ml	TCVN 6187-2:2020	23

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
29	Barium (Ba)	mg/l	US EPA 3015A & EPA 200.8	ND (<0.030)
30	Tin (Sn)	mg/l	EPA Method 200.7	ND (<0.03)
31	Total Organic Carbon (TOC)	mg/l	SMEWW 5310C:2017	4.5

Notes / Remarks:

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TEST REPORT

Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Outlet cooling water of Phu My Fertilizer Plant
2. **Date of Monitoring:** 29/11/2023 (10:30)
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Ammonium (NH ₄ ⁺ as N)	mg/l	TCVN 5988:1995	ND (<1.00)
2	Total Suspended Solids (TSS)	mg/l	TCVN 6625:2000	31
3	Fluoride (F ⁻)	mg/l	SMEWW 4500-F-B&D:2023	2.1
4	Total Phosphorus (T-P)	mg/l	TCVN 6202:2008	0.20
5	Chemical Oxygen Demand (COD)	mg/l	SMEWW 5220.D:2023	ND (<30)
6	Lead (Pb)	mg/l	ASTM-D3559:D-15	ND (<0.0100)
7	Arsenic (As)	mg/l	ASTM-D2972:C-15	ND (<0.0100)
8	Mercury (Hg)	mg/l	TCVN 7877:2008	ND (<0.0010)
9	Total Iron (T-Fe)	mg/l	US EPA 3015A & SMEWW 3125B: 2023	0.645
10	Mineral Oil and Grease	mg/l	SMEWW 5520B&F: 2023	ND (<0.3)
11	Biochemical Oxygen Demand (BOD ₅)	mg/l	TCVN 6001-1:2021	ND (<3.0)
12	Temperature	°C	SMEWW 2550B:2023	35.2
13	Dissolved Oxygen (DO)	mg/l	TCVN 12026:2018	7.4
14	pH	-	TCVN 6492:2011	7.1
15	Phenol	mg/l	TCVN 6216:1996	ND (<0.10)
16	Cyanide (CN ⁻)	mg/l	TCVN 6181:1996	ND (<0.008)
17	Residual Chlorine	mg/l	TCVN 6225-3:2011	ND (<0.90)
18	Color	mg/l Pt	TCVN 6185:2015	ND (<5)
19	Total Nitrogen (T-N)	mg/l	TCVN 6638:2000	ND (<10.0)
20	Sulfide (S ₂ ⁻)	mg/l	SMEWW 4500 S ₂ -D:2023	ND (<0.12)
21	Hexavalent Chromium (Cr ₆ ⁺)	mg/l	TCVN 6658:2000	ND (<0.010)
22	Trivalent Chromium (Cr ₃ ⁺)	mg/l	Ref: TCVN 6658:2000 / SMEWW 3120B	ND (<0.050)
23	Zinc (Zn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
24	Manganese (Mn)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	0.063
25	Cadmium (Cd)	mg/l	ASTM-D3557:D-17	ND (<0.0023)
26	Nickel (Ni)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
27	Copper (Cu)	mg/l	US EPA 3015A & SMEWW 3120 B: 2023	ND (<0.050)
28	Total Coliform	MPN/100ml	TCVN 6187-2:2020	24 x 10 ^{^1}

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
29	Barium (Ba)	mg/l	US EPA 3015A & EPA 200.8	ND (<0.030)
30	Tin (Sn)	mg/l	EPA Method 200.7	ND (<0.03)
31	Total Organic Carbon (TOC)	mg/l	SMEWW 5310C:2017	3.8

Notes / Remarks:

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