

ภาคผนวก ญ  
ใบรายงานผลการวิเคราะห์

---



## คุณภาพอากาศ

---





United Analyst and Engineering Consultant Co., Ltd.  
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260  
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**MEASURING PLACE** : STATION : L33-1 A (UTM WGS 84 ZONE 47P 726937E 1737881N)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : AUGUST 24-27, 2023  
**MEASURING TIME** : \*  
**MEASURING METHOD** : CHEMILUMINESCENCE  
**MEASURED BY** : MR UTHAI KAEWRAKMOOK

**RECEIVED DATE** : AUGUST 24-27, 2023  
**ANALYTICAL DATE** : AUGUST 24-27, 2023  
**REPORT NO.** : 2023-U073013  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AQ665-0001 - T23AQ665-0003

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	STATION : L33-1 A (UTM WGS 84 ZONE 47P 726937E 1737881N)		
	AUGUST 24-25, 2023 T23AQ665-0001	AUGUST 24-25, 2023 T23AQ665-0002	AUGUST 24-25, 2023 T23AQ665-0003
07:00-08:00 HOUR	0.0263	0.0270	0.0278
08:00-09:00 HOUR	0.0239	0.0243	0.0236
09:00-10:00 HOUR	0.0192	0.0214	0.0180
10:00-11:00 HOUR	0.0185	0.0196	0.0156
11:00-12:00 HOUR	0.0167	0.0182	0.0147
12:00-13:00 HOUR	0.0169	0.0177	0.0147
13:00-14:00 HOUR	0.0176	0.0187	0.0159
14:00-15:00 HOUR	0.0187	0.0213	0.0166
15:00-16:00 HOUR	0.0224	0.0234	0.0197
16:00-17:00 HOUR	0.0244	0.0261	0.0211
17:00-18:00 HOUR	0.0263	0.0266	0.0221
18:00-19:00 HOUR	0.0265	0.0265	0.0216
19:00-20:00 HOUR	0.0265	0.0274	0.0234
20:00-21:00 HOUR	0.0254	0.0254	0.0236
21:00-22:00 HOUR	0.0246	0.0249	0.0243
22:00-23:00 HOUR	0.0243	0.0232	0.0240
23:00-00:00 HOUR	0.0249	0.0235	0.0241
00:00-01:00 HOUR	0.0256	0.0228	0.0238
01:00-02:00 HOUR	0.0272	0.0223	0.0225
02:00-03:00 HOUR	0.0267	0.0217	0.0234
03:00-04:00 HOUR	0.0249	0.0221	0.0226
04:00-05:00 HOUR	0.0238	0.0244	0.0243
05:00-06:00 HOUR	0.0268	0.0278	0.0253
06:00-07:00 HOUR	0.0286	0.0309	0.0266

  
(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 3, 2023

ISO 9001:2015 CERTIFIED  
ISO 14001:2015 CERTIFIED  
BY BSI GROUP (THAILAND) CO.,LTD.

- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/1



- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.  
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260  
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**MEASURING PLACE** : STATION : L33-1 A (UTM WGS 84 ZONE 47P 726937E 1737881N)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : AUGUST 24-27, 2023  
**MEASURING TIME** : \*  
**MEASURING METHOD** : UV FLUORESCENCE  
**MEASURED BY** : MR UTHAI KAEWRAKMOOK

**RECEIVED DATE** : AUGUST 24-27, 2023  
**ANALYTICAL DATE** : AUGUST 24-27, 2023  
**REPORT NO.** : 2023-U073014  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AQ665-0001 - T23AQ665-0003

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	STATION : L33-1 A (UTM WGS 84 ZONE 47P 726937E 1737881N)		
	AUGUST 24-25, 2023 T23AQ665-0001	AUGUST 24-25, 2023 T23AQ665-0002	AUGUST 24-25, 2023 T23AQ665-0003
07:00-08:00 HOUR	0.0022	0.0024	0.0024
08:00-09:00 HOUR	0.0021	0.0019	0.0019
09:00-10:00 HOUR	0.0017	0.0018	0.0016
10:00-11:00 HOUR	0.0017	0.0017	0.0017
11:00-12:00 HOUR	0.0018	0.0017	0.0019
12:00-13:00 HOUR	0.0021	0.0019	0.0021
13:00-14:00 HOUR	0.0026	0.0022	0.0024
14:00-15:00 HOUR	0.0031	0.0024	0.0024
15:00-16:00 HOUR	0.0038	0.0028	0.0028
16:00-17:00 HOUR	0.0042	0.0031	0.0031
17:00-18:00 HOUR	0.0041	0.0035	0.0033
18:00-19:00 HOUR	0.0031	0.0033	0.0030
19:00-20:00 HOUR	0.0036	0.0032	0.0027
20:00-21:00 HOUR	0.0037	0.0030	0.0025
21:00-22:00 HOUR	0.0035	0.0031	0.0025
22:00-23:00 HOUR	0.0032	0.0030	0.0028
23:00-00:00 HOUR	0.0030	0.0029	0.0032
00:00-01:00 HOUR	0.0030	0.0027	0.0033
01:00-02:00 HOUR	0.0031	0.0025	0.0031
02:00-03:00 HOUR	0.0033	0.0024	0.0029
03:00-04:00 HOUR	0.0030	0.0027	0.0029
04:00-05:00 HOUR	0.0031	0.0029	0.0028
05:00-06:00 HOUR	0.0030	0.0032	0.0026
06:00-07:00 HOUR	0.0028	0.0029	0.0025
AVERAGE 24 HOUR	0.0030	0.0026	0.0026

  
(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 3, 2023

ISO 9001:2015 CERTIFIED  
ISO 14001:2015 CERTIFIED  
BY BSI GROUP (THAILAND) CO.,LTD.

- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/1



- End of Analysis Report -

## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : STATION : L33-1 A (UTM WGS 84 ZONE 47P 726937E 1737881N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR UTHAI KAEWRAMOOK  
**ANALYZED BY** : MISS WORAKON PADSONGCHAN

**RECEIVED DATE** : AUGUST 28, 2023  
**ANALYTICAL DATE** : AUGUST 28-SEPTEMBER 1, 2023  
**REPORT NO.** : 2023-U076061  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AQ665-0001 - T23AQ665-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			REGULATORY STANDARD
			STATION : L33-1 A (UTM WGS 84 ZONE 47P 726937E 1737881N)			
			* T23AQ665-0001	** T23AQ665-0002	*** T23AQ665-0003	
BENZENE <sup>a</sup>	µg/m³	UAE.TP.TOX.003 BASED ON US EPA, COMPENDIUM METHOD TO-15, 2nd EDITION, JANUARY 1999	< 0.26	< 0.26	< 0.26	≤ 7.6
ETHYLBENZENE <sup>a</sup>	µg/m³	UAE.TP.TOX.003 BASED ON US EPA, COMPENDIUM METHOD TO-15, 2nd EDITION, JANUARY 1999	< 0.35	< 0.35	< 0.35	-
TOLUENE <sup>a</sup>	µg/m³	UAE.TP.TOX.003 BASED ON US EPA, COMPENDIUM METHOD TO-15, 2nd EDITION, JANUARY 1999	1.71	1.26	4.24	-
TOTAL XYLENES <sup>b</sup>	µg/m³	UAE.TP.TOX.003 BASED ON US EPA, COMPENDIUM METHOD TO-15, 2nd EDITION, JANUARY 1999	< 1.05	< 1.05	< 1.05	-
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARD INSTITUTE (TISI)

<sup>b</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

### REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

REGULATORY STANDARD : AMBIENT AIR QUALITY STANDARD, NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.126 SPECIAL PART 13D, DATED JANUARY 27, B.E. 2552 (2009).

\* : SAMPLING FROM 07:00 HOUR ON AUGUST 24, 2023 TO 07:00 HOUR ON AUGUST 25, 2023.

\*\* : SAMPLING FROM 07:00 HOUR ON AUGUST 25, 2023 TO 07:00 HOUR ON AUGUST 26, 2023.

\*\*\* : SAMPLING FROM 07:00 HOUR ON AUGUST 26, 2023 TO 07:00 HOUR ON AUGUST 27, 2023.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
 LABORATORY SUPERVISOR

SEPTEMBER 13, 2023





## คุณภาพดิน

---



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : L331-S1: FLARE STACK AT PROJECT AREA (UTM WGS 84 ZONE 47P 726944E 1737919N)  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : SEPTEMBER 25, 2023  
**SAMPLING TIME** : 15:20 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR APISIT SRIKONGKAEW  
**ANALYZED BY** : MISS WORAKON PADSONGCHAN

**RECEIVED DATE** : SEPTEMBER 26, 2023  
**ANALYTICAL DATE** : SEPTEMBER 26 - OCTOBER 2, 2023  
**REPORT NO.** : 2023-U084605  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AT120-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			L331-S1 T23AT120-0001		
POLYCYCLIC AROMATIC HYDROCARBONS(PAHs)					
BENZO(a)PYRENE	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007: 3550C AND 1986: 8100)	ND	≤ 1.8	0.01
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF THE NATIONAL ENVIRONMENTAL BOARD CLASS 2, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 138, PART 54 D, DATED MARCH 11, 2021.

CLASS 2 : SOIL QUALITY STANDARDS FOR COMMERCE, AGRICULTURE AND OTHER PURPOSES

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

OCTOBER 6, 2023



# คุณภาพน้ำผิวดิน

---



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : L33-1 SW A (UTM WGS 84 ZONE 47P 726945E 1737804N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 25, 2023  
**SAMPLING TIME** : 15:10 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR APISIT SRIKONGKAEW  
**ANALYZED BY** : MISS KEWALEE SUKHAREE

**RECEIVED DATE** : SEPTEMBER 26, 2023  
**ANALYTICAL DATE** : SEPTEMBER 26 - OCTOBER 5, 2023  
**REPORT NO.** : 2023-U086011  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AT121-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			L33-1 SW A T23AT121-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H° B)	8.1 (32°C)	5.0-9.0	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	427 (32°C)	-	0.1
CHLORIDE °	mg/L Cl	ARGENTOMETRIC METHOD (SM: PART 4500-Cl° B)	3.4	-	2.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	49.2	-	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	-	3
METALS					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.005*, ≤ 0.05**	0.002
CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	-	0.005
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.424	-	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.05	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.048	≤ 1.0	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	≤ 0.002	0.0001
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.1	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			L33-1 SW A T23AT121-0001		
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 1.0	0.003
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

° : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

° : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : SURFACE WATER QUALITY STANDARDS CLASS 3, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, NO.8, B.E. 2537 ISSUED UNDER THE ENCHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 111, PART 16, DATED FEBRUARY 24, B.E. 2537 (1994).

CLASS 3 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR  
(1) CONSUMPTION, BUT PASSING THROUGH ON ORDINARY TREATMENT PROCESS BEFORE USING  
(2) AGRICULTURE

≤ 0.005\* : WHEN WATER HARDNESS NOT MORE THAN 100 mg/L AS CaCO<sub>3</sub>

≤ 0.05\*\* : WHEN WATER HARDNESS MORE THAN 100 mg/L AS CaCO<sub>3</sub>

ND : NON-DETECTABLE.

*Bhuchonk P.*

(MR. BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 11, 2023

# คุณภาพน้ำบาดาล

---





## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWL331-1 (UTM WGS 84 ZONE 47P 726870E 1737906N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 25, 2023  
**SAMPLING TIME** : 14:45 HOUR  
**SAMPLING METHOD °** : SUBMERSIBLE PUMP  
**SAMPLING BY °** : MR APHISIT HEUANGSAVANH  
**ANALYZED BY** : MISS KEWALEE SUKHAREE

**RECEIVED DATE** : SEPTEMBER 26, 2023  
**ANALYTICAL DATE** : SEPTEMBER 26 - OCTOBER 6, 2023  
**REPORT NO.** : 2023-U086012  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AT122-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MWL331-1 T23AT122-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H° B)	7.8 (30°C)	-	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	1,175 (30°C)	-	0.1
CHLORIDE °	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: PART 4500-Cl° B)	10.3	-	2.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	150	-	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.003	0.002
CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	-	0.005
COPPER °	mg/L Cu	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 1.0	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.059	-	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.01	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.5	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	≤ 0.001	0.0001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MWL331-1 T23AT122-0001		
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.02	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 5.0	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

° : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

° : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 117, SPECIAL PART 95D, DATED SEPTEMBER 15,  
B.E. 2543 (2000).

ND : NON-DETECTABLE.

*Bhuchonk*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 11, 2023

## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@eco-thai.net  
**SAMPLING SOURCE** : MWL331-2 (UTM WGS 84 ZONE 47P 726945E 1737899N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 25, 2023  
**SAMPLING TIME** : 14:00 HOUR  
**SAMPLING METHOD °** : SUBMERSIBLE PUMP  
**SAMPLING BY °** : MR APHISIT HEUANGSAVANH  
**ANALYZED BY** : MISS KEWALEE SUKHAREE

**RECEIVED DATE** : SEPTEMBER 26, 2023  
**ANALYTICAL DATE** : SEPTEMBER 26 - OCTOBER 6, 2023  
**REPORT NO.** : 2023-U086013  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AT122-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MWL331-2 T23AT122-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H° B)	7.8 (30°C)	-	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	1,674 (30°C)	-	0.1
CHLORIDE °	mg/L Cl	ARGENTOMETRIC METHOD (SM: PART 4500-Cl B)	5.9	-	2.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	199	-	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.003	0.002
CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	-	0.005
COPPER °	mg/L Cu	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 1.0	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	-	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.01	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.5	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	≤ 0.001	0.0001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MWL331-2 T23AT122-0002		
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.02	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 5.0	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

° : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
° : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO 20 (B.E. 2543) ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 117, SPECIAL PART 95D, DATED SEPTEMBER 15, B.E. 2543 (2000).

ND : NON-DETECTABLE.  
< LOQ : < LIMIT OF QUANTITATION (IRON ≥ 0.005 AND < 0.050 mg/L).

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 11, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@eco-thai.net  
**SAMPLING SOURCE** : L33-GW1 (UTM WGS 84 ZONE 47P 724787E 1739607N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 25, 2023  
**SAMPLING TIME** : 15:30 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR APHISIT HEUANGSAVANH  
**ANALYZED BY** : MISS KEWALEE SUKHAREE

**RECEIVED DATE** : SEPTEMBER 26, 2023  
**ANALYTICAL DATE** : SEPTEMBER 26 - OCTOBER 6, 2023  
**REPORT NO.** : 2023-U086014  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AT122-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT L33-GW1 T23AT122-0003	REGULATORY STANDARD	DETECTION LIMIT
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H° B)	7.8 (31°C)	-	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	571 (31°C)	-	0.1
CHLORIDE °	mg/L Cl	ARGENTOMETRIC METHOD (SM: PART 4500-Cl° B)	10.3	-	2.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	3.2	-	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	≤ 0.01	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.003	0.002
CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	-	0.005
COPPER °	mg/L Cu	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 1.0	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	-	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.01	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.5	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	≤ 0.001	0.0001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT L33-GW1 T23AT122-0003	REGULATORY STANDARD	DETECTION LIMIT
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.02	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 5.0	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

° : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

° : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543) ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 117, SPECIAL PART 95D, DATED SEPTEMBER 15, B.E. 2543 (2000).

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, MANGANESE ≥ 0.002 AND < 0.025 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

*Bhuchonk*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 11, 2023

# คุณภาพน้ำฝน

---



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : BAN KHOK PRUE (R1) (UTM WGS 84 ZONE 47P 724718E 1739591N)  
**SAMPLE TYPE** : RAIN WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2023  
**SAMPLING TIME** : 09:45 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR TEERAPONG SRIKAMHANG  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

**RECEIVED DATE** : SEPTEMBER 21, 2023  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 3, 2023  
**REPORT NO.** : 2023-U084501  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AS778-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			RAIN WATER T23AS778-0001	
pH	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.6 (28°C)	-
ELECTRICAL CONDUCTIVITY	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	16.8 (28°C)	0.1
CHLORIDE	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: PART 4500-Cl <sup>-</sup> B)	ND	2.0
SULPHATE	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	2.0	0.3
TOTAL PETROLEUM HYDROCARBONS	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
<b>METALS</b>				
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0003
CADMIUM	mg/L Cd	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.002
CHROMIUM	mg/L Cr	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.005
COPPER	mg/L Cu	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.002
IRON	mg/L Fe	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.018	0.005
LEAD	mg/L Pb	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.003
MANGANESE	mg/L Mn	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.002
MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	0.0001
NICKEL	mg/L Ni	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			RAIN WATER T23AS778-0001	
ZINC	mg/L Zn	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

OCTOBER 6, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : BAN NA RAI DIEW (R2) (UTM WGS 84 ZONE 47P 726672E 1733907N)  
**SAMPLE TYPE** : RAIN WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2023  
**SAMPLING TIME** : 10:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR TEERAPONG SRIKAMHANG  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

**RECEIVED DATE** : SEPTEMBER 21, 2023  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 3, 2023  
**REPORT NO.** : 2023-U084502  
**WORK NO.** : 2023-006326  
**ANALYSIS NO.** : T23AS778-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			RAIN WATER T23AS778-0002	
pH	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.9 (28°C)	-
ELECTRICAL CONDUCTIVITY	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	16.4 (28°C)	0.1
CHLORIDE	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: PART 4500-Cl <sup>-</sup> B)	ND	2.0
SULPHATE	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	2.2	0.3
TOTAL PETROLEUM HYDROCARBONS	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0003
CADMIUM	mg/L Cd	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.002
CHROMIUM	mg/L Cr	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.005
COPPER	mg/L Cu	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.002
IRON	mg/L Fe	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.014	0.005
LEAD	mg/L Pb	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.003
MANGANESE	mg/L Mn	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.002
MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	0.0001
NICKEL	mg/L Ni	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			RAIN WATER T23AS778-0002	
ZINC	mg/L Zn	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

OCTOBER 6, 2023