



Certificate Of Analysis

Registration No. : L-KL-BQ2102NGE-0398 Page: 12 of 34
Customer : Golden Ecosystem Sdn. Bhd.
Project : The Proposed Oil Palm and Coconut Palm Plantation at Lots PTD 4882, PTD 4085, PTD 4963, PTD 4118, PTD 4177 and PTD 4121 (3775.34 ha) Mukim Padang Endau, Daerah Mersing, Johor Darul Takzim.

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Table with 6 columns: Parameters, Units, Results (W1-LT, W2-LT, W3-LT), and Methods Used. Rows include Chemical Oxygen Demand, Feecal Coliform, Potassium as K, Total Dissolved Solids, and various Organochlorine Pesticides (OCP).

Kok Yin Yean
MMIC M/3299/6133/2011
(Chemist)

Umma Sa'adah Binti Md. Shah
MJMM 0806
(Microbiologist)

Notes:

- 1. The results reported relate only to the items tested as per the details given in this COA.
2. APHA means Standard Methods for Examination of Water and Wastewater by APHA, AWWA and WEF.
3. NTU means Nephelometric Turbidity Unit
4. "<" means 'less than the minimum detectable limit' or 'not detected'.
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7. (-) means not available
8. USEPA means United States Environmental Protection Agency.
9. AOAC means Association of Official Analytical Chemists.

Attention : Wazfarina Abdul Wahid
Address : Golden Ecosystem Sdn. Bhd. (534338-P)
Level 6, Menara Mitraland,
No 13A, Jalan PJU 5/1,
Kota Damansara PJU 5,
47810 Petaling Jaya, Selangor.



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**Sampling Date** : 24<sup>th</sup> to 25<sup>th</sup> February 2021  
**Receiving Date** : 26<sup>th</sup> February 2021  
**Reporting Date** : 25<sup>th</sup> March 2021  
**Sample Description** : Surface water  
**Sample Marking** : 4. W4-LT: Sg Endau (Boundary of the project site) [N 02°34'21.47" E103°35'54.41"]  
 5. W5-LT: Sg Dedap (within the project site) [N 02°35'5.90" E103°38'26.23"]  
 6. W6-LT: Sg Labong (Upstream of the project site) [N 02°34'41.21" E103°38'22.88"]

Results of analysis:-

Testing period: 24-February-2021 to 24-March-2021

Parameters	Units	Results			Methods Used
		W4-LT	W5-LT	W6-LT	
pH value ( in-situ reading)	-	6.79	6.64	6.73	APHA 4500 H <sup>+</sup> B, 2005
*Temperature ( in-situ reading)	°C	27.8	27.9	28.6	APHA 2550,B 2005
Dissolved Oxygen ( in-situ reading)	mg/l	5.49	5.39	5.41	APHA 4500-O G, 2005
Salinity	%	<1	<1	<1	APHA 2520 B, 2005
Turbidity	NTU	23	33	62	APHA 2130 B, 2005
Total Suspended Solids (tested on 26/02/2021)	mg/l	26	21	396	APHA 2540 D, 2005
Ammoniacal Nitrogen as N	mg/l	0.1	2.3	3.2	APHA 4500-NH <sub>3</sub> B&C, 1992
Oil & Grease (tested on 26/02/2021)	mg/l	<1	<1	<1	APHA 5520 B, 2005
Arsenic as As	mg/l	<0.005	<0.005	<0.005	APHA 3114 C, 2005
Boron as B	mg/l	<0.005	0.007	<0.005	APHA 3120 B, 2005
Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	APHA 3120 B, 2005
Copper as Cu	mg/l	0.005	0.005	0.005	APHA 3120 B, 2005
Lead as Pb	mg/l	<0.01	<0.01	<0.01	APHA 3120 B, 2005
Iron as Fe	mg/l	1.36	3.91	106	APHA 3120 B, 2005
*Iron (II) as Fe <sup>2+</sup>	mg/l	<0.02	<0.02	<0.02	HACH method 8146
Aluminium as Al	mg/l	0.82	1.67	1.47	APHA 3120 B, 2005
Mercury as Hg	mg/l	<0.001	<0.001	<0.001	APHA 3112 B, 2005
Manganese as Mn	mg/l	0.017	0.072	0.122	APHA 3120 B, 2005
Tin as Sn	mg/l	<0.004	<0.004	<0.004	In-house method (ESL/L/W-08) based on: APHA 3120 B, 2005
Phosphate as PO <sub>4</sub>	mg/l	<0.1	<0.1	<0.1	APHA 4500-P D,2005
Nitrate as NO <sub>3</sub>	mg/l	3.0	0.7	8.1	APHA 4500-NO <sub>3</sub> <sup>-</sup> B, 2005
Nitrite as NO <sub>2</sub>	mg/l	<0.1	<0.1	<0.1	APHA 4500-NO <sub>2</sub> <sup>-</sup> B, 2005
Chromium Trivalent as Cr <sup>3+</sup>	mg/l	<0.01	<0.01	<0.01	In-house method(ESL/L/W-01) based on APHA 3120 B, 2005&APHA 3500-Cr B, 2005 (Calculation)
Biochemical Oxygen Demand @ 5 days at 20 °C (tested on 26/02/2021)	mg/l	<2	<2	4	APHA 5210 B, 2005& APHA 4500-O G, 2005

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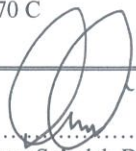
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**Registration No.** : L-KL-BQ2102NGE-0398 Page: 14 of 34  
**Customer** : Golden Ecosystem Sdn. Bhd.  
**Project** : The Proposed Oil Palm and Coconut Palm Plantation at Lots PTD 4882, PTD 4085, PTD 4963, PTD 4118, PTD 4177 and PTD 4121 (3775.34 ha) Mukim Padang Endau, Daerah Mersing, Johor Darul Takzim.

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Parameters	Units	Results			Methods Used
		W4-LT	W5-LT	W6-LT	
Chemical Oxygen Demand (tested on 26/02/2021)	mg/l	13	25	141	APHA 5220 B, 2005
Feacal Coliform	Count/100ml	29	10	10	APHA 9222 D, 2005
Potassium as K	mg/l	2.45	2.63	2.03	APHA 3120 B, 2005
Total Dissolved Solids	mg/l	48	218	586	APHA 2540 C, 2005
<b>Organochlorine Pesticides(OCP):-</b>					
alpha-BHC	µg/l	<0.01	<0.01	<0.01	} APHA 6630 C, 2005
Gamma-BHC (Lindane)	µg/l	<0.01	<0.01	<0.01	
Heptachlor	µg/l	<0.01	<0.01	<0.01	
Aldrin	µg/l	<0.01	<0.01	<0.01	
Heptachlor Epoxide (isomer B)	µg/l	<0.01	<0.01	<0.01	
Endosulfan I (alpha)	µg/l	<0.01	<0.01	<0.01	
Dieldrin	µg/l	<0.01	<0.01	<0.01	
4,4'-DDT	ug/l	<0.01	<0.01	<0.01	
*Chlordane	µg/l	<1	<1	<1	
##* 2,4-D	mg/l	<0.01	-	<0.01	USEPA 8270 C
# *2,4,5-T	mg/l	<0.1	-	<0.1	USEPA 8270 C
##* 2,4,5-TP	mg/l	<0.1	-	<0.1	USEPA 8270 C
##* Paraquat	mg/l	<0.01	-	<0.01	AOAC

.....  
 Kok Yin Yean  
 MMIC M/3299/6133/2011  
 (Chemist)

.....  
  
 Ummu Sa'adah Binti Md. Shah  
 MJMM 0806  
 (Microbiologist)

- Notes:
- The results reported relate only to the items tested as per the details given in this COA.
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  - NTU means Nephelometric Turbidity Unit
  - "<" means 'less than the minimum detectable limit' or 'not detected'.
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**Sampling Date** : 24<sup>th</sup> to 25<sup>th</sup> February 2021  
**Receiving Date** : 26<sup>th</sup> February 2021  
**Reporting Date** : 25<sup>th</sup> March 2021  
**Sample Description** : Surface water  
**Sample Marking** : 7. W8: Sg Endau – Tanjung Merit (downstream of the project site)  
 [N 02°39'3.20" E103°36'58.08"]

Results of analysis:-  
 Testing period: 24-February-2021 to 24-March-2021

Parameters	Units	Results		Methods Used
		W8 (Low Tide)	W8 (High Tide)	
pH value ( in-situ reading)	-	6.98	7.98	APHA 4500 H <sup>+</sup> B, 2005
*Temperature ( in-situ reading)	°C	28.6	28.9	APHA 2550,B 2005
Dissolved Oxygen ( in-situ reading)	mg/l	5.64	5.72	APHA 4500-O G, 2005
Salinity	%	6	7	APHA 2520 B, 2005
Turbidity	NTU	62	13	APHA 2130 B, 2005
Total Suspended Solids (tested on 26/02/2021)	mg/l	92	28	APHA 2540 D, 2005
Ammoniacal Nitrogen as N	mg/l	2.2	1.4	APHA 4500-NH <sub>3</sub> B&C, 1992
Oil & Grease (tested on 26/02/2021)	mg/l	<1	<1	APHA 5520 B, 2005
Arsenic as As	mg/l	<0.005	<0.005	APHA 3114 C, 2005
Boron as B	mg/l	0.496	0.663	APHA 3120 B, 2005
Cadmium as Cd	mg/l	<0.005	<0.005	APHA 3120 B, 2005
Copper as Cu	mg/l	0.008	0.005	APHA 3120 B, 2005
Lead as Pb	mg/l	<0.01	<0.01	APHA 3120 B, 2005
Iron as Fe	mg/l	4.41	0.352	APHA 3120 B, 2005
*Iron (II) as Fe <sup>2+</sup>	mg/l	<0.02	<0.02	HACH method 8146
Aluminium as Al	mg/l	2.08	0.58	APHA 3120 B, 2005
Mercury as Hg	mg/l	<0.001	<0.001	APHA 3112 B, 2005
Manganese as Mn	mg/l	0.021	0.010	APHA 3120 B, 2005
Tin as Sn	mg/l	<0.004	<0.004	In-house method (ESL/L/W-08) based on: APHA 3120 B, 2005
Phosphate as PO <sub>4</sub>	mg/l	<0.1	<0.1	APHA 4500-P D,2005
Nitrate as NO <sub>3</sub>	mg/l	3.3	2.6	APHA 4500-NO <sub>3</sub> <sup>-</sup> B, 2005
Nitrite as NO <sub>2</sub>	mg/l	<0.1	<0.1	APHA 4500-NO <sub>2</sub> <sup>-</sup> B, 2005
Chromium Trivalent as Cr <sup>3+</sup>	mg/l	<0.01	<0.01	In-house method(ESL/L/W-01) based on APHA 3120 B, 2005&APHA 3500-Cr B, 2005 (Calculation)
Biochemical Oxygen Demand @ 5 days at 20 °C (tested on 26/02/2021)	mg/l	3	<2	} APHA 5210 B, 2005& APHA 4500-O G, 2005

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Parameters	Units	Results		Methods Used
		W8 (Low Tide)	W8 (High Tide)	
Chemical Oxygen Demand (tested on 26/02/2021)	mg/l	37	21	APHA 5220 B, 2005
Feacal Coliform	Count/100ml	10	87	APHA 9222 D, 2005
Potassium as K	mg/l	50.5	95.2	APHA 3120 B, 2005
Total Dissolved Solids	mg/l	7293	9517	APHA 2540 C, 2005
<b>Organochlorine Pesticides(OCP):-</b>				} APHA 6630 C, 2005
alpha-BHC	µg/l	<0.01	<0.01	
Gamma-BHC (Lindane)	µg/l	<0.01	<0.01	
Heptachlor	µg/l	<0.01	<0.01	
Aldrin	µg/l	<0.01	<0.01	
Heptachlor Epoxide (isomer B)	µg/l	<0.01	<0.01	
Endosulfan I (alpha)	µg/l	<0.01	<0.01	
Dieldrin	µg/l	<0.01	<0.01	
4,4'-DDT	ug/l	<0.01	<0.01	
*Chlordane	µg/l	<1	<1	
#* 2,4-D	mg/l	<0.01	-	USEPA 8270 C
# *2,4,5-T	mg/l	<0.1	-	USEPA 8270 C
#* 2,4,5-TP	mg/l	<0.1	-	USEPA 8270 C
#* Paraquat	mg/l	<0.01	-	AOAC

.....  
 Kok Yin Yean  
 MMIC M/3299/6133/2011  
 (Chemist)

.....  
  
 Ummu Sa'odah Binti Md. Shah  
 MJMM 0806  
 (Microbiologist)

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Attention : **Wazfarina Abdul Wahid**  
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 Level 6, Menara Mitraland,  
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**Receiving Date** : 26<sup>th</sup> February 2021  
**Reporting Date** : 25<sup>th</sup> March 2021  
**Sample Description** : Surface water  
**Sample Marking** : 8. W7-LT: Sg Endau (downstream of the project site) [N 02°35'19.84" E103°37'29.81"]

Results of analysis:-  
 Testing period: 26-February-2021 to 24-March-2021

Parameters	Units	Results	Methods Used
		W7-LT	
pH value (tested on 26/02/2021)	-	6.1	APHA 4500 H <sup>+</sup> B, 2005
*Temperature	°C	26.5	APHA 2550,B 2005
Dissolved Oxygen	mg/l	7.1	APHA 4500-O G, 2005
Salinity	%	<1	APHA 2520 B, 2005
Turbidity	NTU	18	APHA 2130 B, 2005
Total Suspended Solids (tested on 26/02/2021)	mg/l	2	APHA 2540 D, 2005
Ammoniacal Nitrogen as N	mg/l	0.2	APHA 4500-NH <sub>3</sub> B&C, 1992
Oil & Grease (tested on 26/02/2021)	mg/l	<1	APHA 5520 B, 2005
Arsenic as As	mg/l	<0.005	APHA 3114 C, 2005
Boron as B	mg/l	0.039	APHA 3120 B, 2005
Cadmium as Cd	mg/l	<0.005	APHA 3120 B, 2005
Copper as Cu	mg/l	0.006	APHA 3120 B, 2005
Lead as Pb	mg/l	<0.01	APHA 3120 B, 2005
Iron as Fe	mg/l	0.907	APHA 3120 B, 2005
*Iron (II) as Fe <sup>2+</sup>	mg/l	<0.02	HACH method 8146
Aluminium as Al	mg/l	0.60	APHA 3120 B, 2005
Mercury as Hg	mg/l	<0.001	APHA 3112 B, 2005
Manganese as Mn	mg/l	0.014	APHA 3120 B, 2005
Tin as Sn	mg/l	<0.004	In-house method (ESL/L/W-08) based on: APHA 3120 B, 2005
Phosphate as PO <sub>4</sub>	mg/l	<0.1	APHA 4500-P D,2005
Nitrate as NO <sub>3</sub>	mg/l	3.2	APHA 4500-NO <sub>3</sub> <sup>-</sup> B, 2005
Nitrite as NO <sub>2</sub>	mg/l	<0.1	APHA 4500-NO <sub>2</sub> <sup>-</sup> B, 2005
Chromium Trivalent as Cr <sup>3+</sup>	mg/l	<0.01	In-house method(ESL/L/W-01) based on APHA 3120 B, 2005&APHA 3500-Cr B, 2005 (Calculation)
Biochemical Oxygen Demand @ 5 days at 20 °C (tested on 26/02/2021)	mg/l	<2	} APHA 5210 B, 2005& } APHA 4500-O G, 2005
Chemical Oxygen Demand (tested on 26/02/2021)	mg/l	15	APHA 5220 B, 2005

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Continue...

Parameters	Units	Results	Methods Used
		W7-LT	
Feecal Coliform	Count/100ml	20	APHA 9222 D, 2005
Potassium as K	mg/l	6.50	APHA 3120 B, 2005
Total Dissolved Solids	mg/l	554	APHA 2540 C, 2005
Aldrin / Dieldrin	µg/l	<0.01	APHA 6630C, 2005
BHC	µg/l	<0.01	APHA 6630C, 2005
*Chlordane	µg/l	<1	APHA 6630C, 2005
t-DDT	µg/l	<0.01	APHA 6630 C, 2005
Endosulfan	µg/l	<0.01	APHA 6630 C, 2005
Heptachlor / Epoxide	µg/l	<0.01	APHA 6630 C, 2005
Lindane	µg/l	<0.01	APHA 6630 C, 2005
Total Coliform	Count/100ml	2300	APHA 9222 B, 2005
<i>E.Coli</i>	Count/100ml	10	APHA 9222 G, 2005
Color	TCU	20	APHA 2120 B, 2005
*Chloride as Cl	mg/l	180	ASTM D512, 1981
Hardness as CaCO <sub>3</sub>	mg/l	68	APHA 2340 B, 2005
Sulphate as SO <sub>4</sub>	mg/l	35	APHA 4500-SO <sub>4</sub> <sup>2-</sup> E, 2005
Phenol	mg/l	<0.001	APHA 5530 B&C, 2005
Selenium as Se	mg/l	<0.01	APHA 3120 B, 2005
Cyanide as CN	mg/l	<0.02	APHA 4500-CN <sup>-</sup> F, 2005
Zinc as Zn	mg/l	0.009	APHA 3120 B, 2005

Kok Yin Yean  
MMIC M/3299/6133/2011  
(Chemist)

Ummu Sa'adah Binti Md. Shah  
MJMM 0806  
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7. TCU means True Color Unit.

Attention : **Wazfarina Abdul Wahid**  
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<b>Reporting Date</b>	: 25 <sup>th</sup> March 2021	
<b>Sample Description</b>	: Surface water	
<b>Sample Marking</b>	: 9. W9:Tasik Labong [N 02°35'16.56" E103°40'0.55"]	

Results of analysis:-  
Testing period: 26-February-2021 to 24-March-2021

Parameters	Units	Results	Methods Used
		W9	
pH value (tested on 26/02/2021)	-	6.6	APHA 4500 H <sup>+</sup> B, 2005
*Temperature	°C	26.3	APHA 2550,B 2005
Dissolved Oxygen	mg/l	7.3	APHA 4500-O G, 2005
Salinity	%	<1	APHA 2520 B, 2005
Turbidity	NTU	14	APHA 2130 B, 2005
Total Suspended Solids (tested on 26/02/2021)	mg/l	7	APHA 2540 D, 2005
Ammoniacal Nitrogen as N	mg/l	0.5	APHA 4500-NH <sub>3</sub> B&C, 1992
Oil & Grease (tested on 26/02/2021)	mg/l	<1	APHA 5520 B, 2005
Arsenic as As	mg/l	<0.005	APHA 3114 C, 2005
Boron as B	mg/l	<0.005	APHA 3120 B, 2005
Cadmium as Cd	mg/l	<0.005	APHA 3120 B, 2005
Copper as Cu	mg/l	0.005	APHA 3120 B, 2005
Lead as Pb	mg/l	<0.01	APHA 3120 B, 2005
Iron as Fe	mg/l	0.847	APHA 3120 B, 2005
*Iron (II) as Fe <sup>2+</sup>	mg/l	<0.02	HACH method 8146
Aluminium as Al	mg/l	0.17	APHA 3120 B, 2005
Mercury as Hg	mg/l	<0.001	APHA 3112 B, 2005
Manganese as Mn	mg/l	<0.001	APHA 3120 B, 2005
Tin as Sn	mg/l	<0.004	In-house method (ESL/L/W-08) based on: APHA 3120 B, 2005
Phosphate as PO <sub>4</sub>	mg/l	<0.1	APHA 4500-P D,2005
Nitrate as NO <sub>3</sub>	mg/l	0.1	APHA 4500-NO <sub>3</sub> <sup>-</sup> B, 2005
Nitrite as NO <sub>2</sub>	mg/l	<0.1	APHA 4500-NO <sub>2</sub> <sup>-</sup> B, 2005
Chromium Trivalent as Cr <sup>3+</sup>	mg/l	<0.01	In-house method(ESL/L/W-01) based on APHA 3120 B, 2005&APHA 3500-Cr B, 2005 (Calculation)
Biochemical Oxygen Demand @ 5 days at 20 °C (tested on 26/02/2021)	mg/l	<2	} APHA 5210 B, 2005& } APHA 4500-O G, 2005
Chemical Oxygen Demand (tested on 26/02/2021)	mg/l	26	APHA 5220 B, 2005

Continue...





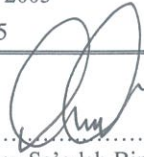
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**Registration No.** : L-KL-BQ2102NGE-0398 Page: 20 of 34  
**Customer** : Golden Ecosystem Sdn. Bhd.  
**Project** : The Proposed Oil Palm and Coconut Palm Plantation at Lots PTD 4882, PTD 4085, PTD 4963, PTD 4118, PTD 4177 and PTD 4121 (3775.34 ha) Mukim Padang Endau, Daerah Mersing, Johor Darul Takzim.

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Parameters	Units	Results	Methods Used
		W9	
Feacal Coliform	Count/100ml	1	APHA 9222 D, 2005
Potassium as K	mg/l	0.36	APHA 3120 B, 2005
Total Dissolved Solids	mg/l	22	APHA 2540 C, 2005
Aldrin / Dieldrin	µg/l	<0.01	APHA 6630C, 2005
BHC	µg/l	<0.01	APHA 6630C, 2005
*Chlordane	µg/l	<1	APHA 6630C, 2005
t-DDT	µg/l	<0.01	APHA 6630 C, 2005
Endosulfan	µg/l	<0.01	APHA 6630 C, 2005
Heptachlor / Epoxide	µg/l	<0.01	APHA 6630 C, 2005
Lindane	µg/l	<0.01	APHA 6630 C, 2005
Total Coliform	Count/100ml	1000	APHA 9222 B, 2005
<i>E.Coli</i>	Count/100ml	1	APHA 9222 G, 2005
Color	TCU	30	APHA 2120 B, 2005
*Chloride as Cl	mg/l	5.0	ASTM D512, 1981
Hardness as CaCO <sub>3</sub>	mg/l	12	APHA 2340 B, 2005
Sulphate as SO <sub>4</sub>	mg/l	<1	APHA 4500-SO <sub>4</sub> <sup>2-</sup> E, 2005
Phenol	mg/l	<0.001	APHA 5530 B&C, 2005
Selenium as Se	mg/l	<0.01	APHA 3120 B, 2005
Cyanide as CN	mg/l	<0.02	APHA 4500-CN <sup>-</sup> F, 2005
Zinc as Zn	mg/l	<0.005	APHA 3120 B, 2005

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Kok Yin Yean  
MMIC M/3299/6133/2011  
(Chemist)

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Ummu Sa'odah Binti Md. Shah  
MJMM 0806  
(Microbiologist)

**Notes:**

1. The results relate only to the items tested submitted by the customer.
2. APHA means Standard Methods for Examination of Water and Wastewater by APHA, AWWA and WEF.
3. NTU means Nephelometric Turbidity Unit
4. "<" means 'less than the minimum detectable limit' or 'not detected'.
5. (\*) means not SAMM Accredited.
6. ASTM means Annual Book of ASTM Standards by American Society for Testing and Materials.
7. TCU means True Color Unit.

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