

ANNEX VIII-3

FIELD VERIFICATION FOR LANDFORM/GEOMORPHOLOGY INTERPRETATION IN THE REGION OF EASTERN MEKONG RIVER

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1. Introduction

(1) Location

Field check has been done in many regions along national road No.7 and Samlinh road including Sampovloun, Snuol, Keoseima and Changkrang.

(2) Team Member

Table 1-1

Team Member

1. Meng Saktheara	Chief of Mission
2. Toch Sophon	Member
3. Nuon Chamnes	Member
4. Bin Yoy	Member
5. Yos Samuth	Member
6. Im Sim	Member

(3) Duration

From March, 27,2002 to April, 01,2002.

(4) Transportation

Pajero 2400 4D Vehicle.

2. Objective

- Compare and confirm to images interpretation
- Check strange patterns and non-clear areas
- Take samples for later use in interpretation of other areas

3. Activity Itinary

- 1st day: Departure from Phnom Penh to Snuol and communicate with local authority to inform and ask for permission to work around the region.
- 2nd day: Check points along a connection road between Snuol and Sampovloun
- 3rd day: Check from along a connection road between Snuol To Keoseima
- 4th day: Check from along a connection road between Snuol to Kraches
- 5th day: Check from along a connection road between Kraches to Changkrang
- 6th day: Back to Phnom Penh

4. Result

In the mission we have checked in total 40 observation points. The results and discoveries from the survey are given in the summary table and cross sections supported by photos of the visited sites in the annex 1 of this report.

5. V- CONCLUSION

After checking field we have reached the following conclusions:

- The interpretation that had been done is not accurate 100% field check have confirmed some interpretation elements and permitted to correction of
- mis-interpretation results.
- In the mission we checked only one part of Eastern Mekong River areas because of budget constrains. This part is not presented for whole phase II areas
- From the mission we have learned a lot about key pattern of photo-interpretation new pattern. This experience will help to increase the accuracy of our interpretation in future.

6. ANNEX

6.1. Summary of Observation Result

Table 6-1 Summary of observation result

OBS. No.	UTM	INTERPRE-TATION	FIELD SURVEY	PIC	CONCL.	REMARK
1	-578536 -1312430	Lb	Sandy clay Silty clay	1	Fp	Cross section 1
2	-634770 -1313043	Pi	A boundary between red soil of Pi & Pd	-	Pd in north and Pi in south	Correction will be made by re drawing a boundary
3	-635216 -1315071	Pi	Laterite was found locally on top of the residual soil	2	Pd	The underneath materials are likely a product of colluviated deposition with fragment of gold bearing quartz and granodiorite

OBS. No.	UTM	INTERPRE-TATION	FIELD SURVEY	PIC	CONCL.	REMARK
4	-633784 -1317563	Pl	Pd: the surface materials are Sandy clay and original rock structure was found remained in some places	-	Pd	The surface materials are predominant by the residual or short distant transported materials
5	-No	Pl	Pd: the surface materials are Sandy clay and original rock structure was found remained in some places	-	Pd	-
6	-650874 -1327649	Pl	Laterite large extension soil on top of residual soil	-	Pl	-
7	-684382 -1342115	Pl	Laterite large extension soil on top of residual soil	-	Pl	-
8	-710518 -1342511	Pi	Thin forested soil on top of rock or large rock boulder	-	Rx	-
9	-708268 -1341552	Pi	Clay soil or forested cover over shale D-C	3	Pd	-
10	-707260 -1340687	Pi	Pd: the surface materials are Sandy clay and original rock structure was found remained in some places	4	Pd	-
11	-698712 -1338514	Pl	Thin forested soil cover over large extended laterite	5	Pl	Cross section 2
12	-695008 -1339617	Lb	Black soil with locally white clay deposits	6	Lb	-
13	-678360 -1340143	Pl	Large extend of lateritic soil with locally covered by tuff	7	Pl	-
14	-672519 -1339805	Pl	Large extend of lateritic soil with locally covered by tuff	7	Pl	-

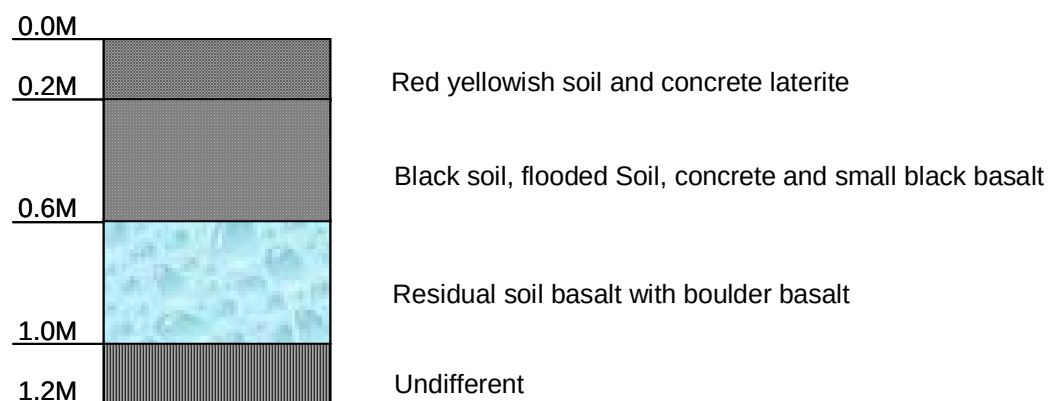
OBS. No.	UTM	INTERPRE-TATION	FIELD SURVEY	PIC	CONCL.	REMARK
15	-668534 -1338005	Pl	Laterite	8	Pl	-
16	-664145 -1335910	Pl	Laterite	9	Pl	Cross section 3
17	-657544 -1349485	Ta	Forest soil and red yellowish laterite cover over rock or rock boulders	10	Pd	Cross section 4
18	-613946 -1388543	Pd	Residual soil gray soil with rock boulder found underneath	11	Pd	-
19	-614016 -1388574	Rx	Rock out crop	12	Rx	-
20	-618015 -1391037	Rx	Residual soil of gray shale	13 14	Rx	-
21	-611960 -1387789	Fp	Residual soil	15	Pd	-
22	-609826 -1386734	Fp	Residual and rock out crop	16	Pd	-
23	-614371 -1381532	Rx	Cultivated soil and colluvial soil cover over rock basement	17	Pd	Cross section 5
24	-623836 -1380566	Rx	Thin residual soil over shale rock or shale boulder of sanstone	18	Rx	-
25	-623940 -1380556	Rx	Shale and sanstone	-	Rx	-
26	-623917 -1380413	Rx	Boulder of sanstone	19	Rx	-
27	-623425 -1380090	Pd	Residual soil	-	Rx	-
28	-621006 -1380098	Pd	Rock boulder and rock outcrops	-	Rx	-

OBS. No.	UTM	INTERPRE-TATION	FIELD SURVEY	PIC	CONCL.	REMARK
29	-619299 -1380323	Pd	App.boundary D-C & T-C	-	Rx	-
30	-632180 -1375780	Pd	Residual soil and short distant transported materials cover over shale formation shale	-	Pd	Cross section 6
31	-637429 -1364714	Pd	Shale and clay soil over rock boulder	-	Pd	-
32	-646858 -1358975	Ta	Rock out crop founded the bottom of the river	-	Pd	-
33	-649552 -1359708	Pd	Residual soil and lateritic soil	-	Pd	Cross section 7
34	-656109 -1351456	Ta	Forested soil cover over rock	-	Pd	-
35	-656521 -1350823	Ta	Forested soil cover over rock	-	Pd	-
36	-No	Ta	Forested soil cover over rock	-	Pd	-
37	-657073 -1342074	Ta	Forested soil cover over rock	-	Pd	-
38	-660686 -1331538	Pi	Laterite of materials from residual soil and transported soil	-	Pl	-
39	-633963 -1319174	Pl	Laterite of materials from residual soil and transported soil	-	Pl	-
40	-600917 -1344898	Pl	Laterite of materials from residual soil and transported soil	-	Pl	-

6.2. Cross Section

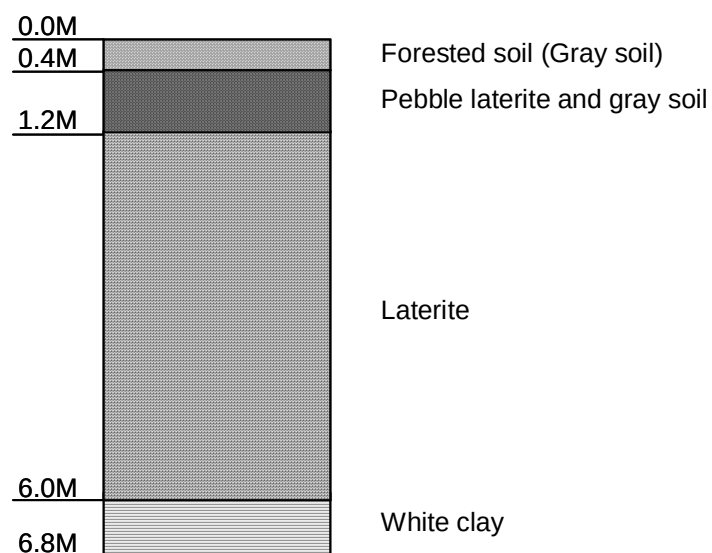
(1) Cross Section - 1

Figure 6-1 OBSERVATION-1, X=578536, Y=1312430



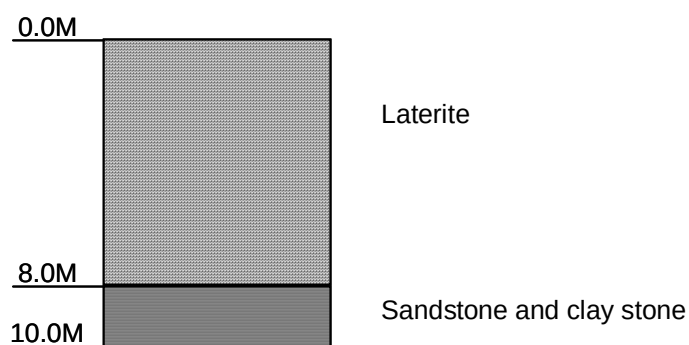
(2) CROSS SECTION-2

Figure 6-2 OBSERVATION-11, X=698712, Y=1338514



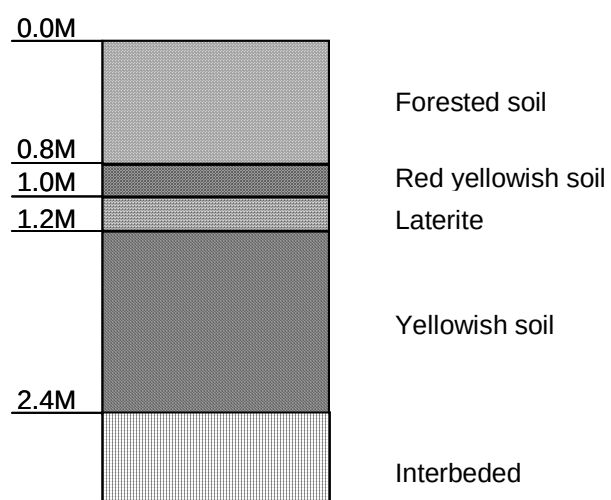
(3) CROSS SECTION-3

Figure 6-3 OBSERVATION-16, X=664145, Y=1335910



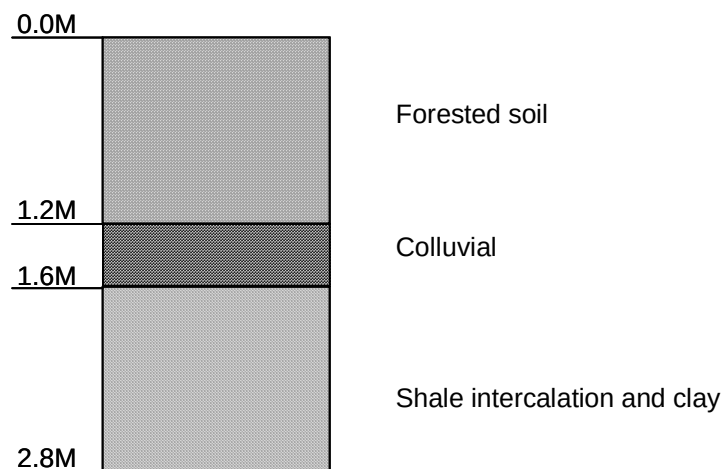
(4) CROSS SECTION-4

Figure 6-4 OBSERVATION-17, X=657544, Y=1349485



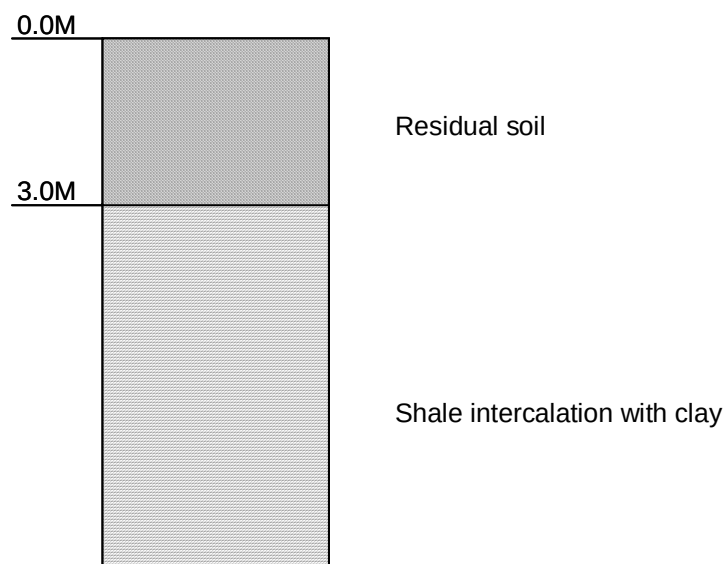
(5) CROSS SECTION-5

Figure 6-5 OBSERVATION-23, X=614371, Y=1381532



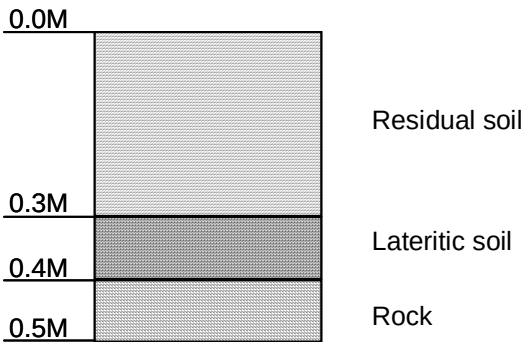
(6) CROSS SECTION-6

Figure 6-6 OBSERVATION-30, X=632180, Y=1375780



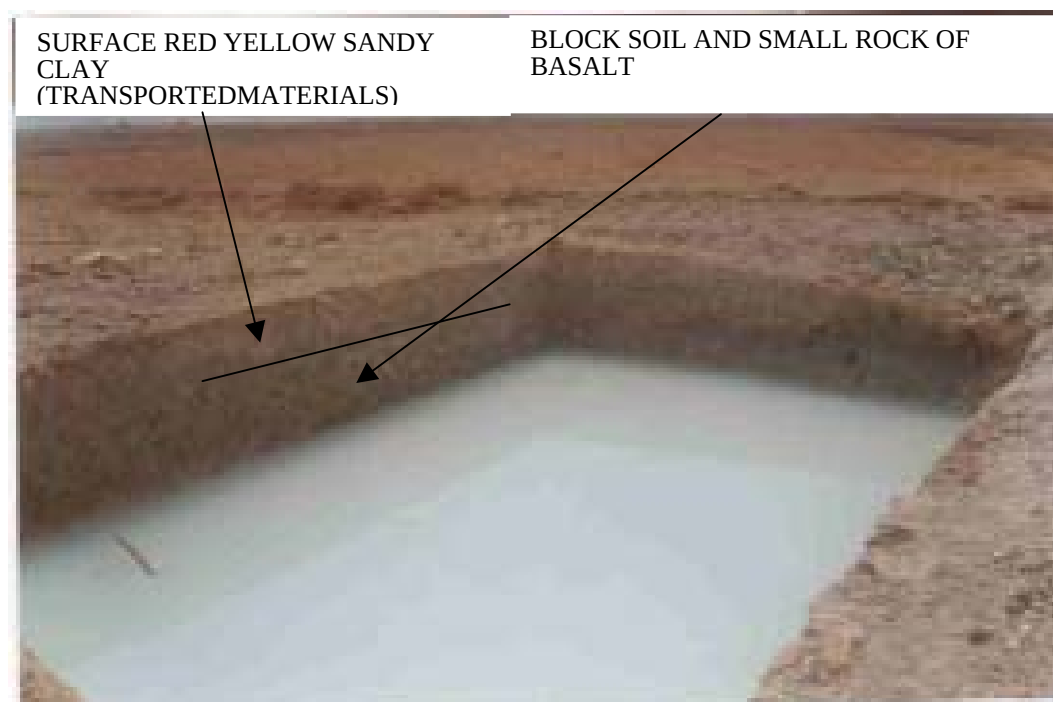
(7) CROSS SECTION-7

Figure 6-7 OBSERVATION-33, X=649552, Y=1359708



6.3. Photo Survey

Picture 6-1 **Surface Red Yellow Sandy Clay, Block Soil and Small Rock of Basalt**



Picture 6-2 Pit for Gold Mining Clay Materials with Rock Fragment Borrowed From

PIT FOR GOLD MINING CLAY MATERIALS WITH ROCK FRAGMENT BORROWED FROM
SUBSURFACE



LATERITE WAS FOUND ON TOP LAYER



Picture 6-3 Shale And Clay Formation Of D-C Age



Picture 6-4 Sandy Clay Materials Resulted From Surface Alteration And Transported



Picture 6-5 Penneplain Laterite Area 1



Picture 6-6 **Penneplain Laterite**



Picture 6-7 **Mud and Clay (Black Soil) Cover Laterite**



Picture 6-8 Tuff Like Formation



Picture 6-9 Laterite with Tuff Materials



Picture 6-10 Red Soil and Laterite 1



Picture 6-11 Red Soil and Laterite 2



Picture 6-12 Laterite Leaching Clay Shale And Clay Of Probably D-C Formation



Picture 6-13 Residual Soil On Top Of Interbed Sedimentary Rock of Probably Red Terrain Formation



Picture 6-14 Residual Soil Gray Shale of D-C Age



Picture 6-15 **Out Crop of Sandstone Microbrieccia**



Picture 6-16 Rock Out Crop Observation



Picture 6-17 Residual Soil and Gray Shale



Picture 6-18 Residual Soil on Top of Shale D-C Formation



Picture 6-19 The surface materials are very muddy in rainy season while dusty in dry season.



Picture 6-20 Residual Soil on Top of Shale and Clay Formation of D-C Age



Picture 6-21 Cultivated Soil, Colluvial Soil, Interbed Sedimentary Rock (Shale and Clay with Intercalation of Brown, Gray and Gray Yellowish Facies)Cul



Picture 6-22 Cultivated Soil,Colluvial Soil, Interbed Sedimentary Rock (Shale And Clay)



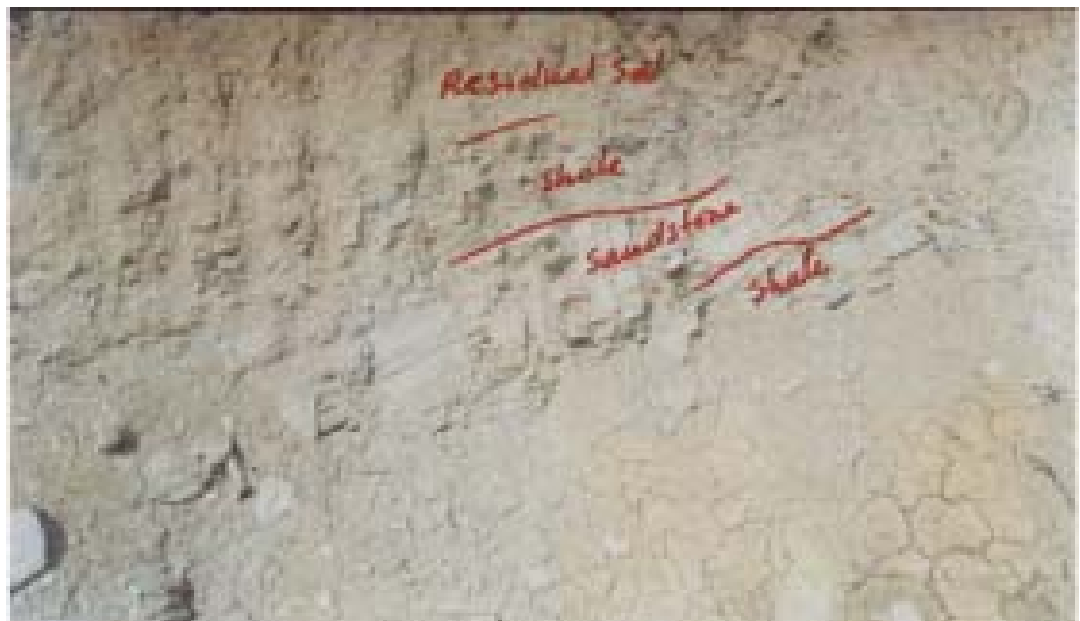
Picture 6-23 Cray Rock



Picture 6-24 Residual Soil, Interbed Sedimentary Rock (Shale and Sandstone of Probably D-C Age)



Picture 6-25 Residual Soil, Shale Sandstone, Shale



Picture 6-26 Inselberg of Sandstone Microbreccia of Traiassic Found on Top of D-C Formation



Picture 6-27 Block Boulders of Traissic Sandstone of Top of D-C Formation



6.4. Road Map Sheet

- Map sheet 6232 I,IV (1:100 000)
- Observation from Memot (Road No 7) across Sampov Loun to Samlinh Road
- point KM57.

- Map sheet 6333 II,III (1:100 000)
- Observation along Road No.7 (Samlinh Road) from Snuol to Keo Seima and
- from Keo Seima to Snuol.

- Map sheet 6233 I,II,IV (1:100 000)
- Observation along Road NO.7 from Snuol to Kraches and from Kraches to
- Snuol.

- Map sheet 6234 III (1:100 000)
- Observation from Kraches to Chang Krang.