

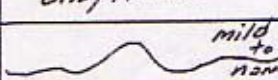
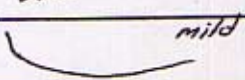
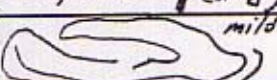
HAIR EXAMINATION
STEREO MICROSCOPE

Characterization and dev. of R.O.V.
For evid.

Case # CV-02-10941-06

Analyst R. OSWALT

(R.O.V.) Date 2/21/03

Characteristic	Item # 144A (2 fragments) Frag #1	Item # 144A Frag #2 of 2	Item # 26A ~200+ hairs/frags.	Item # 26B ~100-150+ hairs/frags/Fr
Source	HAIRS/FIBERS FROM PLIERS (w/ adhered other matter)	" "	Hairs/Frags./Fibers From Blk/Blue hair brush	Hair/Frags and other fibers from wood hair brush
Color	brn./lt. brn.	brn.	brn./lt. brn. (no abrupt color chg)	brn./lt. brn. (no abrupt color chg)
Curl	 mild to none	 mild	 mild	 mild
Diameter	med.	med	fine to med.	fine to med.
Length	~ 4 3/8 in.	~ 1 5/8 in.	~ 1 to 9/2 in (5 to 8 1/2)	~
Color variation (P)	brn	brn. (darker than Frag #1)	dk. brn./brn./lt. brn./blond very lt. brn	one black/dk. brn/brn/lt. brn/lt.
(M)	brn → lt. brn	lt. brn (")	" " " "	" " " "
(D)	lt. brn	lt. brn (")	brn/lt. brn/ blond very lt. brn	" " " "
Buckling	none obsvd	none obsvd	none obsvd.	none obsvd on hairs
Indicated body area	Human - HEAD	Human - HEAD	Human - Head	1° → Human - HEAD Few appear to be non-hair fibers and/or non-human
Cross-section	round/oval	round/oval	round/oval	round/oval (com 20)
Ends (P)	Jagged cut or torn/broken	appears mashed, splayed, frayed	majority (~95-97%) catagen/telogen Few anagen or cut	1° catagen/telogen Few cut
(D)	appears mashed, splayed and frayed	cleanly cut	cut (P) / some taper to tip	1° cut / some taper to tip
Damage	mashed (D) end mashed shaft in one spot	mashed (P) end	few shafts bent, otherwise no damage obsvd.	some shafts bent, otherwise none obsvd.
Trace	~ 1/2 in. pc. of plant material - had small spines/spicula along several edges	~ 1/2 in. pc. of 1° translucent matter w/ accreted, miss. fibers and mineral-like pcs.	Some ctk. to off-whit. encrustation on shaft Few non-hair fibers in w/ hairs/frags.	numerous/variety non-hair fibers of diff. colors and sizes Some ctk. to off-whit. encrustation on shafts Several non-human animal hairs
	Trace removed and placed in separate bundle pkg. Some ctk./off-whit. encrustation	Trace removed and placed in separate bundle pkg. Some ctk./off-whit. encrustation		Significantly more non-hair fibers and non-human hairs on brush than 26A brush
Conclusion		color darker than Frag #1		