

0LFURRUJDQLVP VHOHFWLRQ

7KH PLFURRUJDQLVP XVHG IRU ELRVRUSWLRQ VWXG\ ZDV \$VSHUJLOOXV
QLJHU 07&& 12 ZKLFK ZDV LQLWLDOO\ FXOWXUHG LQ 3'\$ 3RWDWR
'H[WURVH \$JDU PHGLD 7KH IXQJXV ZDV JURZQ DV VXVSHQVLRQ FXOWXUH WR
REWDLQ IXQJDO PDW

)XQJDO PDW SUHSDUDWLRQ

7KH VXVSHQVLRQ FXOWXUH ZDV DXWRFODYHG DQG WKH PDW ZDV VHSDUDWHG
E\ ILOWUDWLRQ SURFHVV 7KH PDW REWDLQHG ZDV ZDVKHG ZLWK DPSOH
DPRXQW RI GLVWLOO ZDWHU DQG SUHWUHDWPHQW ZDV FDUULHG RXW XVLQJ
1D2+ DQG ERLOHG IRU PLQ 7KH DONDOL WUHDWHG PDW ZDV FOHDQVHG ZLWK
GLVWLOO ZDWHU DQG GULHG LQ D KRW DLU RYHQ 7KH GULHG ELRPDVV ZDV
SRZGHUHG XVLQJ D PRUWDU DQG SHVWOH DQG VWRUHG IRU ELRVRUSWLRQ VWXGL



6 1R &RQVWLWXHQWV 8QWUHDWHG ~~FUEBWHG~~ HIIOXHQW
&RORU LQWHQVLW\ RI HIIOXHQW

FRPPHUFLDOLJHG EDVHG RQ WKH UHTXLUH ~~PHWDO~~ MORII WKH FWB [WDOFKXQW W5 DQGE IFO
EH LPSOHPHQWHG IRU WKH XUEDQ DUHDV ~~PHWDO~~ RUZLDORQH R ~~PHWDO~~ KURXJK FRQW
HIOXHQW WUHDWPHQW FRPSOLFDWLRQV ~~PHWDO~~ SURFHVVP HEDVHG WRHHWRYEPLW RI
HIOXHQW LQ DOO WKH SDUDPHWHUV ~~PHWDO~~ SURFHVVP QJFRPHQGDORIRVRUSWLR
DFFRPSOLVKPHQW IRU WRWDO HIOXHQW ~~PHWDO~~ WUHDWPHQW SROOXWHG HIOXHQW WUHDWPHQW
WKH VHDFK IRU DIIRUGDEOH DQG HIILFLHQW ~~PHWDO~~ WHEKQRORJ\ IRU WUHDWLQJ WKH
HIOXHQW KROGV D NH\ LQ GHWHUPLQLQJ ~~PHWDO~~ DURWFRVWFKHQJ\ W+DUGLO
LQGXVWULDO VHFWRUV DQG WKLV SUHVHQW ~~PHWDO~~ UHFROVWLWXWHG WHIWLQH HIOXHQW ESGL
HIOXHQW WUHDWPHQW ZLOO EH D SURGLJ ~~PHWDO~~ HRYLEBRQ IRU WKH WH[WLOH LQGXVWU
FRPPHUFLDOLJHG DQG XWLQJHG

0XNKRS DQKORXWR 65 0D[LPR &6 &RSSH
D FROXPQ RI SUHWUHDWHG \$VSHUJLOOXV

5HIHUUHQFHV

\$KPDG , \$QVDUL 0, \$TLO) %LRVRUSWLRQ ~~PHWDO~~ RQDPL , QM VQD . SA @ 00B0P ± gcx E8Y 8'D
PHWDO WROHUDQW \$VSHUJLOOXV QLJHU DQG 3HQLFLOOLXP VS XVLQJ VLQJOH DQG
PXOWL PHWDO VROXWLRQ ,QGLDQ - ([S %LRO
6DUDWDOH 5* /8 QPLHUH 2XWORRNDR 6DFWHULDO RI
D UHYLHZ ,QWHUQDWLRQDO -RXUQDO RI (QYLURQPHQWDO 5HVHDUFK DQG 3XEOLF
+HDOWK