

Date of Survey 20.2.90

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
1	MCL	10YR43	0-35	fdom; cdom, Common Mn from 25 cm	
	HCL	10YR44	35-45	cdom; Common Mn	
	C	10YR54	45-65	cdom 2% sst	
	C	7.5YR56	65-75		
			I	WC 1	
2	MCL	10YR43	0-30	cdom; Common Mn	
	HCL	10YR44	30-40	cdom; Common Mn	
	C	10YR54	40-80+	cdom 2% sst	
				WC 1	
3	MCL	10YR53	0-25	cdom; Common Mn	
	HCL	10YR54	25-40	cdom	
	C	10YR54	40-60	cdom	
	C	7.5YR56	60-90+	cdom WC 3	
4	MCL	10YR43	0-30	cdom; Common Mn	
	MCL	10YR54	30-40	cdom; Common Mn	
	HCL	10YR44	40-50	cdom	
	C	7.5YR56	50-70	cdom	
	C	10YR66	70-90+	cdom WC 1	
5	MCL	10YR52	0-35	cdom, water at 20 cm	Water logged surface
	HCL	2.5Y62	35-45	CDOM: Common Mn	drainage into stream
	C	2.5Y62	45-90+	cdom WC 4 SPL at 50 cm	impaired by high water level
6	MCL	10YR53	0-30	cdogm, water at 20 cm	as 5
	HCL	10YR53	30-40	cdogm, Common Mn	
	C	2.5Y72	40-80+	cdogm WC 4 SPL at 40 cm	
7	MCL	10YR54	0-20	2% vsst	16° slope
	HCL	10YR66	20-40+	5% vsst	
8	MCL	10YR43	0-25	2% vsst	16° slope
	HCL	10YR44	25-40+	2% vsst	
					8-8½° Slope
9	MCL	10YR43	0-35+	2% vsst; 5% vsst from 20 cm	



SOIL PROFILE DESCRIPTION

Date of Survey

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
10	MCL	10YR43	0-25	2% vsst	10½° Slope
	HCL	10YR54	25-40+	2% vsst	
11	Stream floodplain; almost non-agricultural; invaded by brambles and juncus and being colonised by scrub and individual trees; waterlogged surface with some standing water; river channel at bank-full capacity and stops local drainage; water fills auger hole and bubbles above surface; flood risk.				
	MZCL	10YR52	0-30	cdom	
	ZC	10YR62	30-50+	cdom; SPL; WC IV	
12	Similar location to 11 and similar non-agric problem; profile not yet in the top 40 cms at present, but Water Table from 40 cm; flood risk.				
	MZCL	10YR42	0-20		
	HCL	10YR53	20-40		
	River Gravel		I	WC III/IV	
13	MSZL	2.5Y52	0-20	cdom from surface	Stream floodplain;
	MCL	10YR52	20-40	cdom	Channel at bank-
	HCL	10YR64	40-80+	vmpom; WC III/IV	full; Restricted
					drainage; Flood
					risk; Standing
					water.
14	MCL	10YR52	0-30	cdom from surface	See 13
	C	2.5Y64	30-80+	cdom; almost SPL; 2% vsst;	
				abundant Mn and mottles from 60 cm	
				No WT in 80 cm	
15	MCL	10YR52	0-30	cdom from surface	See 13
	HZCL	10YR62	30-50	cdom	
	River Gravel		I	and Water Table	
				WC III/IV	

SITE NAME Truro Local Plan River Allen	PROFILE NUMBER 1	SLOPE AND ASPECT 4½° NE	LAND USE Grass	Av Rainfall :- 1072 ATO :- 1617 FC Days :- 211 Climatic grade:- 1	PARENT MARIAL Slate
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Horizon Number	Lowest Av Depth	Matrix and Ped Face Colours	Texture	Stoniness: Size, Shape, Type, and Field Method	Mottling Abundance, Contrast Size and Colour	Structure: Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and Form
1	25	10YR43	MCL	2% sst	None							None	
2	56	10YR44	HCL	2% sst	Weathering colours	Weakly developed MSAB	>5% .5 mm	Good	V Friable	Common roots through peds		None	
3	56+	2.5Y64	C	2% sst 10% vsst (weathered slate)	Weathering colours	Weakly developed (adherent) CSAB	<5% .5 mm	Moderate	V Firm	Roots through peds		None	
Pit dug to 90 cm, augered to 120 cm. Horizon 3 continues to this depth with % of weathered slate increasing													

Depth to Slowly Permeable Horizon :-	Available Water	Wheat :-	Final ALC Grade :- 2
		Potatoes :- Not limiting	
Wetness Class :- I	Moisture Deficit	Wheat :-	Main Limiting Factor(s) :- Workability
		Potatoes :-	
Wetness Grade :- 2	Moisture Balance	Wheat :-	
		Potatoes :-	
RPG0023/WJC	Droughtiness Grade	:-	Remarks :-