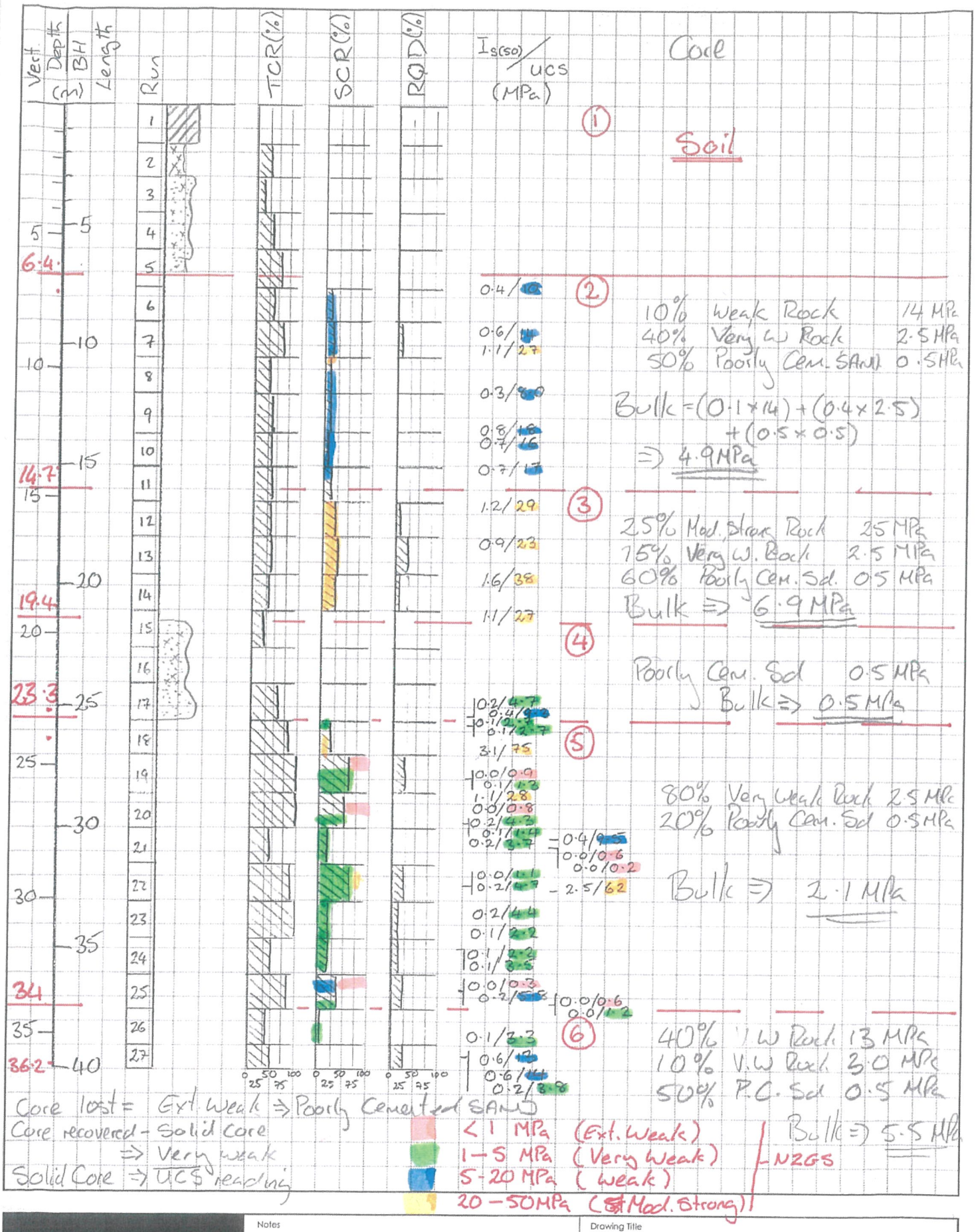
Appendix 4

Rock Strength Data



cheal

Notes	Drawing Title
	Drawing Number
Designed / Checked / Approved / Date / Scale	

Taupo T: +64 7 378 6405 | Level 1, 4 Horomatangi Street | PO Box 165, Taupo 3351

Point Load Test

Bayswater:- May Ave/Carlyle Street

Samples from BH1 (angle hole)

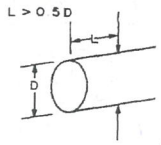
Depth (m)	Test Type	Dim. 1 (mm)	Dim. 2 (mm)	D_e^2 (mm^2)	Reading (lb)	Load (N)	I_s (MPa)	F	$I_{s(50)}$ (MPa)	UCS (MPa)
8.00	a	50	59.2	3769	348	1548	0.41	1.0	**0.41**	*10.06*
9.25	i	57	42	3048	386	1717	0.56	1.1	**0.60**	*14.64*
10.55	i	59	45	3380	788	3505	1.04	1.1	**1.12**	*27.37*
12.05	d	60		3600	242	1076	0.30	1.1	**0.32**	*7.95*
13.55	d	56		3136	506	2251	0.72	1.1	**0.76**	*18.50*
14.10	i	60	38	2903	400	1779	0.61	1.1	**0.67**	*16.30*
15.35	d	60		3600	518	2304	0.64	1.1	**0.69**	*17.02*
16.80	d	60		3600	900	4003	1.11	1.1	**1.21**	*29.57*
18.35	d	61		3721	718	3194	0.86	1.1	**0.94**	*23.00*
19.70	d	60		3600	1185	5271	1.46	1.1	**1.59**	*38.94*
21.10	i	44.5	57	3230	856	3808	1.18	0.9	**1.12**	*27.41*
25.50	d	51		2601	112	498	0.19	1.0	**0.19**	*4.73*
25.50	a	51	40	2597	220	979	0.38	1.0	**0.38**	*9.31*
25.75	d	62		3844	88	391	0.10	1.1	**0.11**	*2.75*
25.75	a	62	48	3789	42	187	0.05	1.1	**0.05**	*1.33*
26.85	d	60		3600	2300	10231	2.84	1.1	**3.08**	*75.58*
28.00	d	61		3721	28	125	0.03	1.1	**0.04**	*0.90*
28.00	d	61		3721	40	178	0.05	1.1	**0.05**	*1.28*
28.60	d	60		3600	856	3808	1.06	1.1	**1.15**	*28.13*
29.05	i	42	48.9	2615	20	89	0.03	0.9	**0.03**	*0.77*
29.80	d	60		3600	130	578	0.16	1.1	**0.17**	*4.27*
29.80	a	60	40	3056	35	156	0.05	1.1	**0.06**	*1.35*
30.20	a	56	64	4563	148	658	0.14	1.1	**0.15**	*3.72*
31.40	i	34	57	2468	512	2277	0.92	0.8	**0.78**	*19.01*
31.70	i	40	60	3056	294	1308	0.43	0.9	**0.39**	*9.48*
31.85	d	61		3721	20	89	0.02	1.1	**0.03**	*0.64*
31.85	a	44	61	3417	6	27	0.01	0.9	**0.01**	*0.18*
23.35	d	60		3600	32	142	0.04	1.1	**0.04**	*1.05*
23.35	a	33	60	2521	132	587	0.23	0.8	**0.19**	*4.73*
32.65	i	60	47	3591	1896	8434	2.35	1.1	**2.55**	*62.47*
33.25	i	60	49	3743	140	623	0.17	1.1	**0.18**	*4.42*
34.40	i	44	42	2353	50	222	0.09	0.9	**0.09**	*2.19*
35.00	d	61		3721	110	489	0.13	1.1	**0.14**	*3.52*
35.00	i	34	61	2641	62	276	0.10	0.8	**0.09**	*2.15*
36.85	d	61		3721	10	44	0.01	1.1	**0.01**	*0.32*
36.85	i	39	46	2284	136	605	0.26	0.9	**0.24**	*5.80*
37.30	i	51	59	3831	20	89	0.02	1.0	**0.02**	*0.57*
37.30	a	32	51	2078	28	125	0.06	0.8	**0.05**	*1.20*
38.90	d	61		3721	104	463	0.12	1.1	**0.14**	*3.33*
39.30	d	60		3600	422	1877	0.52	1.1	**0.57**	*13.87*
39.30	a	46	60	3514	490	2180	0.62	1.0	**0.60**	*14.64*
39.30	a	50	60	3820	132	587	0.15	1.0	**0.15**	*3.77*

Test Types
d = diametral
a = axial
b = block
i = irregular

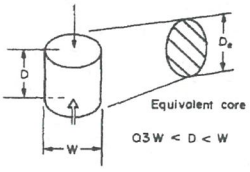
Dimension
1 = Distance between Contac
2 = Distance Purpendicular to load c

Conversion (lb to N: 4.44822

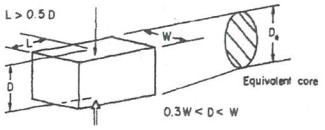
Diametral



Axial



Block or Irregular

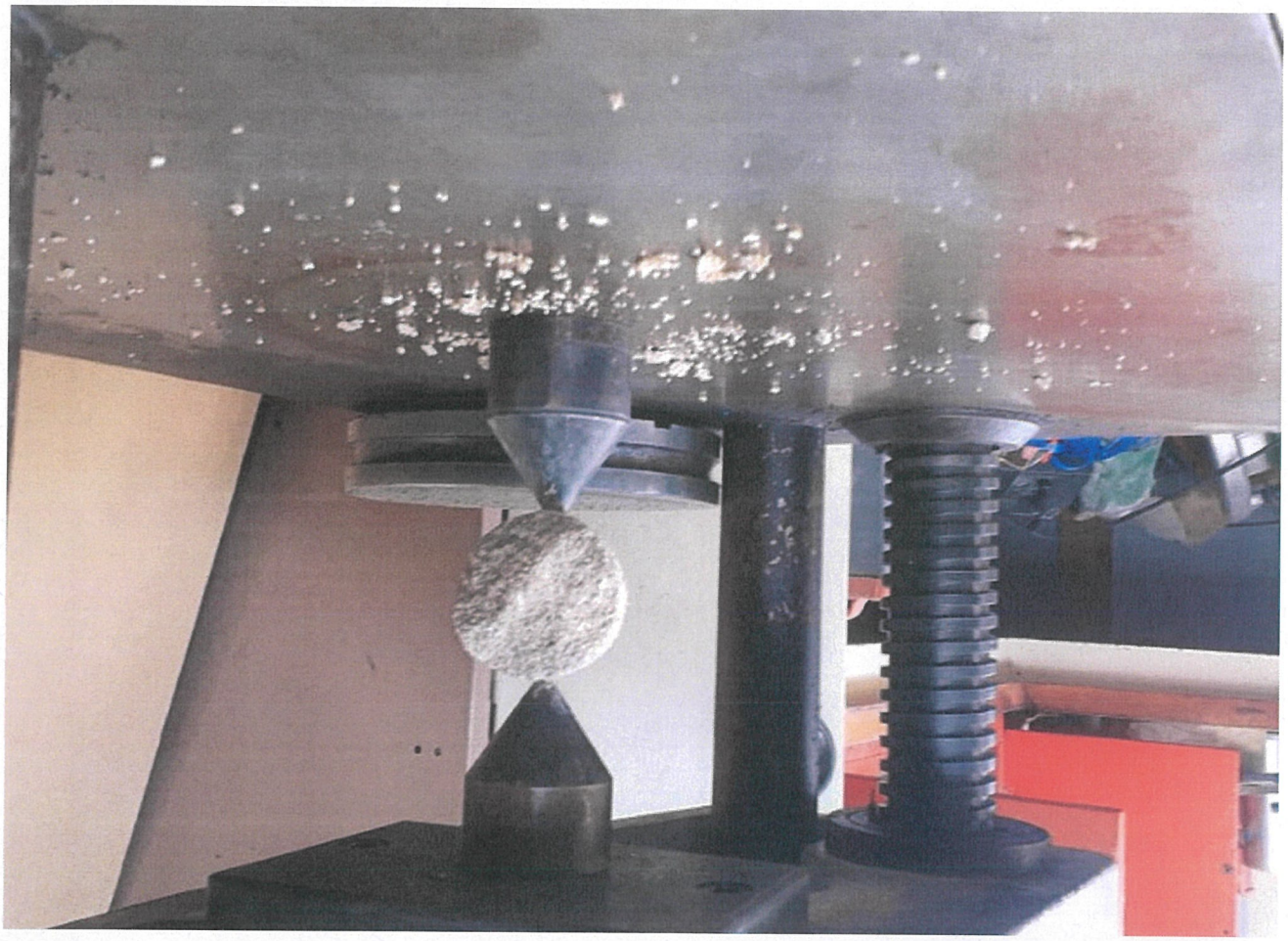


Grouping

>1MPa
1-5MPa
5-20MPa
>20MPA

Test Method: Std Method Point Load Strength Index of Rock (D 5731-95)

Core size	60mm
factor "C"	24.5

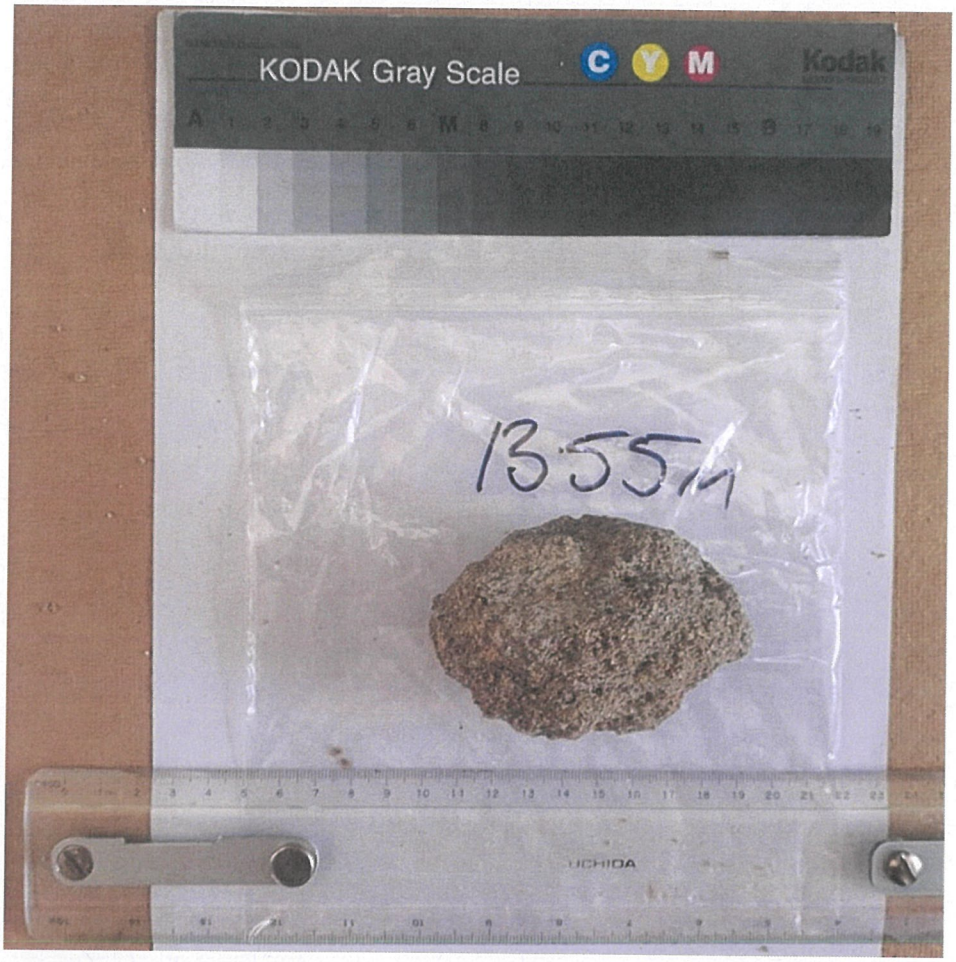


KODAK Gray Scale
C Y M
08.00M

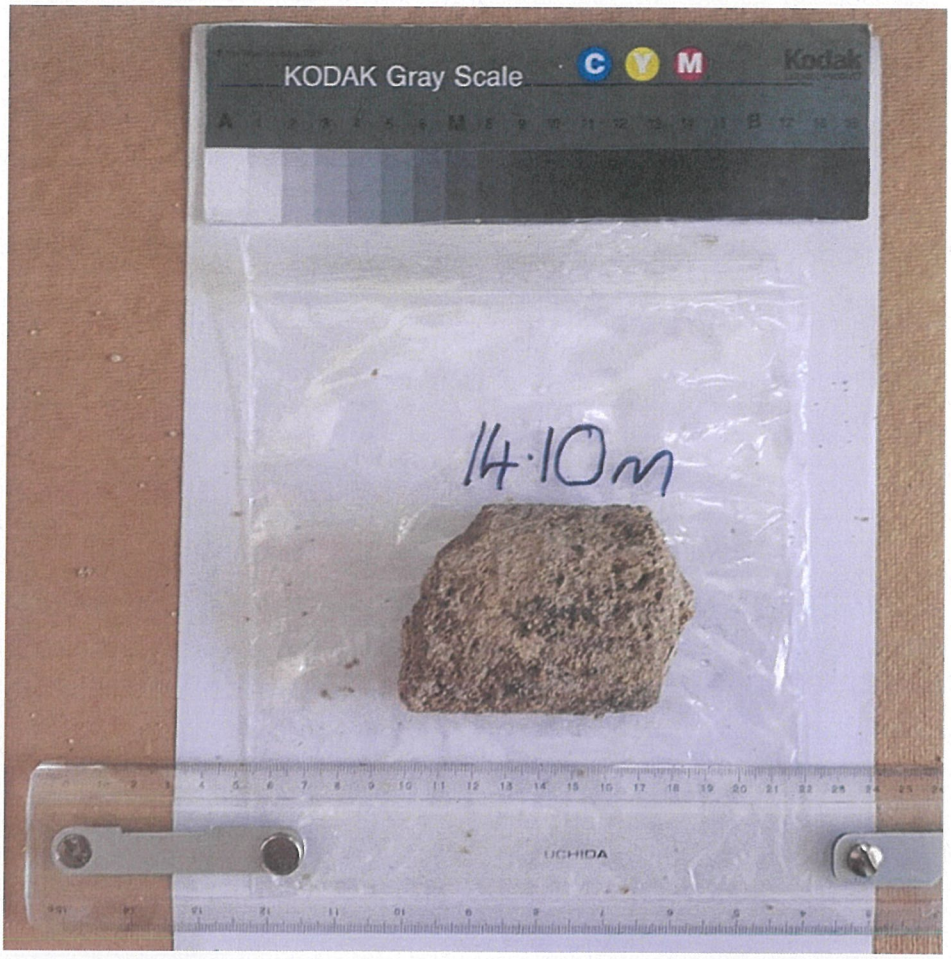
KODAK Gray Scale
C Y M
Kodak
09.25M

KODAK Gray Scale
Kodak
10·55M

KODAK Gray Scale
Kodak
12·05M


KODAK Gray Scale
Kodak
13·55m
UCHIDA

KODAK Gray Scale
Kodak
15·35m
UCHIDA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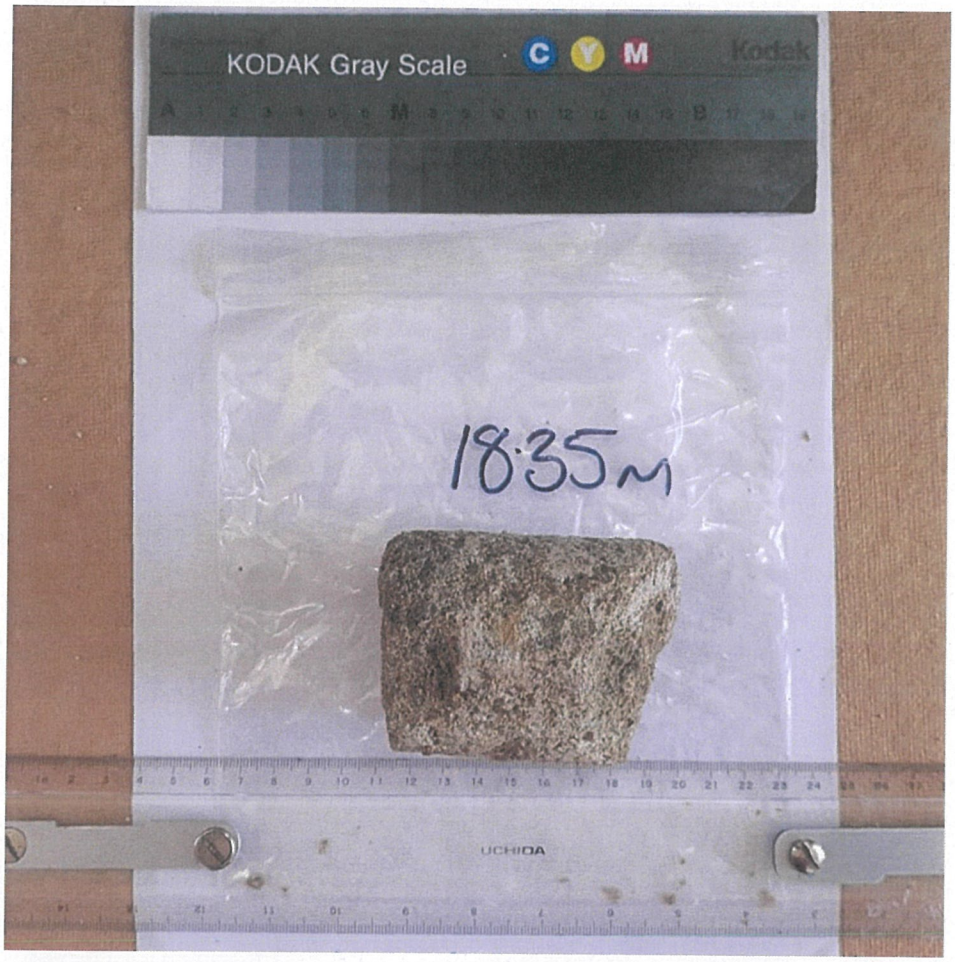
14·10m
UCHIDA

KODAK Gray Scale
Kodak
16·80m
UCHIDA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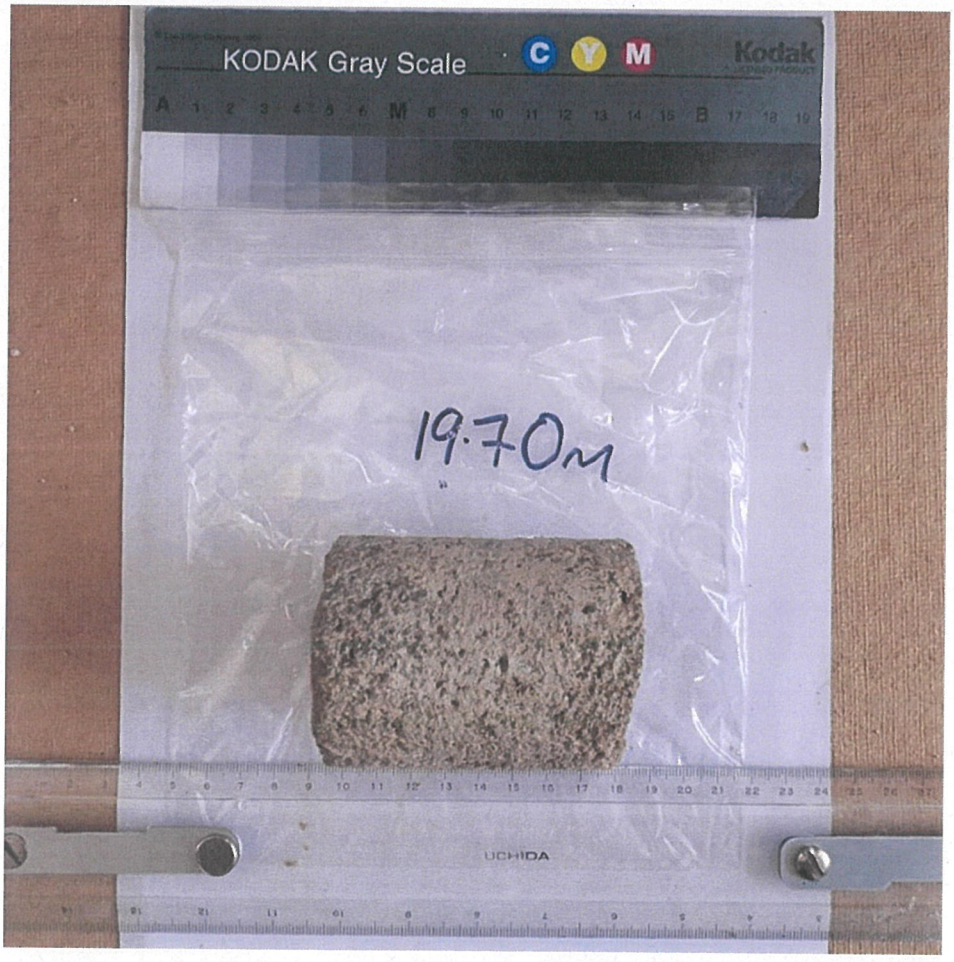
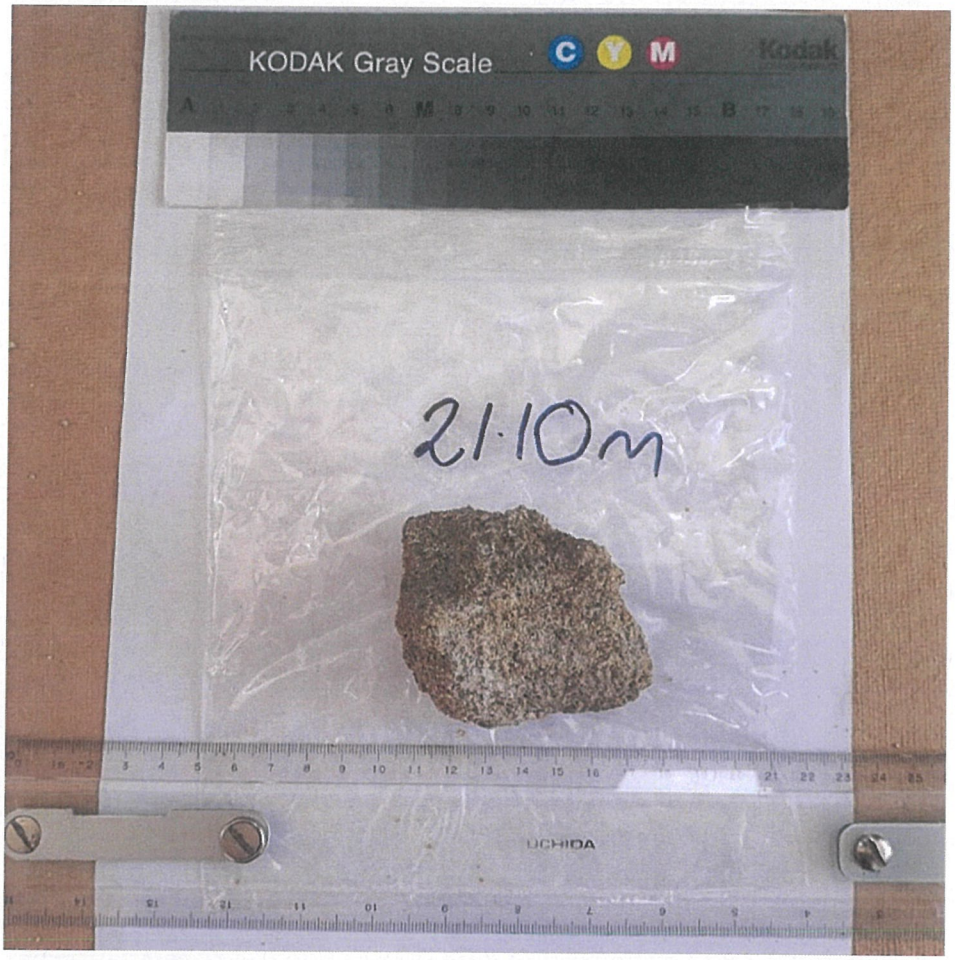
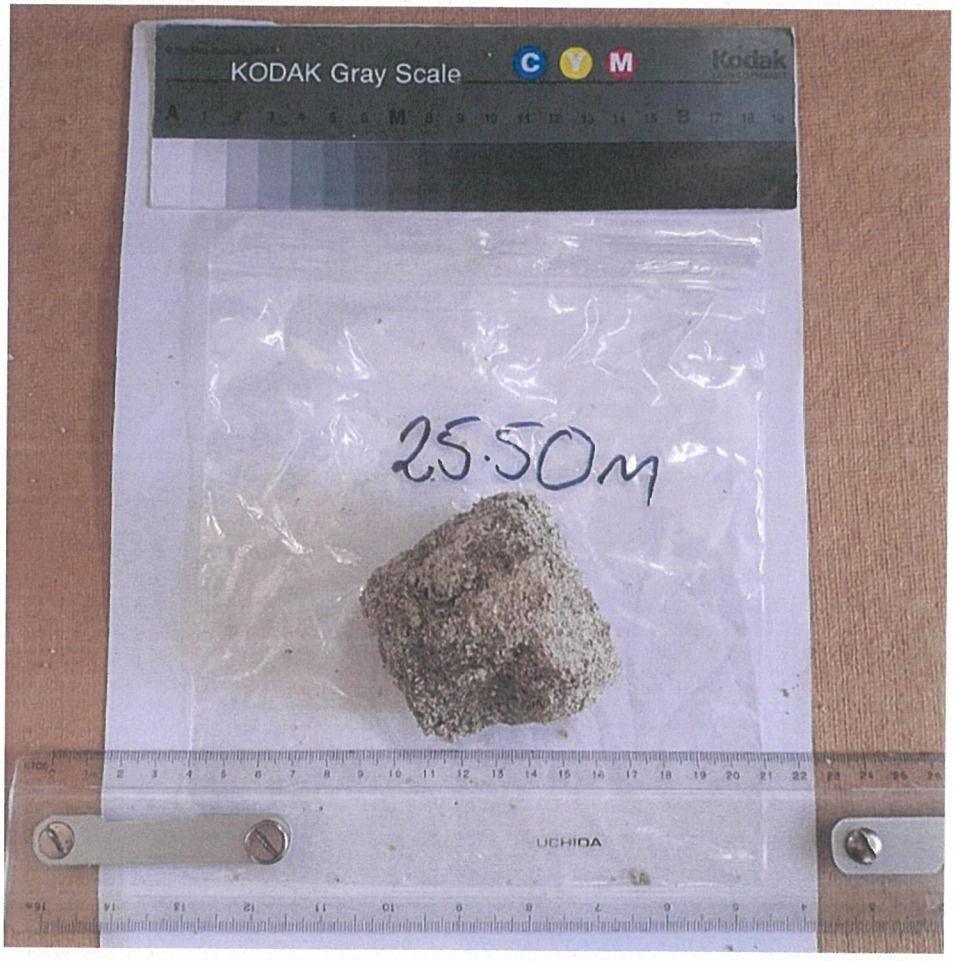
C Y M
Kodak
18.35M
UCHIDA


KODAK Gray Scale
C Y M
Kodak
19.70M
UCHIDA


KODAK Gray Scale
21.10m
UCHIDA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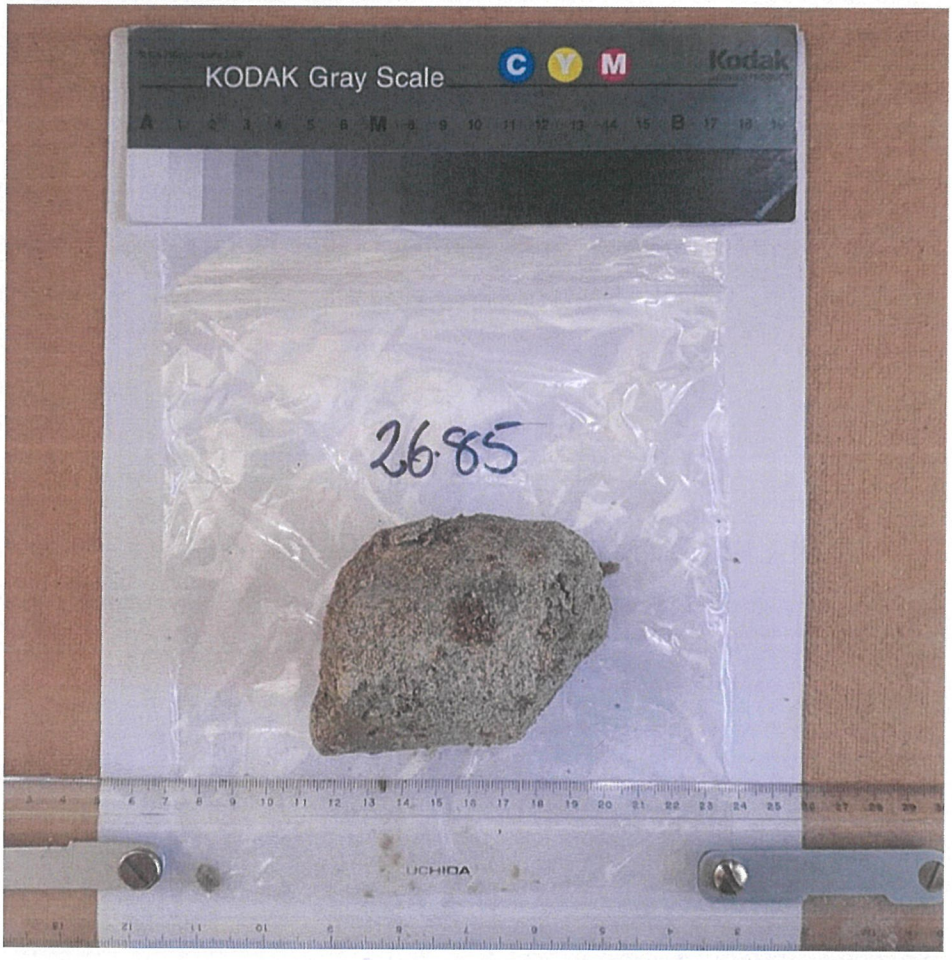
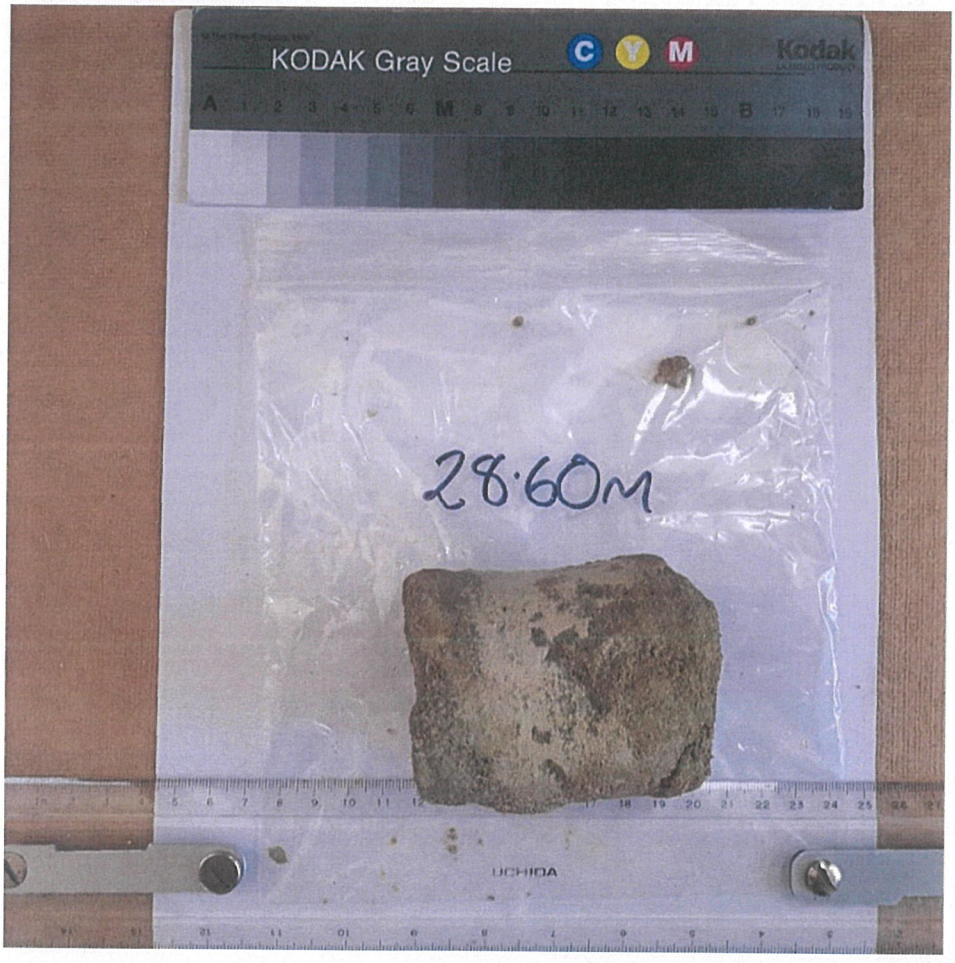
25.50m
UCHIDA

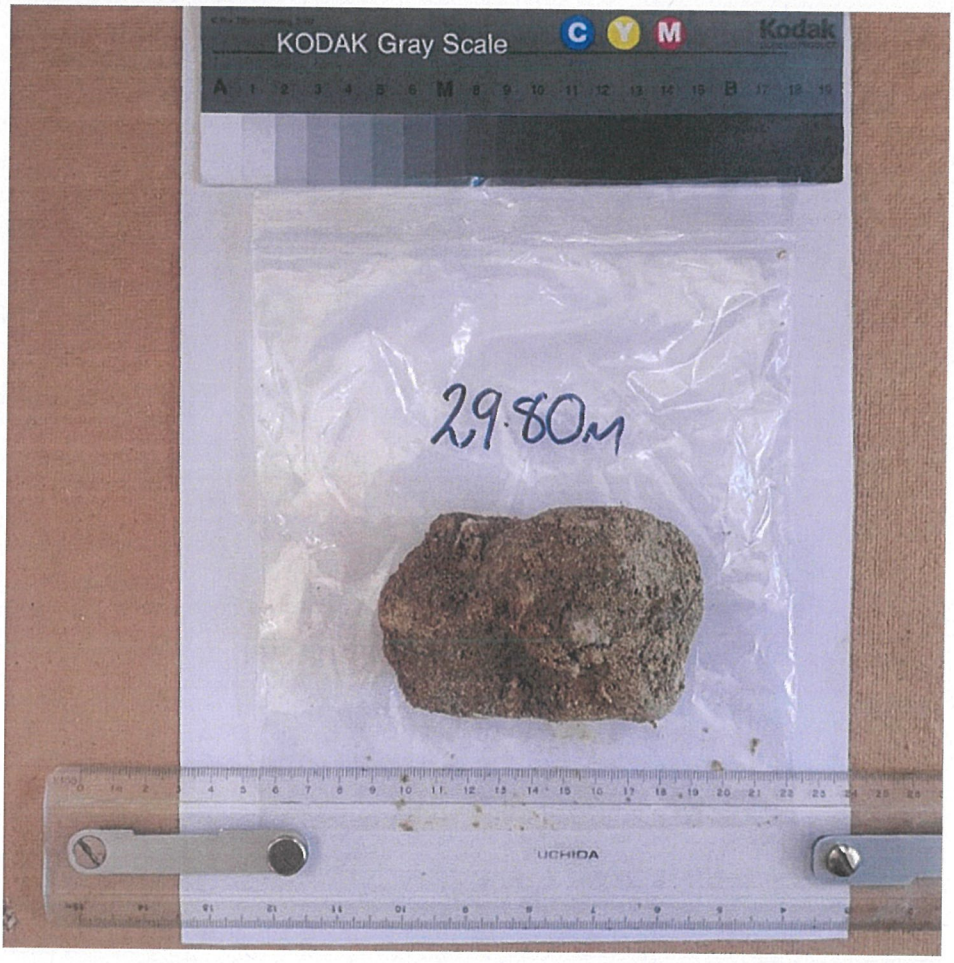
KODAK Gray Scale
Kodak
25.75M
UCHIDA


KODAK Gray Scale
Kodak
26.85
UCHIDA

KODAK Gray Scale
28·00M
UCHIDA


KODAK Gray Scale
28·60M
UCHIDA

KODAK Gray Scale
C Y M
Kodak
29.05m
UCHIDA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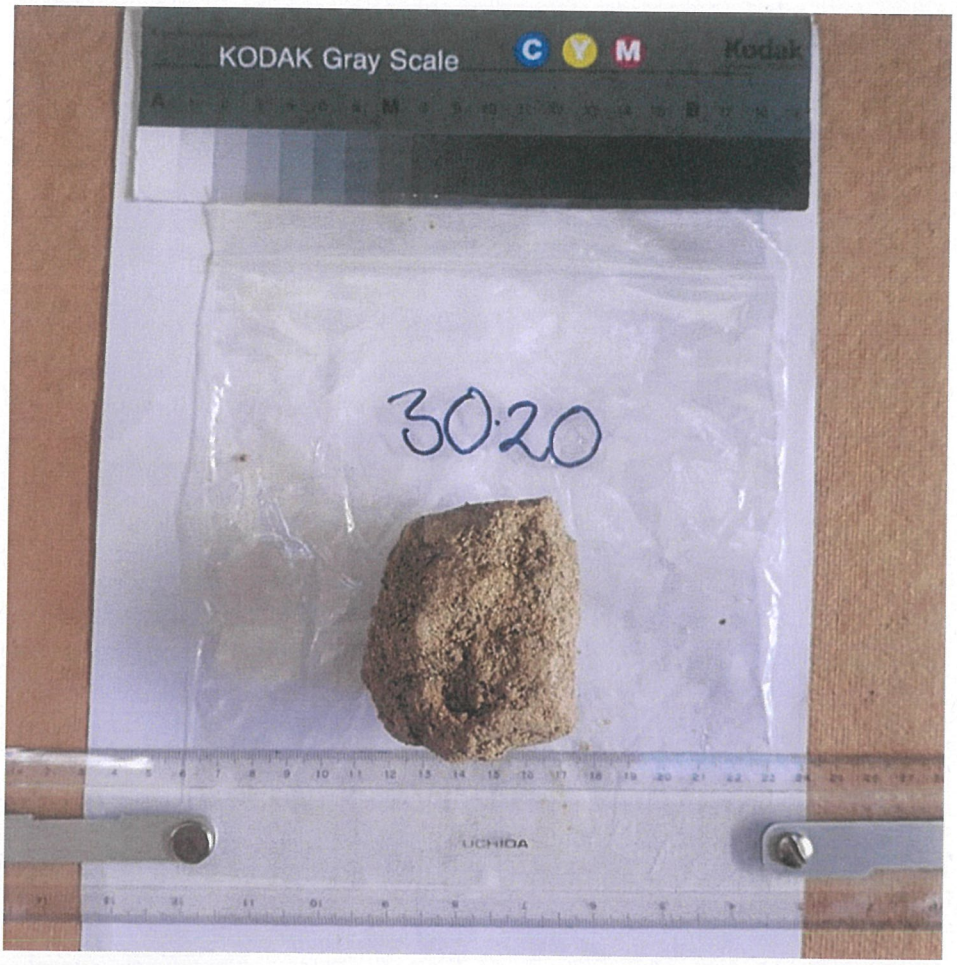
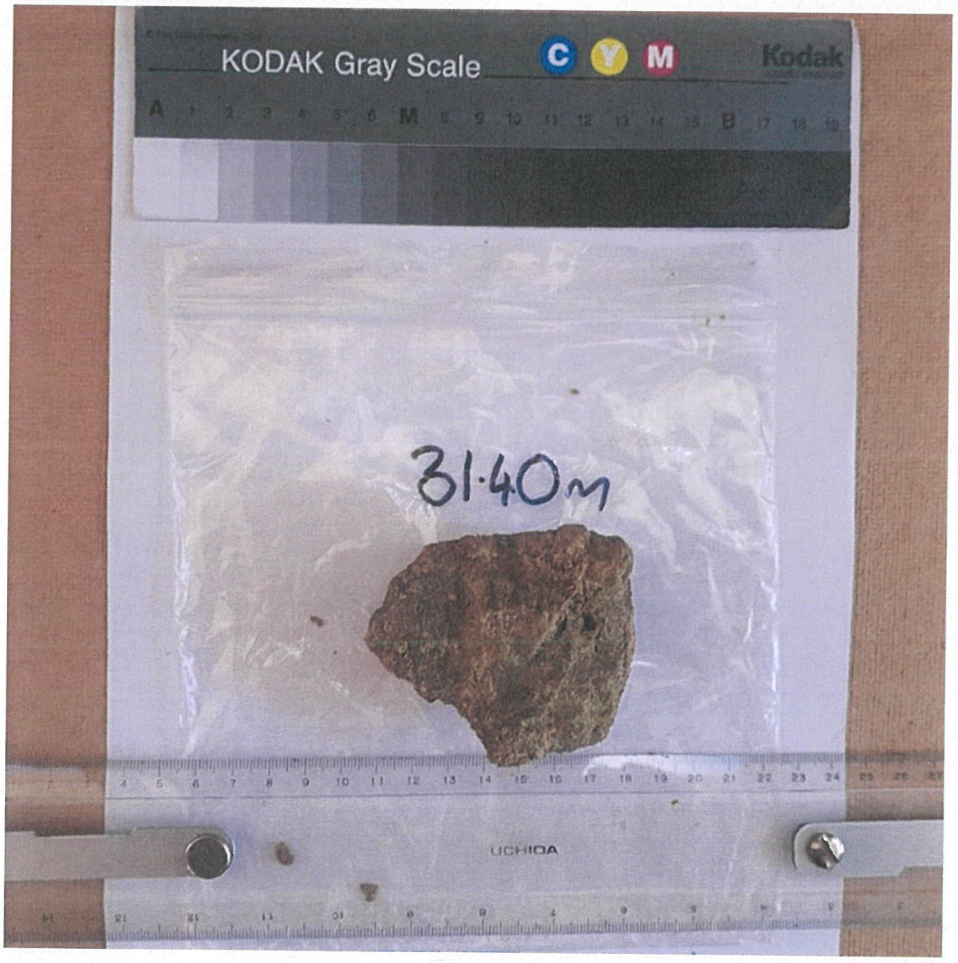
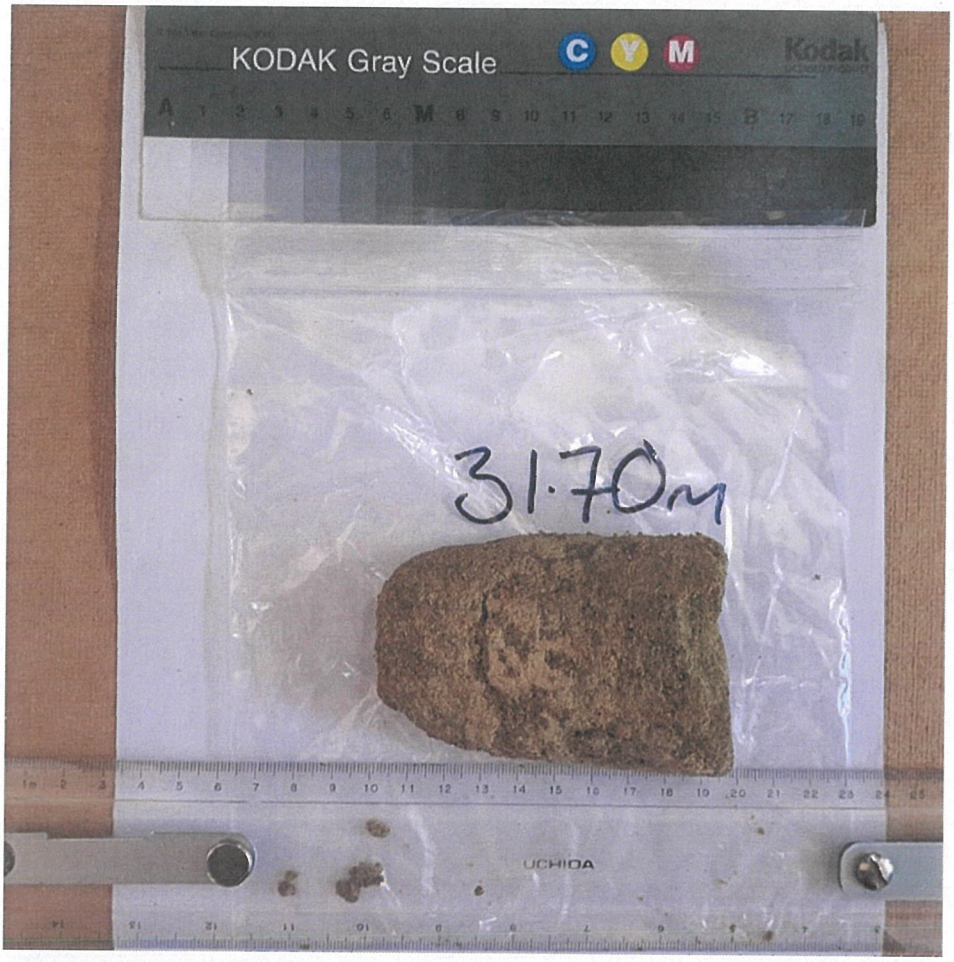
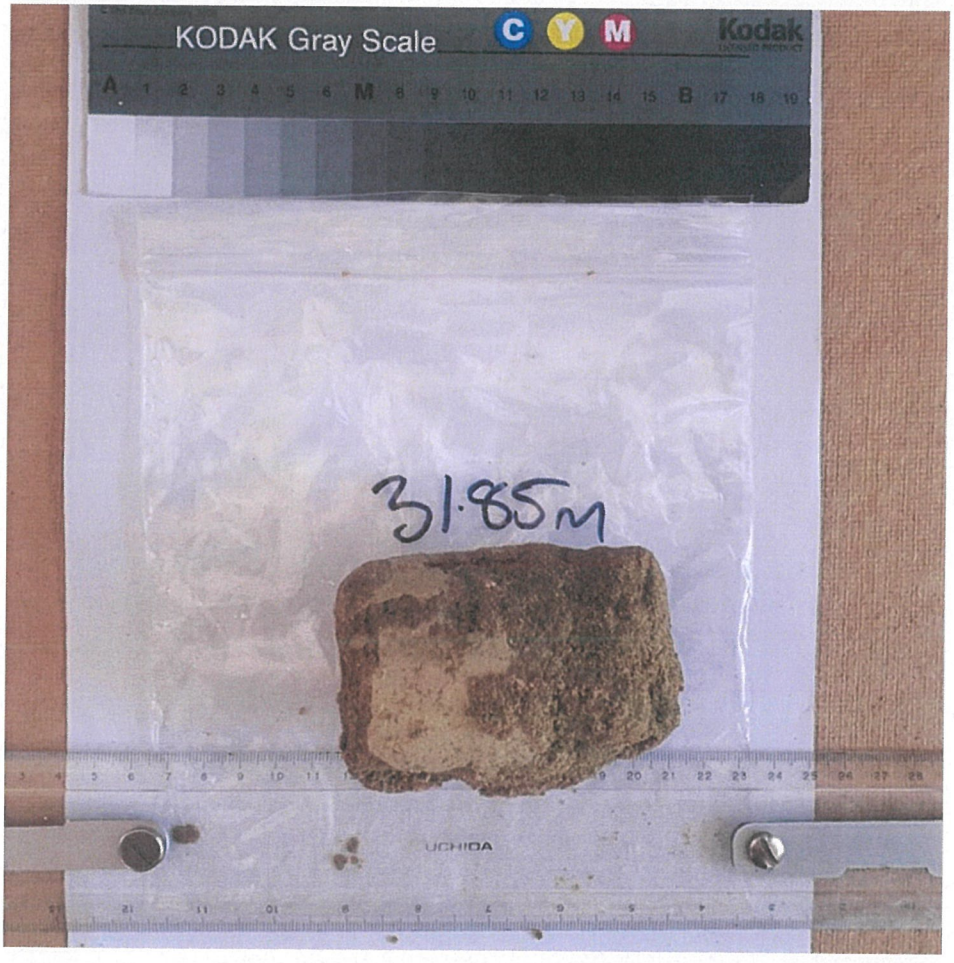
C Y M
Kodak
29.80m
UCHIDA


KODAK Gray Scale
C Y M
Kodak
30·20
UCHIDA


KODAK Gray Scale
C Y M
Kodak
31·40m
UCHIDA


KODAK Gray Scale
Kodak
31.70m
UCHIDA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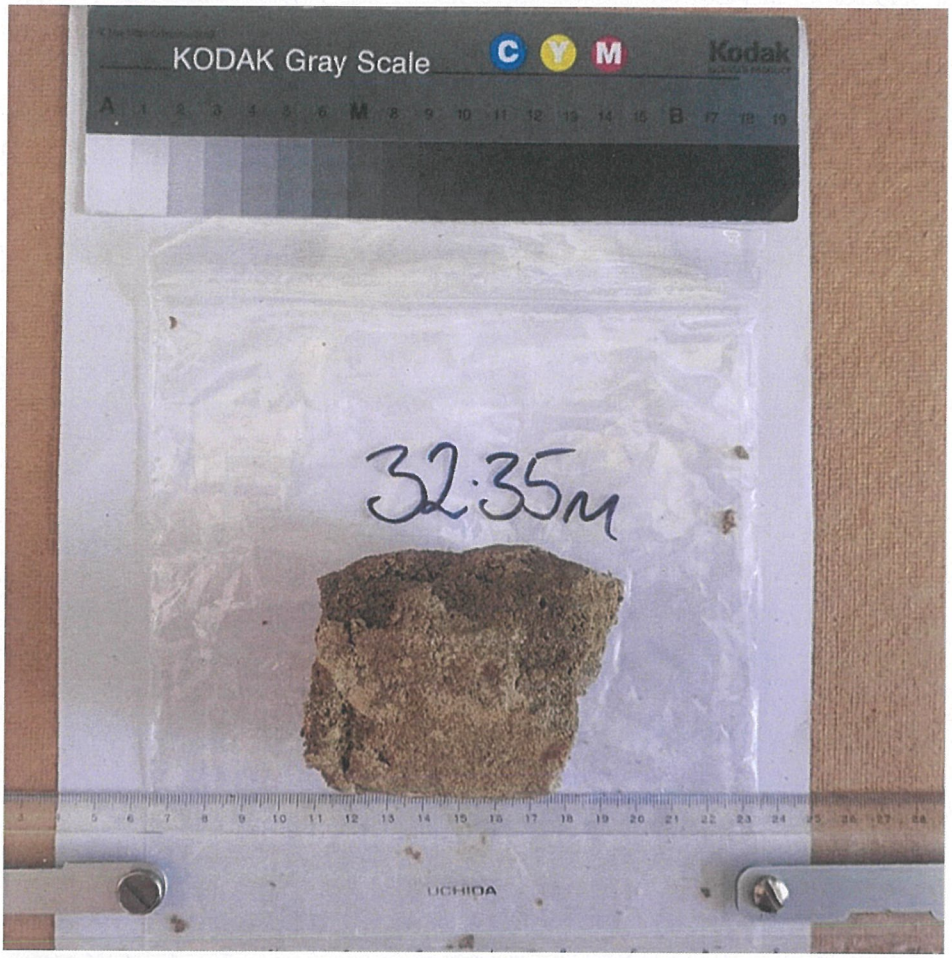
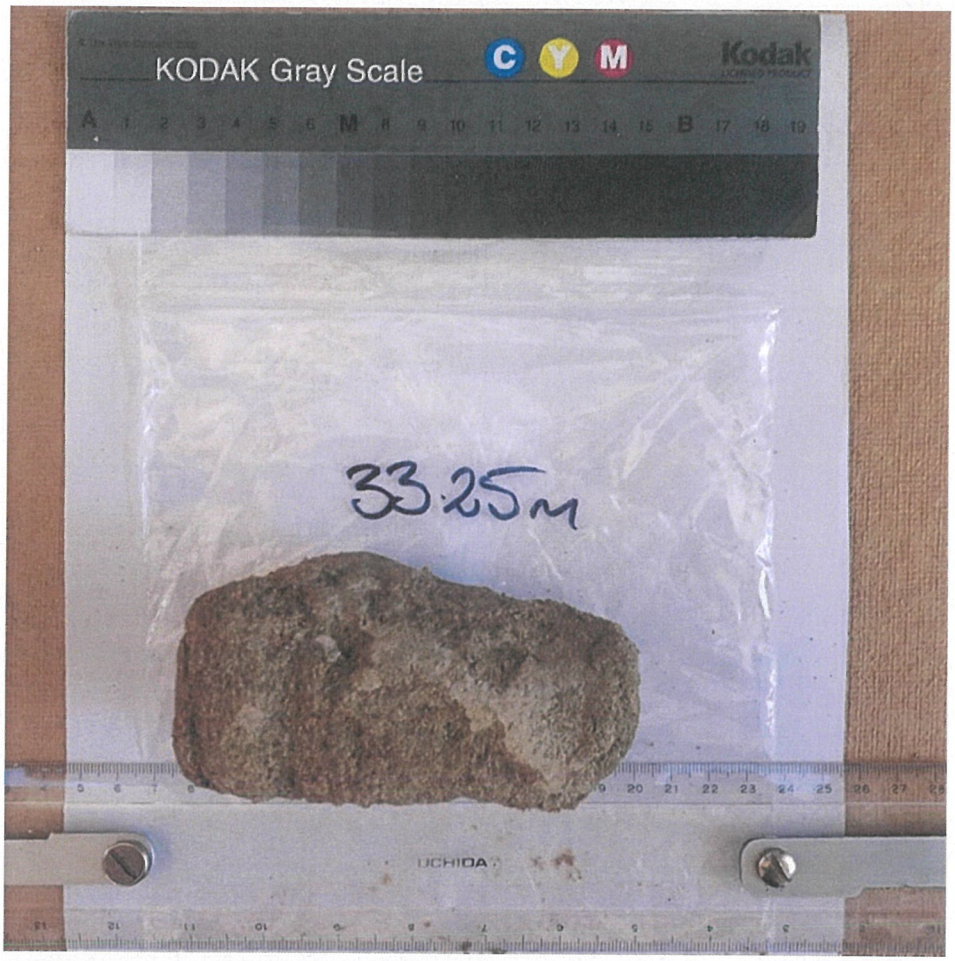
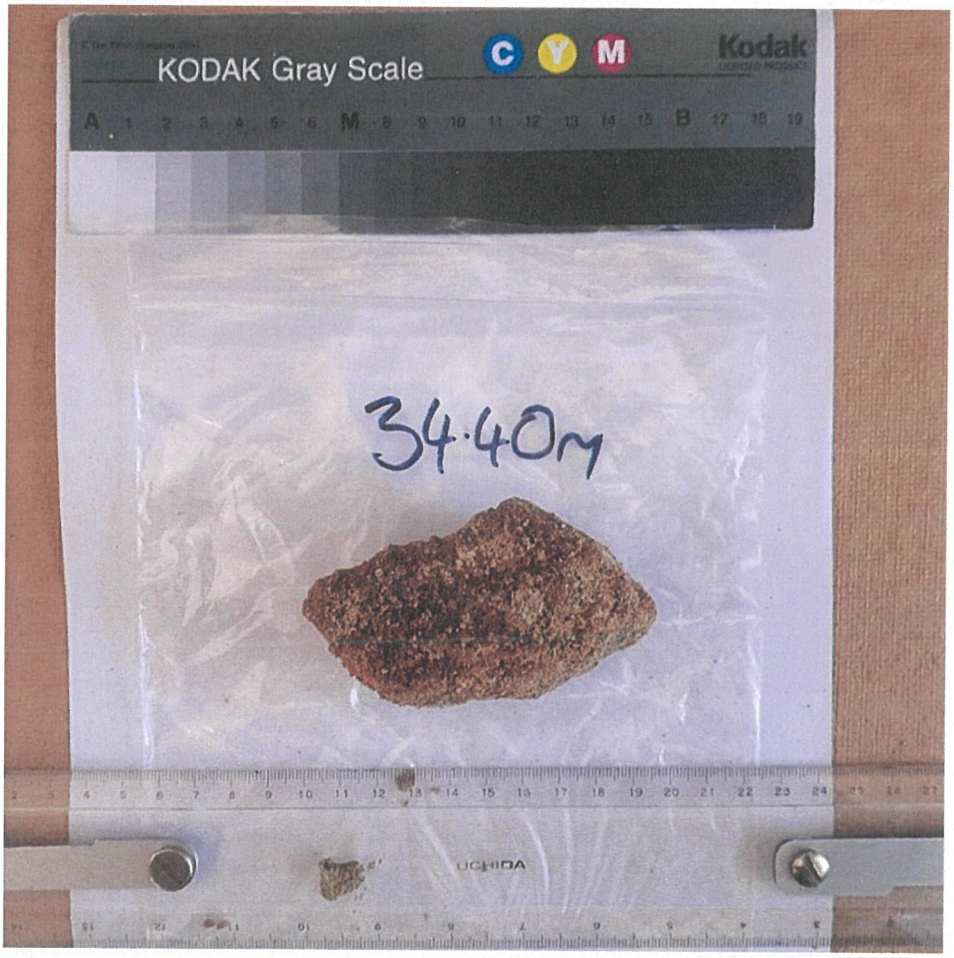
Kodak
31.85m
UCHIDA


KODAK Gray Scale
Kodak
32.35m
UCHIDA

KODAK Gray Scale
Kodak
32.65m
UCHIDA

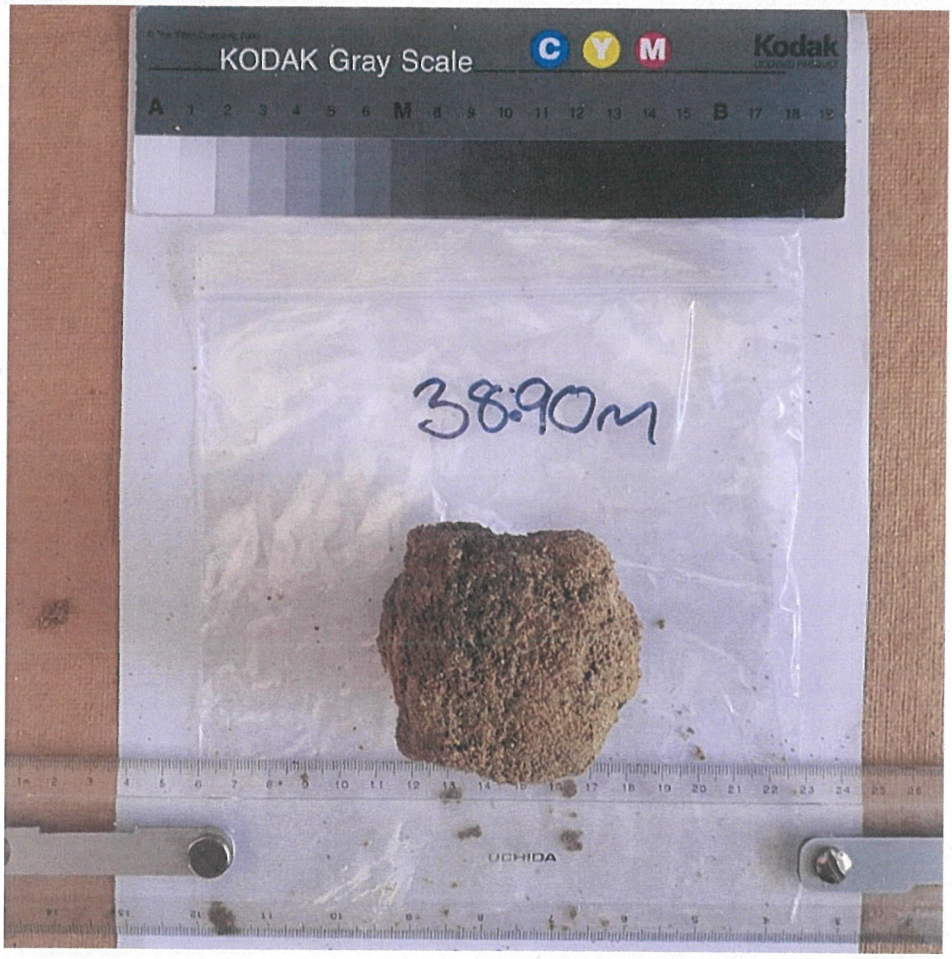

KODAK Gray Scale
Kodak
33.25m
UCHIDA


KODAK Gray Scale
Kodak
34.40m
UCHIDA

KODAK Gray Scale
C Y M
Kodak
35.00M
UCHIDA

KODAK Gray Scale
C Y M
Kodak
36.85
UCHIDA

KODAK Gray Scale
Kodak
37.30m
UCHIDA


KODAK Gray Scale
Kodak
38.90m
UCHIDA

KODAK Gray Scale
C Y M
Kodak
39.30M