

THE LAKE MUIR—UNICUP NATURAL DIVERSITY
RECOVERY CATCHMENT DRILLING PROGRAM:
COMPLETION REPORT 2003–2006

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DEPARTMENT OF ENVIRONMENT AND CONSERVATION
BORE COMPLETION REPORT
JULY 2009

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Acknowledgments

The bore network was designed with the assistance of Robin Smith (then Department of Environment) and without the assistance of Peter Geste and Geoff Sadgrove (then Department of Environment) the groundwater sampling would have taken us ages

Recommended Reference

The recommended reference for this publication is:
Grelet G. and Smith M. G (compiler)., 2009, The Lake Muir—Unicup Natural Diversity Recovery Catchment Drilling Program: Completion Report 2003—2006, Department of Environment, and Conservation, Bore Completion Report (unpublished).

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Introduction

The lack of knowledge related to the geology and hydrogeology was noted in the draft Management Plan for the Lake Muir–Unicup Natural Diversity Recovery Catchment (Department of Environment and Conservation, in prep). This led to a hydrogeological exploratory drilling program between 2003 and 2006 (Figure 1).

This report presents the results of the drilling program, giving details of bore construction, lithology, hydrogeology and groundwater chemistry. A summary of the bores and the water chemistry are given in Table 1 and Table 2. The appendix contains the full lithologic descriptions for each bore. Abbreviations used in this report are given in Table 3.

Bore construction and logging techniques

Bores were constructed at 71 sites, mostly located on DEC reserves or road reserves (Figure 1). The bores were prefixed MU for Muir–Unicup. The initial bore, at each site, was drilled to bedrock and if additional bores were drilled a suffix of D, S, or I was used. The suffix D denotes the initial bore drilled to bedrock. Suffix S was for the shallow bore and I for the intermediate bore. Of the 71 bores drilled to bedrock, bores MU46D and MU49 intersected fault zones and bedrock was not reached. Bores MU64D and MU6 did not intersect bedrock due to mechanical issues.

The bores were drilled using air core (RC) drilling method and cased with 50 mm PVC pipe. The PVC screen (with 0.4 mm slots) was placed at a selected depth, with the screen length varying from 2 to 9 m, with most screens being 3 or 6 m in length. Based on the geological logging the screen intervals were sited across hydraulic conductive zones. The bore annulus was packed with graded gravel from the base of the slotted casing to a height of 1 to 2 m above the slots. The annulus above the gravel was sealed with 5 m of grout and then filled to surface with natural backfill. Some shallow bores were gravel packed to near surface. All bores had locked headworks and were sealed at the surface. A valve was inserted to prevent groundwater leakage if the hydraulic head is above ground level.

In the field the rock chips were characterised for grain morphology; mineralogy; colour; and sedimentary structure (Field Geologists' Manual, 1989; Munsell Color,

2000; Tucket, 1982). A representative 30 cm³ sample for each metre interval was collected and stored in chip trays at the time of drilling for future reference.

The grain morphology includes grain size, shape and sorting. The grain size was classified using a modified Wentworth scale (Field Geologists' Manual, 1989). The classifications were: clay less than 0.0039 mm; silt from 0.0039 to 0.0625 mm; sand from 0.0625 to 2 mm; and gravel greater than 2 mm. Estimated ratios of clay, silt and sand have been used to give a lithological classification (Figure 2) based on Picard's method as described in Tucket (Tucket, 1982).

To systemised recording of the rock chip colours, colour was obtained by comparison with the Munsell Soil Color Chart (2000).

Geological setting

The Lake Muir–Unicup Natural Diversity Recovery Catchment is situated near the boundary between the Albany–Fraser Orogen and the Yilgarn Craton and is underlain by crystalline basement rocks which are Archaean to Proterozoic in age. These consist:

- quartzo-feldspathic gneisses, mainly derived from granitoid rocks of the Biranup and Nornalup complexes (Myers, 1990) within the Proterozoic Albany–Fraser Orogen; and
- predominantly granitic rocks where the catchment extends onto the Archaean Yilgarn Craton in the northeast (Wilde and Walker, 1984).

Basement rocks in the catchment are overlain by sediments of Late Eocene age which form part of the northern onshore margin of the Eucla Basin (Clarke et al., 2003; Hocking, 1990). These sediments form the Werillup and Pallinup Formations. The sediments of the Eucla Basin are poorly exposed in the catchment, being covered by an extensive ferricrete and thin layer of alluvium and colluvium. Prior to this program, the distribution of these Late Eocene aged sediments was based on historical coal

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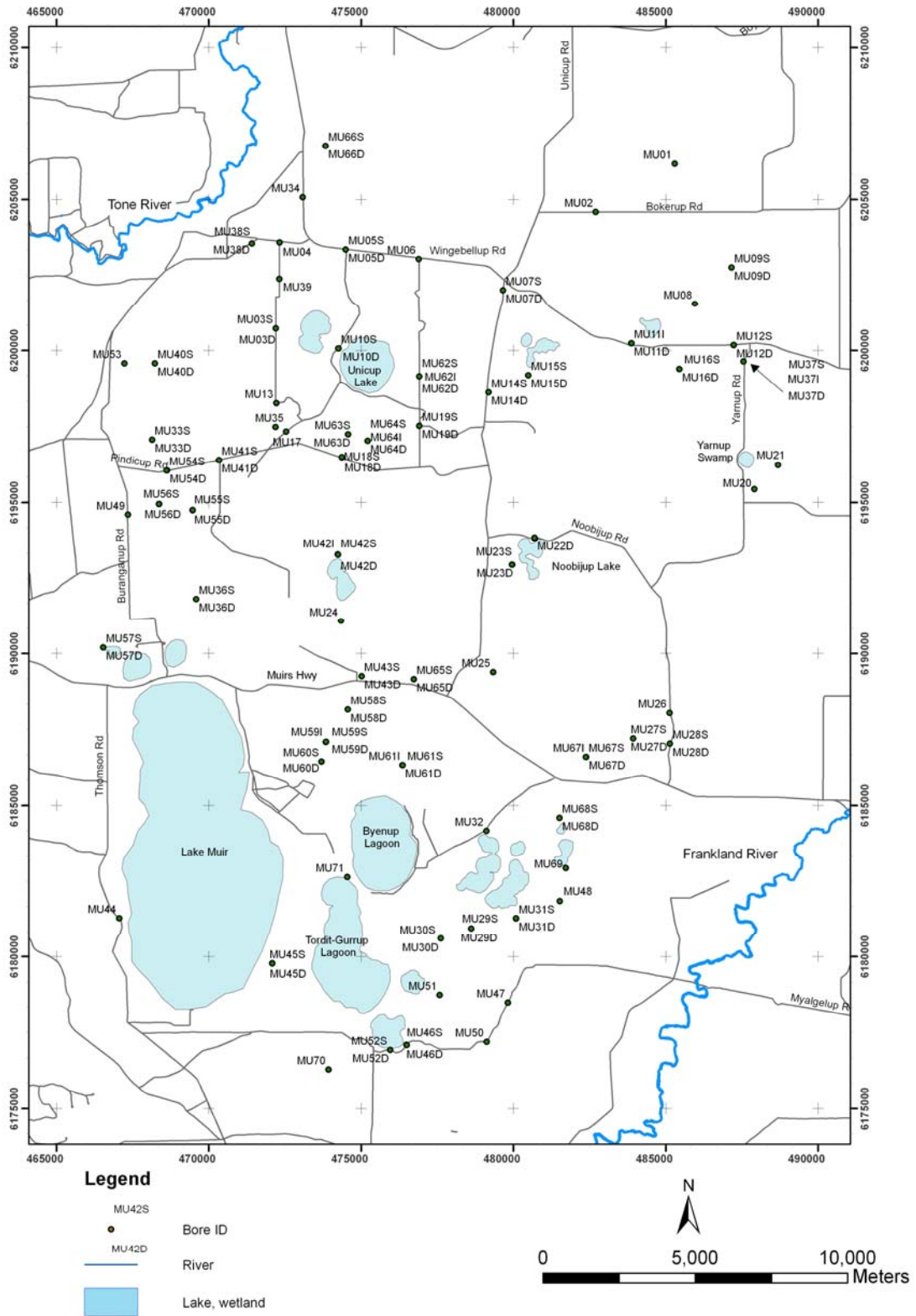


Figure 1 Location of bore sites MU01 to MU71

exploration and regional mapping (Dampier Mining Company Limited, 1981; De Silva, 2004; Wilde and Walker, 1984).

Aquifers

The regional hydrogeology mapping (De Silva, 2000, 2004) recognised three distinct aquifers in the study area:

- the surficial aquifer;
- the sedimentary aquifer; and
- the fractured and-or weathered bedrock aquifer.

The regional mapping was supplemented by an overview of the catchment hydrogeology (Smith, 2003).

The surficial aquifer comprises Cainozoic alluvial, colluvial, lacustrine sediments and transported ferricrete that overlie both the sediments of Late Eocene age and weathered bedrock. The sediments of this aquifer are found mainly on the plains, valley floors and at the base of hill slopes. The sediments tend to be absent on the crest of hills and where the *in situ* ferricrete is exposed. The aquifer is between 2 to 34 m thick, with the thinner sequences on the plains and valley floors. The thicker sequences are found at the base of hill slopes above weathered bedrock. Generally, the aquifer is thicker in the south of the catchment.

The sedimentary aquifer consists of fluvial and marine deposits correlated with the Werillup and Pallinup Formations (including the *in situ* ferricrete of the Pallinup Formation). They form the on-shore Eucla Basin and overlies the fractured and-or weathered bedrock aquifer. The sedimentary aquifer is up to 65 m thick and is generally confined by the surficial aquifer.

The fractured and-or weathered bedrock aquifer is laterally the most extensive aquifer and is confined to semi-confined in nature. The weathered bedrock is developed over fresh granite and gneiss and ranges in thickness from about 1 m in MU34 and MU56D to > 46 m in MU46A. Within the valleys and plains this aquifer is overlain by either

the sedimentary or surficial aquifers. On the slopes and crests of hills, this aquifer tends to be the only aquifer present and is capped by an *in situ* ferricrete.

Hydrochemical facies and salinity

Two types of groundwater are evident (Figure 3). The majority of the groundwater is a Na–Cl type water. The second group of water has Cl as the major anion but there is no major cation. This group is referred to as Ca–Na–Cl type water, even though no cation is dominant.

Spatially these hydrochemical facies fall in distinct areas within the catchment. The Na–Cl groundwater type is located north of Lake Muir. The Ca–Na–Cl type is located in the south under the poorly draining flats east of Byenup Lagoon and Tordit-Gurru Lagoon.

Groundwater TDS increases from the north to south (Figure 4). In the north the TDS is up to 10 000 mg/L. To the east of Lake Muir the TDS in the sedimentary aquifer rise dramatically from about 10 000 to 30 000 mg/L TDS. The greatest change in TDS is seen in the WBR aquifer, with TDS ranging from about 3000 to 12 000 mg/L in the north, and increasing significantly to about 95 000 mg/L (MU45D) in the south, just east of Lake Muir.

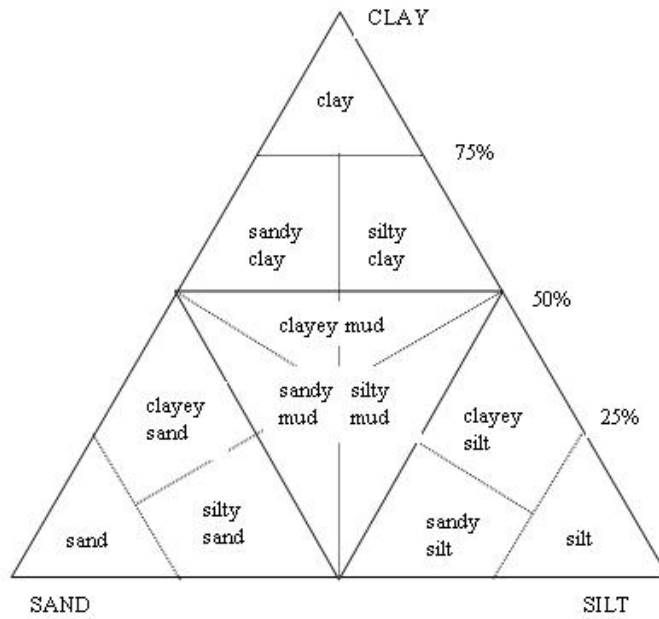


Figure 2 Sedimentary rock classification (after Picard in (Tucket, 1982))

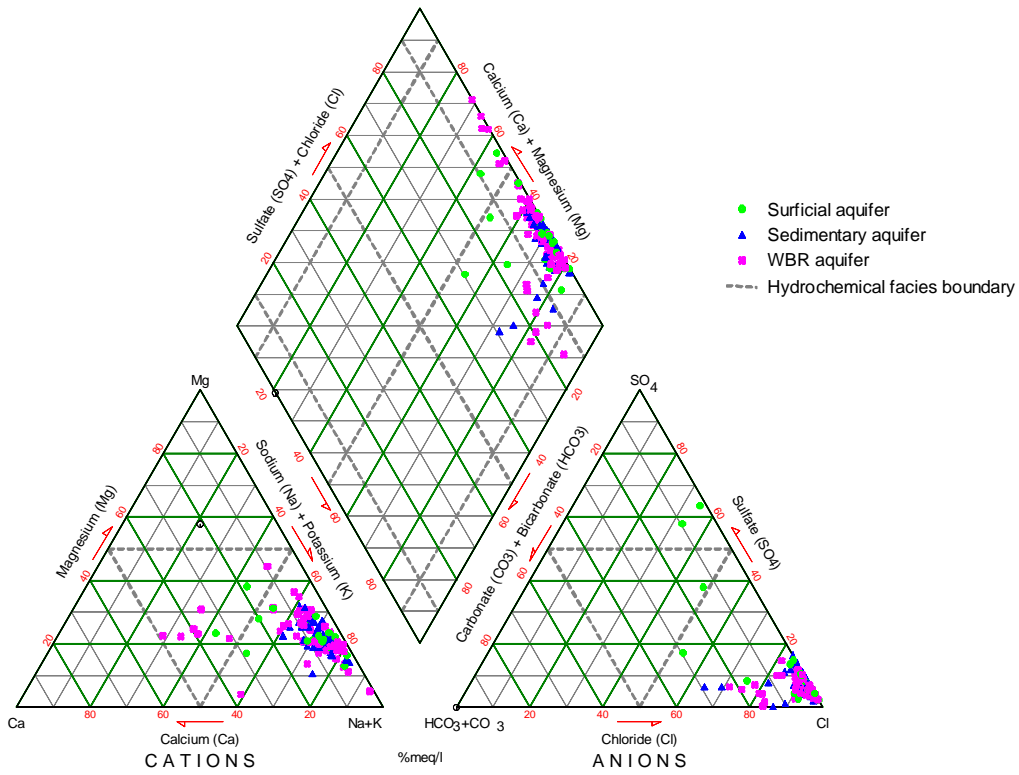


Figure 3 Hydrochemical facies

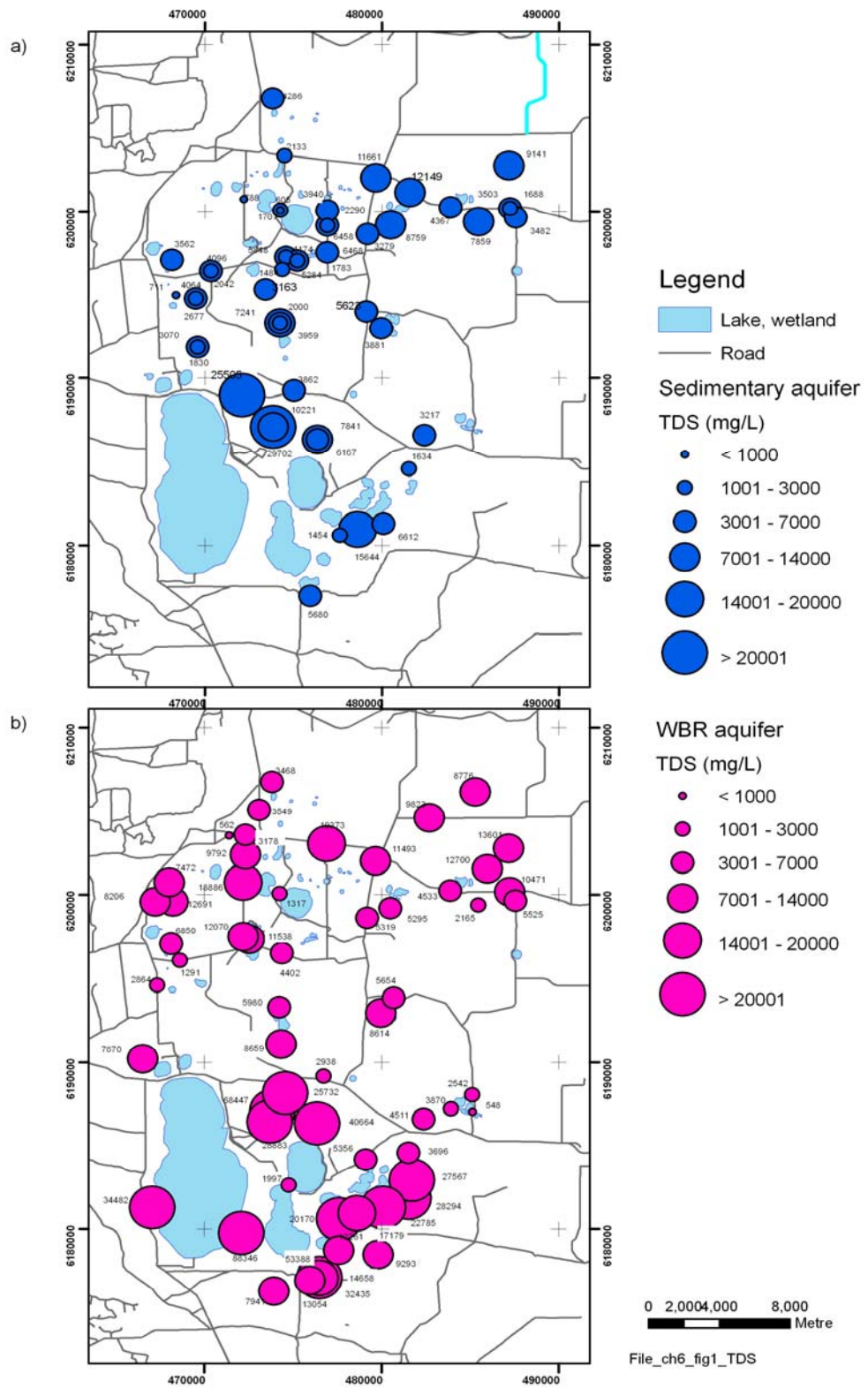


Figure 4 Groundwater TDS values

Table 1 Bore summary

<i>Bore ID</i>	<i>Easting (mE)</i>	<i>Northing (mN)</i>	<i>Elevation (m AHD)</i>	<i>Total depth (m BGL)</i>	<i>Top of casing</i>	<i>Screen interval (m BGL)</i>		<i>Aquifer</i>	<i>Geophysics</i>
						<i>From</i>	<i>To</i>		
MU01	485296.12	6206168.46	286.08	22	0.89	19	22	Fractured and-or weathered rock aquifer	yes
MU02	482704.41	6204593.42	231.72	21	0.71	18	21	Fractured and-or weathered rock aquifer	yes
MU03D	472200.88	6200726.03	202.16	56	0.68	48	54	Fractured and-or weathered rock aquifer and sedimentary aquifer	yes
MU03S	472200.58	6200723.87	202.14	6	0.6	4	6	Surficial aquifer and sedimentary aquifer	no
MU04	472323.41	6203572.63	211.66	57	0.72	54	57	Fractured and-or weathered rock aquifer	yes
MU05D	474498.44	6203340.38	203.41	36	0.72	17.3	23.3	Sedimentary aquifer	yes
MU05S	474499.23	6203339.59	203.46	12	0.63	3	12	Sedimentary aquifer	no
MU06	476893.62	6203029.22	211.23	21	0.71	15	21	Fractured and-or weathered rock aquifer	yes
MU07D	479657.92	6202003.24	211.57	40.5	0.7	37.5	40.5	Fractured and-or weathered rock aquifer	yes
MU07S	479658.69	6202004.38	211.54	21	0.71	15	21	Sedimentary aquifer	no

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						<i>From</i>	<i>To</i>		
MU08	485963.56	6201545.91	223.58	13	0.57	7	13	Fractured and-or weathered rock aquifer and sedimentary aquifer	yes
MU09D	487164.53	6202749.45	237.52	27	0.71	24	27	Fractured and-or weathered rock aquifer	yes
MU09S	487166.06	6202750.7	237.57	18	0.65	11	17	Sedimentary aquifer	no
MU10D	474259.61	6200064.61	203	72	0.65	30	36	Sedimentary aquifer	yes
MU10S	474258.42	6200065.09	203.02	6	0.69	3	6	Surficial aquifer and sedimentary aquifer	no
MU11D	483875.33	6200239.85	217.83	66	0.59	63	66	Fractured and-or weathered rock aquifer	yes
MU11I	483876.93	6200239.24	217.84	43	0.63	37	43	Sedimentary aquifer	no
MU12D	487235.83	6200178.02	222.5	49	0.71	40	49	Fractured and-or weathered rock aquifer and sedimentary aquifer	yes
MU12S	487233.63	6200178.61	222.47	14	0.72	11	14	Sedimentary aquifer	no
MU13	472219.89	6198262.97	200.21	39	0.55	9	12	Surficial aquifer	yes
MU14D	479188.9	6198621.03	210.72	42	0.67	33	39	Fractured and-or weathered	yes

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						<i>From</i>	<i>To</i>		
								rock aquifer	
MU14S	479189.98	6198617.26	210.74	22.5	0.73	16.5	22.5	Sedimentary aquifer	no
MU15D	480494.65	6199185.66	212.18	31	0.72	25.5	28.5	Fractured and-or weathered rock aquifer	yes
MU15S	480492.84	6199187.35	212.25	15	0.67	12	15	Sedimentary aquifer	no
MU16D	485454.23	6199387.93	220.48	55.5	0.84	52.5	55.5	Fractured and-or weathered rock aquifer	yes
MU16S	485454.11	6199390.3	220.4	9	0.78	6	9	Sedimentary aquifer	no
MU17	472539.26	6197329.56	205.41	24	0.53	17	23	Fractured and-or weathered rock aquifer	yes
MU18D	474369.56	6196483.25	201.02	54	0.55	51	54	Fractured and-or weathered rock aquifer	yes
MU18S	474369.48	6196485.53	201.01	18	0.45	12	18	Sedimentary aquifer	no
MU19D	476913.65	6197513.56	209.36	44	0.8	14.5	17.5	Sedimentary aquifer	yes
MU19S	476913.65	6197514.39	209.4	4	0.75	2	4	Surficial aquifer and sedimentary aquifer	no
MU20	487909.95	6195438.29	251.9	22	0.74	19	22	Fractured and-or weathered	yes

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						<i>From</i>	<i>To</i>		
								rock aquifer	
MU21	488685.06	6196232.01	226.69	25	0.48	22	25	Fractured and-or weathered rock aquifer	yes
MU22D	480693.77	6193835.99	221.35	50	0.78	8	14	Sedimentary aquifer	yes
MU23D	479961.58	6192949.56	220.56	53.5	0.51	47.5	53.5	Fractured and-or weathered rock aquifer	yes
MU23S	479959.2	6192947.54	220.67	15	0.67	9	15	Sedimentary aquifer	no
MU24	474342.64	6191082.5	193.06	34.5	0.74	31.5	34.5	Surficial aquifer and fracture and-or weathered rock aquifer	yes
MU25	479337.54	6189385.27	222.55	13	0.55	7	13	Surficial aquifer	yes
MU26	485128.04	6188045.21	205.88	19.5	0.52	11.5	17.5	Fracture and-or weathered rock aquifer	yes
MU27D	483930.14	6187201.49	196.83	37	0.58	34	37	Fractured and-or weathered rock aquifer	yes
MU27S	483930.25	6187199.39	196.71	7.5	0.77	4.5	7.5	Surficial aquifer	no
MU28D	485135.89	6187028.59	199.96	35	0.69	32	35	Fractured and-or weathered rock aquifer	yes

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						<i>From</i>	<i>To</i>		
MU28S	485136.51	6187030.77	199.93	15	0.81	12	15	Surficial aquifer and fracture and-or weathered rock aquifer	no
MU29D	478615.94	6180945.27	178.56	25	0.65	22	25	Fractured and-or weathered rock aquifer	yes
MU29S	478614.69	6180945.12	178.52	10.5	0.64	7.5	10.5	Sedimentary aquifer	no
MU30D	477620.12	6180603.48	178.98	33	0.7	30	33	Fractured and-or weathered rock aquifer	yes
MU30S	477621.24	6180603.62	179.02	7.5	0.74	4.5	7.5	Surficial aquifer and sedimentary aquifer	no
MU31D	480087.99	6181283.04	177.56	32	0.65	29	32	Fractured and-or weathered rock aquifer	yes
MU31S	480089.03	6181283.61	177.54	16.5	0.62	10.5	16.5	Surficial aquifer and sedimentary aquifer	no
MU32	479117	6184163.3	179.21	18.5	0.54	12.5	18.5	Fractured and-or weathered rock aquifer and sedimentary aquifer	yes
MU33D	468142.36	6197057.9	186.91	51	0.59	48	51	Fractured and-or weathered rock aquifer	yes

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						<i>From</i>	<i>To</i>		
MU33S	468140.26	6197058.46	186.91	13	0.63	10	13	Sedimentary aquifer	no
MU34	473090.33	6205072.91	200.65	19.5	0.58	16.5	19.5	Surficial aquifer and fracture and-or weathered rock aquifer	yes
MU35	472194.38	6197480.23	213.93	25	0.6	22	25	Fractured and-or weathered rock aquifer	yes
MU36D	469592.81	6191813.27	177.16	43	0.58	30	36	Sedimentary aquifer	yes
MU36S	469592.69	6191812.31	177.14	27	0.57	21	27	Sedimentary aquifer	no
MU37D	487554.61	6199635.61	223.3	48	0.74	45	48	Fractured and-or weathered rock aquifer	yes
MU37I	487554.26	6199637.61	223.23	34	0.64	28	34	Sedimentary aquifer	no
MU37S	487554.03	6199638.92	223.14	12	0.69	9	12	Sedimentary aquifer	no
MU38D	471417.54	6203539.54	205.4	39	0.58	17	20	Surficial aquifer and fracture and-or weathered rock aquifer	yes
MU38S	471418.67	6203537.79	205.36	7.5	0.68	3	6	Surficial aquifer	no
MU39	472321.66	6202375.3	218.2	19	0.78	16	19	Fractured and-or weathered rock aquifer	yes

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						<i>From</i>	<i>To</i>		
MU40D	468234.4	6199579.02	188.58	29.5	0.6	26.5	29.5	Fractured and-or weathered rock aquifer	yes
MU40S	468236.11	6199578.8	188.66	15	0.62	9	15	Surficial aquifer	no
MU41D	470342.61	6196390.31	186.47	50	0.72	16	19	Sedimentary aquifer	yes
MU41S	470341.68	6196390.82	186.5	16.5	0.75	10.5	16.5	Sedimentary aquifer	no
MU42D	474242.38	6193280.65	192.72	69	0.72	40.5	43.5	Sedimentary aquifer	yes
MU42I	474243.61	6193280.55	192.76	36	0.7	29	35	Sedimentary aquifer	no
MU42S	474245.9	6193280.62	192.84	12	0.63	5	11	Sedimentary aquifer	no
MU43D	475020.76	6189253.99	178.31	30	0.72	12	15	Sedimentary aquifer	yes
MU43S	475018.95	6189254.1	178.33	9	0.79	6	9	Sedimentary aquifer	no
MU44	467064.01	6181284.46	174.73	19.5	0.57	10.5	16.5	Surficial aquifer and fracture and-or weathered rock aquifer	yes
MU45D	472087.9	6179776.79	174.99	33	0.71	24	30	Fractured and-or weathered rock aquifer	yes
MU45S	472087.85	6179774.89	175.03	9	0.76	6	9	Surficial aquifer	no

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<i>Bore ID</i>	<i>Easting (mE)</i>	<i>Northing (mN)</i>	<i>Elevation (m AHD)</i>	<i>Total depth (m BGL)</i>	<i>Top of casing</i>	<i>Screen interval (m BGL)</i>		<i>Aquifer</i>	<i>Geophysics</i>
						<i>From</i>	<i>To</i>		
MU46D	476501.46	6177083.82	177.29	72	0.66	65	71	Fractured and-or weathered rock aquifer	yes
MU46S	476500.2	6177081.97	177.32	27	0.62	20	26	Sedimentary aquifer	no
MU47	479822.73	6178485.93	192.87	30	0.64	23.5	26.5	Fractured and-or weathered rock aquifer	yes
MU48	481524.17	6181847.2	176.49	19.5	0.68	8	11	Sedimentary aquifer	yes
MU49	467350.2	6194594.1	177.75	42	0.63	35	41	Fractured and-or weathered rock aquifer	yes
MU50	479122.62	6177193.49	188.36	6	0	0	0		no
MU51	477583.6	6178734.64	181.4	20	0.63	14	20	Fractured and-or weathered rock aquifer	yes
MU52D	475955.63	6176928.27	176.71	28.5	0.54	20.5	26.5	Fractured and-or weathered rock aquifer	yes
MU52S	475957.47	6176927.83	176.69	12	0.68	5	11	Surficial aquifer and sedimentary aquifer	no
MU53	467232.92	6199579.82	192.35	27	0.65	23.5	26.5	Fractured and-or weathered rock aquifer	yes
MU54D	468632.78	6196055.71	182.82	30.5	0.72	10	13	Surficial aquifer and	yes

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<i>Bore ID</i>	<i>Easting (mE)</i>	<i>Northing (mN)</i>	<i>Elevation (m AHD)</i>	<i>Total depth (m BGL)</i>	<i>Top of casing</i>	<i>Screen interval (m BGL)</i>		<i>Aquifer</i>	<i>Geophysics</i>
						<i>From</i>	<i>To</i>		
								fracture and-or weathered rock aquifer	
MU54S	468619.33	6196055.25	182.83	8	0.73	6	8	Surficial aquifer	no
MU55D	469474.15	6194744.32	180.62	51.5	0.61	48	50	Sedimentary aquifer	yes
MU55S	469473.21	6194747.06	180.73	11	0.73	9	11	Sedimentary aquifer	no
MU56D	468371.93	6194949.03	179.32	29	0.62	21	23	Sedimentary aquifer	yes
MU56S	468369.36	6194949.67	179.37	8	0.81	6	8	Sedimentary aquifer	no
MU57D	466534.76	6190199.46	175.27	16	0.54	14	16	Surficial aquifer and fracture and-or weathered rock aquifer	yes
MU57S	466535	6190198.28	175.2	7.3	0.61	5.3	7.3	Surficial aquifer	no
MU58D	474566.98	6188153.11	175.66	14	0.54	12	14	Fractured and-or weathered rock aquifer	yes
MU58S	474567.36	6188153.75	175.64	3	0.6	1	3	Surficial aquifer	no
MU59D	473848.67	6187090.56	175.11	58	0.61	39	42	Fractured and-or weathered rock aquifer and sedimentary aquifer	yes

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<i>Bore ID</i>	<i>Easting (mE)</i>	<i>Northing (mN)</i>	<i>Elevation (m AHD)</i>	<i>Total depth (m BGL)</i>	<i>Top of casing</i>	<i>Screen interval (m BGL)</i>		<i>Aquifer</i>	<i>Geophysics</i>
						<i>From</i>	<i>To</i>		
MU59I	473849.16	6187091.87	175.11	22.5	0.63	19.5	22.5	Sedimentary aquifer	no
MU59S	473849.75	6187093.33	175.14	7.2	0.61	4.2	7.2	Surficial aquifer	no
MU60D	473704.14	6186442.81	174.85	16	0.71	13	16	Fractured and-or weathered rock aquifer	yes
MU60S	473705.58	6186442.78	174.85	6	0.63	3	6	Surficial aquifer	no
MU61D	476364.3	6186328.6	175.31	54	0.56	47.8	53.8	Fractured and-or weathered rock aquifer and sedimentary aquifer	yes
MU61I	476365.53	6186329.73	175.35	33	0.46	26	32	Sedimentary aquifer	no
MU61S	476366.2	6186330.45	175.3	12	0.47	9	12	Surficial aquifer	no
MU62D	476911.46	6199146.13	203.79	66	0.62	43	45	Sedimentary aquifer	yes
MU62I	476911.79	6199147.07	203.74	33	0.62	31	33	Sedimentary aquifer	no
MU62S	476911.83	6199148.47	203.73	6	0.57	4	6	Sedimentary aquifer	no
MU63D	474579.65	6197241.49	201.12	68.5	0.59	52	54	Sedimentary aquifer	yes
MU63S	474579.18	6197242.54	201.12	6	0.59	4	6	Sedimentary aquifer	no
MU64D	475217.87	6197023.67	204.84	69	0.62	46.5	48.5	Sedimentary aquifer	yes

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						<i>From</i>	<i>To</i>		
MU64I	475217.21	6197024.19	204.81	33	0.66	31	33	Sedimentary aquifer	no
MU64S	475216.47	6197024.81	204.87	4	0.68	2	4	Sedimentary aquifer	no
MU65D	476735.21	6189154.51	184.59	39	0.63	37	39	Fractured and-or weathered rock aquifer	no
MU65S	476734.82	6189155.28	184.55	6	0.65	4	6	Surficial aquifer	yes
MU66D	473833.64	6206759.08	203.47	60	0.53	53	59	Fractured and-or weathered rock aquifer	no
MU66S	473834.72	6206759.05	203.47	15	0.57	7	13	Sedimentary aquifer	no
MU67D	482389.19	6186599.41	187.74	54	0.58	48	54	Fractured and-or weathered rock aquifer	yes
MU67I	482386.23	6186599.94	187.73	33	0.54	27	33	Fractured and-or weathered rock aquifer	no
MU67S	482384.83	6186600.24	187.72	18	0.54	15	18	Sedimentary aquifer	no
MU68D	481514.86	6184585.54	181.86	41.5	0.64	35.5	41.5	Fractured and-or weathered rock aquifer and sedimentary aquifer	no
MU68S	481513.23	6184585.84	181.87	18	0.59	13	18	Sedimentary aquifer	yes

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<i>Bore ID</i>	<i>Easting (mE)</i>	<i>Northing (mN)</i>	<i>Elevation (m AHD)</i>	<i>Total depth (m BGL)</i>	<i>Top of casing</i>	<i>Screen interval (m BGL)</i>		<i>Aquifer</i>	<i>Geophysics</i>
						<i>From</i>	<i>To</i>		
MU69	481720.79	6182936.47	183.53	29	0.63	21	27	Surficial aquifer and fracture and-or weathered rock aquifer	yes
MU70	473933.08	6176282.77	186.19	20.5	0.85	14.5	20.5	Fractured and-or weathered rock aquifer	yes
MU71	474544.99	6182645.16	177.65	14	0.48	10.5	13.3	Fractured and-or weathered rock aquifer	no

Table 2 Chemical analysis results**(Analysis missing due to laboratory error are MU10D, MU58S, MU60D, MU61S, MU61I, MU63S and MU63D)**

<i>Bore ID</i>	<i>Date</i>	<i>Chain of Custody</i>	<i>Cl (mg/L)</i>	<i>SO4 (mg/L)</i>	<i>HCO3 (CaCO3 mg/L)</i>	<i>CO3 (CaCO3 mg/L)</i>	<i>Total Nitrogen (mg/L)</i>	<i>Total Phosphorous (mg/L)</i>	<i>Na (mg/L)</i>	<i>Ca (mg/L)</i>	<i>Mg (mg/L)</i>	<i>K (mg/L)</i>	<i>Electrical conductivity* (mS/m)</i>	<i>T (°C)</i>	<i>pH</i>
MU01	28/11/2003	22270	5700	580	100	<1			1900	82	380	19	1350	20.3	6
MU01	25/02/2004	22277	5700	520	110	<1			2700	96	420	10	1310	17.2	5.8
MU02	14/11/2003	2226	6400	320	230	<1			1700	390	910	2	1380	21.1	6
MU03D	14/11/2003	2226	10000	1800	99	<1			5800	210	710	97	2220	16.9	5.8
MU03S	3/05/2007	30142	480	7	67	<1	4.5	0.025	240	14	31	5	126	19.9	5.7
MU04	14/11/2003	2226	1800	150	180	<1			860	43	160	14	459	16.2	4.2
MU05D	14/11/2003	2226	1500	110	88	<1			710	41	150	3	389	18.6	6.1
MU05S	14/11/2003	2226	110	16	130	<1			80	17	11	2	51	19.7	6.9
MU07D	14/11/2003	2226	5600	570	1	280			2600	880	1	94	1650	19.3	12.1
MU07S	14/11/2003	2226	6700	1000	1	<1			3100	240	540	21	1580	20	4.2
MU08	18/02/2004	22275	7600	570	280	<1			3600	110	590	27	1780	24.9	6.6
MU09D	1/04/2005	26954	7400	600	250	<1	0.14	0.02	2900	260	1100	10	1880	20.5	6.3
MU09S	1/04/2005	26954	5100	420	200	<1	0.18	0.03	2300	180	670	8	1370	20.5	6.2
MU10S	1/04/2005	26954	220	25	100	<1	3	0.12	160	16	15	9	92	20.2	7.7
MU11D	28/11/2003	22270	2500	410	220	<1			1300	170	190	15	672	18.6	7.6
MU11I	28/11/2003	22270	2500	440	160	<1			1300	110	150	16	651	18.2	7.4
MU12A	3/05/2007	30144	3300	420	130	<1	0.82	0.087	1700	130	330	19	830	21	6.2
MU12D	28/11/2003	22270	6100	860	260	<1			3000	260	500	21	1480	19.4	7
MU12S	28/11/2003	22270	840	100	150	<1			630	8	38	10	266	18.9	6.4
MU13	14/11/2003	2226	2300	150	5	<1			1200	37	170	8	552	17.1	4.6
MU14D	25/02/2004	22277	2900	460	63	<1			1400	150	240	22	807	19.3	5.8

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MU14S	25/02/2004	22277	1700	210	37	<1			850	49	130	10	486	18.5	5.6
MU15A	3/05/2007	30142	9000	800	160	<1	4.6	0.64	4800	120	870	4	2080	19.2	6.5
MU15S	28/11/2003	22270	5400	710	1	<1			1800	96	390	20	1280	20	4.1
MU15S	25/02/2004	22277	5100	740	1	<1			2400	120	390	21	1250	18	3.6
MU16D	19/12/2003	22274	4300	540	1	<1			2000	68	280	17	1120	20.6	4.4
MU16D	19/12/2003	22274	1200	120	290	<1			670	70	84	11	379	20.4	7.7
MU16S	19/12/2003	22274	4400	570	1	<1			2100	69	320	17	1110	20.1	4.4
MU17	14/11/2003	2226	7300	570	33	<1			4100	120	620	19	1560	18	5.2
MU18D	28/11/2003	22270	2700	210	100	<1			1200	220	200	15	652	18.6	7.4
MU18S	28/11/2003	22270	1100	85	20	<1			590	16	72	4	285	18.1	3.2
MU19D	19/12/2003	22274	3800	420	63	<1			1900	70	280	14	944	18.3	5.6
MU20	25/02/2004	22277	6300	660	13	<1			3500	73	310	16	1540	19.5	4.8
MU21	5/12/2003	22272	5800	380	260	<1			2100	220	530	11	1070	12.3	6.4
MU22A	3/05/2007	30144	5600	590	18	<1	1.1	0.008	3300	60	390	5	1240	20.7	5.1
MU22D	19/12/2003	22274	3200	250	9	<1			1600	40	230	11	824	17.5	4.7
MU23D	11/12/2003	22273	2400	210	14	<1			1000	41	210	9	607	20.2	5.1
MU23S	11/12/2003	22273	2200	210	5	<1			990	31	19	8	573	19.7	4.7
MU24	19/12/2003	22274	4500	580	150	<1			2400	99	310	34	1170	20.2	6.4
MU26	5/12/2003	22272	2400	140	140	<1			830	110	230	13	473	12.9	6.2
MU27D	19/12/2003	22274	1200	190	120	<1			640	26	80	12	356	20.7	6.7
MU27S	11/12/2003	22273	2800	250	65	<1			1500	28	170	6	722	19	5.9
MU28D	11/12/2003	22273	370	43	150	<1			260	11	20	6	128	17.4	6.7

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MU28S	11/12/2003	22273	260	24	90	<1			180	5	15	4	90	17.4	6.2
MU29D	18/02/2004	22275	9500	630	120	<1			3800	410	810	11	2050	23.9	6.5
MU29S	18/02/2004	22275	11000	650	130	<1			3800	710	930	18	2210	24	6.6
MU30D	18/02/2004	22275	13000	590	100	<1			3900	1100	1400	33	2750	23.3	6.5
MU30S	18/02/2004	22275	1900	190	24	<1			810	43	180	3	549	22.3	6.4
MU31D	18/02/2004	22275	9900	540	74	<1			3100	1600	780	28	2120	24.4	6.4
MU31S	18/02/2004	22275	4800	320	59	<1			1800	350	430	18	1180	24.2	6
MU32	11/12/2003	22273	2200	180	110	<1			1100	58	150	8	576	19.3	6.2
MU32	5/04/2007	30139	2900	230	110	<1	0.91	0.009	1500	93		10	887	22.6	6.3
MU33D	19/12/2003	22274	3600	370	120	<1			1500	150	350	12	892	18.4	6.6
MU33S	19/12/2003	22274	2200	170	78	<1			1100	46	180	4	593	19.1	5.9
MU34	19/12/2003	22274	1900	140	120	<1			980	82	110	8	522	19.2	6.6
MU35	19/12/2003	22274	6600	640	62	<1			3200	98	500	19	1550	18.4	5.7
MU36D	19/12/2003	22274	2000	140	93	<1			890	84	150	7	516	19.2	6.4
MU36S	19/12/2003	22274	1100	63	84	<1			530	28	75	4	300	20.1	6.3
MU37D	28/11/2003	22270	2900	650	130	<1			1600	200	240	21	794	19.2	7.1
MU37I	28/11/2003	22270	1900	370	13	<1			1100	50	130	16	535	19.2	5.2
MU37S	28/11/2003	22270	2100	230	23	<1			1200	23	91	21	560	19.3	5.4
MU38D	1/04/2005	26954	270		50	<1	1.8	0.18	190	6	14	6	88	18.8	6.1
MU38S	1/04/2005	26954	90	15	28	<1	0.49	0.017	50	4	15	1	34	18.3	6
MU39	1/04/2005	26954	4600	270	9	<1	0.45	0.02	2600	21	370	5	1250	20.9	4.9
MU40D	1/04/2005	26954	6800	680	79	<1	0.38	0.036	3000	330	760	22	1710	17.4	6

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MU40S	1/04/2005	26954	7200	790	61	<1	0.33	0.021	3800	250	680	15	1820	17.9	5.8
MU41D	1/04/2005	26954	2200	260	5	<1	0.77	0.026	1200	99	160	15	606	16.8	4.9
MU41S	1/04/2005	26954	1100	95	39	<1	0.52	0.032	590	34	110	6	319	17.2	5.8
MU41S	1/04/2005	26954	1100	93	38	<1	0.5	0.03	600	34	120	6			5.8
MU42A	3/05/2007	30144	3000	290	51	<1	0.57	1.2	1200	320	400	16	745	20.6	6.1
MU42D	10/03/2005	26952	2300	120	51	<1	0.55	0.09	1100	140	150	23	617	20.1	6
MU42I	10/03/2005	26952	3900	540	46	<1	0.27	0.01	2200	120	290	35	1090	20.2	5.7
MU42S	10/03/2005	26952	1100	86	75	<1	0.27	<0.005	600	26	90	7	321	20.1	6
MU43D	10/03/2005	26952	2500	150	63	<1	0.26	0.044	1200	90	260	8	701	20.6	5.7
MU43S	10/03/2005	26952	2100	120	52	<1	0.21	0.034	1000	66	200	5	606	20	5.7
MU43S	10/03/2005	26952	2100	120	53	<1	0.2	0.033	1000	62	200	5			5.7
MU44	10/03/2005	26952	18000	2400	290	<1	0.56	0.037	9800	500	1400	110	4020	18.2	6.4
MU45D	10/03/2005	26952	52000	7800	210	<1	1.3	0.057	28000	800	4500	340	9670	19.5	6.6
MU45D	10/03/2005	26952	52000	8000	220	<1	1.4	0.054	28000	800	4500	340			6.6
MU45S	10/03/2005	26952	2200	130	100	<1	0.68	0.007	1300	56	110	19	630	20.2	6.4
MU46A	23/01/2007	17964 - 5	18000	920	48	<1	1.8	0.55	4000	4100	1500	30	2430	20.5	6.1
MU46D	10/03/2005	26952	30000	1000	70	<1	2.2	0.008	5400	9600	2500	28	6010	20.8	6.3
MU46S	10/03/2005	26952	8500	370	58	<1	0.8	0.038	1900	1800	850	21	1940	20.4	6
MU47	10/03/2005	26952	4200	270	270	<1	0.31	0.053	2200	92	310	13	1100	19.2	6.6
MU48	10/03/2005	26952	12000	1300	56	<1	0.58	0.018	5400	960	1200	13	2790	19.6	5.7
MU49	10/03/2005	26952	1500	87	91	<1	0.26	0.3	700	61	140	7	439	20.5	6.4
MU51	10/03/2005	26952	5700	320	77	<1	0.081	0.068	2400	220	600	22	1370	19.4	5.9

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MU52A	23/01/2007	17964 - 5	2800	130		<1	0.92	0.016	1300	140	270	8	663	20	3.7
MU52D	10/03/2005	26952	7300	360	130	<1	0.68	0.037	1700	1900	660	19	1780	20.3	6.3
MU52S	10/03/2005	26952	3200	130	24	<1	0.36	0.053	1300	220	300	11	866	20.2	5.4
MU53	1/04/2005	26954	5000	390	100	<1	0.19	0.28	2800	100	410	15	1300	21.1	5.9
MU54D	1/04/2005	26954	670	38	130	<1	0.4	0.057	360	60	35	8	204	14.7	6.6
MU54D	3/05/2007	30142	730	31	81	<1	0.56	0.023	400	55	43	6	210	20.9	6.6
MU54S	1/04/2005	26954	1900	120	130	<1	0.98	0.043	1100	35	170	2	528	15.2	6.4
MU55D	3/05/2007	30144	2000	220	62	<1	0.52	0.014	960	95	220	8	550	20.1	6.1
MU55S	1/04/2005	26954	2100	190	52	<1	2	0.013	1200	47	160	12	604	18.3	5.8
MU56D	3/05/2007	30142	390	17	29	<1	0.57	0.01	190	10	31	2	122	21.2	6.3
MU56S	1/04/2005	26954	280	29		<1	2.1	0.018	170	4	19	2	99	18.2	3.5
MU57D	5/04/2007	30139	4300	340	390	<1	1.8	0.022	2300	160		31	1260	24.5	6.9
MU57S	5/04/2007	30139	2800	120	290	<1	3.8	0.032	1600	88		23	883	24.2	6.4
MU58D	23/01/2007	17964 - 5	11000	1000	32	<1	0.38	0.048	5800	620	1200	9	1970	20.7	5.8
MU59D	23/01/2007	17964 - 5	28000	3100	71	<1	1.4	0.058	16000	1700	2500	130	4390	22.1	6.1
MU59I	23/01/2007	17964 - 5	13000	1400	82	<1	1.1	0.024	6600	860	1200	50	2140	22.4	6.1
MU59S	23/01/2007	17964 - 5	4400	960	200	<1	2.6	<0.005	2100	280	500	19	984	21.7	6.4
MU60S	23/01/2007	17964 - 5	16000	2000	130	<1	0.83	0.011	5500	1300	1600	23	2190	22.4	6.5
MU62D	3/05/2007	30143	3200	690	120	<1	1.2	0.012	1800	260	300	23	918	15.6	6.2
MU62I	5/04/2007	30139	2000	380	14	<1	0.63	0.028	1000	110		15	659	24.5	5.4
MU62S	5/04/2007	30139	1300	66	25	<1	6.6	1.3	560	41		5	393	23.1	5.6
MU64D	3/05/2007	30142	2800	240	60	<1	0.62	0.042	1300	210	240	12	2610	21.4	6

The Lake Muir--Unicup Natural Diversity Recovery Catchment— Bore Completion Report

<i>Bore ID</i>	<i>Date</i>	<i>Chain of Custody</i>	<i>Cl (mg/L)</i>	<i>SO4 (mg/L)</i>	<i>HCO3 (CaCO3 mg/L)</i>	<i>CO3 (CaCO3 mg/L)</i>	<i>Total Nitrogen (mg/L)</i>	<i>Total Phosphorous (mg/L)</i>	<i>Na (mg/L)</i>	<i>Ca (mg/L)</i>	<i>Mg (mg/L)</i>	<i>K (mg/L)</i>	<i>Electrical conductivity* (mS/m)</i>	<i>T (°C)</i>	<i>pH</i>
MU64I	5/04/2007	30139	2200	190	86	<1	0.68	0.015	1100	43		10	695	24.1	6
MU64S	5/04/2007	30139	810	300		<1	7.2	0.021	390	35		3	306	24.2	3.1
MU65D	3/05/2007	30142	1600	110	90	<1	0.36	0.028	690	67	210	13	452	19.3	6.1
MU65S	3/05/2007	30142	1000	83	36	<1	2.9	0.094	480	31	130	4	301	20.1	5.6
MU66D	3/05/2007	30144	1700	180	80	<1	0.39	0.046	930	66	150	5	491	22.4	6.3
MU66S	3/05/2007	30144	2300	190	95	<1	0.58	0.018	1200	67	200	6	589	22.5	6.2
MU66S	3/05/2007	30144	2200	190	92	<1	0.57	0.018	1200	66	190	6	589	22.5	6.2
MU67D	3/05/2007	30142	2100	88	58	26	1.1	0.018	830	520	32	11	602	21.7	9.7
MU67I	5/04/2007	30139	2400	220	84	<1	0.29	0.031	1100	120		11	755	25	6.3
MU67S	5/04/2007	30139	1700	110	84	<1	0.21	0.027	750	65		6	538	22.8	6.1
MU68D	3/05/2007	30142	1900	210	47	<1	0.29	0.035	690	73	240	9	572	20.9	5.8
MU68S	3/05/2007	30142	860	71	41	<1	0.38	0.018	390	30	87	4	258	20.7	5.8
MU69	3/05/2007	30142	13000	600	270	<1	0.35	0.014	7100	170	1100	72	3130	20.3	6.3
MU70	14/06/2007	30147	4100	290	110	<1	0.15	0.014	1700	220	480	21	1150	20.5	6.2
MU71	14/06/2007	30147	900	68	270	<1	0.51	0.11	680	6	19	15	320	20.6	7

Table 3 Abbreviations used in this report

	<i>Abbreviation</i>	<i>Description</i>
<i>General</i>	MGA	Map Grid Australia
	AHD	Australian Height Datum
	BGL	Below ground level
	AGL	Above ground level
<hr style="border-top: 1px dashed black;"/>		
<i>Grain morphology</i>		
<i>Sorting</i>	PS	Poorly sorted
	WS	Well sorted
<i>Angularity</i>	A	Angular
	SA	Sub-angular
	SR	Sub-rounded
	R	Rounded

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BORE SITE MU01

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	485296.12 mE
NORTHING:	6206168.46 mN
ELEVATION:	286.08 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	22 m BGL
TOP OF CASING:	0.885 m AGL
SCREENED INTERVAL:	From 19 m to 22 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diamete
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/05/2007
STANDING WATER LEVEL:	5.87 m BGL
TDS:	8776 mg/L
ELECTRICAL CONDUCTIVITY:	14 mS/cm (uncompensated)
TEMPERATURE:	20.9 degree C
pH:	5.61

GEOLOGICAL DATA

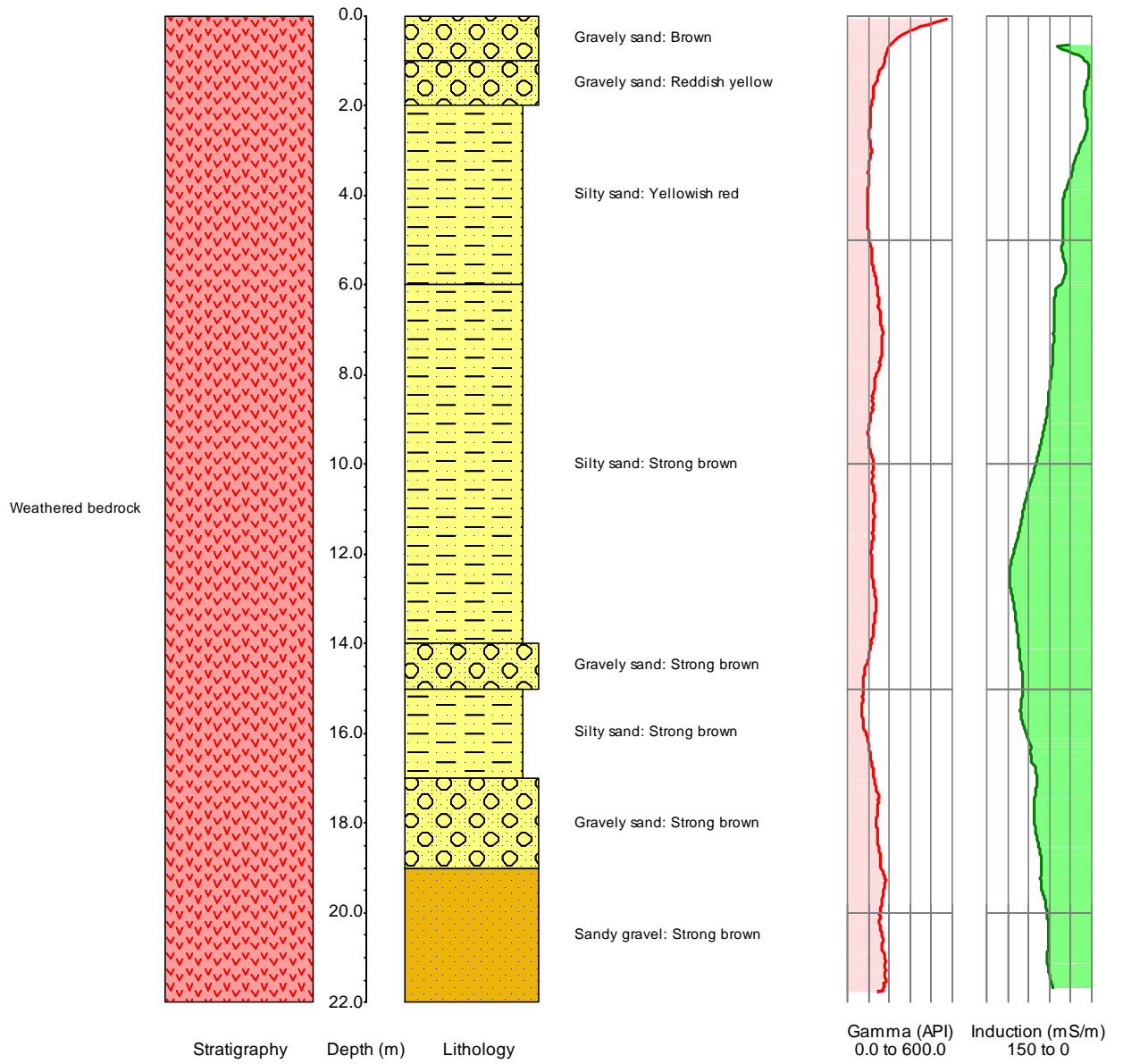
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	22.0	Archaean	Weathered bedrock



MU01



BORE SITE MU02

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	482704.41 mE
NORTHING:	6204593.42 mN
ELEVATION:	231.72 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	15/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	21 m BGL
TOP OF CASING:	0.71 m AGL
SCREENED INTERVAL:	From 18 m to 21 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diamete
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/05/2007
STANDING WATER LEVEL:	1.54 m BGL
TDS:	9823 mg/L
ELECTRICAL CONDUCTIVITY:	14.52 mS/cm (uncompensated)
TEMPERATURE:	17.5 degree C
pH:	5.99

GEOLOGICAL DATA

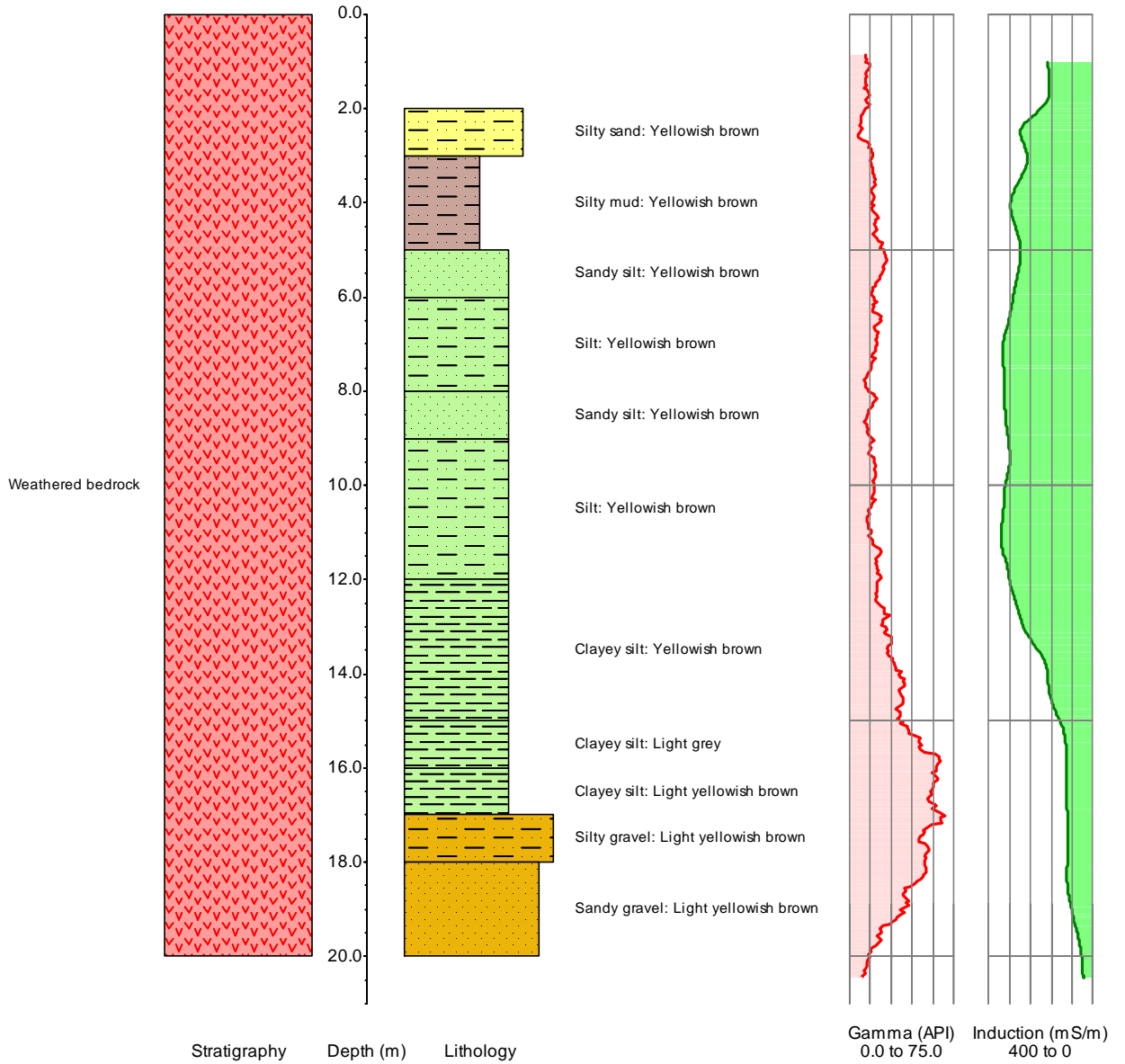
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	20.0	Archaean	Weathered bedrock



MU02



BORE SITE MU03D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	MU13N
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472200.88 mE
NORTHING:	6200726.03 mN
ELEVATION:	202.16 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	24/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	56 m BGL
TOP OF CASING:	0.675 m AGL
SCREENED INTERVAL:	From 48 m to 54 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	27/03/2007
STANDING WATER LEVEL:	3.3 m BGL
TDS:	18886 mg/L
ELECTRICAL CONDUCTIVITY:	25 mS/cm (uncompensated)
TEMPERATURE:	18.6 degree C
pH:	6.08

GEOLOGICAL DATA

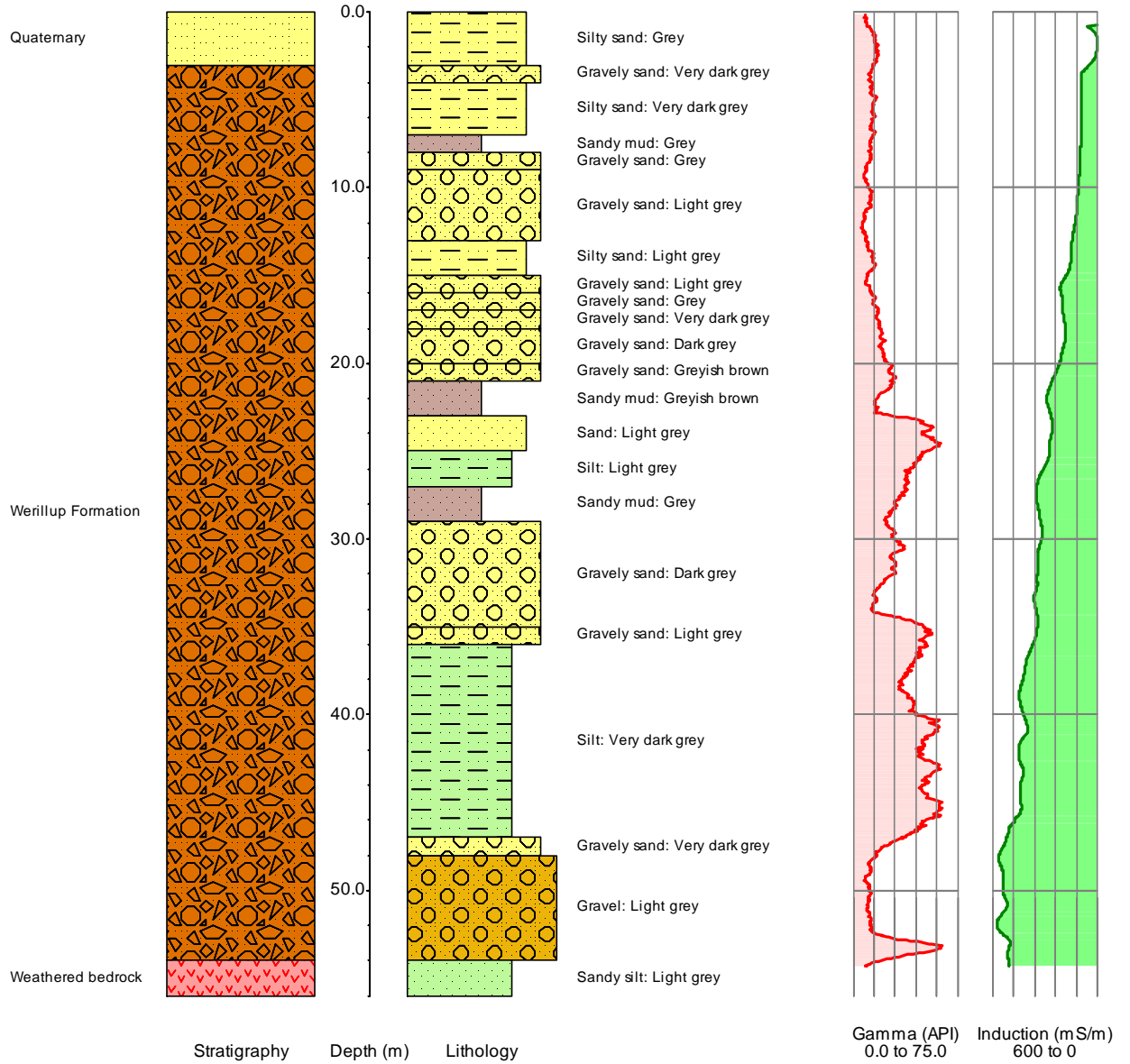
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	3.0	Quaternary	Sediments
3.0	54.0	Eocene	Werillup Formation
54.0	56.0	Proterozoic	Weathered bedrock



MU03D



BORE SITE MU03S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472200.58 mE
NORTHING:	6200723.87 mN
ELEVATION:	202.14 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	5/05/2005
DIAMETER:	122 mm
TOTAL DEPTH:	6 m BGL
TOP OF CASING:	0.06 m AGL
SCREENED INTERVAL:	From 4 m to 6 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	14/03/2007
STANDING WATER LEVEL:	2.83 m BGL
TDS:	788 mg/L
ELECTRICAL CONDUCTIVITY:	1.396 mS/cm (uncompensated)
TEMPERATURE:	20.5 degree C
pH:	5.73

BORE SITE MU04

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472323.41 mE
NORTHING:	6203572.63 mN
ELEVATION:	211.66 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	28/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	57 m BGL
TOP OF CASING:	0.715 m AGL
SCREENED INTERVAL:	From 54 m to 57 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	29/03/2007
STANDING WATER LEVEL:	7.94 m BGL
TDS:	3178 mg/L
ELECTRICAL CONDUCTIVITY:	5.65 mS/cm (uncompensated)
TEMPERATURE:	24.2 degree C
pH:	5.94

GEOLOGICAL DATA

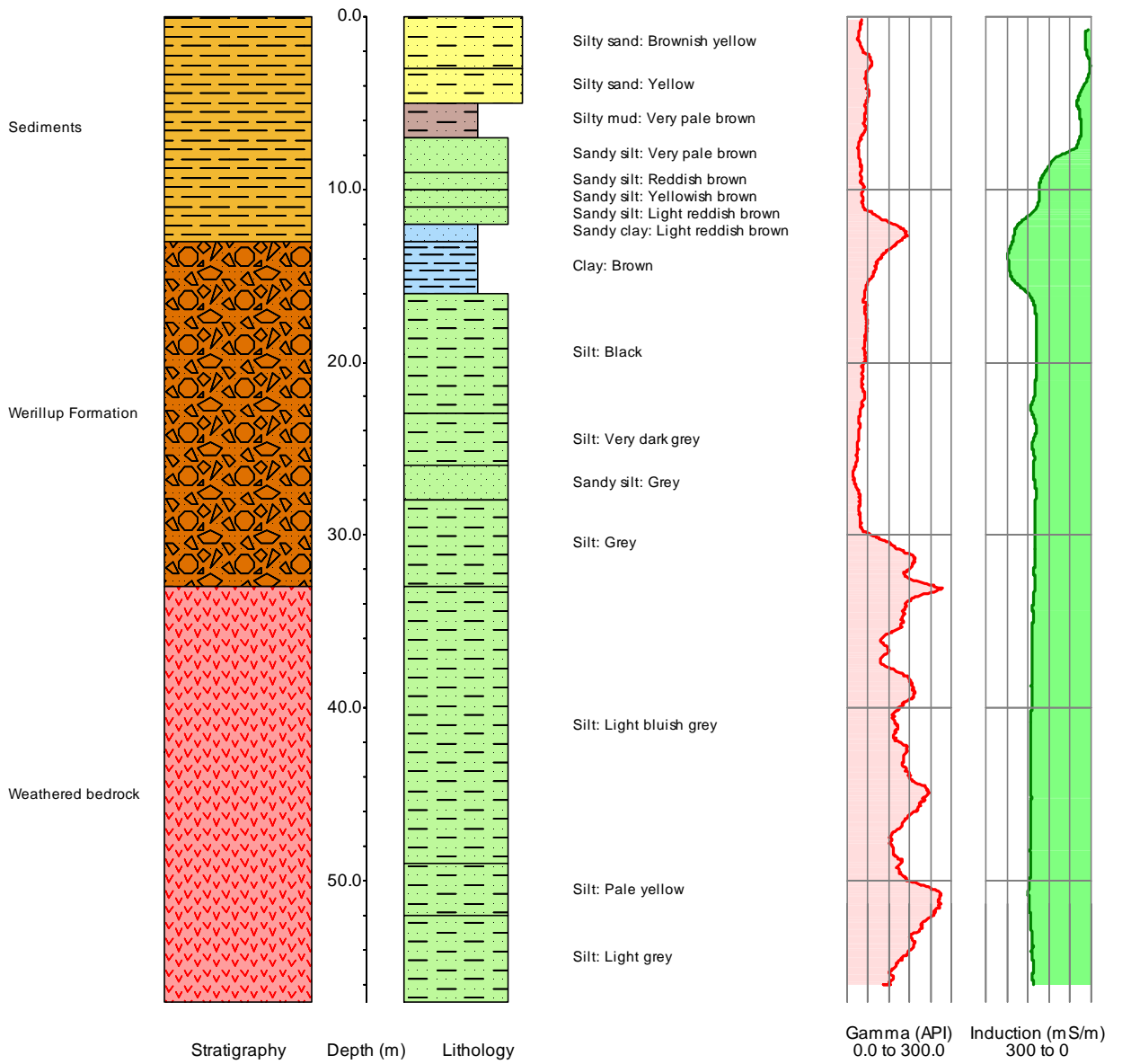
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	13.0	Quaternary	Sediments
13.0	30.0	Eocene	Werillup Formation
30.0	57.0	Proterozoic	Weathered bedrock



MU04



BORE SITE MU05D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474498.44 mE
NORTHING:	6203340.38 mN
ELEVATION:	203.41 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	21/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	36 m BGL
TOP OF CASING:	0.715 m AGL
SCREENED INTERVAL:	From 17.3 m to 23.3 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	3/03/2007
STANDING WATER LEVEL:	2.27 m BGL
TDS:	2133 mg/L
ELECTRICAL CONDUCTIVITY:	3.5 mS/cm (uncompensated)
TEMPERATURE:	18.4 degree C
pH:	5.99

GEOLOGICAL DATA

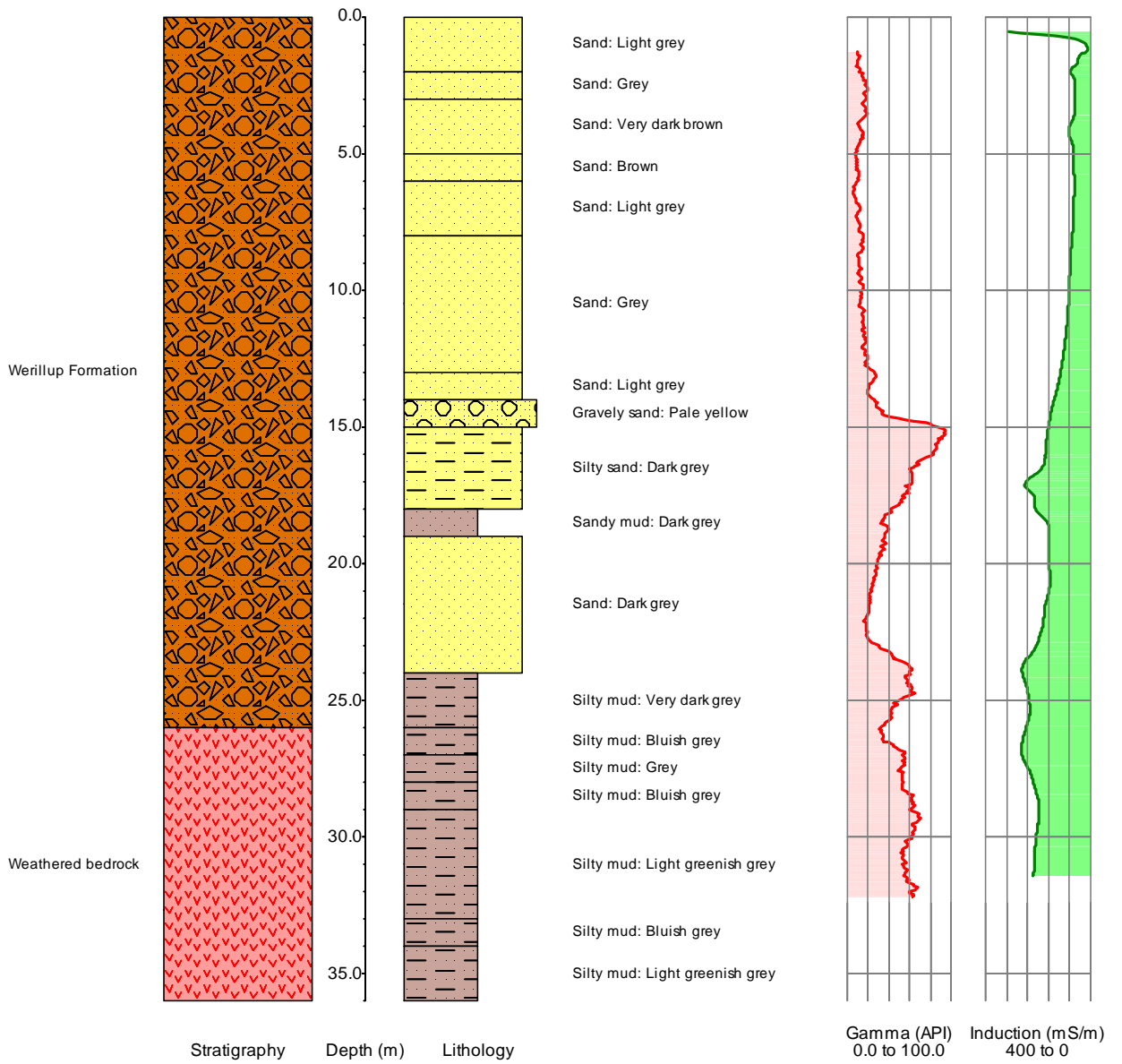
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	26.0	Eocene	Werillup Formation
26.0	36.0	Proterozoic	Weathered bedrock



MU05D



BORE SITE MU05S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474499.23 mE
NORTHING:	6203339.59 mN
ELEVATION:	203.46 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	23/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	12 m BGL
TOP OF CASING:	0.063 m AGL
SCREENED INTERVAL:	From 3 m to 12 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	3/03/2005
STANDING WATER LEVEL:	2.28 m BGL
TDS:	325 mg/L
ELECTRICAL CONDUCTIVITY:	0.5 mS/cm (uncompensated)
TEMPERATURE:	18 degree C
pH:	6.45

BORE SITE MU06

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476893.62 mE
NORTHING:	6203029.22 mN
ELEVATION:	211.23 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	1/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	21 m BGL
TOP OF CASING:	0.71 m AGL
SCREENED INTERVAL:	From 15 m to 21 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	13/03/2007
STANDING WATER LEVEL:	1.13 m BGL
TDS:	19373 mg/L
ELECTRICAL CONDUCTIVITY:	26.8 mS/cm (uncompensated)
TEMPERATURE:	20.8 degree C
pH:	5.81

GEOLOGICAL DATA

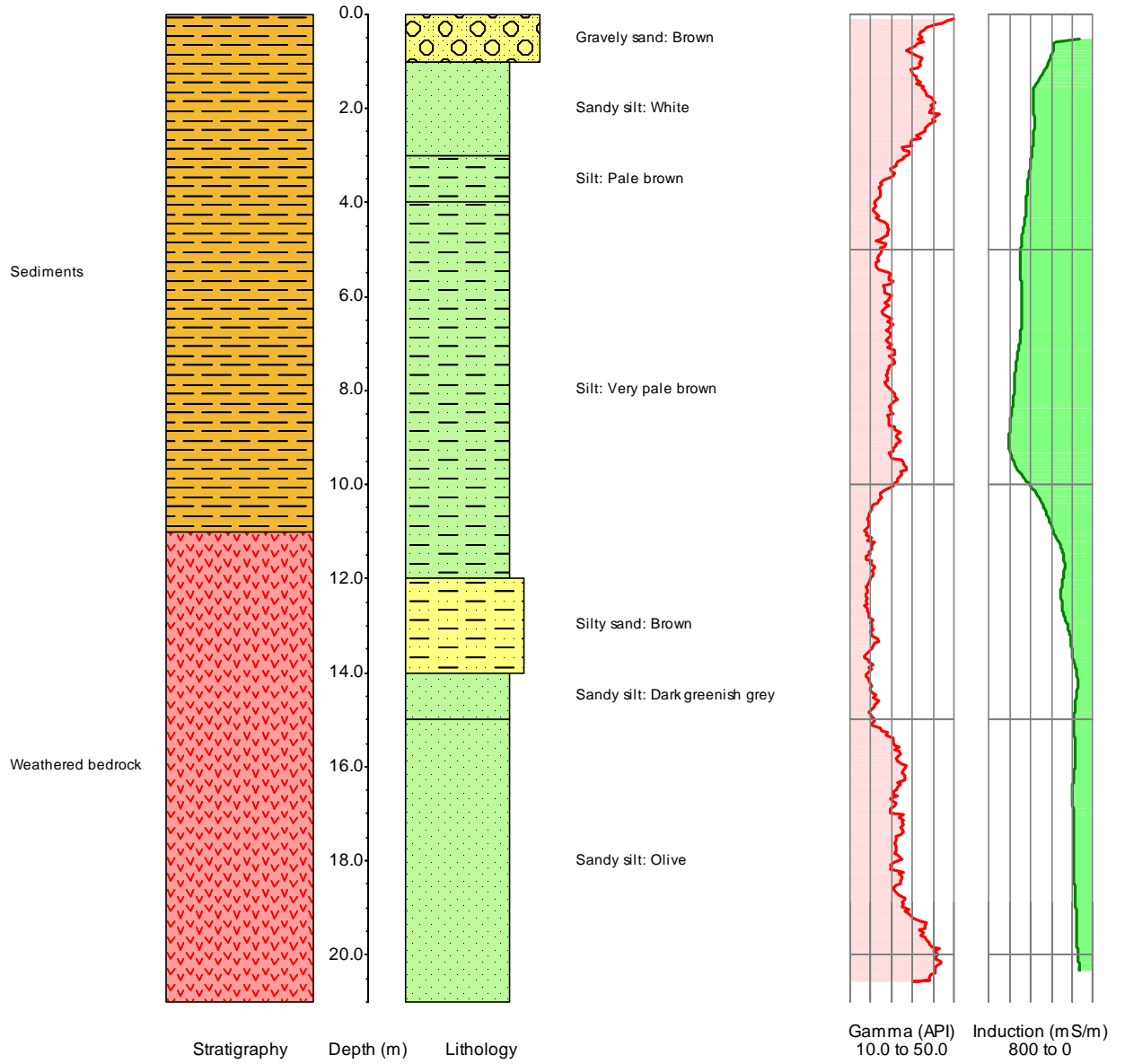
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	11.0	Quaternary	Sediments
11.0	21.0	Proterozoic	Weathered bedrock



MU06



BORE SITE MU07D

LOCATION AND IDENTIFICATION

OWNER: Department of Environment and Conservation
PREVIOUS ID:
MAP SHEET: 1:250 000 Pemberton SI 5010
COORDINATES
 DATUM: Zone 50 MGA
 EASTING: 479657.92 mE
 NORTHING: 6202003.24 mN
ELEVATION: 211.57 m AHD
PURPOSE: Exploration
STATUS: Monitoring

CONSTRUCTION

DRILLED BY: Great Southern
RIG: Wirth Multipurpose
METHOD: Air core
DRILLED: 12/05/2003
DIAMETER: 122 mm
TOTAL DEPTH: 40.5 m BGL
TOP OF CASING: 0.7 m AGL
SCREENED INTERVAL: From 37.5 m to 40.5 m BGL
CASING
 PLAIN: NB Class 9 PVC, 50 mm internal diameter
 SLOTTED: NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture

GRAVEL PACK AND SEAL
 GRAVEL PACK: 12/20 grade
 SEAL: Grout

HEADWORKS: Steel stand pipe, 0.6 m above ground level, with padlocked cap
Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE: 10/03/2005
STANDING WATER LEVEL: 1.92 m BGL
TDS: 11493 mg/L
ELECTRICAL CONDUCTIVITY: 17.7 mS/cm (uncompensated)
TEMPERATURE: 21.1 degree C
pH: Not available

GEOLOGICAL DATA

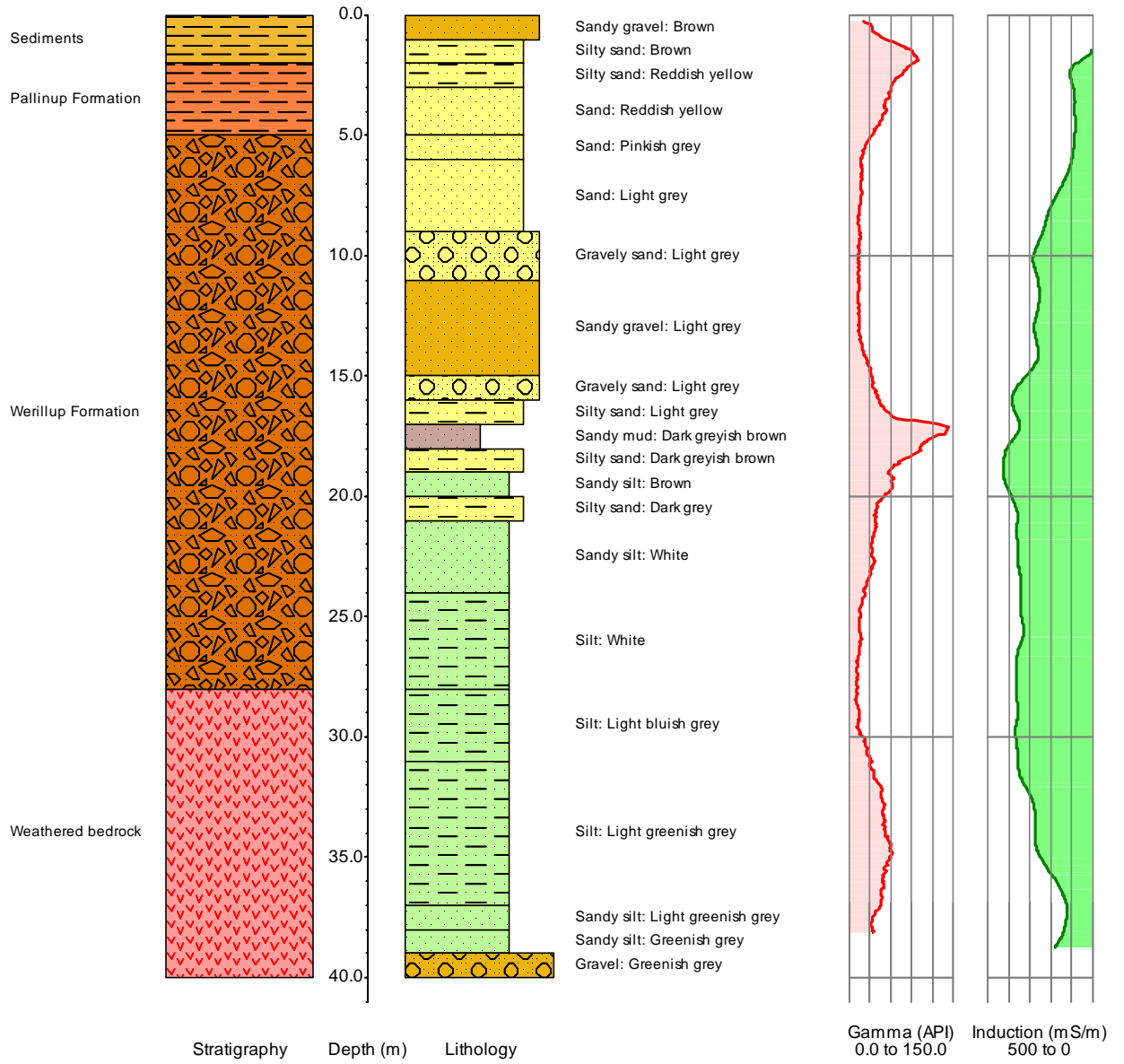
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	2.0	Quaternary	Sediments
2.0	5.0	Eocene	Pallinup Formation
5.0	27.0	Eocene	Werillup Formation
27.0	40.5	Proterozoic	Weathered bedrock



MU07D



BORE SITE MU07S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479658.69 mE
NORTHING:	6202004.38 mN
ELEVATION:	211.54 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	14/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	21 m BGL
TOP OF CASING:	0.71 m AGL
SCREENED INTERVAL:	From 15 m to 21 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	8/03/2005
STANDING WATER LEVEL:	2.93 m BGL
TDS:	11661 mg/L
ELECTRICAL CONDUCTIVITY:	17.7 mS/cm (uncompensated)
TEMPERATURE:	20.5 degree C
pH:	4.18

BORE SITE MU08

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	485963.56 mE
NORTHING:	6201545.91 mN
ELEVATION:	223.58 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	9/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	13 m BGL
TOP OF CASING:	0.565 m AGL
SCREENED INTERVAL:	From 7 m to 13 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	14/03/2007
STANDING WATER LEVEL:	0 m BGL
TDS:	12700 mg/L
ELECTRICAL CONDUCTIVITY:	18.86 mS/cm (uncompensated)
TEMPERATURE:	20.5 degree C
pH:	6.11

GEOLOGICAL DATA

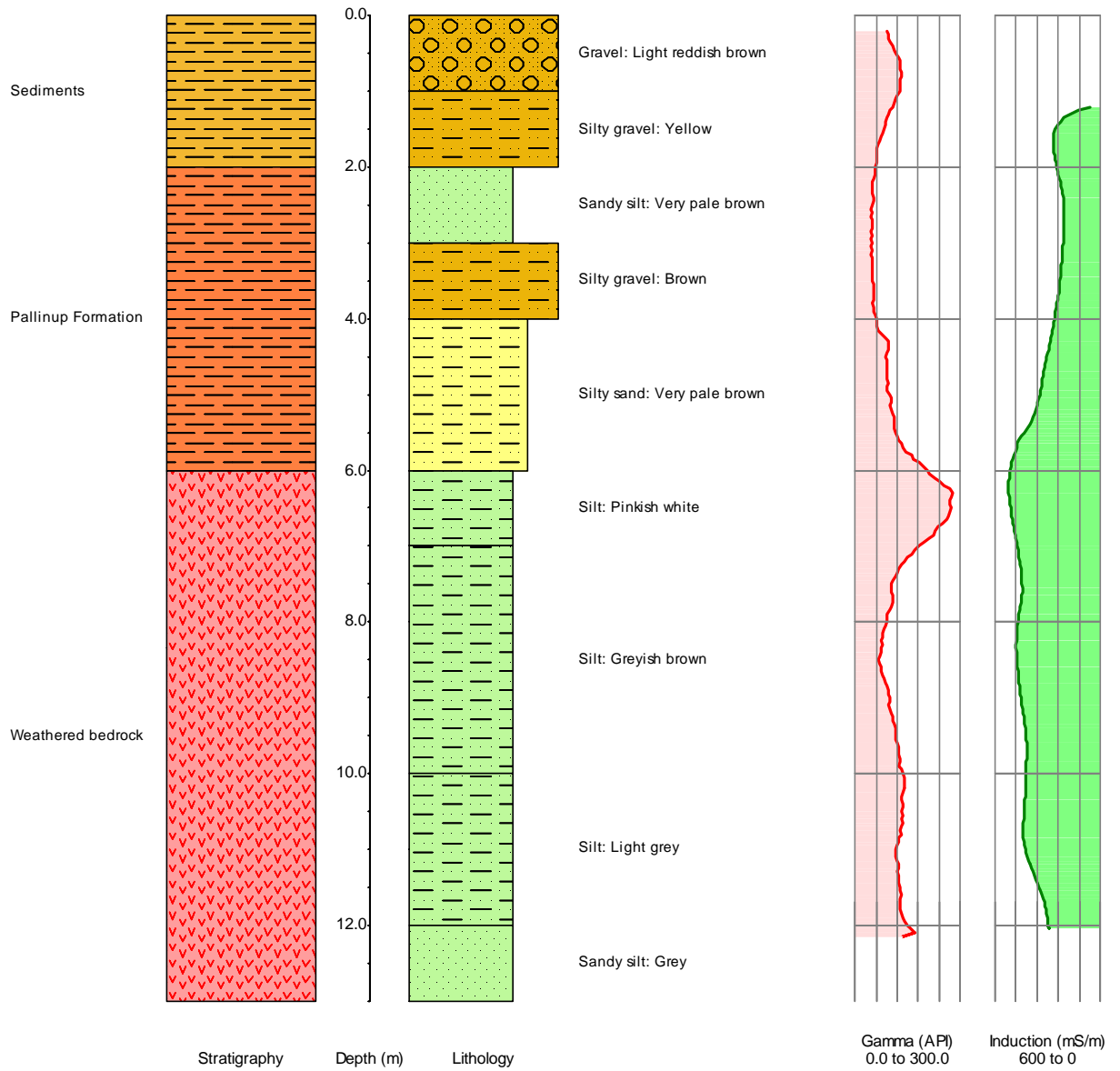
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	2.0	Quaternary	Sediments
2.0	6.0	Eocene	Pallinup Formation
6.0	13.0	Proterozoic	Weathered bedrock



MU08



BORE SITE MU09D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	487164.53 mE
NORTHING:	6202749.446 mN
ELEVATION:	237.52 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	27 m BGL
TOP OF CASING:	0.705 m AGL
SCREENED INTERVAL:	From 24 m to 27 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

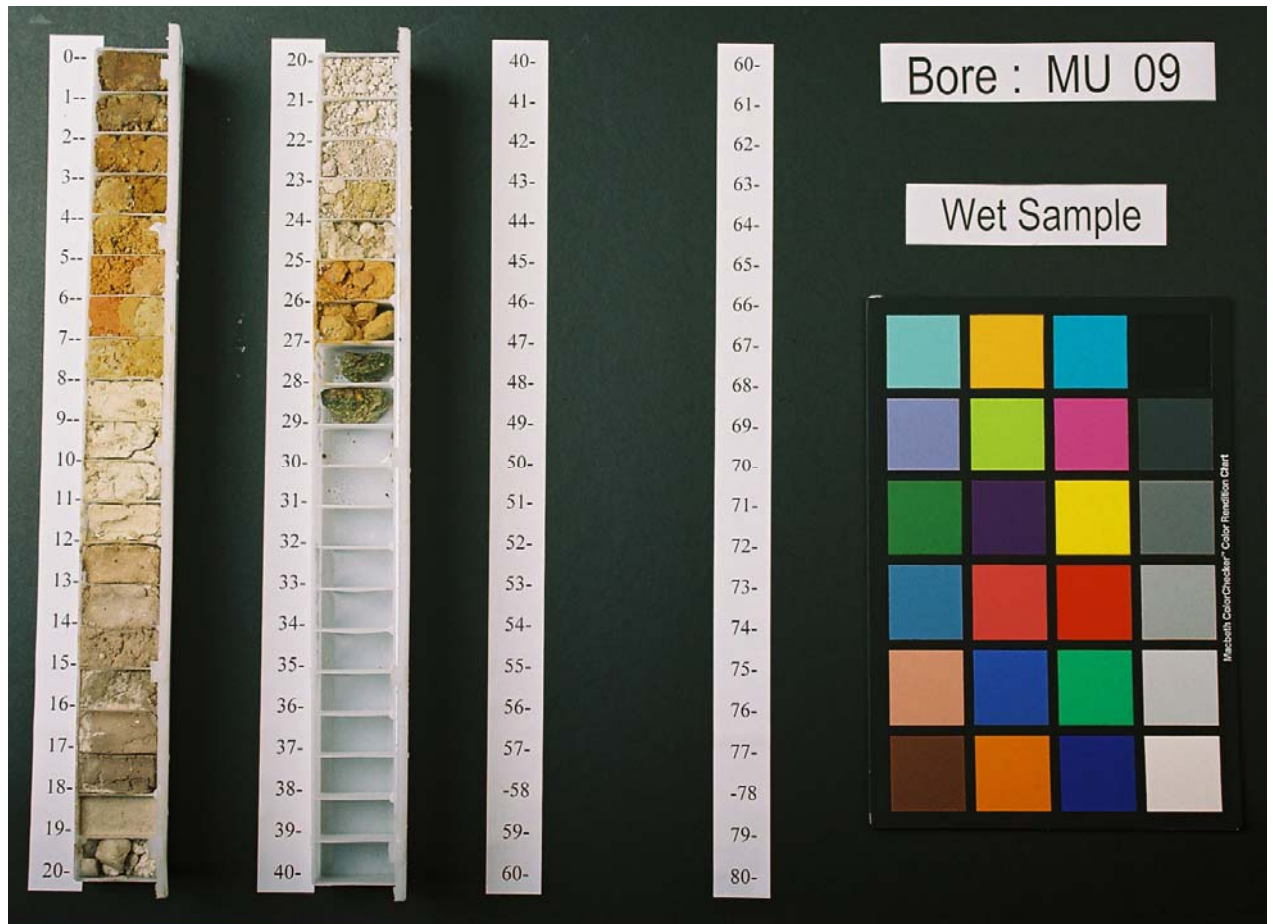
DATE:	9/03/2005
STANDING WATER LEVEL:	-0.31 m BGL
TDS:	13601 mg/L
ELECTRICAL CONDUCTIVITY:	19.5 mS/cm (uncompensated)
TEMPERATURE:	19.5 degree C
pH:	6.22

GEOLOGICAL DATA

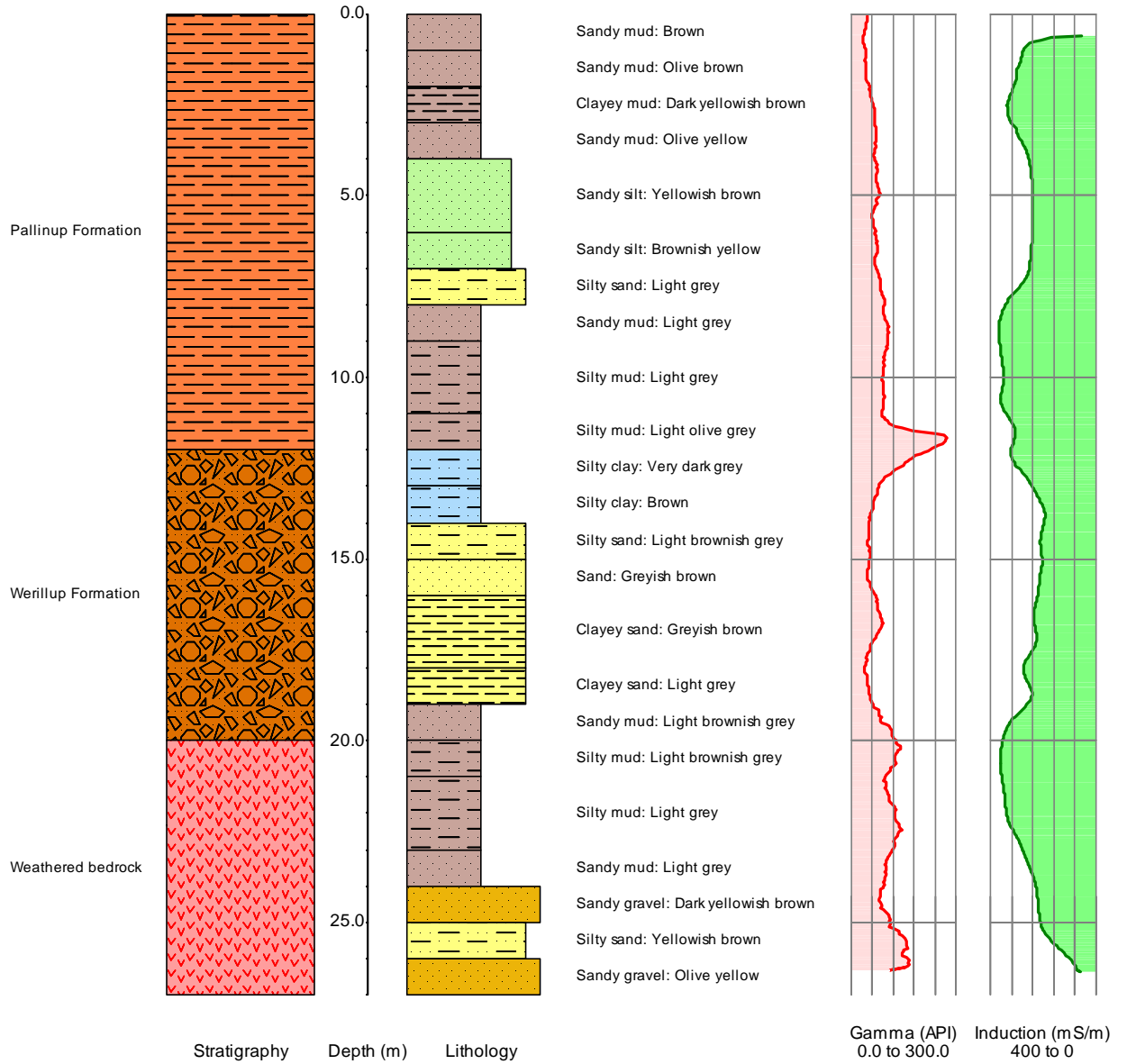
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	12.0	Eocene	Pallinup Formation
12.0	19.0	Eocene	Werillup Formation
19.0	27.0	Archaean	Weathered bedrock



MU09D



BORE SITE MU09S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	487166.064 mE
NORTHING:	6202750.699 mN
ELEVATION:	237.57 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	18 m BGL
TOP OF CASING:	0.65 m AGL
SCREENED INTERVAL:	From 11 m to 17 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	10/03/2005
STANDING WATER LEVEL:	0.01 m BGL
TDS:	9141 mg/L
ELECTRICAL CONDUCTIVITY:	14 mS/cm (uncompensated)
TEMPERATURE:	19.1 degree C
pH:	6.18

BORE SITE MU10D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	MU10
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474259.61 mE
NORTHING:	6200064.61 mN
ELEVATION:	203 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	21/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	73 m BGL
TOP OF CASING:	0.65 m AGL
SCREENED INTERVAL:	From 30 m to 36 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	3/03/2005
STANDING WATER LEVEL:	3.48 m BGL
TDS:	1317 mg/L
ELECTRICAL CONDUCTIVITY:	2.3 mS/cm (uncompensated)
TEMPERATURE:	18.8 degree C
pH:	6.37

GEOLOGICAL DATA

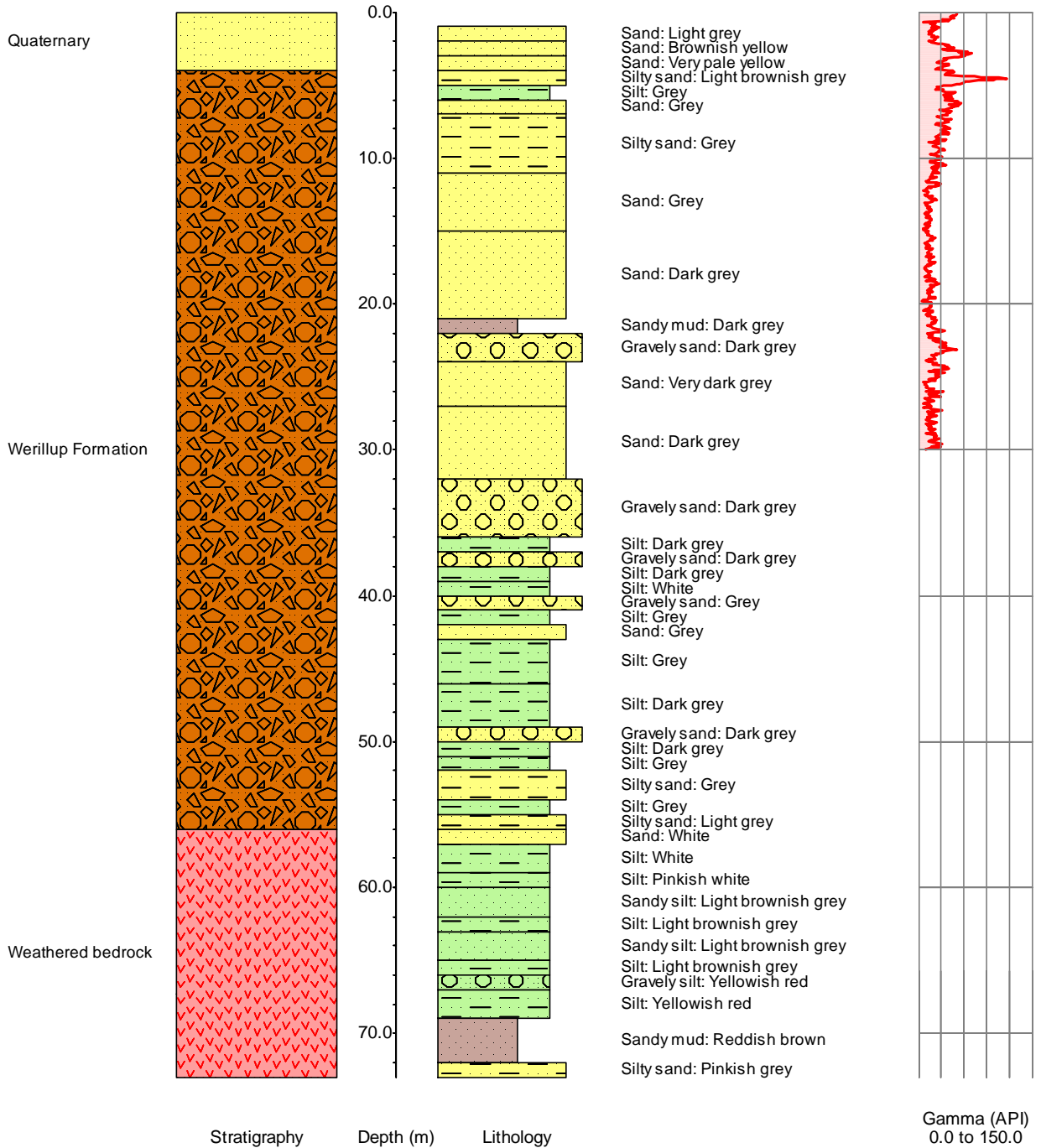
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	4.0	Quaternary	Sediments
4.0	56.0	Eocene	Werillup Formation
56.0	73.0	Proterozoic	Weathered bedrock



MU10D



BORE SITE MU10S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474258.42 mE
NORTHING:	6200065.09 mN
ELEVATION:	203.02 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	5/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	6 m BGL
TOP OF CASING:	0.685 m AGL
SCREENED INTERVAL:	From 3 m to 6 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	3/03/2005
STANDING WATER LEVEL:	3.48 m BGL
TDS:	605 mg/L
ELECTRICAL CONDUCTIVITY:	1 mS/cm (uncompensated)
TEMPERATURE:	17.8 degree C
pH:	8.1

BORE SITE MU11D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	483875.33 mE
NORTHING:	6200239.85 mN
ELEVATION:	217.83 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	7/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	66 m BGL
TOP OF CASING:	0.59 m AGL
SCREENED INTERVAL:	From 63 m to 66 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	16/03/2005
STANDING WATER LEVEL:	3.5 m BGL
TDS:	4533 mg/L
ELECTRICAL CONDUCTIVITY:	7.3 mS/cm (uncompensated)
TEMPERATURE:	20.1 degree C
pH:	7.33

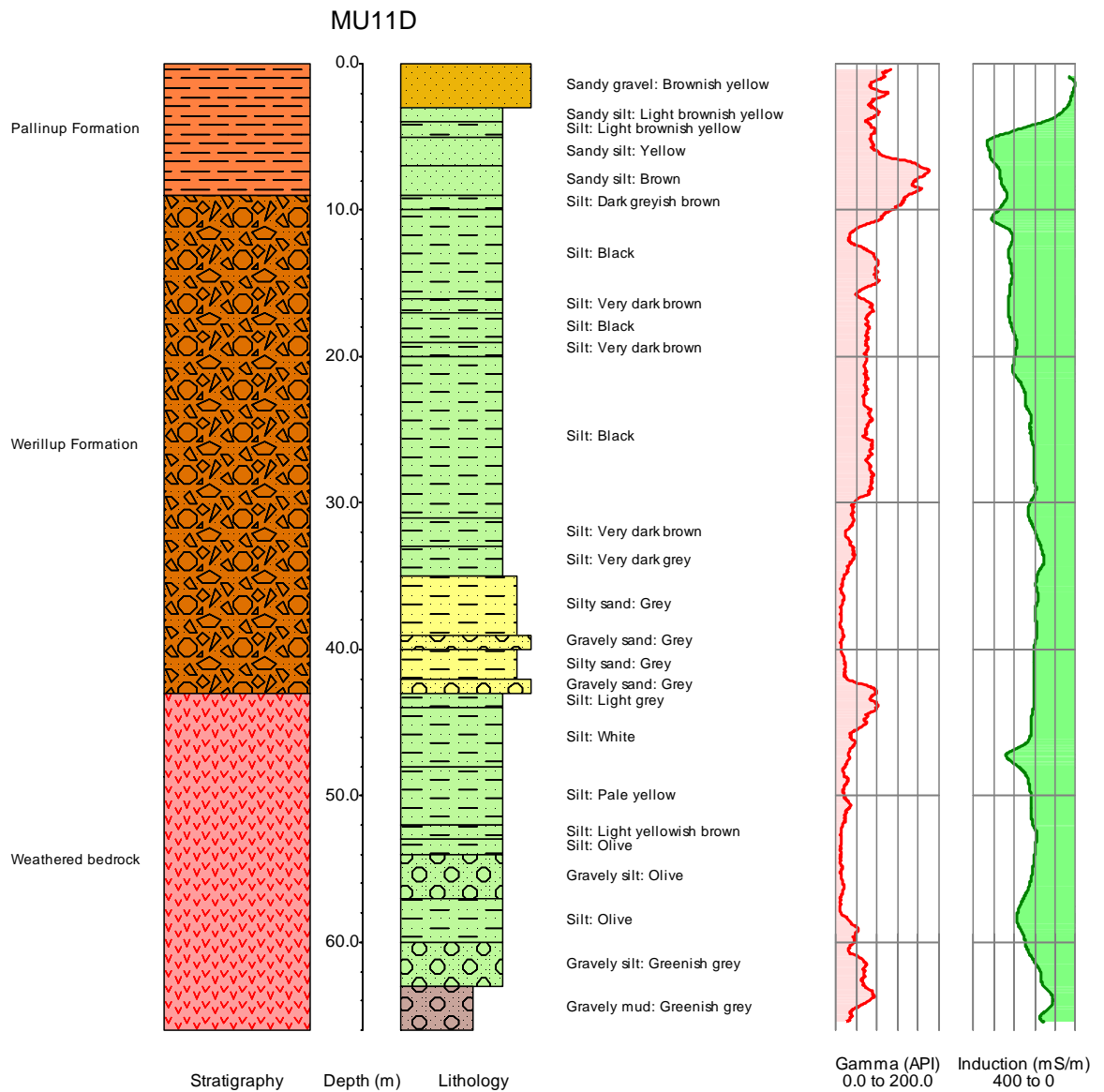
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	9.0	Eocene	Pallinup Formation
9.0	43.0	Eocene	Werillup Formation
43.0	66.0	Proterozoic	Weathered bedrock





BORE SITE MU11I

LOCATION AND IDENTIFICATION

OWNER	Department of Environment and Conservation
PREVIOUS ID:	MU11S
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES:	
DATUM:	Zone 50 MGA
EASTING:	483876.93 mE
NORTHING:	6200239.24 mN
ELEVATION:	217.84 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	8/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	43 m BGL
TOP OF CASING:	0.625 m AGL
SCREENED INTERVAL:	From 37 m to 43 m BLG
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER Sedimentary

FIELD MEASUREMENTS AFTER PUMPING

DATE:	16/03/2005
STANDING WATER LEVEL	3.67 m BGL
TDS	4367 mg/L
ELECTRICAL CONDUCTIVITY:	6.7 mS/cm (uncompensated)
TEMPERATURE:	18 degree C
pH:	6.39

BORE SITE MU12D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	487235.83 mE
NORTHING:	6200178.02 mN
ELEVATION:	222.5 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	6/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	49 m BGL
TOP OF CASING:	0.71 m AGL
SCREENED INTERVAL:	From 40 m to 49 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

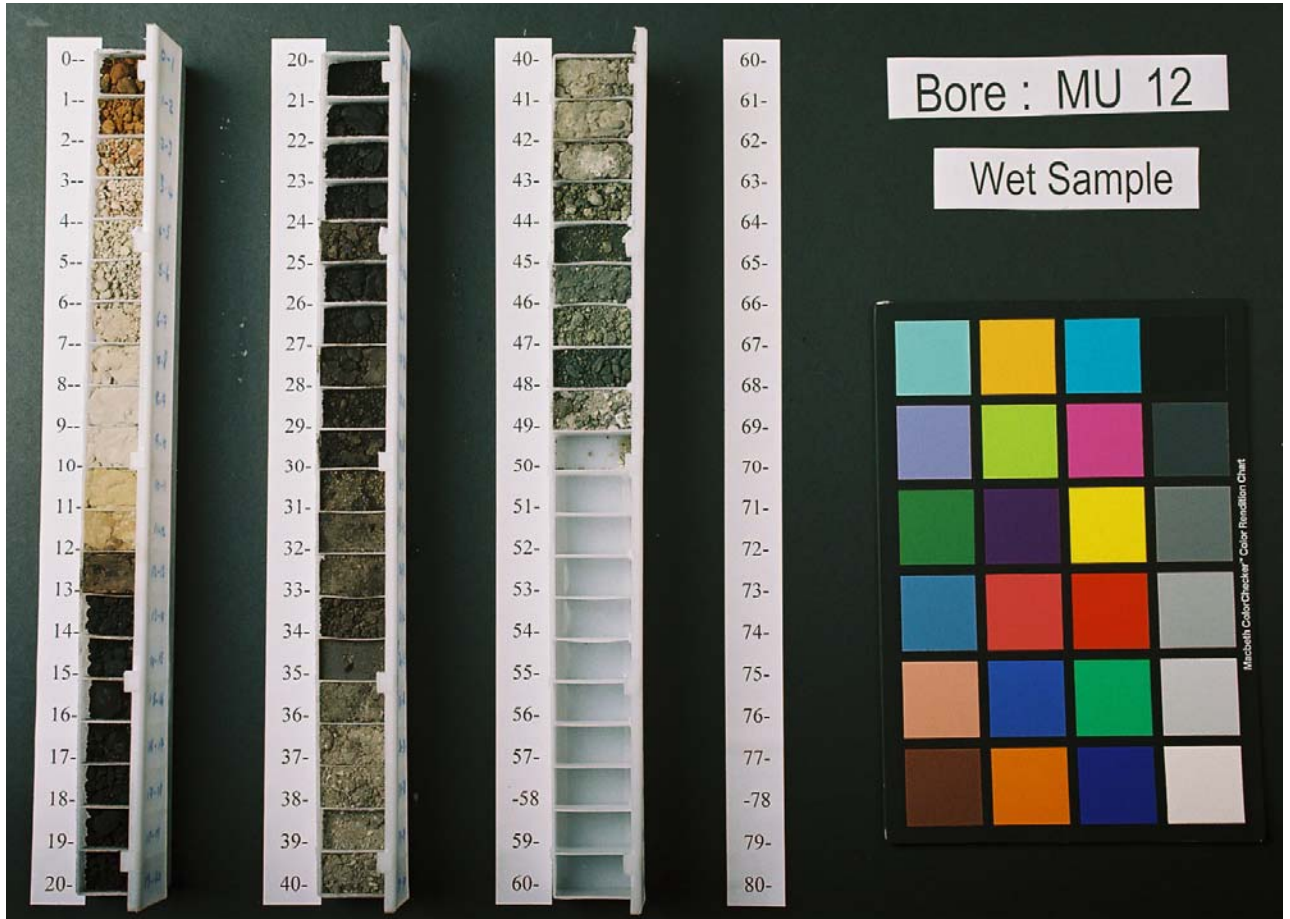
DATE:	16/03/2005
STANDING WATER LEVEL:	4.65 m BGL
TDS:	10471 mg/L
ELECTRICAL CONDUCTIVITY:	15.5 mS/cm (uncompensated)
TEMPERATURE:	18.3 degree C
pH	6.86

GEOLOGICAL DATA

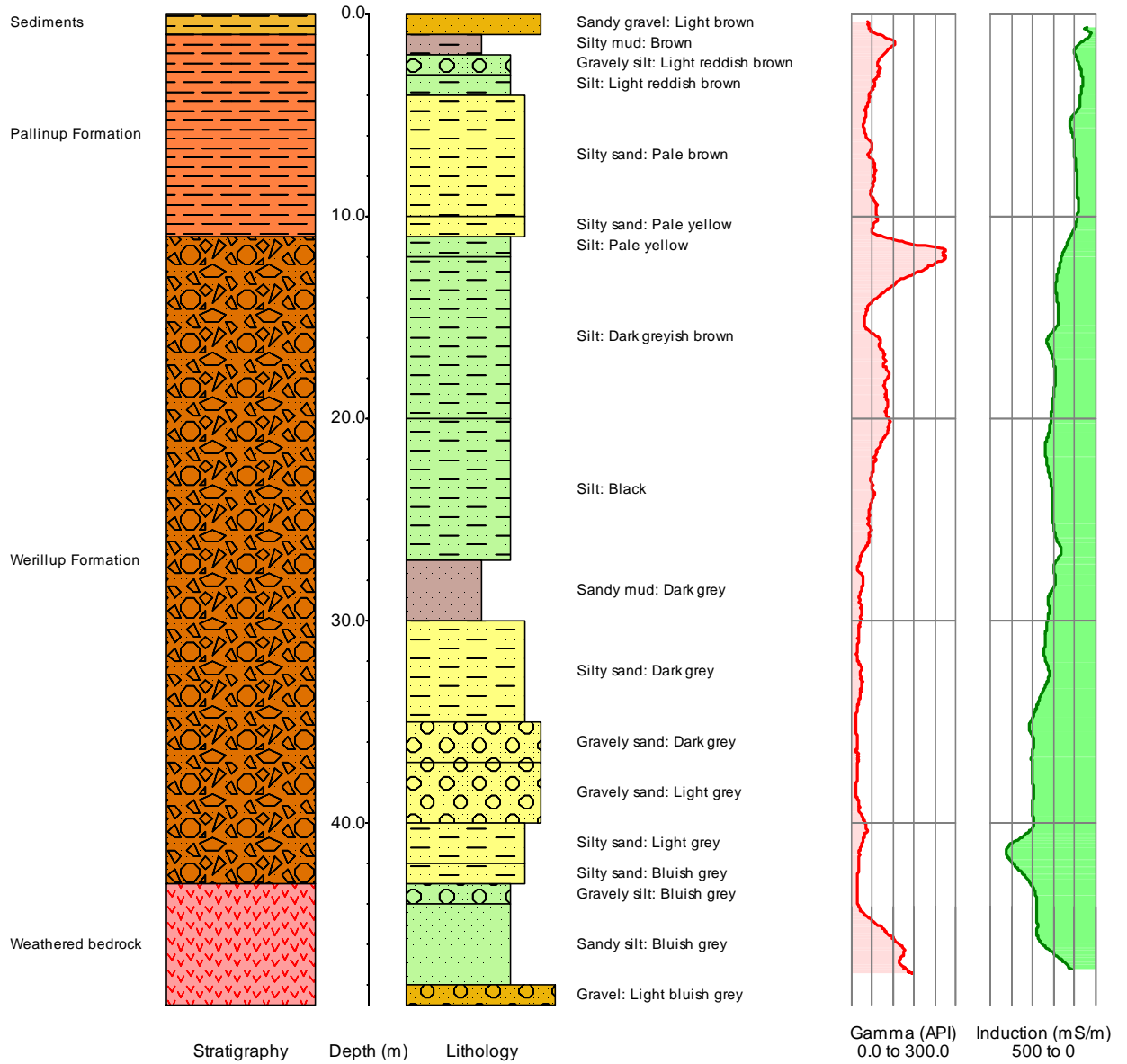
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	1.0	Quaternary	Sediments
1.0	12.0	Eocene	Pallinup Formation
12.0	43.0	Eocene	Werillup Formation
43.0	49.0	Proterozoic	Weathered bedrock



MU12D



BORE SITE MU12S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	487233.63 mE
NORTHING:	6200178.61 mN
ELEVATION:	222.47 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	7/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	14 m BGL
TOP OF CASING:	0.72 m AGL
SCREENED INTERVAL:	From 11 m to 14 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	16/03/2005
STANDING WATER LEVEL:	2.09 m BGL
TDS:	1688 mg/L
ELECTRICAL CONDUCTIVITY:	2.9 mS/cm (uncompensated)
TEMPERATURE:	19.5 degree C
pH:	6.02

BORE SITE MU13

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	MU13S
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472219.89 mE
NORTHING:	6198262.97 mN
ELEVATION:	200.21 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	30/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	39 m BGL
TOP OF CASING:	0.55 m AGL
SCREENED INTERVAL:	From 9 m to 12 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	1/05/2007
STANDING WATER LEVEL:	-0.145 m BGL
TDS:	0 mg/L
ELECTRICAL CONDUCTIVITY:	5.64 mS/cm (uncompensated)
TEMPERATURE:	16.8 degree C
pH:	4.42

GEOLOGICAL DATA

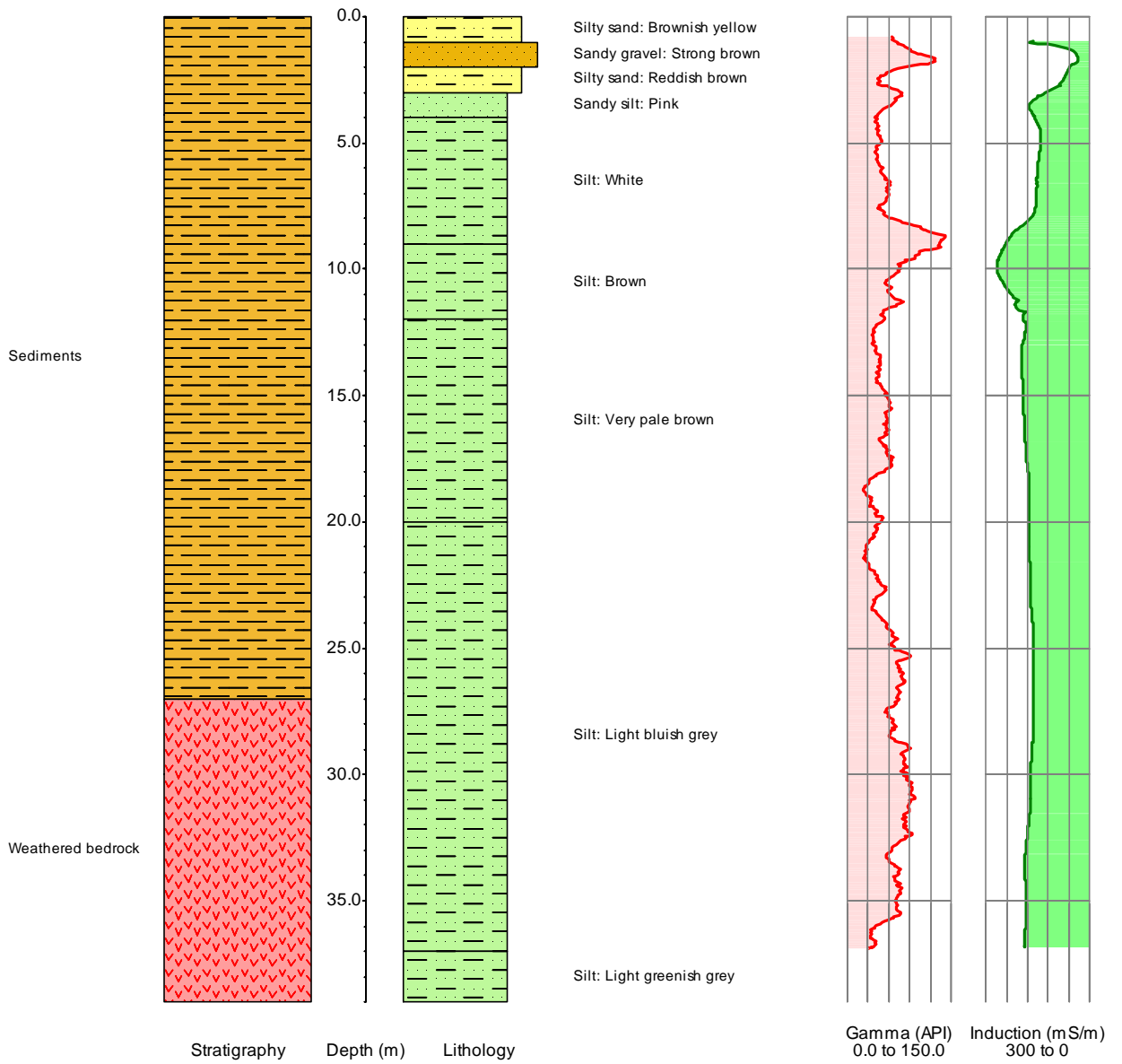
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	27.0		Sediments
27.0	39.0	Proterozoic	Weathered bedrock



MU13



BORE SITE MU14D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479188.9 mE
NORTHING:	6198621.03 mN
ELEVATION:	210.72 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	4/02/2003
DIAMETER:	122 mm
TOTAL DEPTH:	42 m BGL
TOP OF CASING:	0.665 m AGL
SCREENED INTERVAL:	From 33 m to 39 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	14/03/2005
STANDING WATER LEVEL:	3.1 m BGL
TDS:	5319 mg/L
ELECTRICAL CONDUCTIVITY:	8 mS/cm (uncompensated)
TEMPERATURE:	17.4 degree C
pH:	5.77

GEOLOGICAL DATA

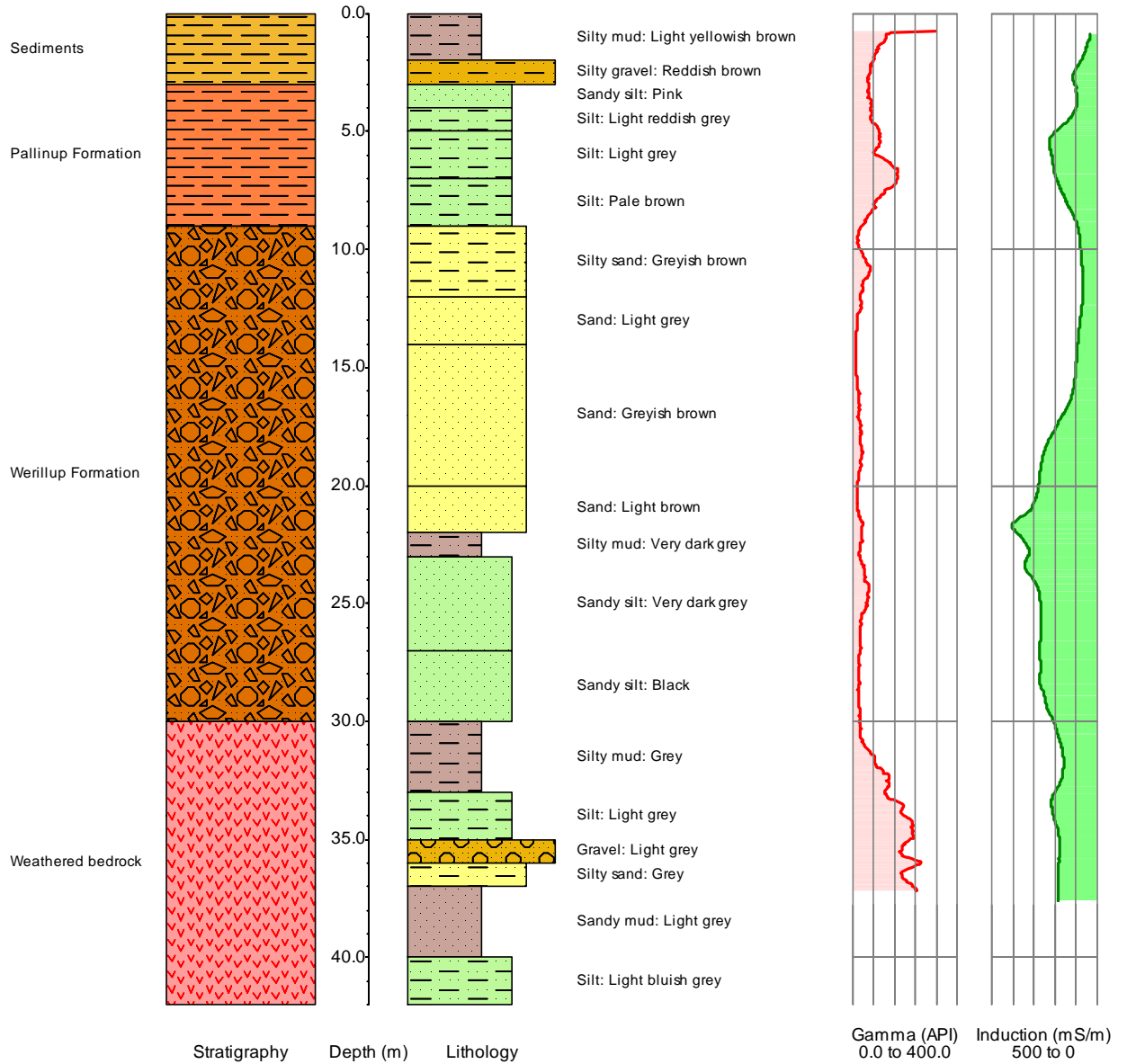
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	3.0	Quaternary	Sediments
3.0	9.0	Eocene	Pallinup Formation
9.0	30.0	Eocene	Werillup Formation
30.0	42.0	Proterozoic	Weathered bedrock



MU14D



BORE SITE MU14S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479189.98 mE
NORTHING:	6198617.26 mN
ELEVATION:	210.74 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	6/02/2003
DIAMETER:	122 mm
TOTAL DEPTH:	22.5 m BGL
TOP OF CASING:	0.73 m AGL
SCREENED INTERVAL:	From 16.5 m to 22.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	14/03/2005
STANDING WATER LEVEL:	2.91 m BGL
TDS:	3279 mg/L
ELECTRICAL CONDUCTIVITY:	5 mS/cm (uncompensated)
TEMPERATURE:	17.2 degree C
pH:	5.4

BORE SITE MU15D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	480494.65 mE
NORTHING:	6199185.66 mN
ELEVATION:	212.18 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	30/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	31 m BGL
TOP OF CASING:	0.72 m AGL
SCREENED INTERVAL:	From 25.5 m to 28.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2005
STANDING WATER LEVEL:	3.44 m BGL
TDS:	5295 mg/L
ELECTRICAL CONDUCTIVITY:	8.4 mS/cm (uncompensated)
TEMPERATURE:	20 degree C
pH:	6.0

GEOLOGICAL DATA

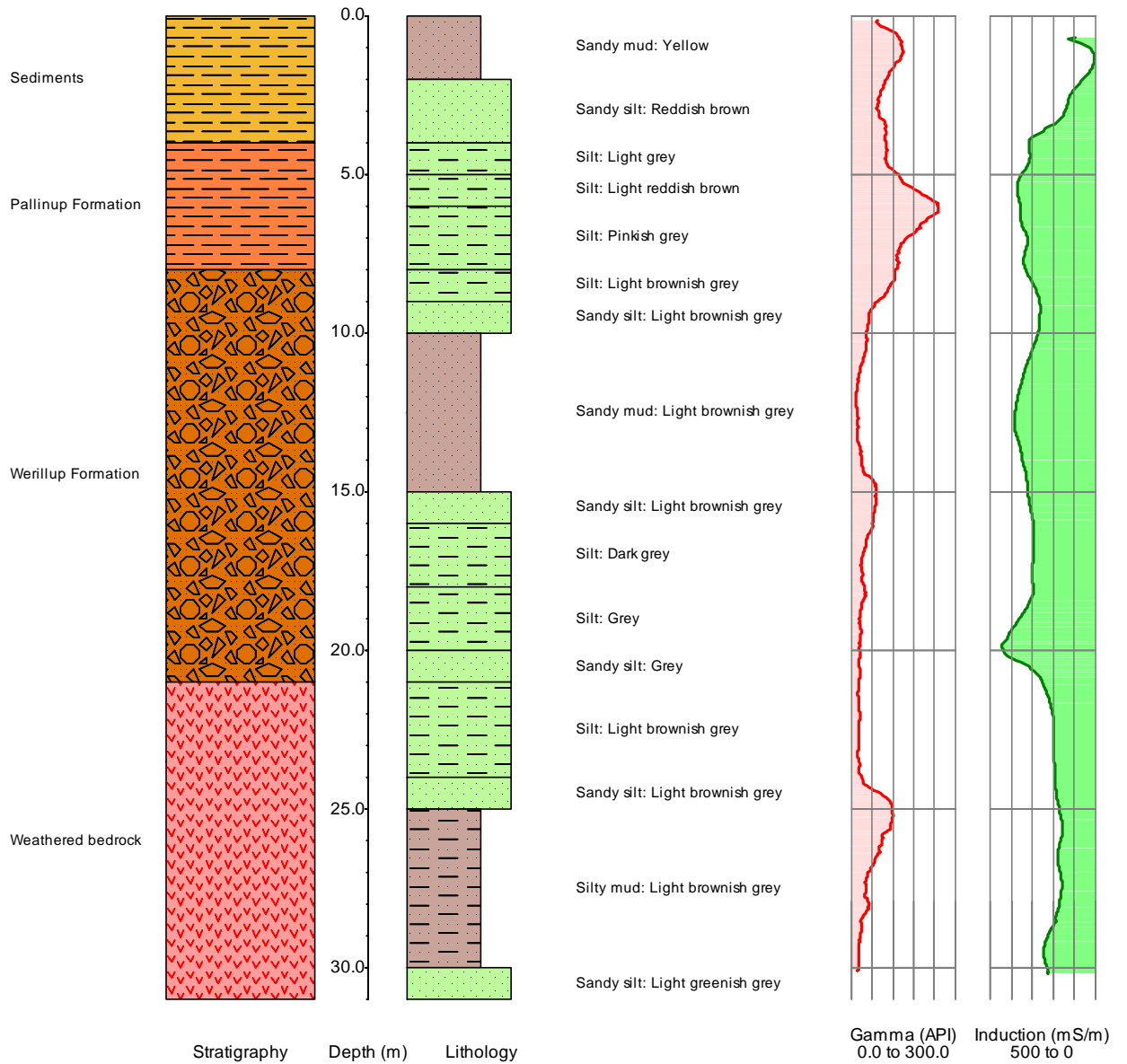
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	4.0	Quaternary	Sediments
4.0	8.0	Eocene	Pallinup Formation
8.0	21.0	Eocene	Werillup Formation
21.0	31.0	Proterozoic	Weathered bedrock



MU15D



BORE SITE MU15S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	480492.84 mE
NORTHING:	6199187.35 mN
ELEVATION:	212.25 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	31/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	15 m BGL
TOP OF CASING:	0.67 m AGL
SCREENED INTERVAL:	From 12 m to 15 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2005
STANDING WATER LEVEL:	3.87 m BGL
TDS:	8759 mg/L
ELECTRICAL CONDUCTIVITY:	13.1 mS/cm (uncompensated)
TEMPERATURE:	17.9 degree C
pH:	3.95

BORE SITE MU16D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	485454.23 mE
NORTHING:	6199387.93 mN
ELEVATION:	220.48 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	55.5 m BGL
TOP OF CASING:	0.84 m AGL
SCREENED INTERVAL:	From 52.5 m to 55.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

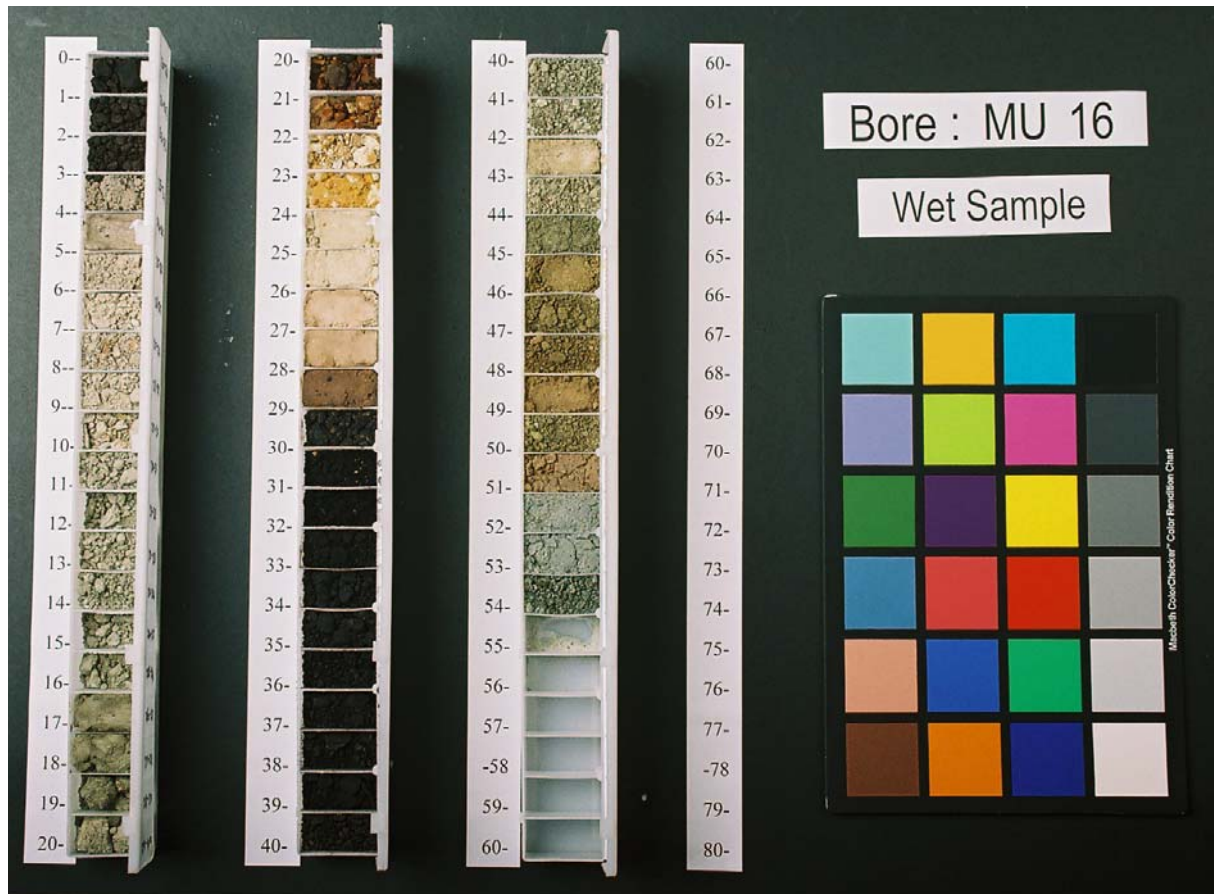
DATE:	15/03/2005
STANDING WATER LEVEL:	2.17 m BGL
TDS:	2165 mg/L
ELECTRICAL CONDUCTIVITY:	3.6 mS/cm (uncompensated)
TEMPERATURE:	19.1 degree C
pH:	7.48

GEOLOGICAL DATA

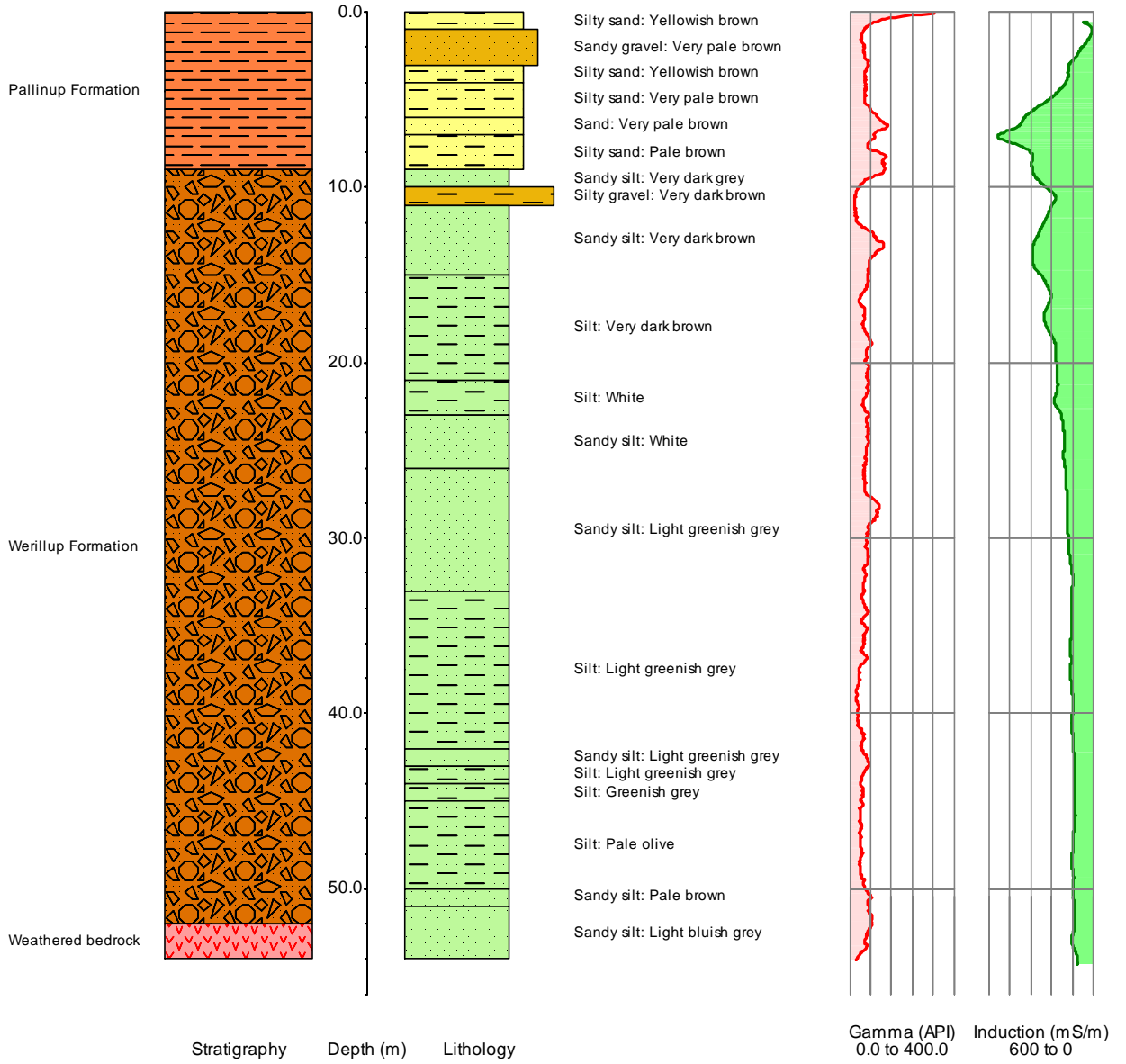
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	9.0	Eocene	Pallinup Formation
9.0	52.0	Eocene	Werillup Formation
52.0	54.0	Proterozoic	Weathered bedrock



MU16D



BORE SITE MU16S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	485454.11 mE
NORTHING:	6199390.3 mN
ELEVATION:	220.4 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	20/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	9 m BGL
TOP OF CASING:	0.78 m AGL
SCREENED INTERVAL:	From 6 m to 9 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2005
STANDING WATER LEVEL:	4.38 m BGL
TDS:	7859 mg/L
ELECTRICAL CONDUCTIVITY:	7859
TEMPERATURE:	17.8 degree C
pH:	4.09

BORE SITE MU17

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472539.26 mE
NORTHING:	6197329.56 mN
ELEVATION:	205.41 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	29/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	24 m BGL
TOP OF CASING:	0.53 m AGL
SCREENED INTERVAL:	From 17 m to 23 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

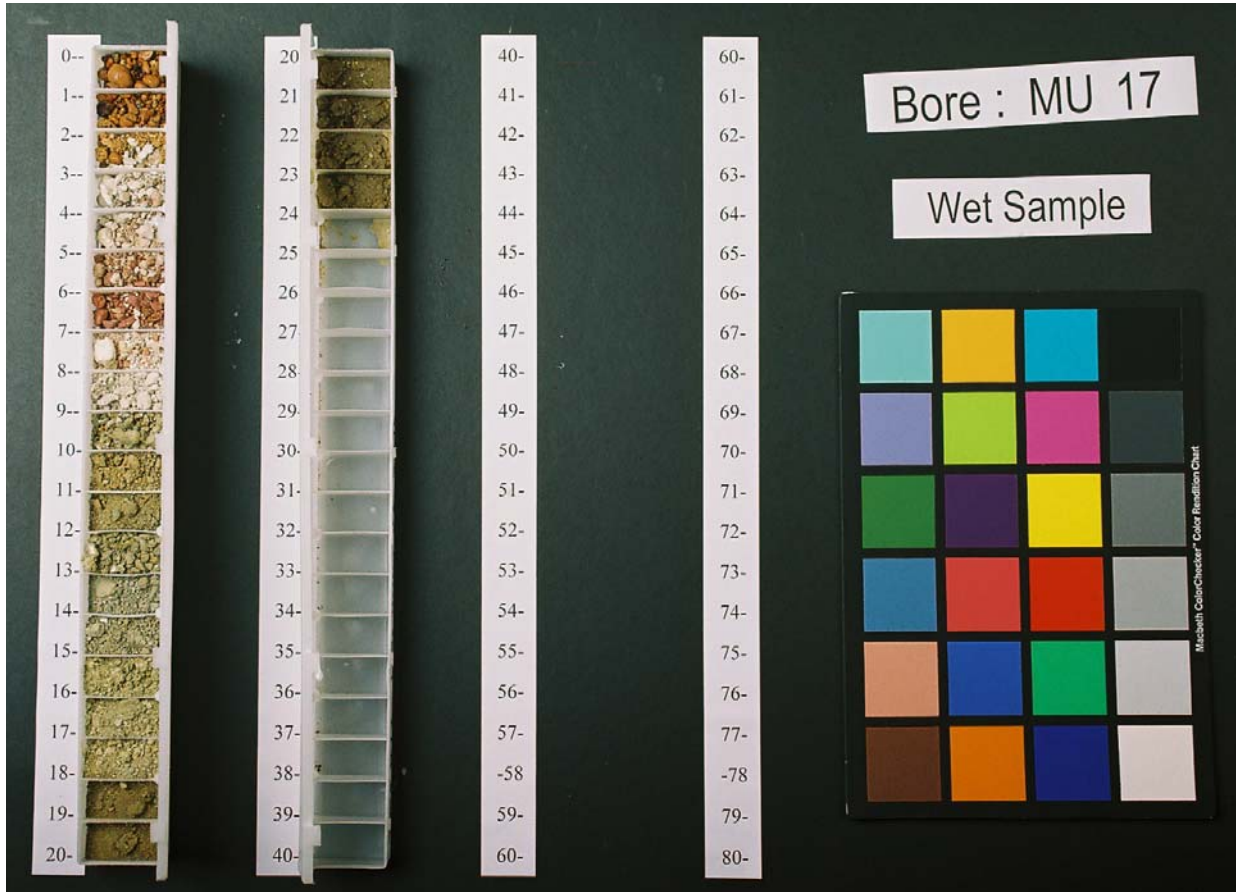
DATE:	10/05/2007
STANDING WATER LEVEL:	-0.73 m BGL
TDS:	12070 mg/L
ELECTRICAL CONDUCTIVITY:	17.35 mS/cm (uncompensated)
TEMPERATURE:	18.5 degree C
pH:	5.05

GEOLOGICAL DATA

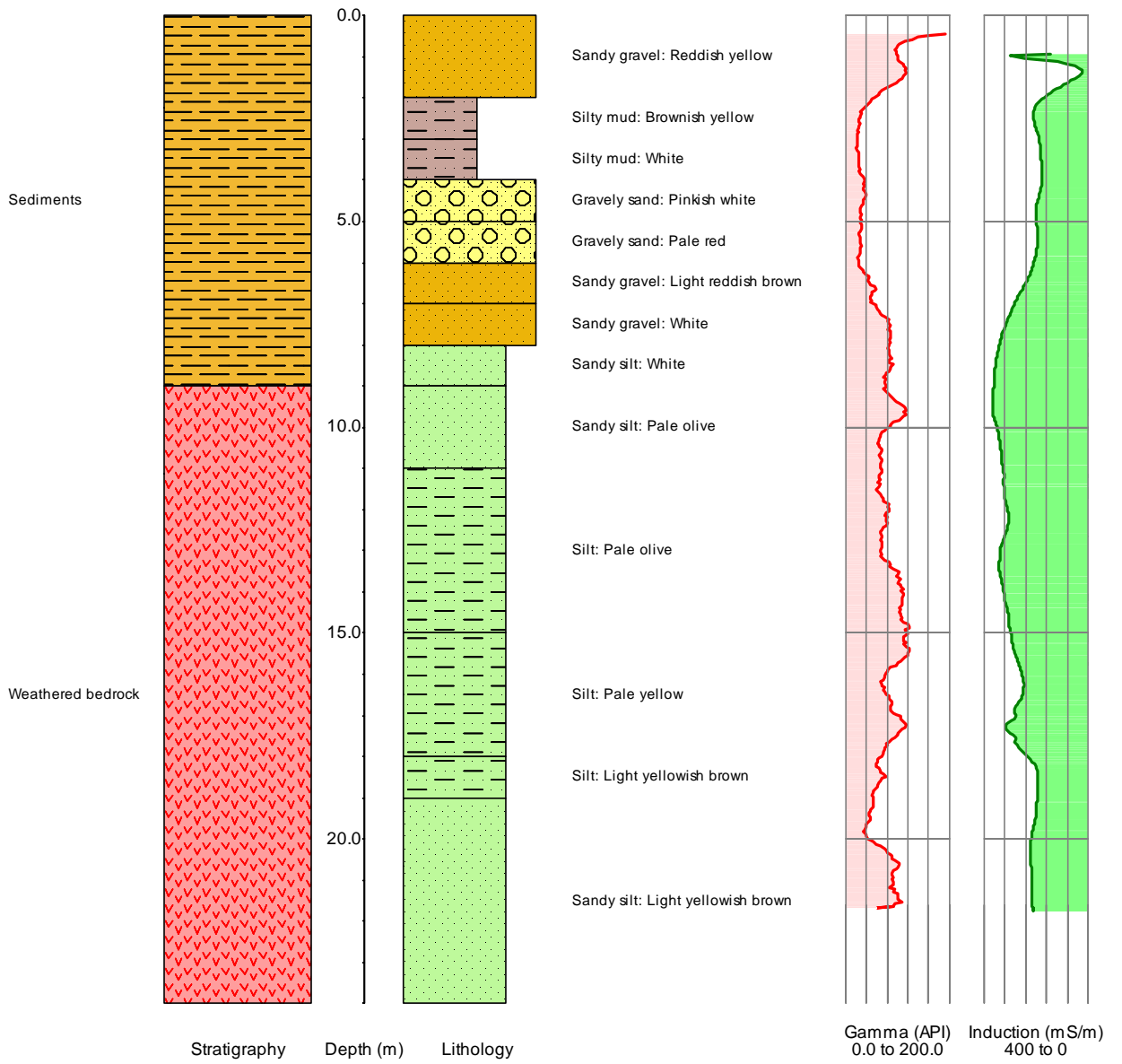
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	9.0	Quaternary	Sediments
9.0	24.0	Proterozoic	Weathered bedrock



MU17



BORE SITE MU18D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474369.56 mE
NORTHING:	6196483.25 mN
ELEVATION:	201.02 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	28/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	54 m BGL
TOP OF CASING:	0.55 m AGL
SCREENED INTERVAL:	From 51 m to 54 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2005
STANDING WATER LEVEL:	8.94 m BGL
TDS:	4402 mg/L
ELECTRICAL CONDUCTIVITY:	7.3 mS/cm (uncompensated)
TEMPERATURE:	21.6 degree C
pH:	6.24

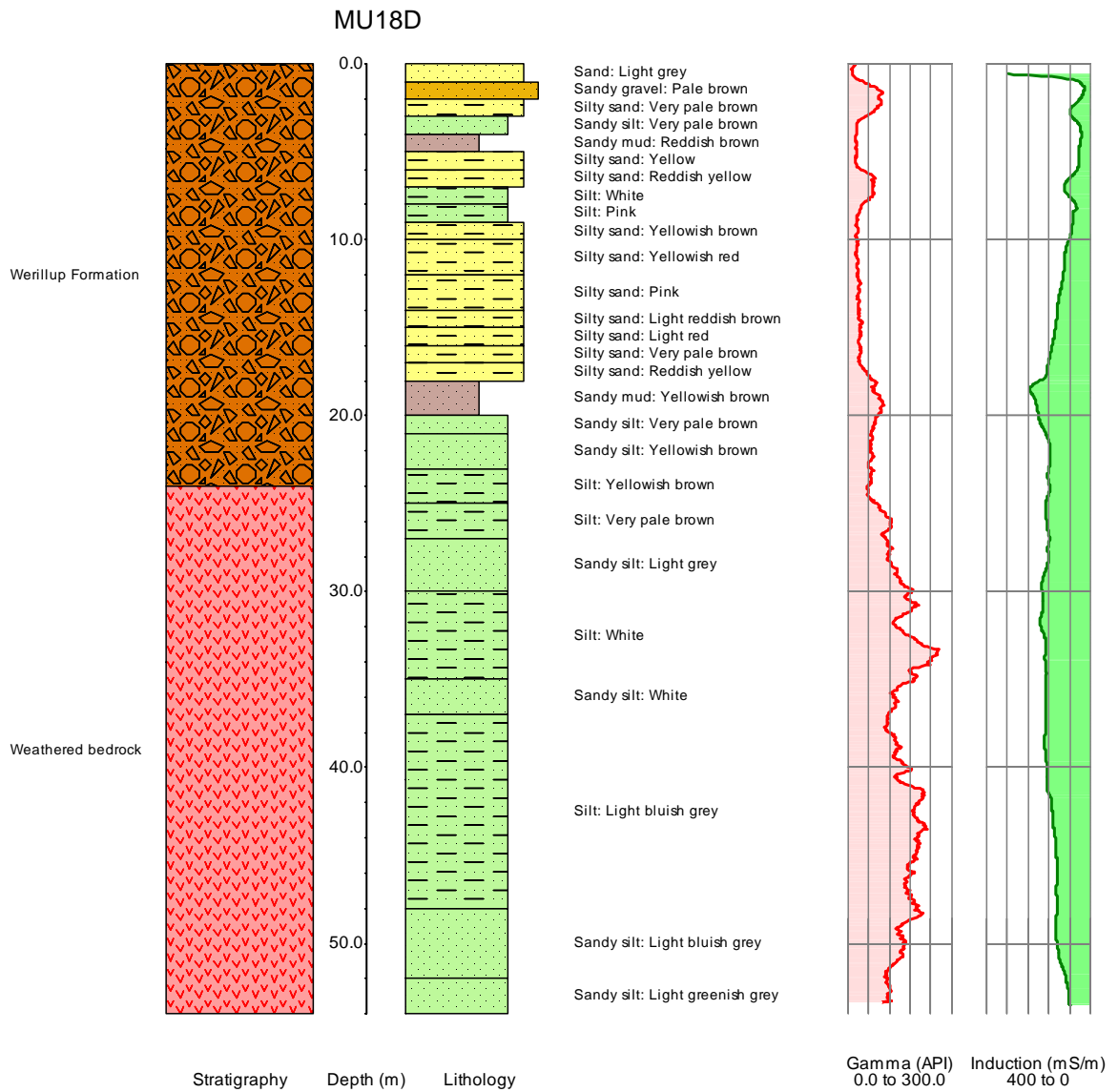
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	24.0	Eocene	Werillup Formation
24.0	54.0	Proterozoic	Weathered bedrock





BORE SITE MU18S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474369.48 mE
NORTHING:	6196485.53 mN
ELEVATION:	201.01 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	29/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	18 m BGL
TOP OF CASING:	0.45 m AGL
SCREENED INTERVAL:	From 12 m to 18 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2005
STANDING WATER LEVEL:	9.22 m BGL
TDS:	1484 mg/L
ELECTRICAL CONDUCTIVITY:	2.5 mS/cm (uncompensated)
TEMPERATURE:	18 degree C
pH:	5.23

BORE SITE MU19D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	MU19
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476913.65 mE
NORTHING:	6197513.56 mN
ELEVATION:	209.36 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	29/01/2003
DIAMETER:	122 mm
TOTAL DEPTH:	44 m BGL
TOP OF CASING:	0.795 m AGL
SCREENED INTERVAL:	From 14.5 m to 17.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	7/12/2006
STANDING WATER LEVEL:	3.74 m BGL
TDS:	6468 mg/L
ELECTRICAL CONDUCTIVITY:	9.4 mS/cm (uncompensated)
TEMPERATURE:	16.2 degree C
pH:	5.55

GEOLOGICAL DATA

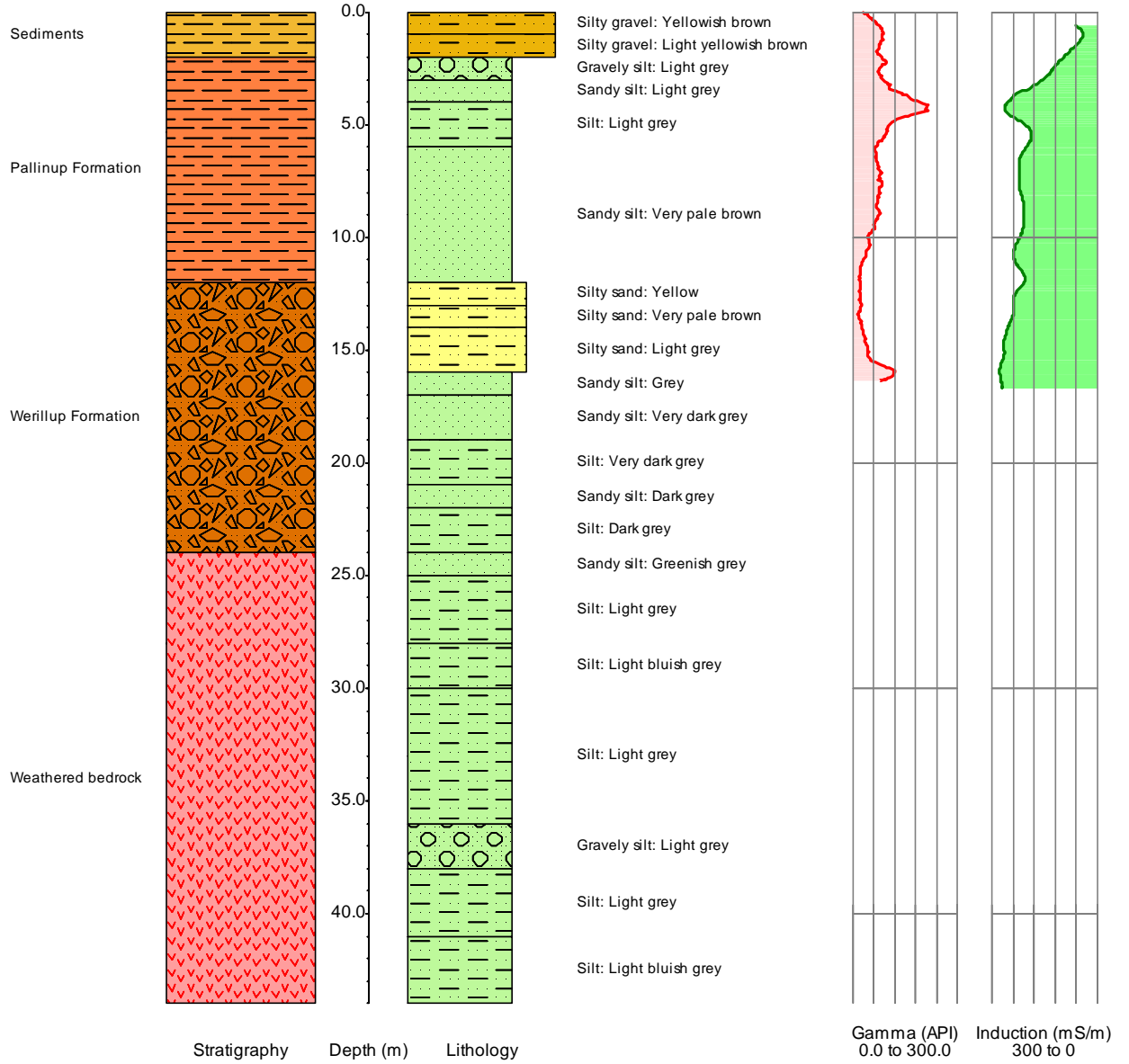
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	2.0	Quaternary	Sediments
2.0	12.0	Eocene	Pallinup Formation
12.0	24.0	Eocene	Werillup Formation
24.0	44.0	Proterozoic	Weathered bedrock



MU19D



BORE SITE MU19S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476913.65 mE
NORTHING:	6197514.39 mN
ELEVATION:	209.4 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	5/05/2005
DIAMETER:	122 mm
TOTAL DEPTH:	4 m BGL
TOP OF CASING:	0.75 m AGL
SCREENED INTERVAL:	From 2 m to 4 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	7/12/2006
STANDING WATER LEVEL:	Dry when sampled
TDS:	Dry when sampled
ELECTRICAL CONDUCTIVITY:	Dry when sampled
TEMPERATURE:	Dry when sampled
pH:	Dry when sampled

BORE SITE MU20

LOCATION AND IDENTIFICATION

OWNER: Department of Environment and Conservation
PREVIOUS ID:
MAP SHEET: 1:250 000 Pemberton SI 5010
COORDINATES
 DATUM: Zone 50 MGA
 EASTING: 487909.95 mE
 NORTHING: 6195438.29 mN
ELEVATION: 251.9 m AHD
PURPOSE: Exploration
STATUS: Monitoring

CONSTRUCTION

DRILLED BY: Great Southern
RIG: Wirth Multipurpose
METHOD: Air core
DRILLED: 1/05/2003
DIAMETER: 122 mm
TOTAL DEPTH: 22 m BGL
TOP OF CASING: 0.74 m AGL
SCREENED INTERVAL: From 19 m to 22 m BGL
CASING
 PLAIN: NB Class 9 PVC, 50 mm internal diameter
 SLOTTED: NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture

GRAVEL PACK AND SEAL
 GRAVEL PACK: 12/20 grade
 SEAL: Grout

HEADWORKS: Steel stand pipe, 0.6 m above ground level, with padlocked cap
Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE: 20/05/2004
STANDING WATER LEVEL: 5.91 m BGL
TDS: 10878 mg/L
ELECTRICAL CONDUCTIVITY: 15.58 mS/cm (uncompensated)
TEMPERATURE: 17.2 degree C
pH: 5.08

GEOLOGICAL DATA

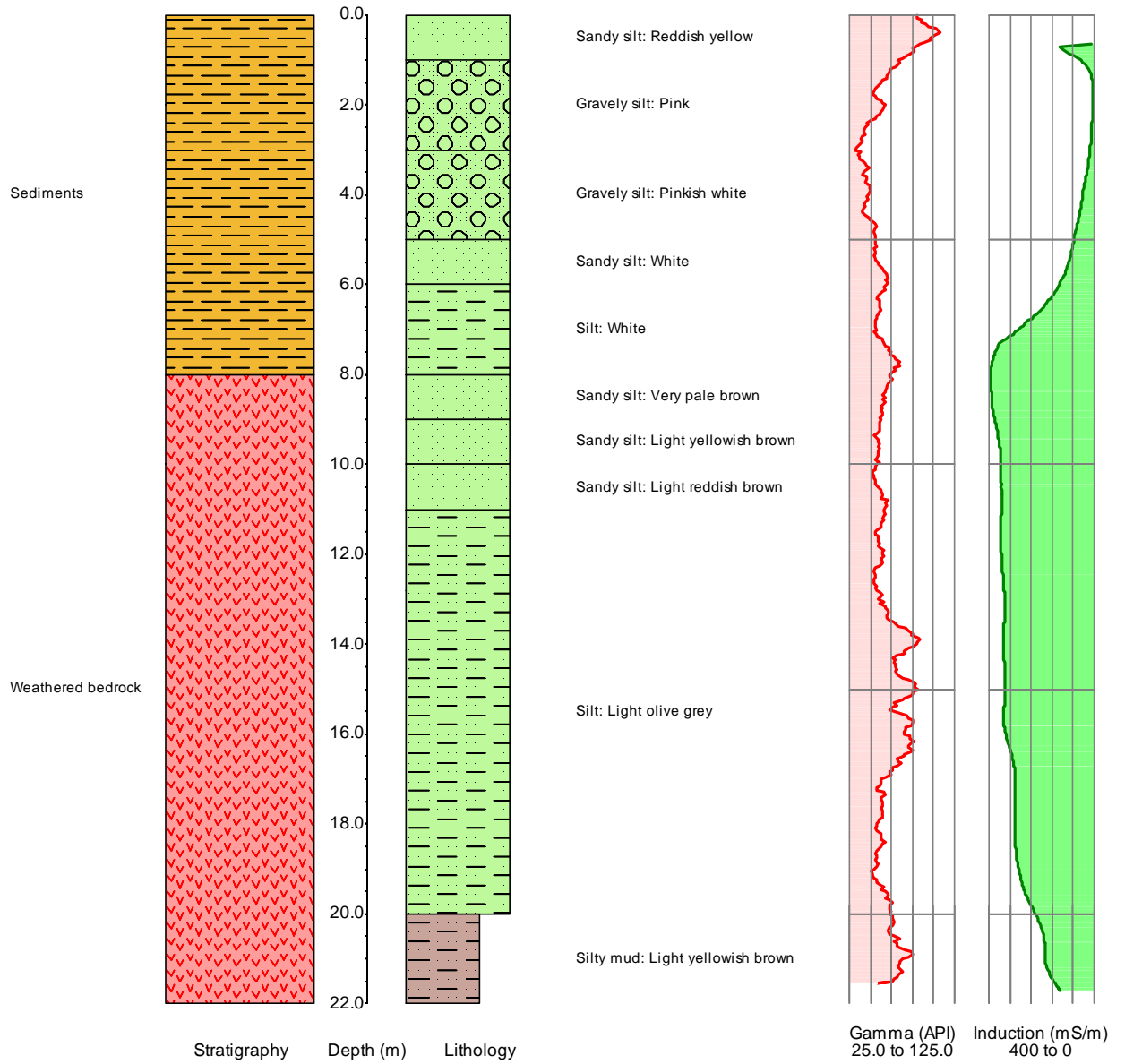
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	8.0	Quaternary	Sediments
8.0	22.0	Proterozoic	Weathered bedrock



MU20



BORE SITE MU21

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	488685.06 mE
NORTHING:	6196232.01 mN
ELEVATION:	226.69 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	2/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	25 m BGL
TOP OF CASING:	0.48 m AGL
SCREENED INTERVAL:	From 22 m to 25 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	21/05/2002
STANDING WATER LEVEL:	-1.49 m BGL
TDS:	8240 mg/L
ELECTRICAL CONDUCTIVITY:	12.15 mS/cm (uncompensated)
TEMPERATURE:	17.2 degree C
pH:	6.2

GEOLOGICAL DATA

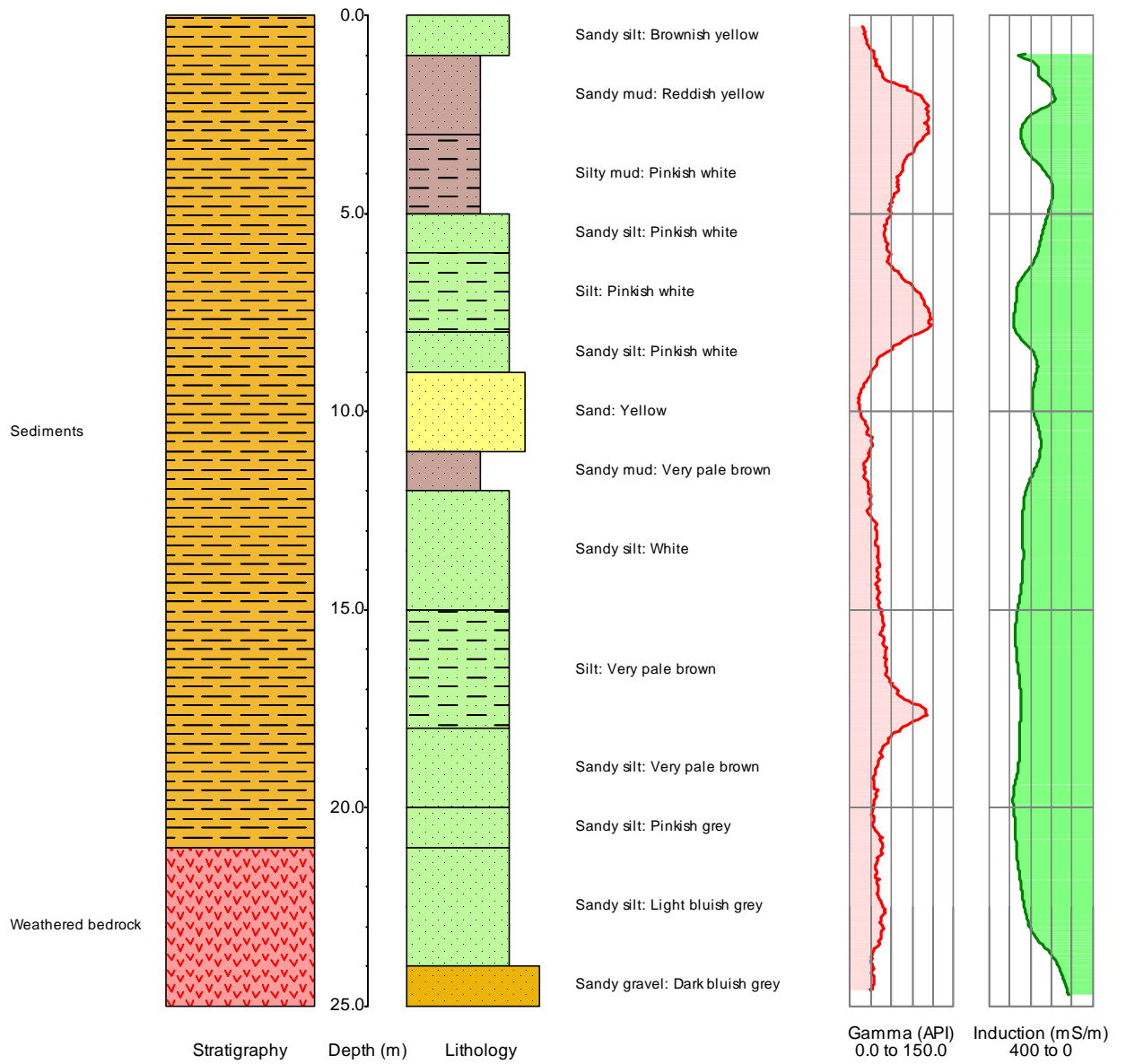
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	21.0	Quaternary	Sediments
21.0	25.0	Proterozoic	Weathered bedrock



MU21



BORE SITE MU22D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	MU22
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	480693.77 mE
NORTHING:	6193835.99 mN
ELEVATION:	221.35 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	18/02/2003
DIAMETER:	122 mm
TOTAL DEPTH:	50 m BGL
TOP OF CASING:	0.78 m AGL
SCREENED INTERVAL:	From 8 m to 14 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/03/2007
STANDING WATER LEVEL:	1.45 m BGL
TDS:	5654 mg/L
ELECTRICAL CONDUCTIVITY:	8.84 mS/cm (uncompensated)
TEMPERATURE:	19.4 degree C
pH:	4.49

GEOLOGICAL DATA

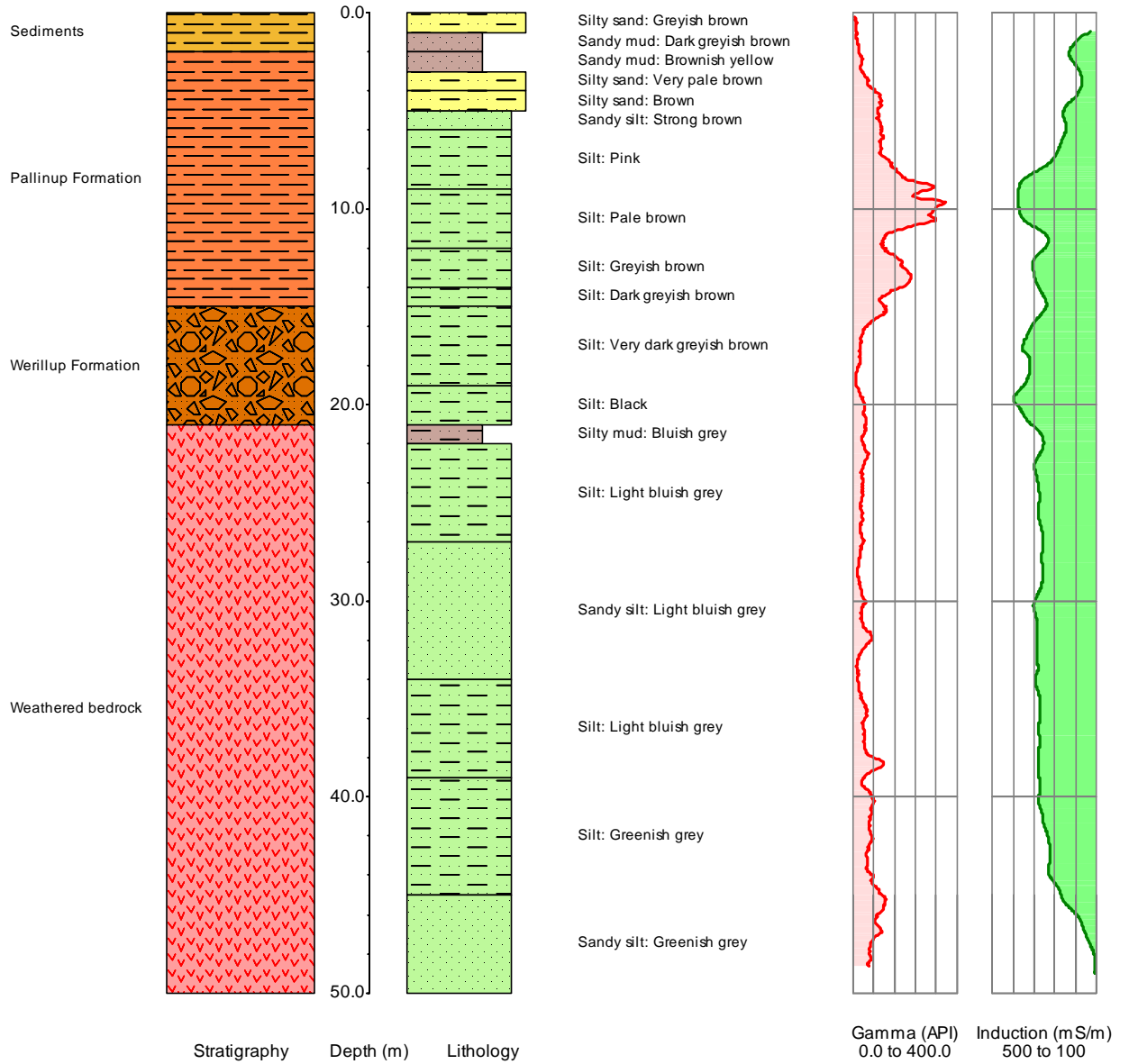
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	2.0	Quaternary	Sediments
2.0	15.0	Eocene	Pallinup Formation
15.0	21.0	Eocene	Werillup Formation
21.0	50.0	Proterozoic	Weathered bedrock



MU22D



BORE SITE MU23D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479961.58 mE
NORTHING:	6192949.56 mN
ELEVATION:	220.56 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	18/02/2003
DIAMETER:	122 mm
TOTAL DEPTH:	53.5 m BGL
TOP OF CASING:	0.51 m AGL
SCREENED INTERVAL:	From 47.5 m to 53.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	17/03/2005
STANDING WATER LEVEL:	0.67 m BGL
TDS:	8614 mg/L
ELECTRICAL CONDUCTIVITY:	13.7 mS/cm (uncompensated)
TEMPERATURE:	20.6 degree C
pH:	6.59

GEOLOGICAL DATA

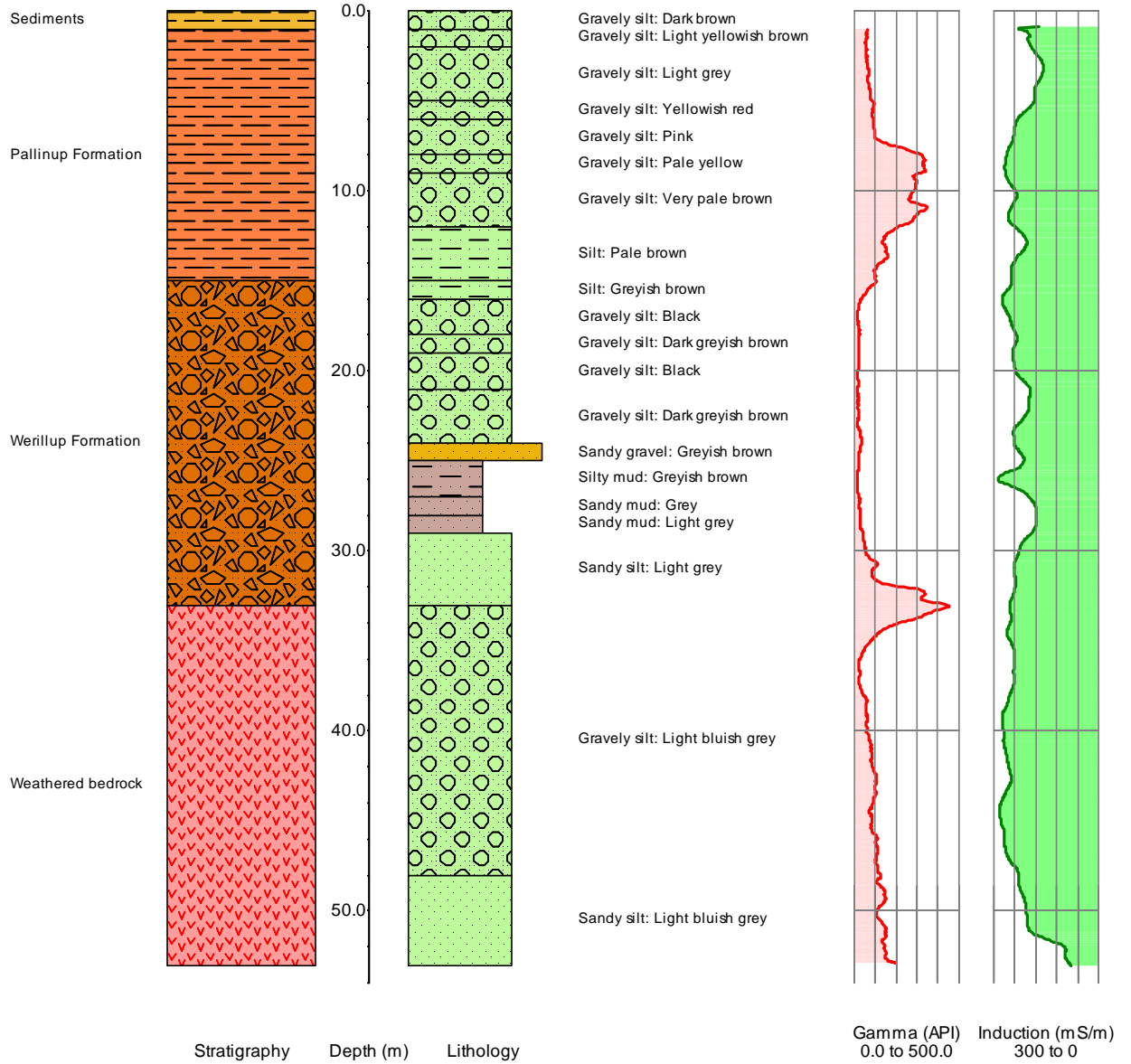
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	1.0	Quaternary	Sediments
1.0	15.0	Eocene	Pallinup Formation
15.0	33.0	Eocene	Werillup Formation
33.0	53.5	Proterozoic	Weathered bedrock



MU23D



BORE SITE MU23S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479959.2 mE
NORTHING:	6192947.54 mN
ELEVATION:	220.67 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	18/02/2003
DIAMETER:	122 mm
TOTAL DEPTH:	15 m BGL
TOP OF CASING:	0.67 m AGL
SCREENED INTERVAL:	From 9 m to 15 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	17/03/2005
STANDING WATER LEVEL:	1.02 m BGL
TDS:	3881 mg/L
ELECTRICAL CONDUCTIVITY:	6.3 mS/cm (uncompensated)
TEMPERATURE:	20.4 degree C
pH:	4.52

BORE SITE MU24

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474342.64 mE
NORTHING:	6191082.5 mN
ELEVATION:	193.06 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	14/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	34.5 m BGL
TOP OF CASING:	0.74 m AGL
SCREENED INTERVAL:	From 31.5 m to 34.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	21/05/2007
STANDING WATER LEVEL:	1.28 m BGL
TDS:	8659 mg/L
ELECTRICAL CONDUCTIVITY:	12.41 mS/cm (uncompensated)
TEMPERATURE:	15.9 degree C
pH:	5.99

GEOLOGICAL DATA

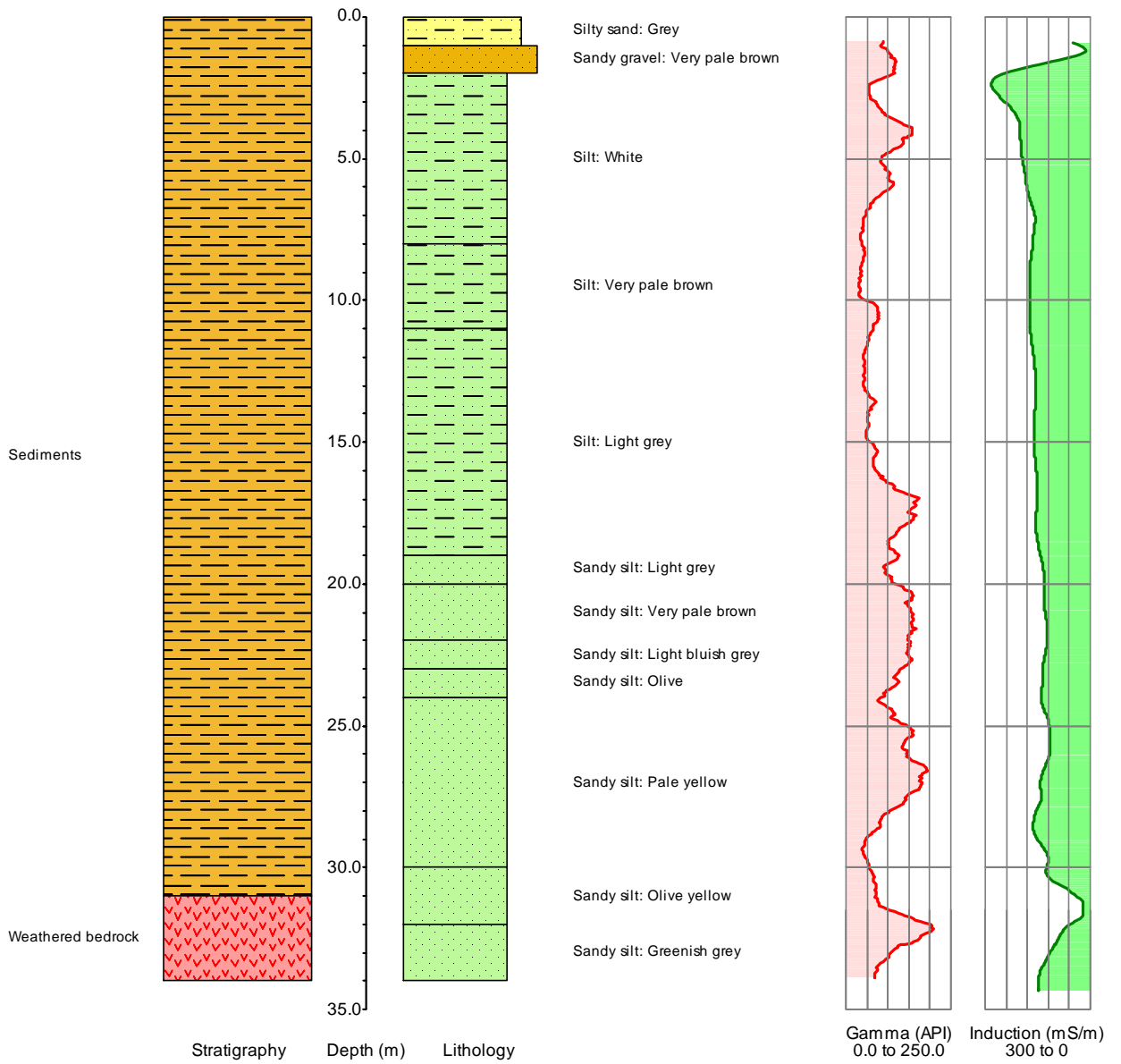
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	31.0		Sediments
31.0	34.5	Proterozoic	Weathered bedrock



MU24



BORE SITE MU25

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479337.54 mE
NORTHING:	6189385.27 mN
ELEVATION:	222.55 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	20/02/2003
DIAMETER:	122 mm
TOTAL DEPTH:	13 m BGL
TOP OF CASING:	0.55 m AGL
SCREENED INTERVAL:	From 7 m to 13 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/05/2007
STANDING WATER LEVEL:	5.88 m BGL
TDS:	2739 mg/L
ELECTRICAL CONDUCTIVITY:	4.07 mS/cm (uncompensated)
TEMPERATURE:	15.3 degree C
pH:	4.59

GEOLOGICAL DATA

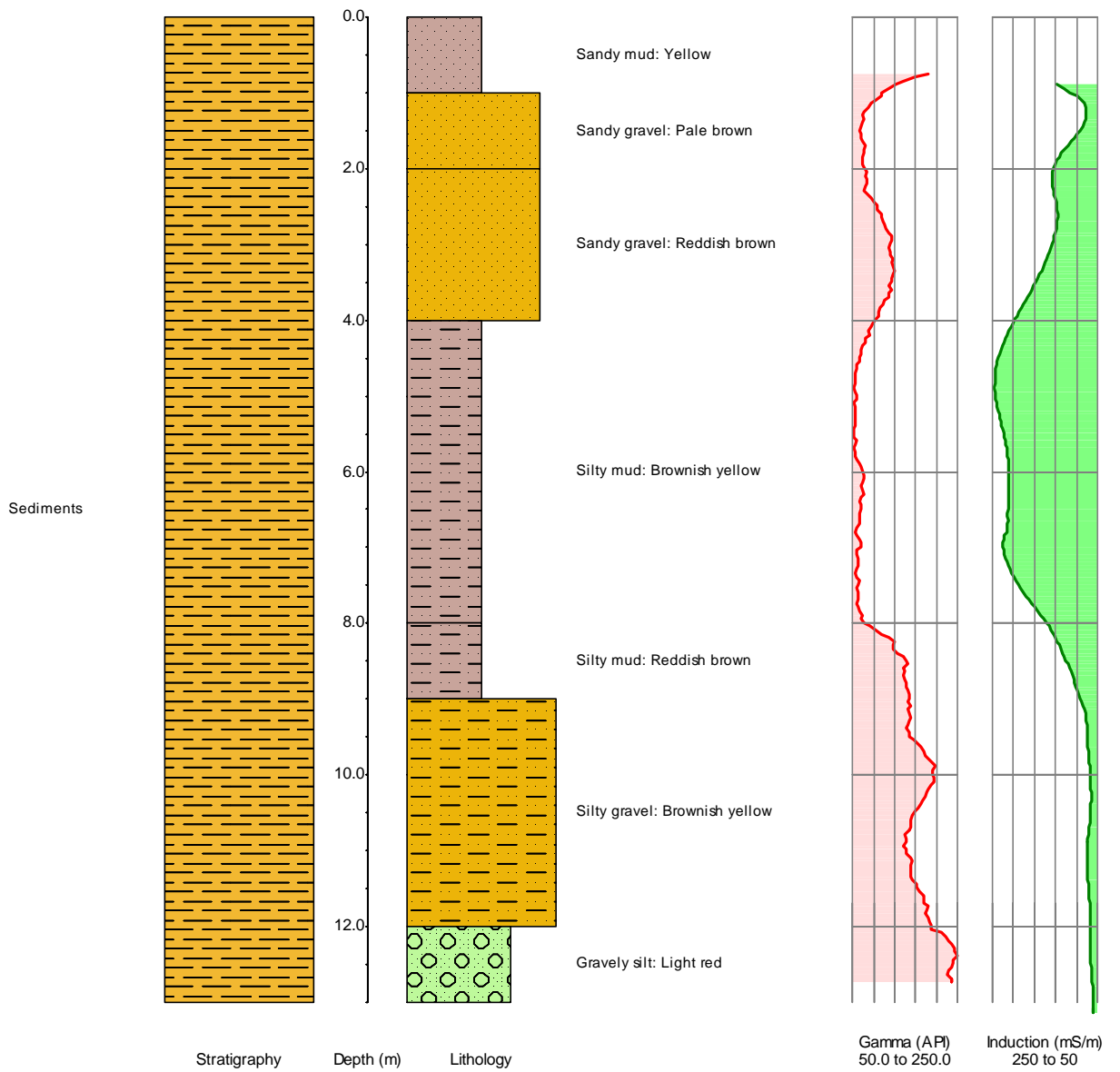
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	13.0	Quaternary	Sediments



MU25



BORE SITE MU26

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	485128.04 mE
NORTHING:	6188045.21 mN
ELEVATION:	205.88 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	8/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	19.5 m BGL
TOP OF CASING:	0.52 m AGL
SCREENED INTERVAL:	From 11.5 m to 17.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/05/2007
STANDING WATER LEVEL:	3.38 m BGL
TDS:	2542 mg/L
ELECTRICAL CONDUCTIVITY:	3.9 mS/cm (uncompensated)
TEMPERATURE:	16.6 degree C
pH:	5.66

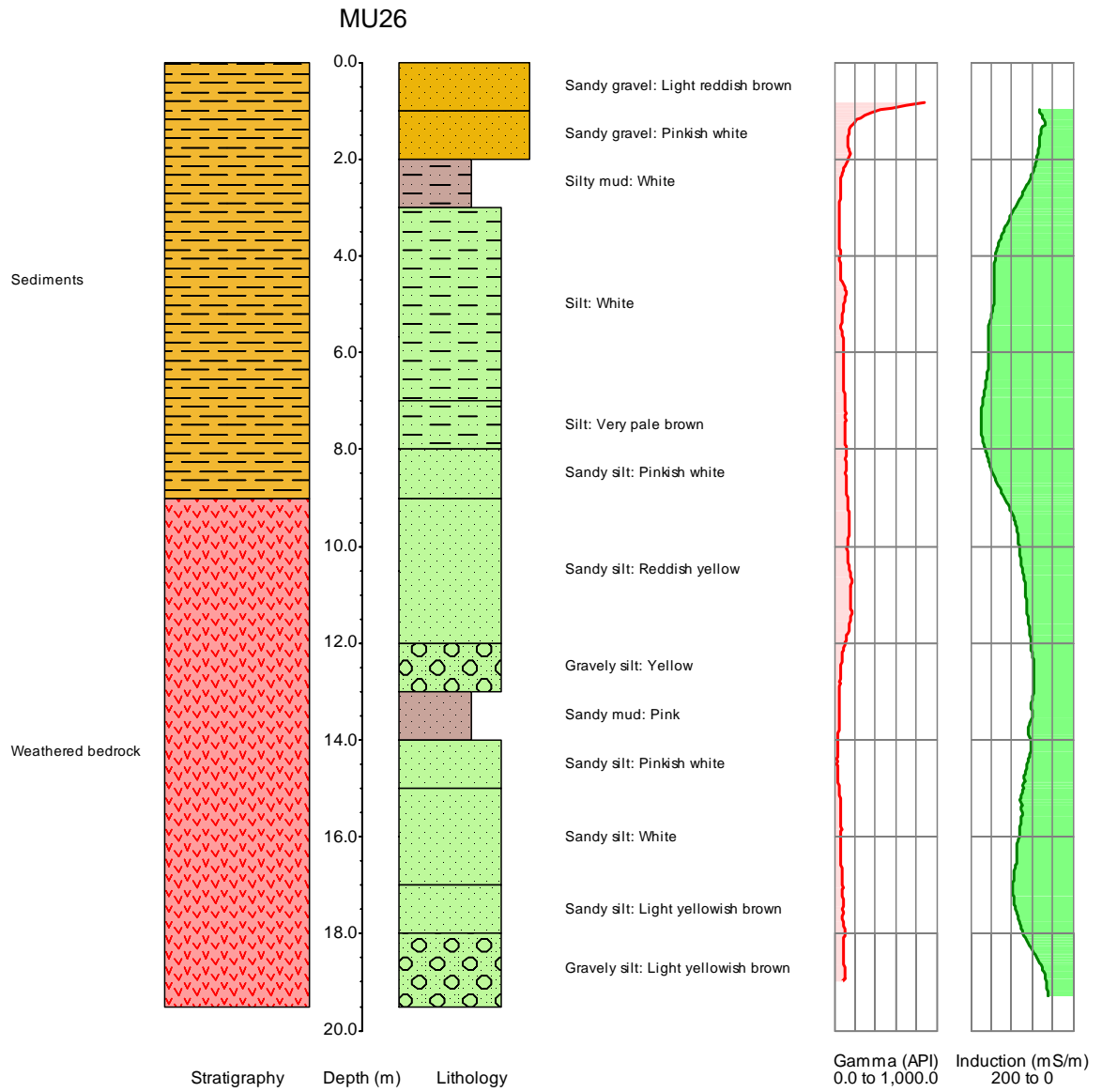
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	9.0	Quaternary	Sediments
9.0	19.5	Proterozoic	Weathered bedrock





BORE SITE MU27D

LOCATION AND IDENTIFICATION

OWNER: Department of Environment and Conservation
PREVIOUS ID:
MAP SHEET: 1:250 000 Pemberton SI 5010
COORDINATES
 DATUM: Zone 50 MGA
 EASTING: 483930.14 mE
 NORTHING: 6187201.49 mN
ELEVATION: 196.83 m AHD
PURPOSE: Exploration
STATUS: Monitoring

CONSTRUCTION

DRILLED BY: Great Southern
RIG: Wirth Multipurpose
METHOD: Air core
DRILLED: 24/02/2003
DIAMETER: 122 mm
TOTAL DEPTH: 37 m BGL
TOP OF CASING: 0.575 m AGL
SCREENED INTERVAL: From 34 m to 37 m BGL
CASING
 PLAIN: NB Class 9 PVC, 50 mm internal diameter
 SLOTTED: NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture

GRAVEL PACK AND SEAL
 GRAVEL PACK: 12/20 grade
 SEAL: Grout

HEADWORKS: Steel stand pipe, 0.6 m above ground level, with padlocked cap
Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE: 17/03/2005
STANDING WATER LEVEL: 3.05 m BGL
TDS: 2168 mg/L
ELECTRICAL CONDUCTIVITY: 4 mS/cm (uncompensated)
TEMPERATURE: 24.3 degree C
pH: 6.36

GEOLOGICAL DATA

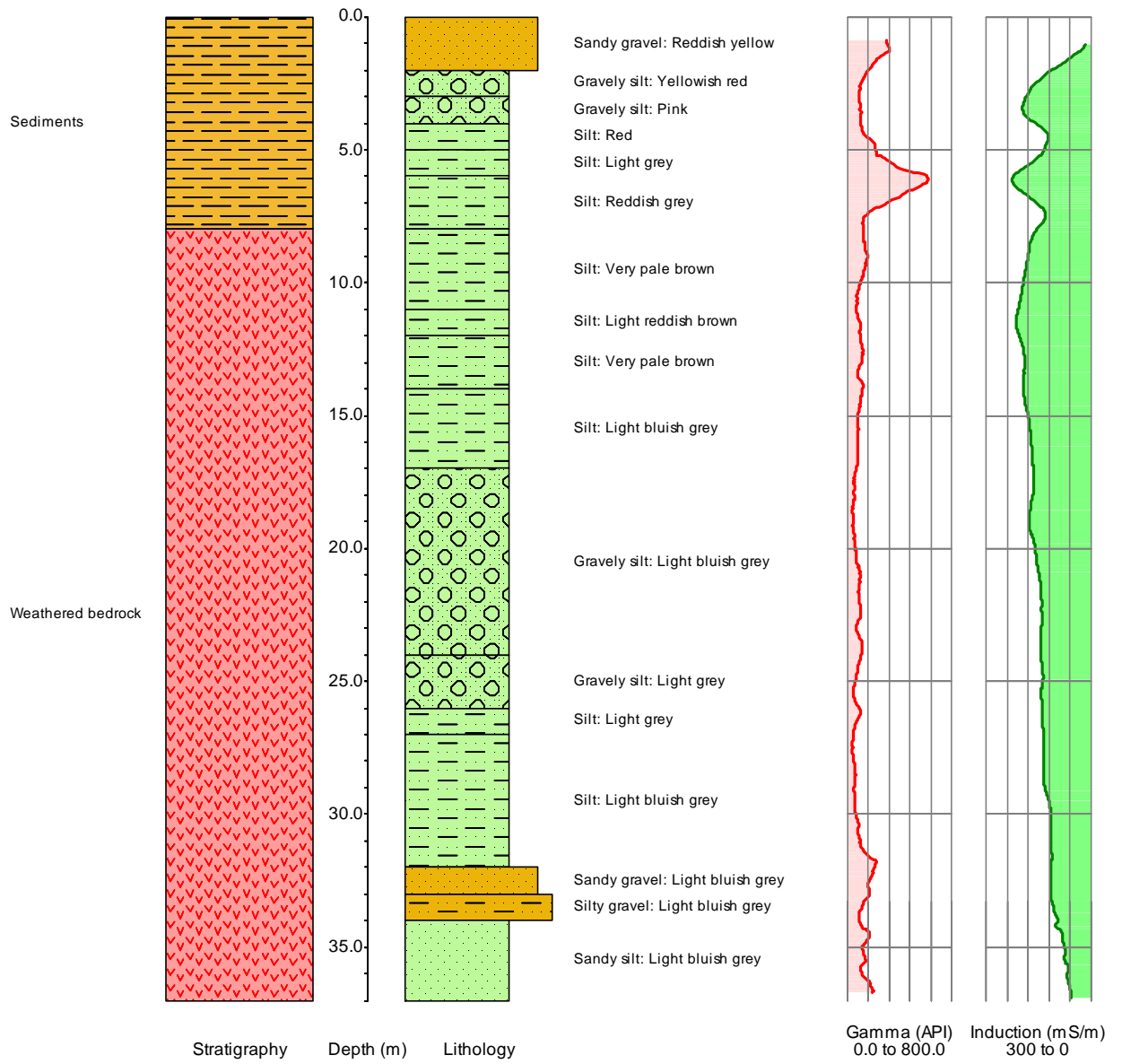
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	8.0	Quaternary	Sediments
8.0	37.0	Proterozoic	Weathered bedrock



MU27D



BORE SITE MU27S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	483930.25 mE
NORTHING:	6187199.39 mN
ELEVATION:	196.71 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	24/02/2003
DIAMETER:	122 mm
TOTAL DEPTH:	7.5 m BGL
TOP OF CASING:	0.77 m AGL
SCREENED INTERVAL:	From 4.5 m to 7.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	17/03/2005
STANDING WATER LEVEL:	3.67 m BGL
TDS:	2350 mg/L
ELECTRICAL CONDUCTIVITY:	3.8 mS/cm (uncompensated)
TEMPERATURE:	18.4 degree C
pH:	5.64

BORE SITE MU28D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	485135.89 mE
NORTHING:	6187028.59 mN
ELEVATION:	199.96 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	20/02/2002
DIAMETER:	122 mm
TOTAL DEPTH:	35 m BGL
TOP OF CASING:	0.685 m AGL
SCREENED INTERVAL:	From 32 m to 35 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	17/03/2005
STANDING WATER LEVEL:	5.81 m BGL
TDS:	838 mg/L
ELECTRICAL CONDUCTIVITY:	1.5 mS/cm (uncompensated)
TEMPERATURE:	20.4 degree C
pH:	6.73

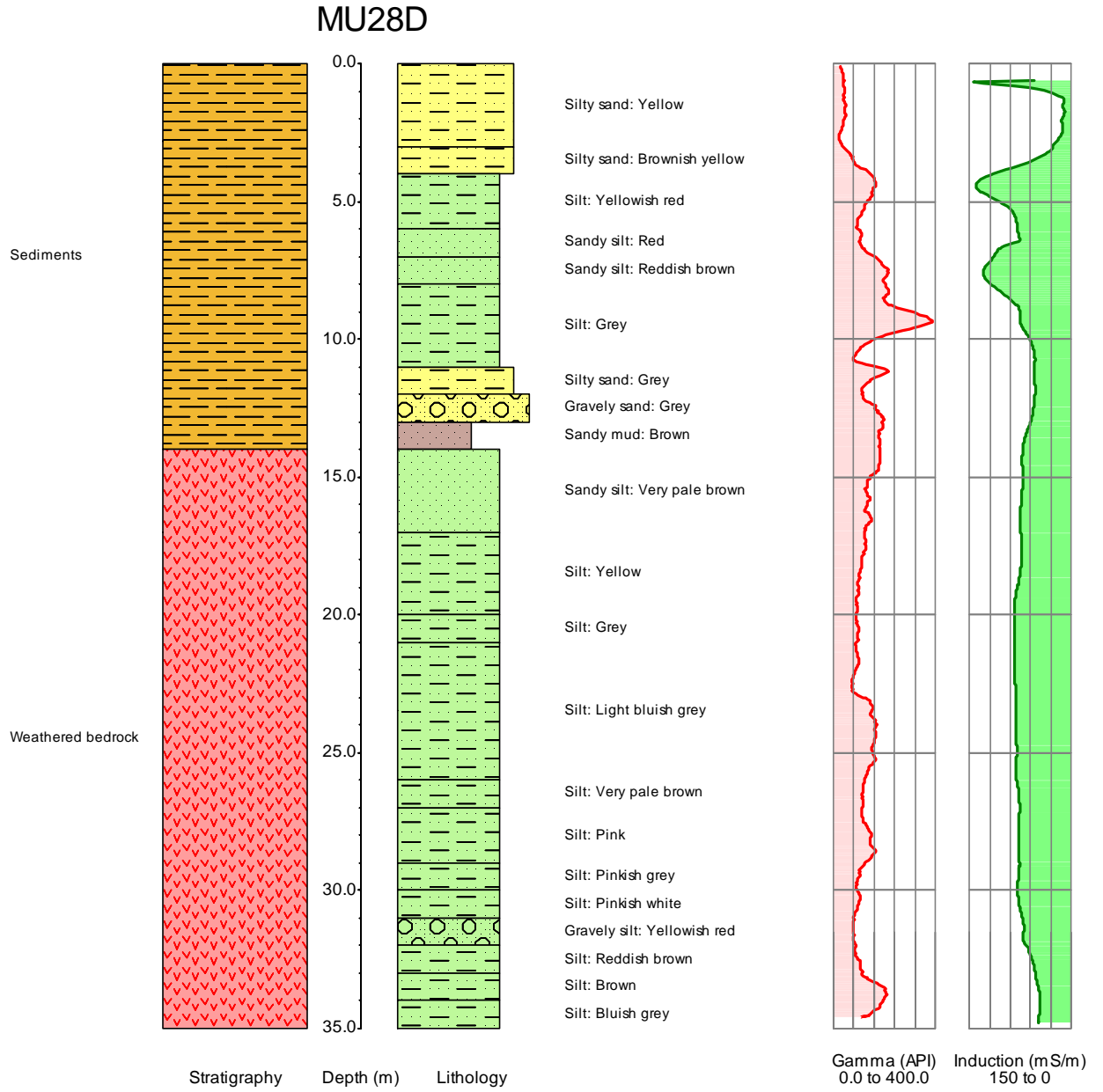
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	14.0	Quaternary	Sediments
14.0	35.0	Proterozoic	Weathered bedrock





BORE SITE MU28S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	485136.51 mE
NORTHING:	6187030.77 mN
ELEVATION:	199.93 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	20/02/2003
DIAMETER:	122 mm
TOTAL DEPTH:	15 m BGL
TOP OF CASING:	0.805 m AGL
SCREENED INTERVAL:	From 12 m to 15 m BGL

CASING

PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture

GRAVEL PACK AND SEAL

GRAVEL PACK:	12/20 grade
SEAL:	Grout

HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter
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HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	17/03/2005
STANDING WATER LEVEL:	6.16 m BGL
TDS:	548 mg/L
ELECTRICAL CONDUCTIVITY:	0.9 mS/cm (uncompensated)
TEMPERATURE:	19.4 degree C
pH:	6.16

BORE SITE MU29D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	478615.94 mE
NORTHING:	6180945.27 mN
ELEVATION:	178.56 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	9/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	25 m BGL
TOP OF CASING:	0.65 m AGL
SCREENED INTERVAL:	From 22 m to 25 m BGL

CASING

PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture

GRAVEL PACK AND SEAL

GRAVEL PACK:	12/20 grade
SEAL:	Grout

HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter
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HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

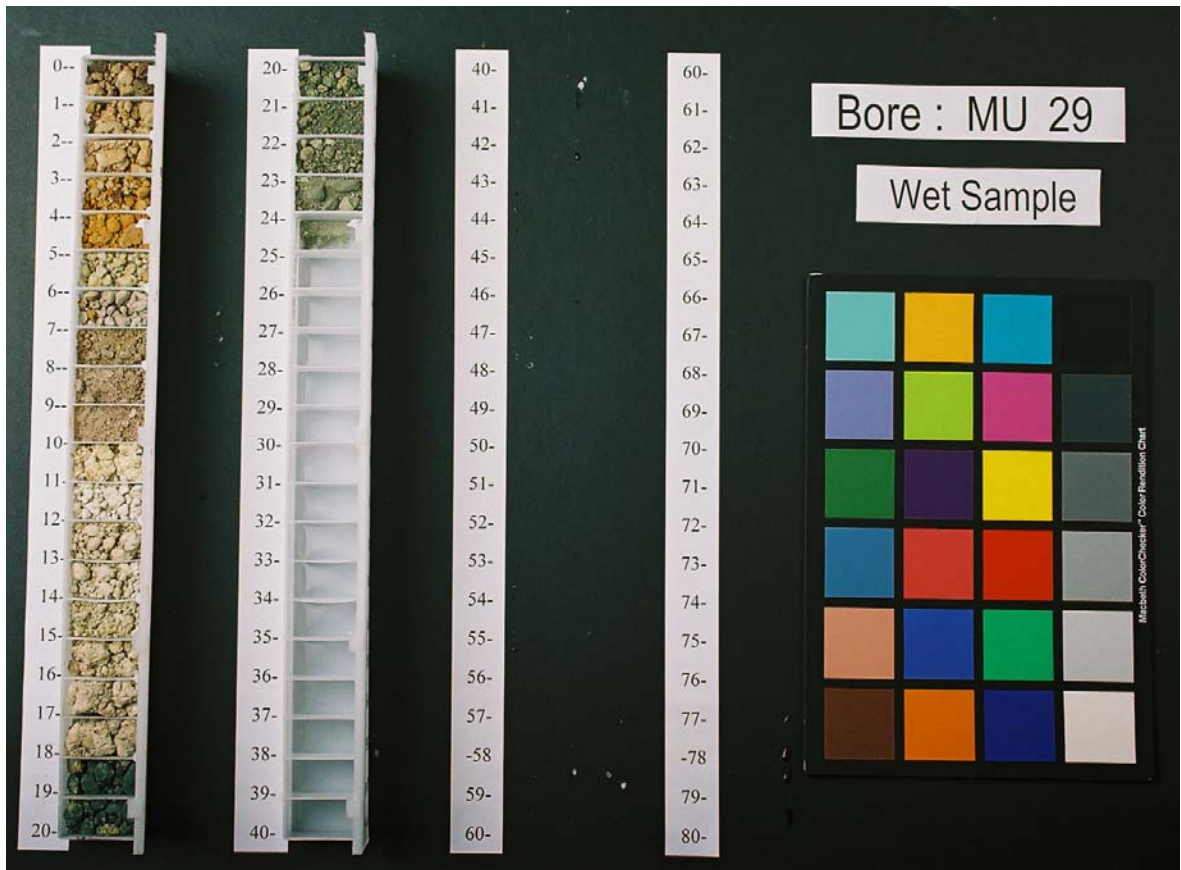
DATE:	9/03/2005
STANDING WATER LEVEL:	3.83 m BGL
TDS:	17179 mg/L
ELECTRICAL CONDUCTIVITY:	23.4 mS/cm (uncompensated)
TEMPERATURE:	19.2 degree C
pH:	6.53

GEOLOGICAL DATA

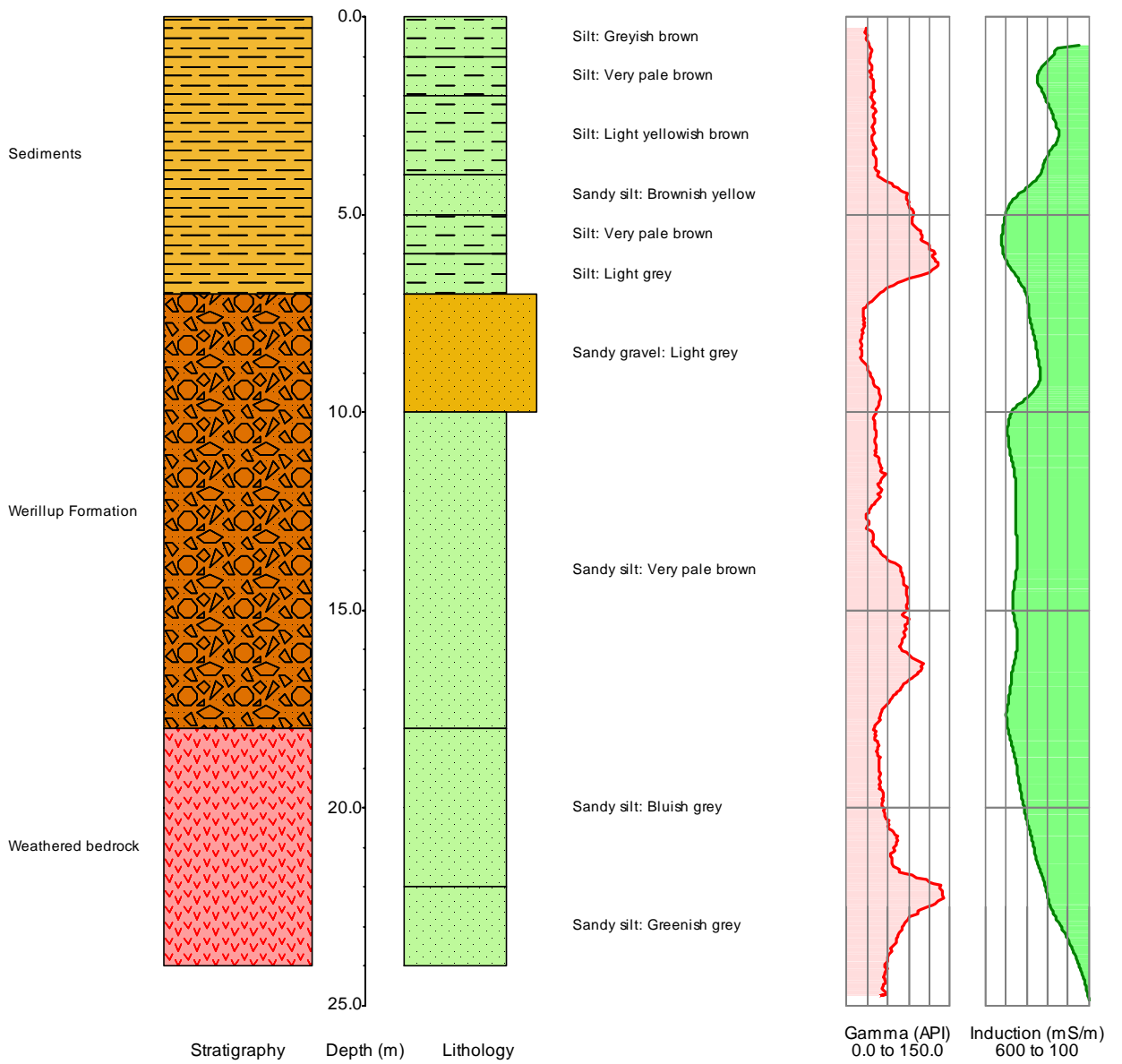
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	7.0	Quaternary	Sediments
7.0	18.0	Eocene	Werillup Formation
18.0	24.0	Proterozoic	Weathered bedrock



MU29D



BORE SITE MU29S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	478614.69 mE
NORTHING:	6180945.12 mN
ELEVATION:	178.52 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	10/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	10.5 m BGL
TOP OF CASING:	0.64 m AGL
SCREENED INTERVAL:	From 7.5 m to 10.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	9/03/2005
STANDING WATER LEVEL:	3.37 m BGL
TDS:	15644 mg/L
ELECTRICAL CONDUCTIVITY:	22.1 mS/cm (uncompensated)
TEMPERATURE:	20.1 degree C
pH:	6.47

BORE SITE MU30D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	477620.12 mE
NORTHING:	6180603.48 mN
ELEVATION:	178.98 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	8/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	33 m BGL
TOP OF CASING:	0.7 m AGL
SCREENED INTERVAL:	From 30 m to 33 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	9/03/2005
STANDING WATER LEVEL:	3.26 m BGL
TDS:	20170 mg/L
ELECTRICAL CONDUCTIVITY:	29.5 mS/cm (uncompensated)
TEMPERATURE:	23.7 degree C
pH:	5.96

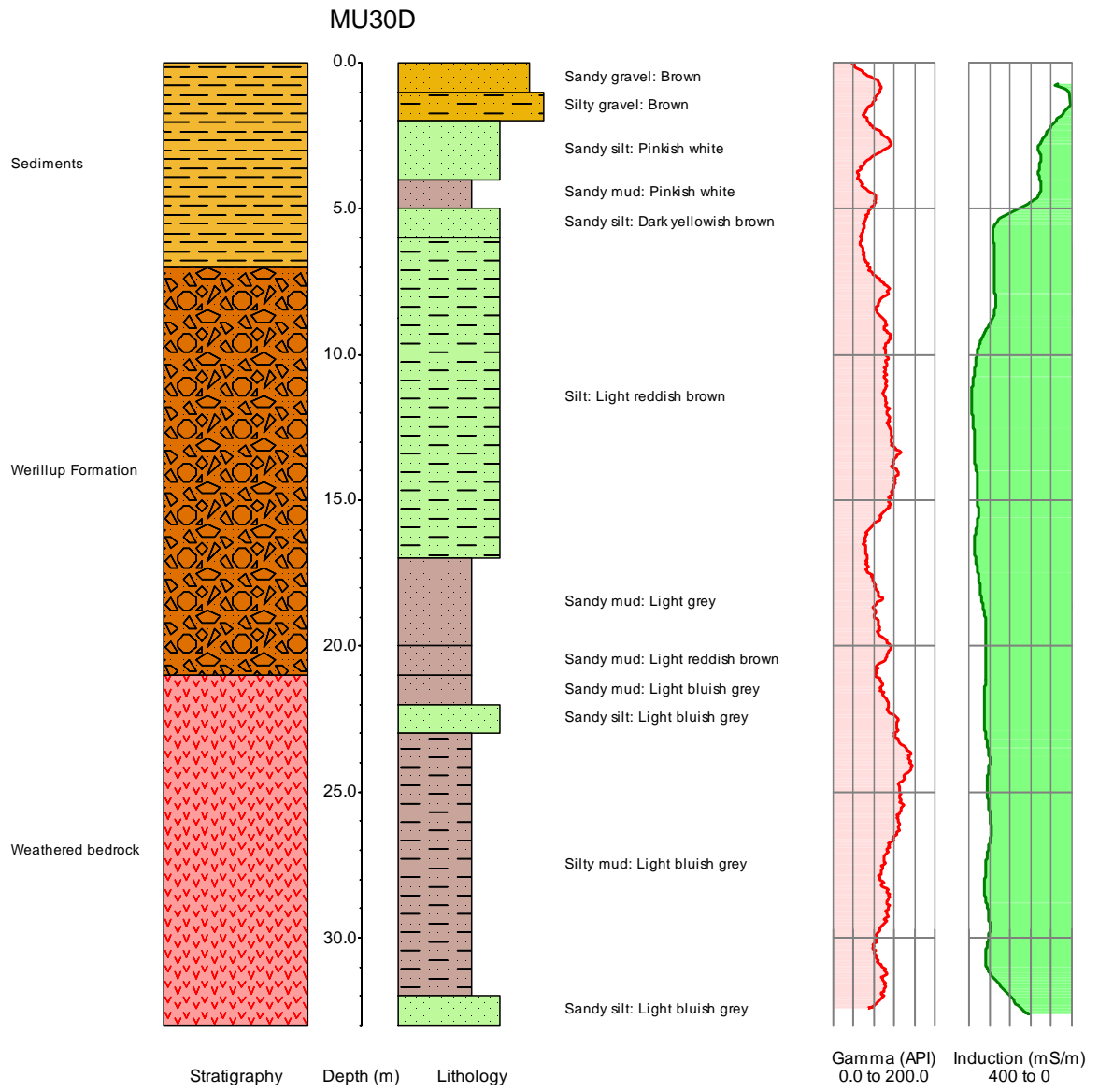
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	7.0	Quaternary	Sediments
7.0	21.0	Eocene	Werillup Formation
21.0	33.0	Proterozoic	Weathered bedrock





BORE SITE MU30S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	477621.24 mE
NORTHING:	6180603.62 mN
ELEVATION:	179.02 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	9/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	7.5 m BGL
TOP OF CASING:	0.735 m AGL
SCREENED INTERVAL:	From 4.5 m to 7.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	9/03/2005
STANDING WATER LEVEL:	3.1 m BGL
TDS:	1454 mg/L
ELECTRICAL CONDUCTIVITY:	2.6 mS/cm (uncompensated)
TEMPERATURE:	21.9 degree C
pH:	6.42

BORE SITE MU31D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	480087.99 mE
NORTHING:	6181283.04 mN
ELEVATION:	177.56 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	10/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	32 m BGL
TOP OF CASING:	0.65 m AGL
SCREENED INTERVAL:	From 29 m to 32 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	10/03/2005
STANDING WATER LEVEL:	1.51 m BGL
TDS:	22785 mg/L
ELECTRICAL CONDUCTIVITY:	29.1 mS/cm (uncompensated)
TEMPERATURE:	18.2 degree C
pH:	6.16

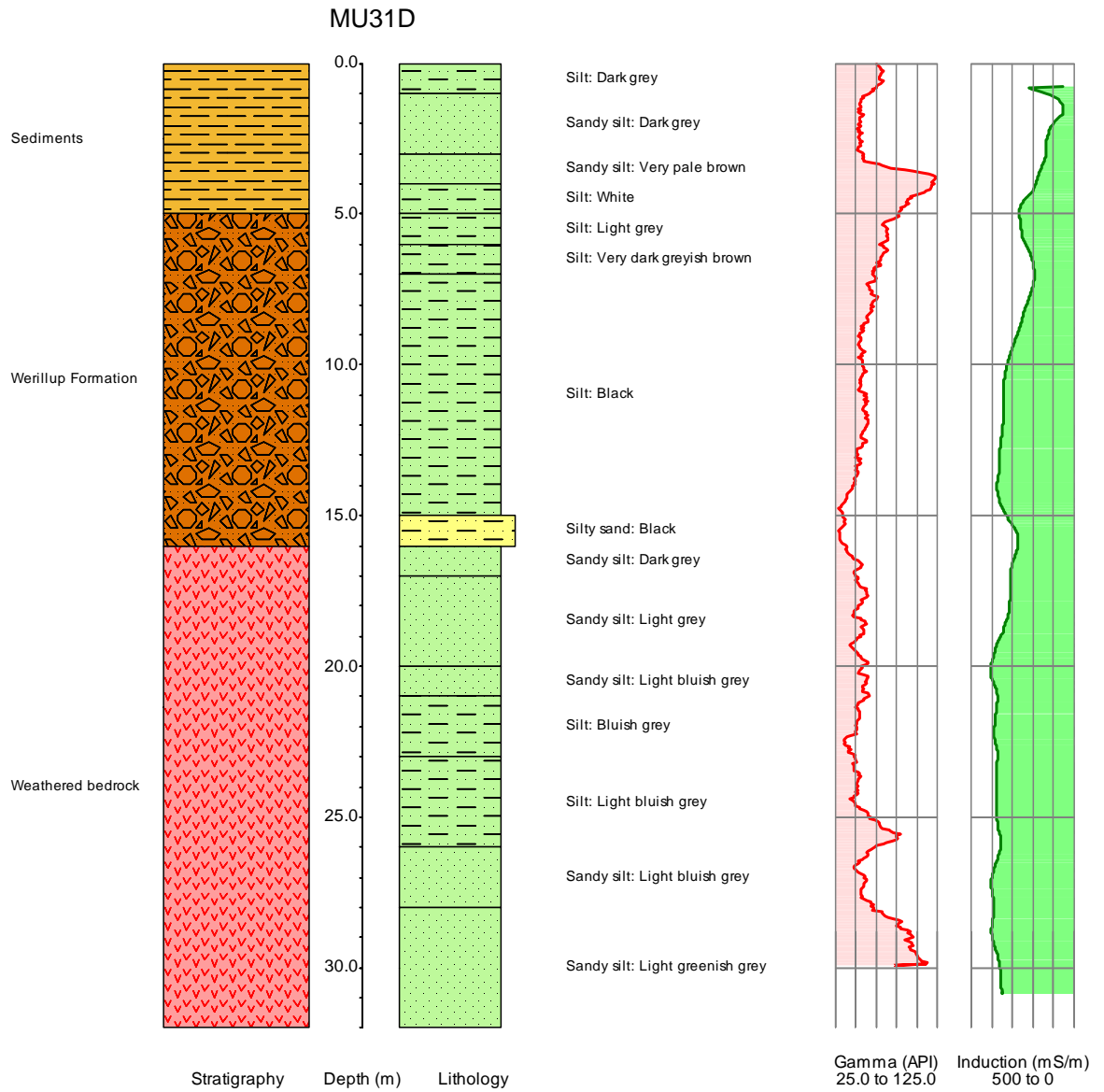
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	5.0	Quaternary	Sediments
5.0	16.0	Eocene	Werillup Formation
16.0	32.0	Proterozoic	Weathered bedrock





BORE SITE MU31S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	480089.03 mE
NORTHING:	6181283.61 mN
ELEVATION:	177.54 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	11/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	16.5 m BGL
TOP OF CASING:	0.62 m AGL
SCREENED INTERVAL:	From 10.5 m to 16.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	10/03/2005
STANDING WATER LEVEL:	1.57 m BGL
TDS:	6612 mg/L
ELECTRICAL CONDUCTIVITY:	9.9 mS/cm (uncompensated)
TEMPERATURE:	17.6 degree C
pH:	5.77

BORE SITE MU32

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479117 mE
NORTHING:	6184163.3 mN
ELEVATION:	179.21 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	14/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	18.5 m BGL
TOP OF CASING:	0.54 m AGL
SCREENED INTERVAL:	From 12.5 m to 18.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	27/02/2007
STANDING WATER LEVEL:	2.65 m BGL
TDS:	5356 mg/L
ELECTRICAL CONDUCTIVITY:	8.05 mS/cm (uncompensated)
TEMPERATURE:	17.5 degree C
pH:	5.96

GEOLOGICAL DATA

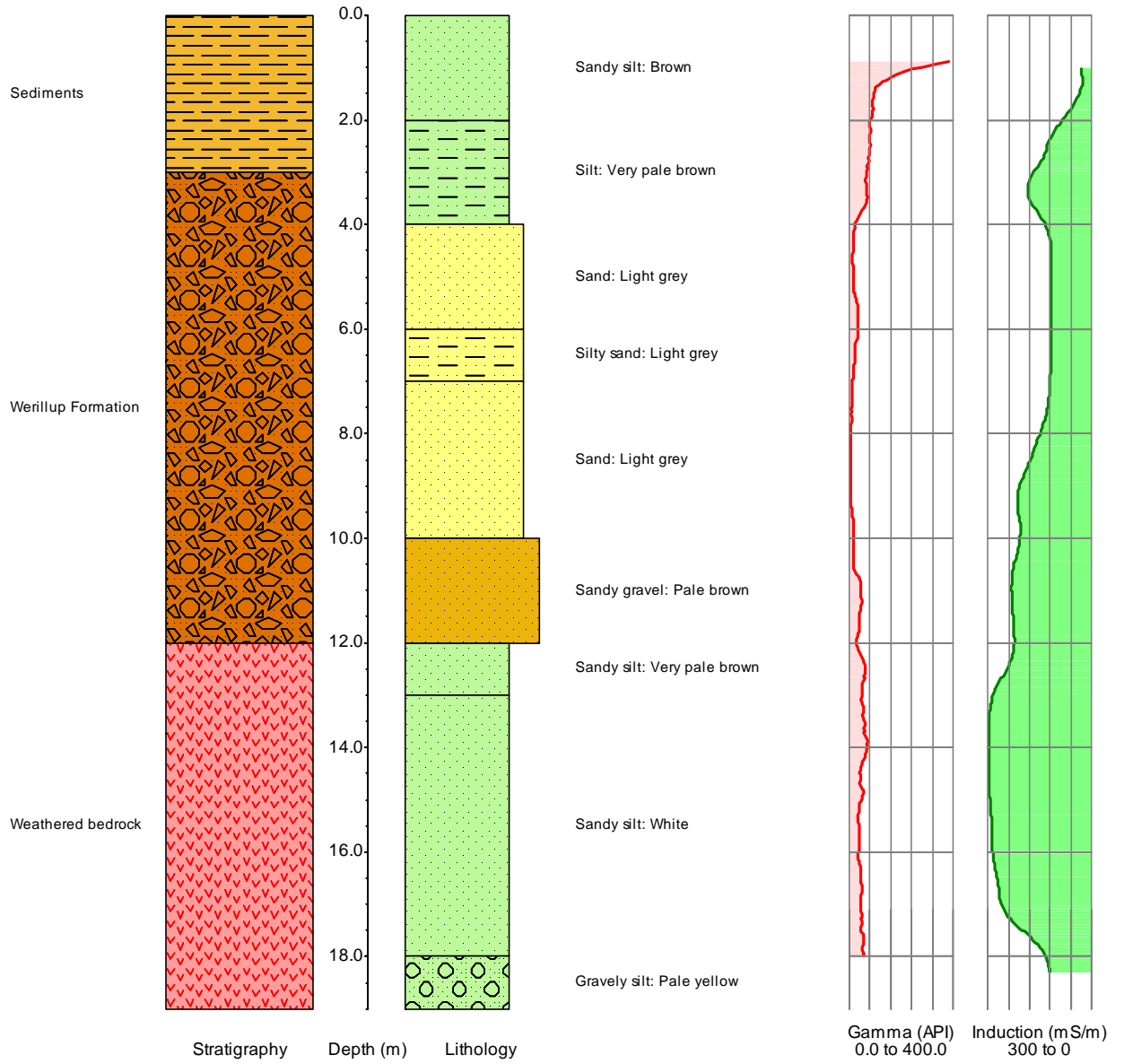
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	3.0	Quaternary	Sediments
3.0	12.0	Eocene	Werillup Formation
12.0	18.5	Proterozoic	Weathered bedrock



MU32



BORE SITE MU33D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	468142.36 mE
NORTHING:	6197057.9 mN
ELEVATION:	186.91 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	17/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	51 m BGL
TOP OF CASING:	0.59 m AGL
SCREENED INTERVAL:	From 48 m to 51 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

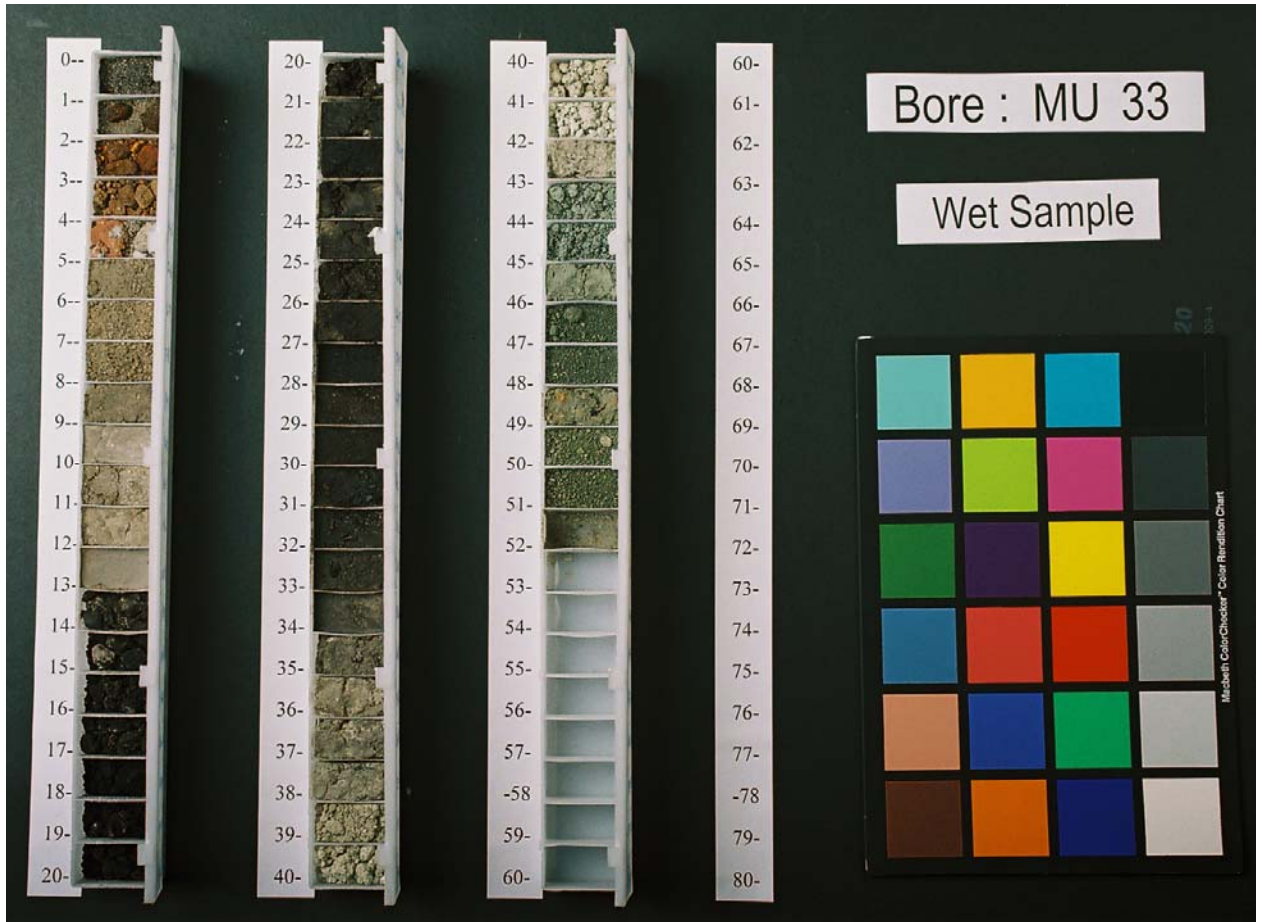
DATE:	2/03/2005
STANDING WATER LEVEL:	3.02 m BGL
TDS:	6850 mg/L
ELECTRICAL CONDUCTIVITY:	11.7 mS/cm (uncompensated)
TEMPERATURE:	23.6 degree C
pH:	6.38

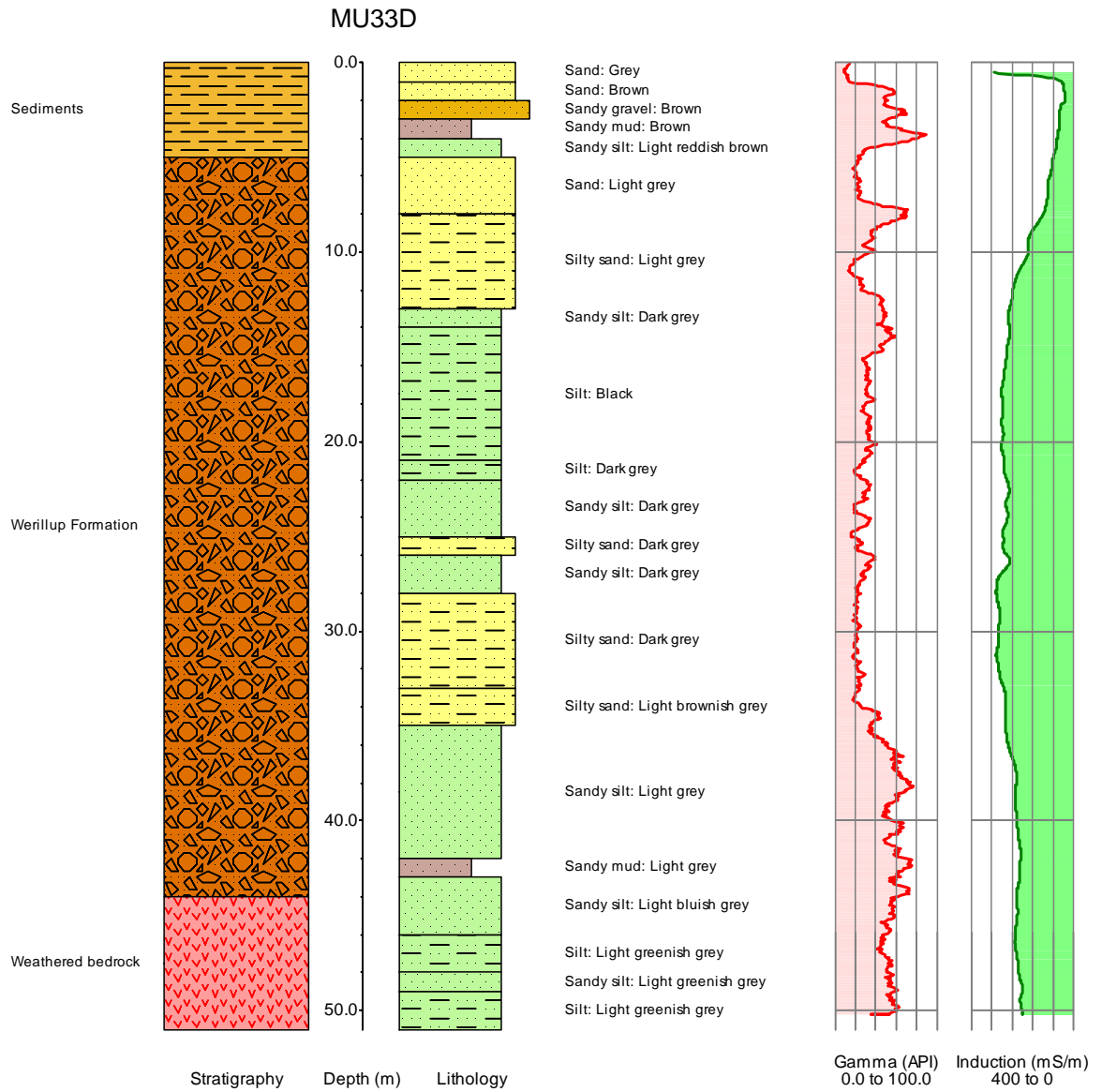
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	5.0	Quaternary	Sediments
5.0	44.0	Eocene	Werillup Formation
44.0	51.0	Proterozoic	Weathered bedrock





BORE SITE MU33S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	468140.26 mE
NORTHING:	6197058.46 mN
ELEVATION:	186.91 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	17/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	13 m BGL
TOP OF CASING:	0.63 m AGL
SCREENED INTERVAL:	From 10 m to 13 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	1/03/2005
STANDING WATER LEVEL:	3.85 m BGL
TDS:	3562 mg/L
ELECTRICAL CONDUCTIVITY:	5.8 mS/cm (uncompensated)
TEMPERATURE:	20 degree C
pH:	5.76

BORE SITE MU34

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	473090.33 mE
NORTHING:	6205072.91 mN
ELEVATION:	200.65 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	15/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	19.5 m
TOP OF CASING:	0.58m AGL
SCREENED INTERVAL:	From 16.5 m to 19.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	14/03/2007
STANDING WATER LEVEL:	3.01 m BGL
TDS:	3549 mg/L
ELECTRICAL CONDUCTIVITY:	5.48 mS/cm (uncompensated)
TEMPERATURE:	17.9 degree C
pH:	6.42

GEOLOGICAL DATA

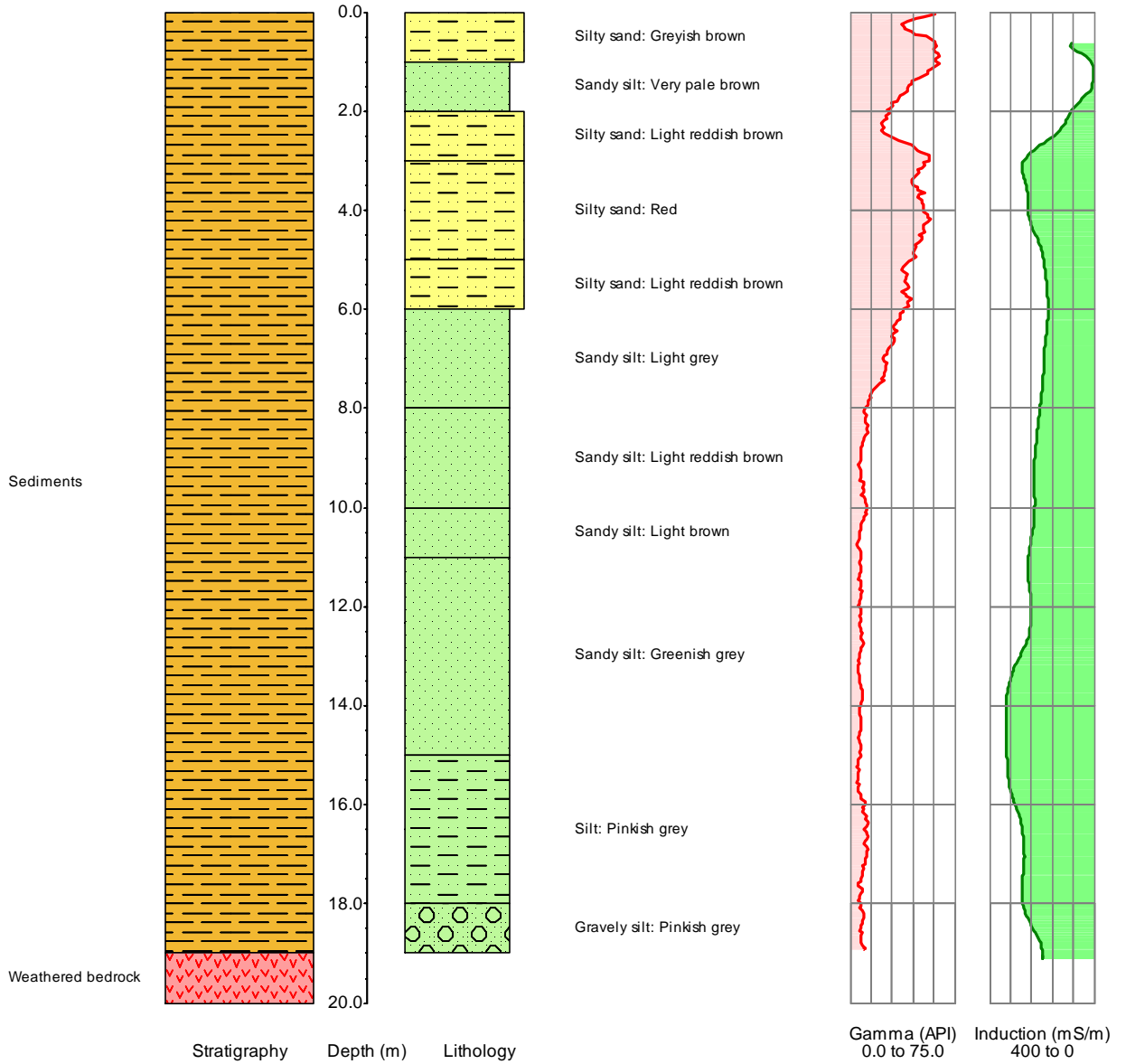
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	19.0	Quaternary	Sediments
19.0	19.5	Proterozoic	Weathered bedrock



MU34



BORE SITE MU35

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472194.38 mE
NORTHING:	6197480.23 mN
ELEVATION:	213.93 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	29/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	25 m BGL
TOP OF CASING:	0.6 m AGL
SCREENED INTERVAL:	From 22 m to 25 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

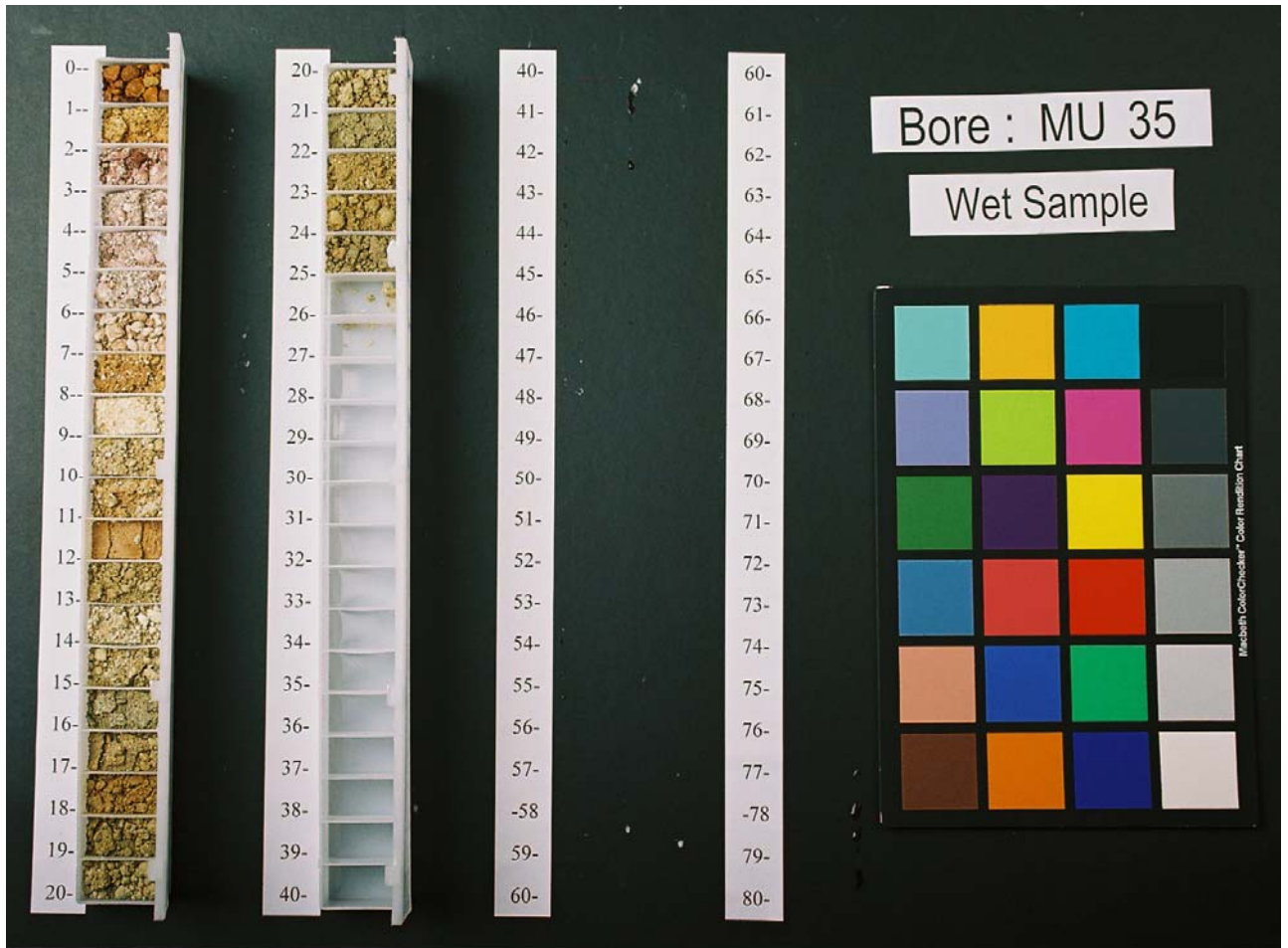
DATE:	17/05/2007
STANDING WATER LEVEL:	0.81 m BGL
TDS:	11538 mg/L
ELECTRICAL CONDUCTIVITY:	16.33 mS/cm (uncompensated)
TEMPERATURE:	17.3 degree C
pH:	5.32

GEOLOGICAL DATA

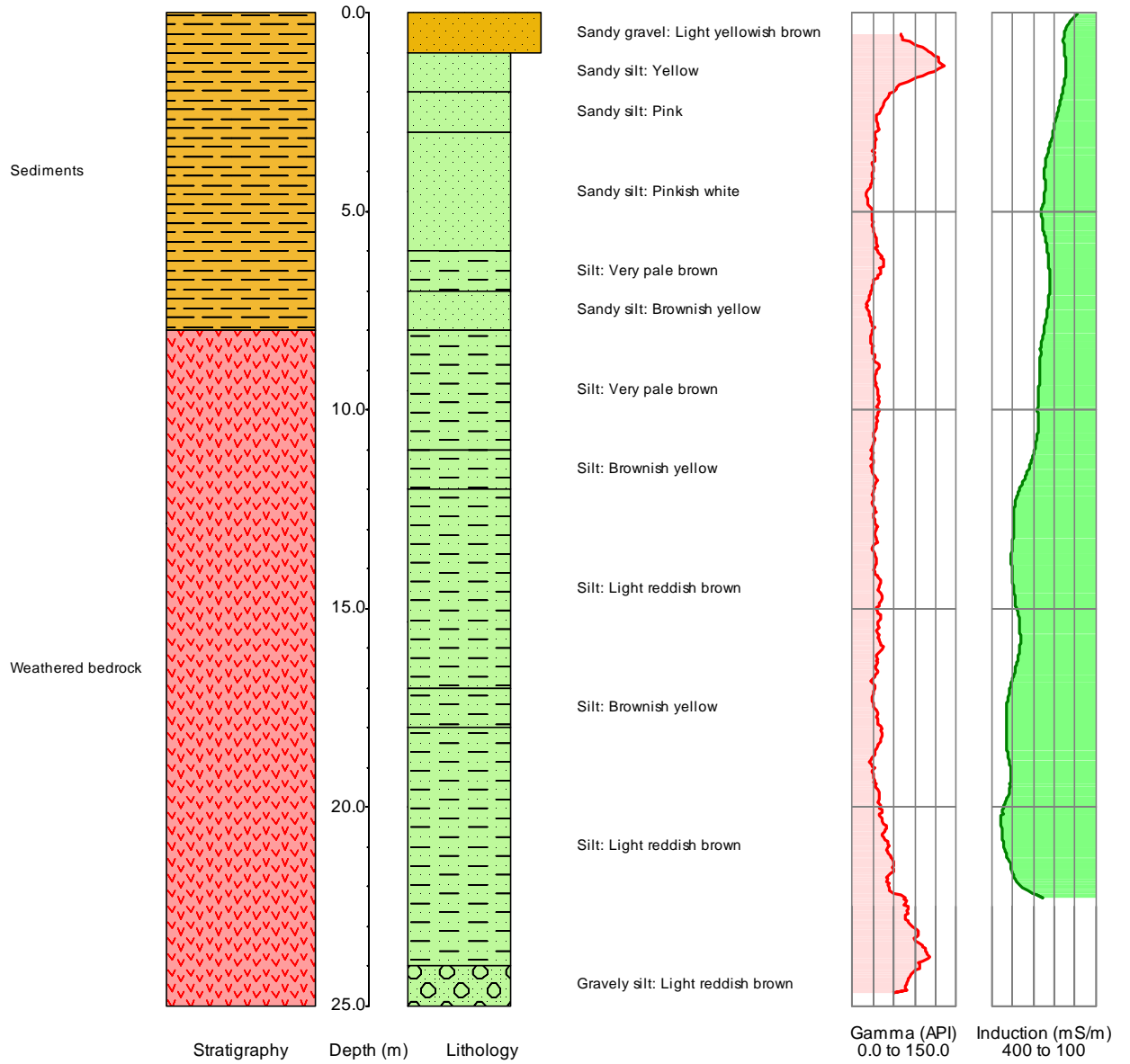
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	8.0	Quaternary	Sediments
8.0	25.0	Proterozoic	Weathered bedrock



MU35



BORE SITE MU36D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	469592.81 mE
NORTHING:	6191813.27 mN
ELEVATION:	177.16 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	15/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	43 m BGL
TOP OF CASING:	0.575 m AGL
SCREENED INTERVAL:	From 30 m to 36 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

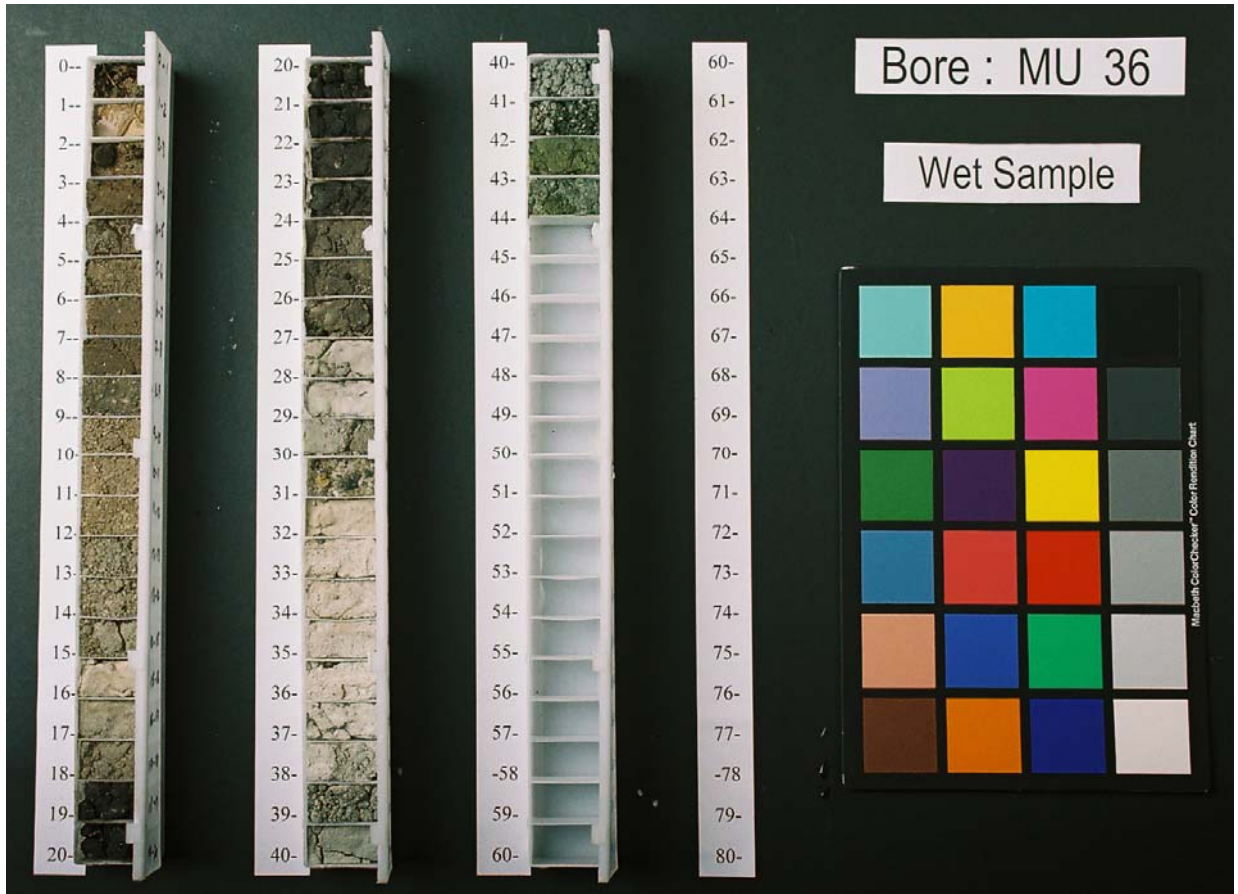
DATE:	18/03/2005
STANDING WATER LEVEL:	2.75 m BGL
TDS:	3070 mg/L
ELECTRICAL CONDUCTIVITY:	4.8 mS/cm (uncompensated)
TEMPERATURE:	17.6 degree C
pH:	5.99

GEOLOGICAL DATA

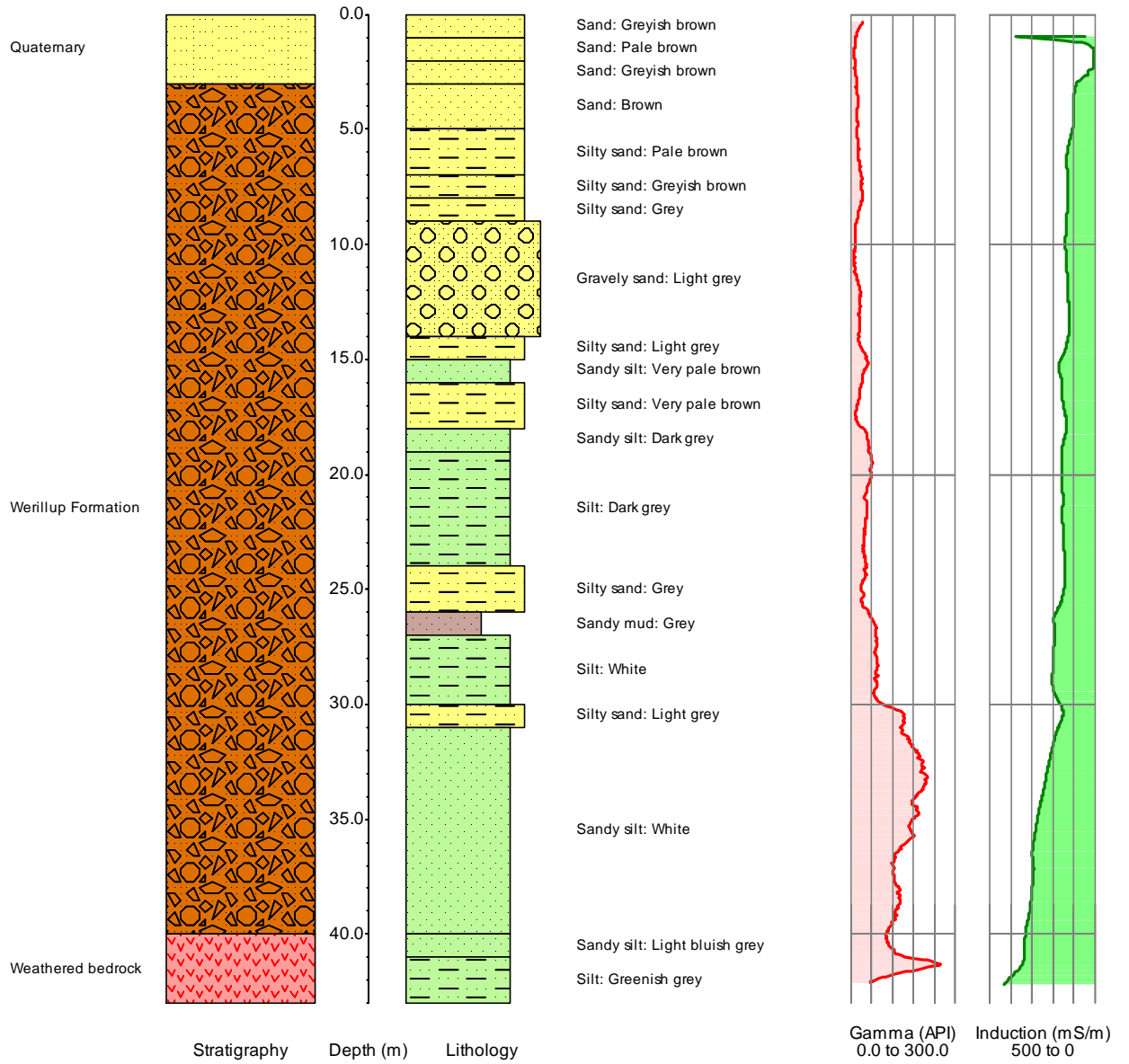
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	3.0	Quaternary	Sediments
3.0	40.0	Eocene	Werillup Formation
40.0	43.0	Proterozoic	Weathered bedrock



MU36D



BORE SITE MU36S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	469592.69 mE
NORTHING:	6191812.31 mN
ELEVATION:	177.14 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	16/04/2003
DIAMETER:	122 mm
TOTAL DEPTH:	27 m BGL
TOP OF CASING:	0.57 m AGL
SCREENED INTERVAL:	From 21 m to 27 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	18/03/2005
STANDING WATER LEVEL:	2.8 m BGL
TDS:	1830 mg/L
ELECTRICAL CONDUCTIVITY:	3 mS/cm (uncompensated)
TEMPERATURE:	17.6 degree C
pH:	6.0

BORE SITE MU37D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	487554.61 mE
NORTHING:	6199635.61 mN
ELEVATION:	223.3 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	5/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	48 m BGL
TOP OF CASING:	0.74 m AGL
SCREENED INTERVAL:	From 45 m to 48 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	16/03/2005
STANDING WATER LEVEL:	5.92 m BGL
TDS:	5525 mg/L
ELECTRICAL CONDUCTIVITY:	9.3 mS/cm (uncompensated)
TEMPERATURE:	22.7 degree C
pH:	6.9

GEOLOGICAL DATA

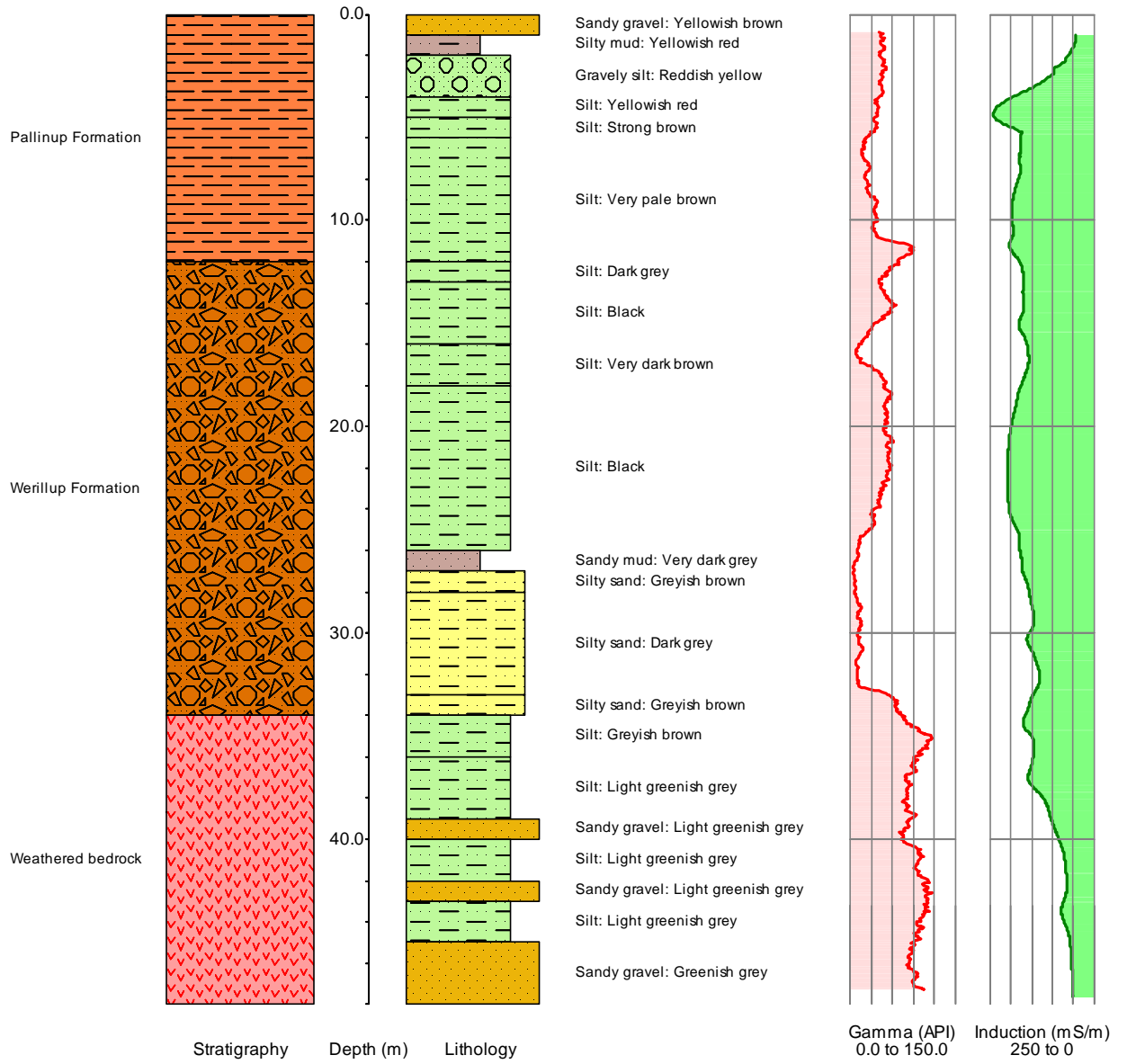
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	12.0	Eocene	Pallinup Formation
12.0	34.0	Eocene	Werillup Formation
34.0	48.0	Proterozoic	Weathered bedrock



MU37D



BORE SITE MU371

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	487554.26 mE
NORTHING:	6199637.61 mN
ELEVATION:	223.23 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	5/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	34 m BGL
TOP OF CASING:	0.64 m AGL
SCREENED INTERVAL:	From 28 m to 34 m BLG
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	16/03/2005
STANDING WATER LEVEL:	5.77 m BGL
TDS:	3482 mg/L
ELECTRICAL CONDUCTIVITY:	5.4 mS/cm (uncompensated)
TEMPERATURE:	18.3 degree C
pH:	4.94

BORE SITE MU37S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	487554.03 mE
NORTHING:	6199638.92 mN
ELEVATION:	223.14 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	6/05/2003
DIAMETER:	122 mm
TOTAL DEPTH:	12 m BGL
TOP OF CASING:	0.69 m AGL
SCREENED INTERVAL:	From 9 m to 12 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	16/03/2005
STANDING WATER LEVEL:	5.95 m BGL
TDS:	3503 mg/L
ELECTRICAL CONDUCTIVITY:	6.1 mS/cm (uncompensated)
TEMPERATURE:	23.5 degree C
pH:	5.18

BORE SITE MU38D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	471417.54 mE
NORTHING:	6203539.535 mN
ELEVATION:	205.4 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	8/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	39 m BGL
TOP OF CASING:	0.575 m AGL
SCREENED INTERVAL:	From 17 m to 20 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	3/03/2005
STANDING WATER LEVEL:	1.32 m BGL
TDS:	562 mg/L
ELECTRICAL CONDUCTIVITY:	0.9 mS/cm (uncompensated)
TEMPERATURE:	17.4 degree C
pH:	6.02

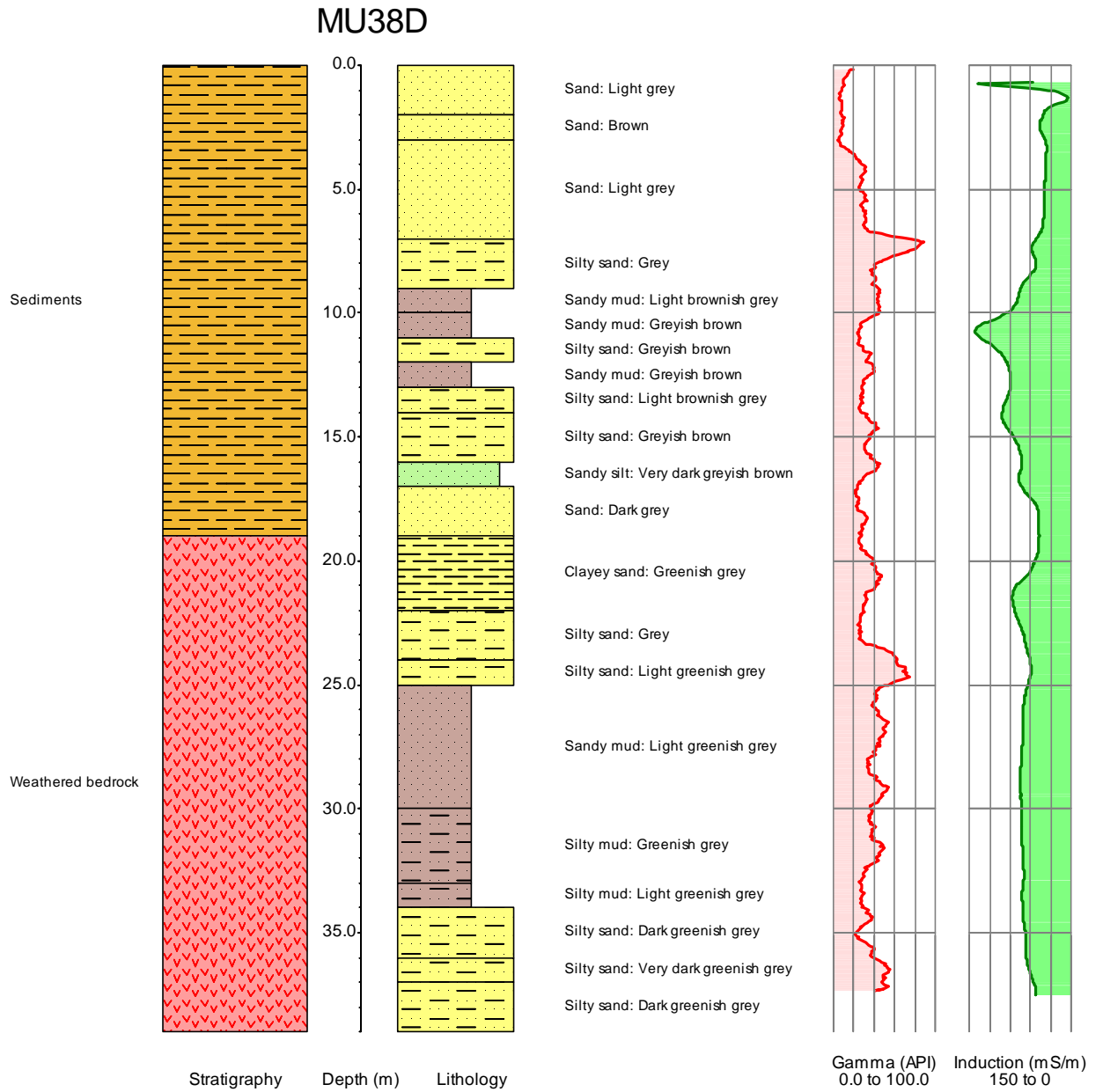
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	19.0	Quaternary	Sediments
19.0	39.0	Proterozoic	Weathered bedrock





BORE SITE MU38S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	471418.669 mE
NORTHING:	6203537.792 mN
ELEVATION:	205.36 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	13/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	7.5 m BGL
TOP OF CASING:	0.675 m AGL
SCREENED INTERVAL:	From 3 m to 6 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	3/03/2005
STANDING WATER LEVEL:	3.42 m BGL
TDS:	240 mg/L
ELECTRICAL CONDUCTIVITY:	0.4 mS/cm (uncompensated)
TEMPERATURE:	21.9 degree C
pH:	5.79

BORE SITE MU39

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	MU39
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472321.662 mE
NORTHING:	6202375.296 mN
ELEVATION:	218.20 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	31/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	20 m BGL
TOP OF CASING:	0.775 m AGL
SCREENED INTERVAL:	From 16 m to 19 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	14/03/2007
STANDING WATER LEVEL:	7.98 m BGL
TDS:	9792 mg/L
ELECTRICAL CONDUCTIVITY:	15.42 mS/cm (uncompensated)
TEMPERATURE:	20.4 degree C
pH:	4.2

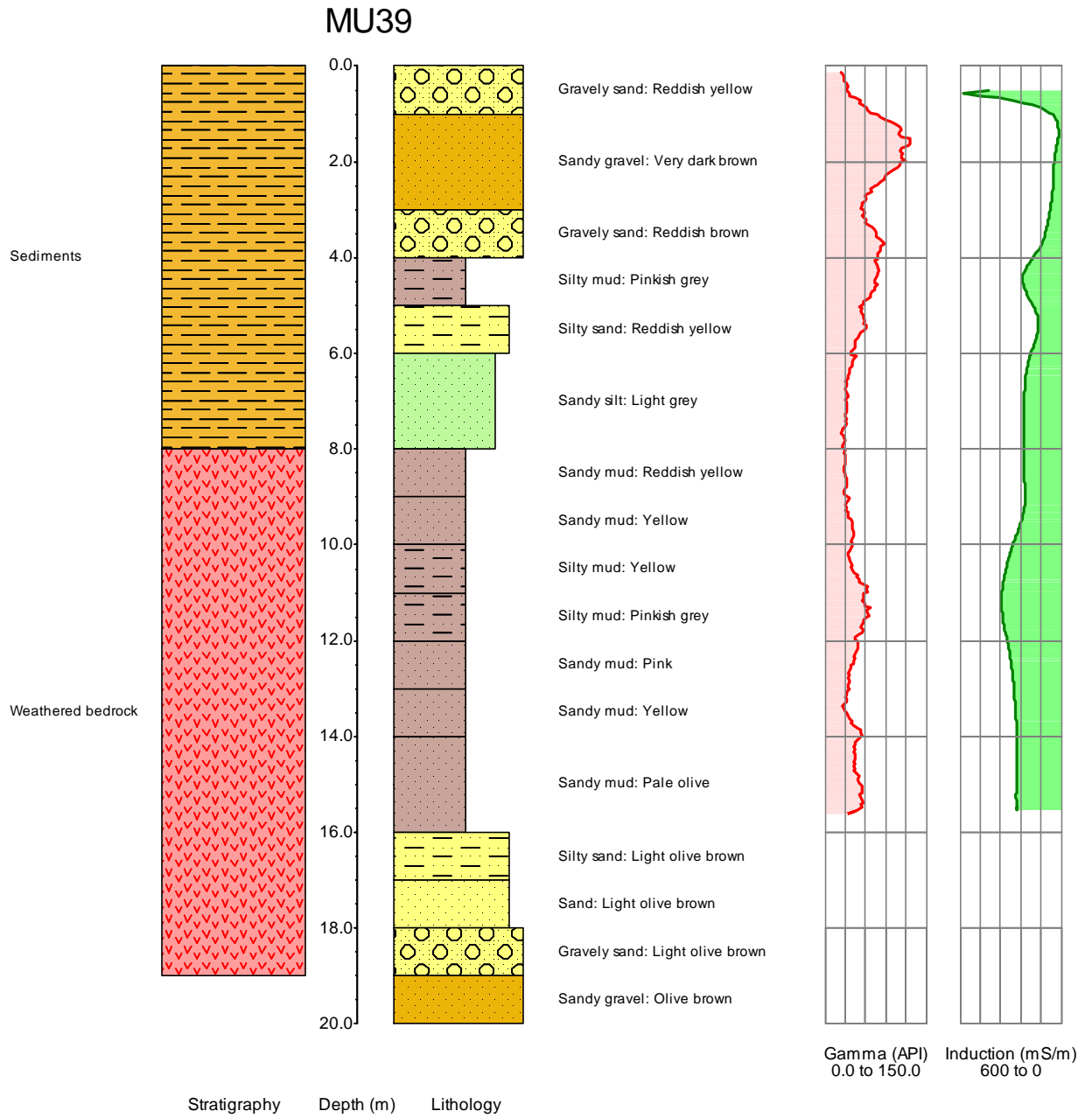
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	8.0	Quaternary	Sediments
8.0	20.0	Proterozoic	Weathered bedrock





BORE SITE MU40D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	468234.397 mE
NORTHING:	6199579.023 mN
ELEVATION:	188.58 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	7/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	29.5 m BGL
TOP OF CASING:	0.595 m AGL
SCREENED INTERVAL:	From 26.5 m to 29.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	2/03/2005
STANDING WATER LEVEL:	-0.18 m BGL
TDS:	12691 mg/L
ELECTRICAL CONDUCTIVITY:	20.1 mS/cm (uncompensated)
TEMPERATURE:	23.5 degree C
pH:	6.05

GEOLOGICAL DATA

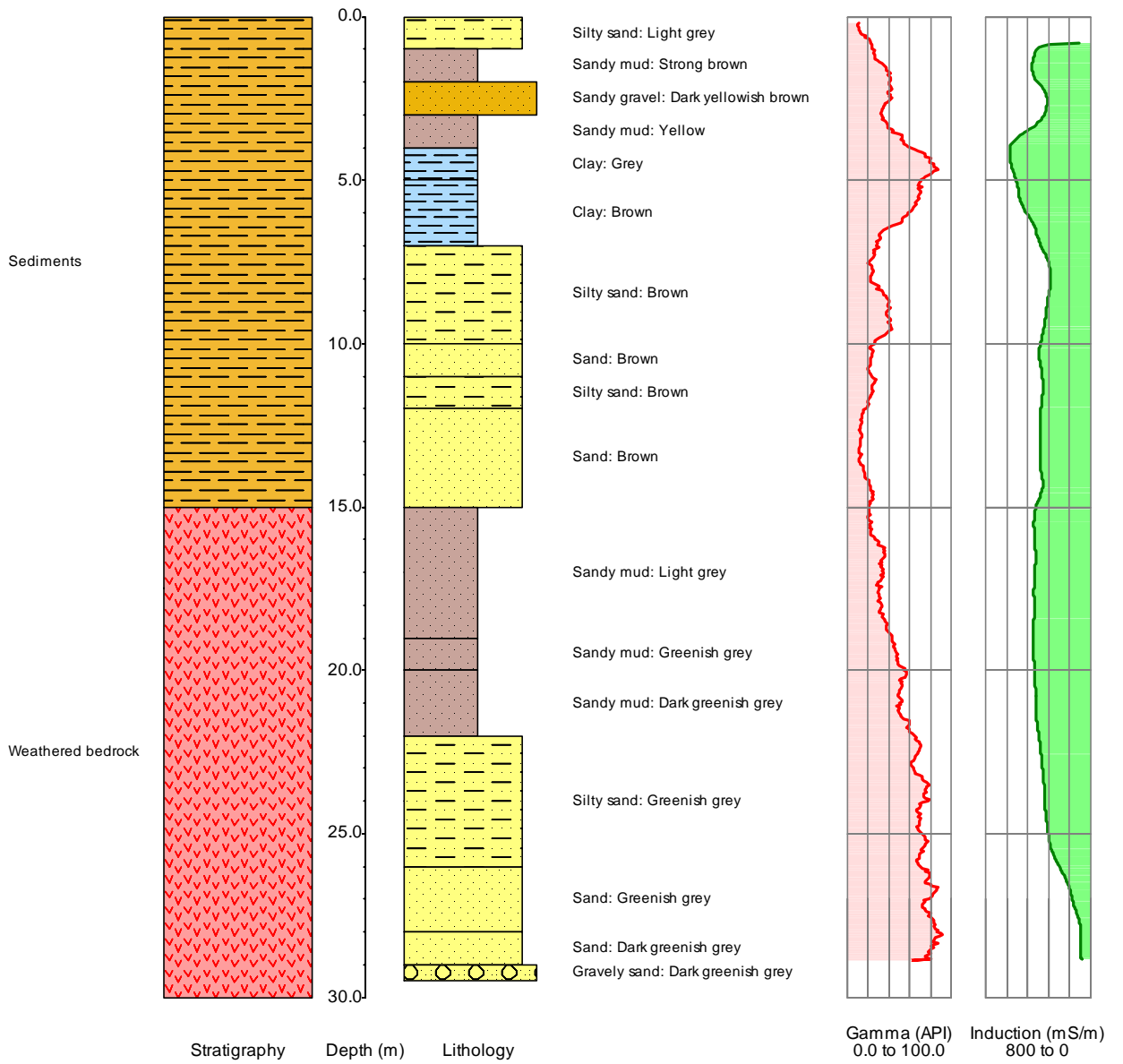
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	15.0	Quaternary	Sediments
15.0	29.5	Proterozoic	Weathered bedrock



MU40D



BORE SITE MU40S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	468236.112 mE
NORTHING:	6199578.801 mN
ELEVATION:	188.66 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	7/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	15 m BGL
TOP OF CASING:	0.615 m AGL
SCREENED INTERVAL:	From 9 m to 15 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	2/03/2005
STANDING WATER LEVEL:	-0.02 m BGL
TDS:	13794 mg/L
ELECTRICAL CONDUCTIVITY:	19.7 mS/cm (uncompensated)
TEMPERATURE:	19.5 degree C
pH:	5.78

BORE SITE MU41D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	470342.606 mE
NORTHING:	6196390.306 mN
ELEVATION:	186.47 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	14/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	50 m BGL
TOP OF CASING:	0.715 m AGL
SCREENED INTERVAL:	From 16 m to 19 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	1/03/2005
STANDING WATER LEVEL:	1.28 m BGL
TDS:	4096 mg/L
ELECTRICAL CONDUCTIVITY:	6.3 mS/cm (uncompensated)
TEMPERATURE:	18.2 degree C
pH:	5.64

GEOLOGICAL DATA

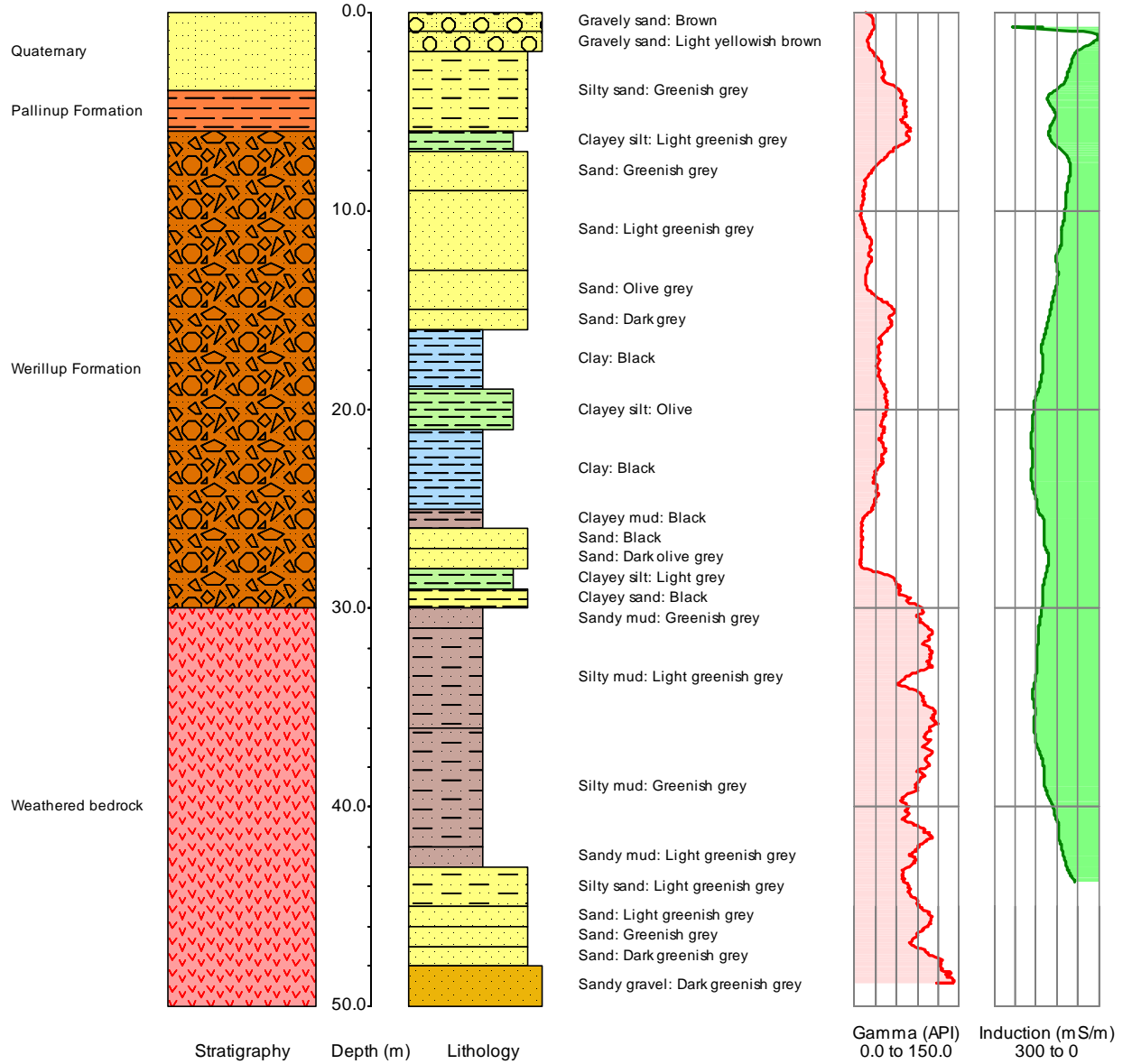
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	4.0	Quaternary	Sediments
4.0	6.0	Eocene	Pallinup Formation
6.0	30.0	Eocene	Werillup Formation
30.0	50.0	Proterozoic	Weathered bedrock



MU41D



BORE SITE MU41S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	470341.681 mE
NORTHING:	6196390.822 mN
ELEVATION:	186.50 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	15/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	16.5 m BGL
TOP OF CASING:	0.75 m AGL
SCREENED INTERVAL:	From 10.5 m to 16.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	1/03/2005
STANDING WATER LEVEL:	1.7 m BGL
TDS:	2042 mg/L
ELECTRICAL CONDUCTIVITY:	3.3 mS/cm (uncompensated)
TEMPERATURE:	18.2 degree C
pH:	5.87

BORE SITE MU42D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474242.375 mE
NORTHING:	6193280.653 mN
ELEVATION:	192.72 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	16/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	68 m BGL
TOP OF CASING:	0.72 m AGL
SCREENED INTERVAL:	From 40.5 m to 43.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	24/02/2005
STANDING WATER LEVEL:	2.1 m BGL
TDS:	3959 mg/L
ELECTRICAL CONDUCTIVITY:	6.7 mS/cm (uncompensated)
TEMPERATURE:	22.3 degree C
pH:	6.0

GEOLOGICAL DATA

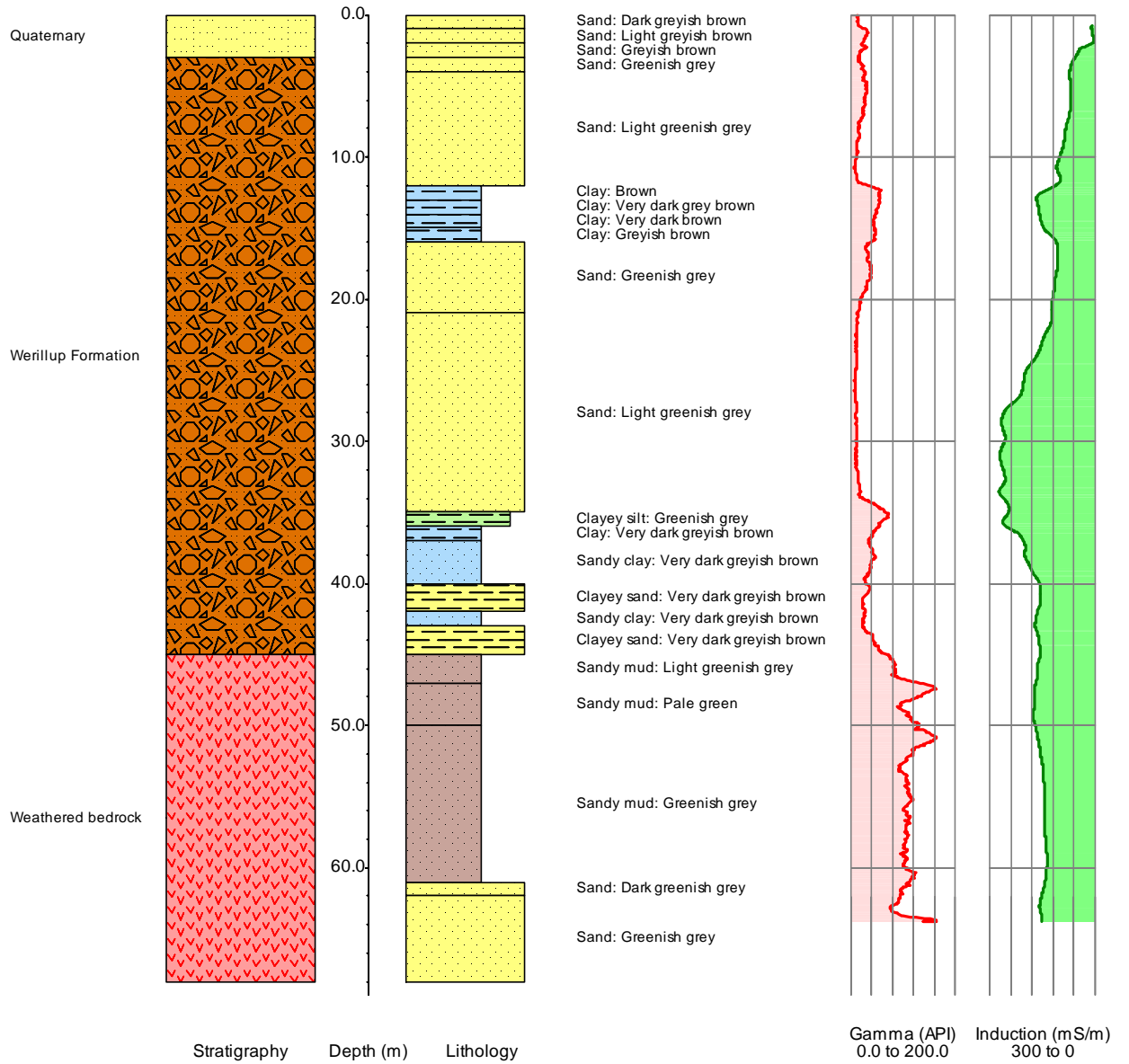
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	3.0	Quaternary	Sediments
3.0	45.0	Eocene	Werillup Formation
45.0	68.0	Proterozoic	Weathered bedrock



MU42D



BORE SITE MU42I

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474243.612 mE
NORTHING:	6193280.551 mN
ELEVATION:	192.758 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	36 m BGL
TOP OF CASING:	0.7 m AGL
SCREENED INTERVAL:	From 29 m to 35 m BLG
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	24/02/2005
STANDING WATER LEVEL:	2.31 m BGL
TDS:	7241 mg/L
ELECTRICAL CONDUCTIVITY:	11.2 mS/cm (uncompensated)
TEMPERATURE:	19.3 degree C
pH:	5.45

BORE SITE MU42S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474245.899 mE
NORTHING:	6193280.615 mN
ELEVATION:	192.84 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	12 m BGL
TOP OF CASING:	0.63 m AGL
SCREENED INTERVAL:	From 5 m to 11 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	24/02/2005
STANDING WATER LEVEL:	2.17 m BGL
TDS:	2000 mg/L
ELECTRICAL CONDUCTIVITY:	3.5 mS/cm (uncompensated)
TEMPERATURE:	21.1 degree C
pH:	5.76

BORE SITE MU43D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	475020.758 mE
NORTHING:	6189253.992 mN
ELEVATION:	178.31 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	20/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	30 m BGL
TOP OF CASING:	0.72 m AGL
SCREENED INTERVAL:	From 12 m to 15 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	24/02/2005
STANDING WATER LEVEL:	0.36 m BGL
TDS:	4523 mg/L
ELECTRICAL CONDUCTIVITY:	6.8 mS/cm (uncompensated)
TEMPERATURE:	17.4 degree C
pH:	5.61

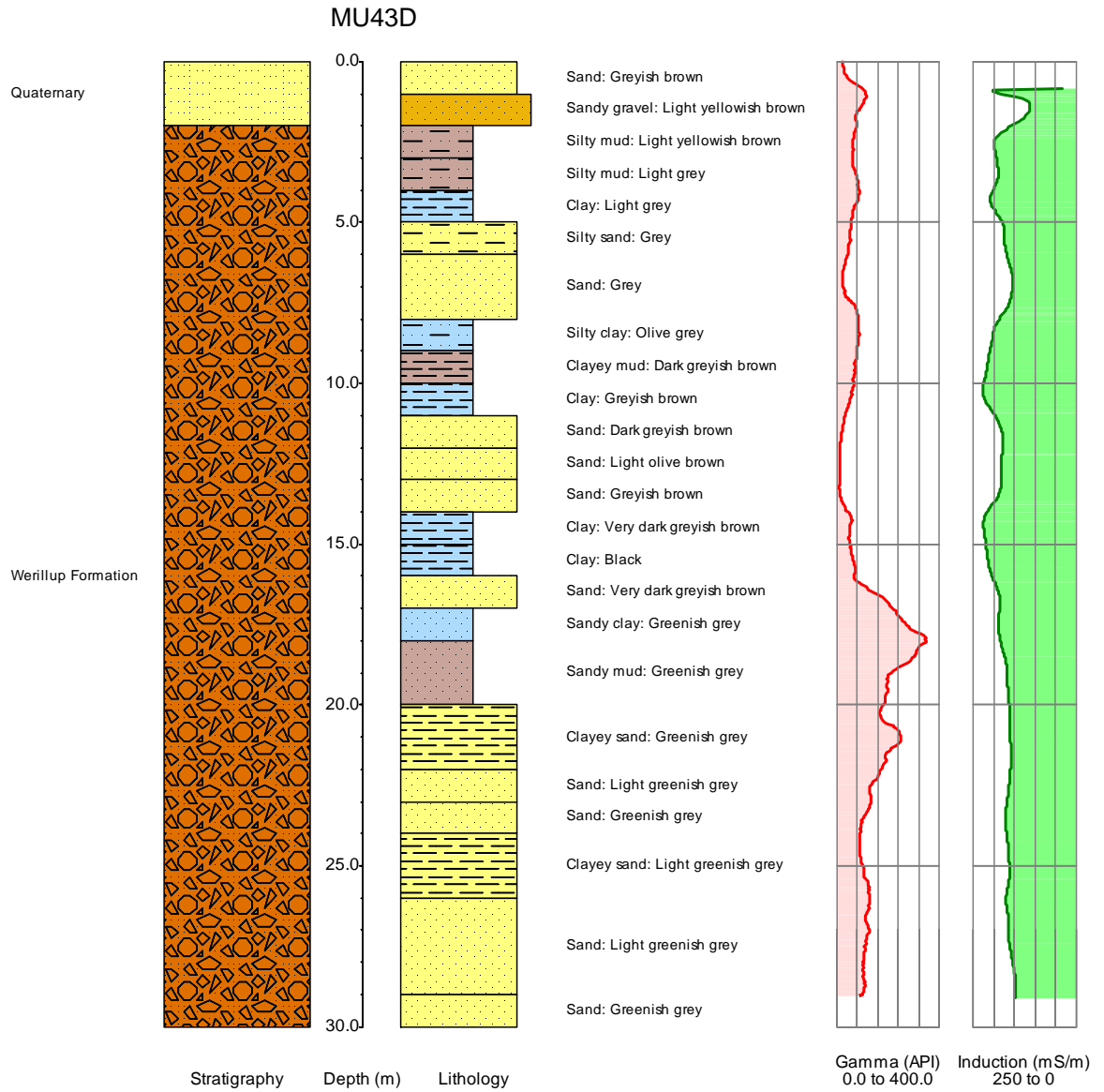
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	2.0	Quaternary	Sediments
2.0	30.0	Eocene	Werillup Formation





BORE SITE MU43S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	475018.946 mE
NORTHING:	6189254.099 mN
ELEVATION:	178.33 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	21/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	9 m BGL
TOP OF CASING:	0.79 m AGL
SCREENED INTERVAL:	From 6 m to 9 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	24/02/2005
STANDING WATER LEVEL:	-0.05 m BGL
TDS:	3862 mg/L
ELECTRICAL CONDUCTIVITY:	5.9 mS/cm (uncompensated)
TEMPERATURE:	17.6 degree C
pH:	5.56

BORE SITE MU44

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	467064.012 mE
NORTHING:	6181284.459 mN
ELEVATION:	174.73 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	29/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	19.5 m BGL
TOP OF CASING:	0.57 m AGL
SCREENED INTERVAL:	From 10.5 m to 16.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	28/11/2006
STANDING WATER LEVEL:	2.36 m BGL
TDS:	34482 mg/L
ELECTRICAL CONDUCTIVITY:	40.9 mS/cm (uncompensated)
TEMPERATURE:	16.9 degree C
pH:	6.2

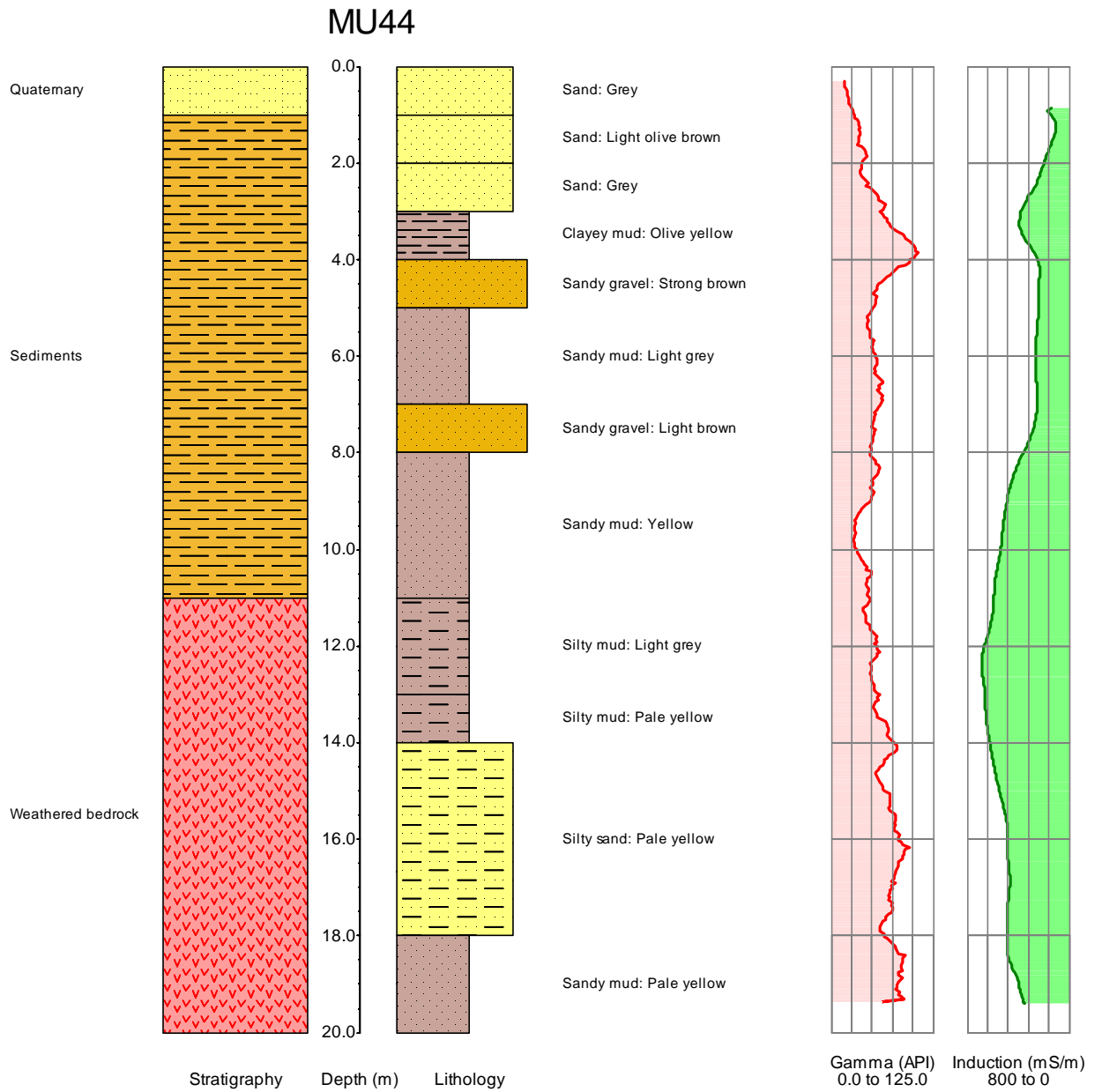
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	1.0	Quaternary	Sediments
1.0	11.0		Sediments
11.0	19.5	Proterozoic	Weathered bedrock





BORE SITE MU45D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472087.9 mE
NORTHING:	6179776.785 mN
ELEVATION:	174.98 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	25/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	33 m BGL
TOP OF CASING:	0.705 m AGL
SCREENED INTERVAL:	From 24 m to 30 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/02/2005
STANDING WATER LEVEL:	3.43 m BGL
TDS:	88346 mg/L
ELECTRICAL CONDUCTIVITY:	102.8 mS/cm (uncompensated)
TEMPERATURE:	18.7 degree C
pH:	6.54

GEOLOGICAL DATA

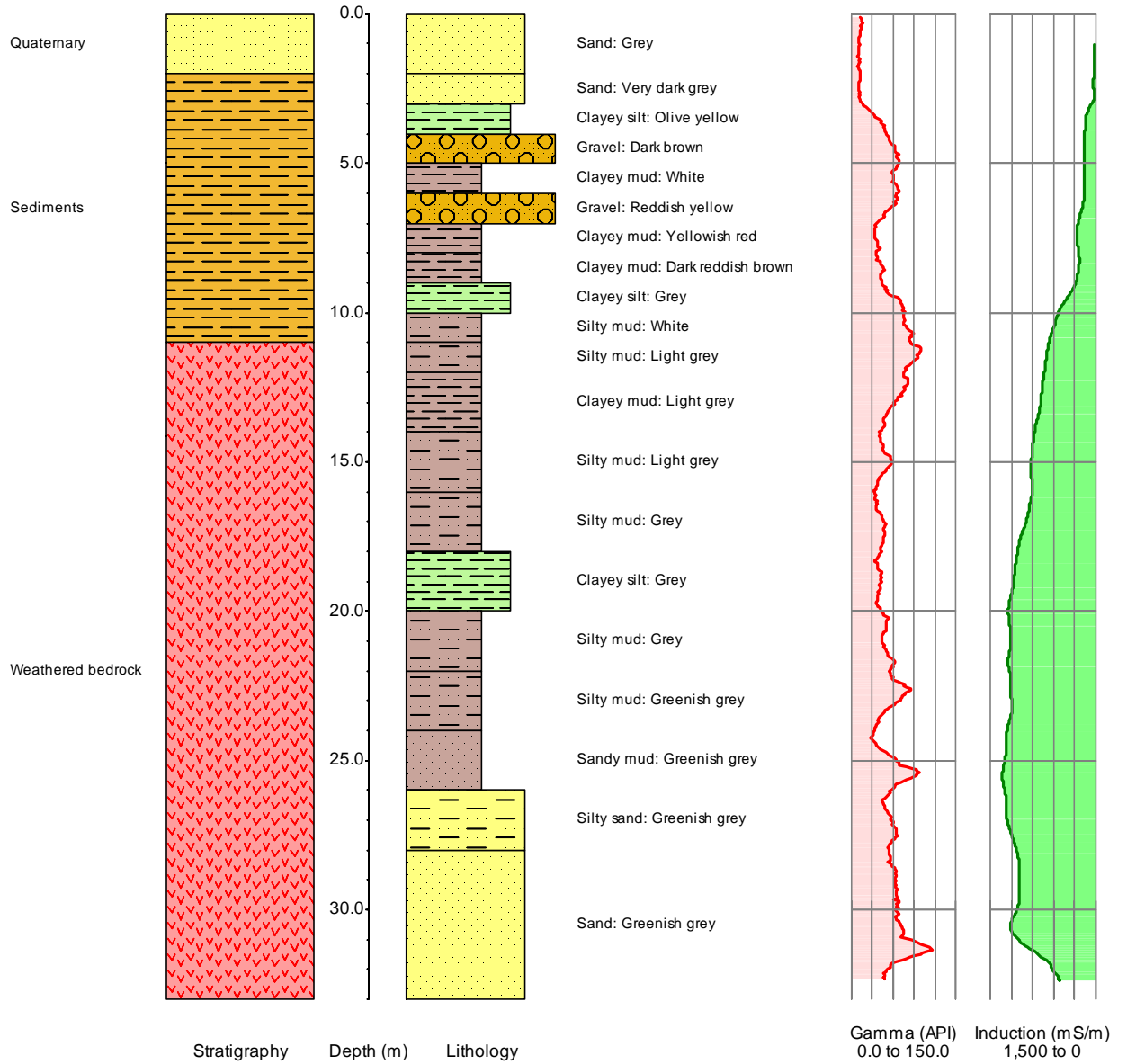
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	2.0	Quaternary	Sediments
2.0	11.0		Sediments
11.0	33.0	Proterozoic	Weathered bedrock



MU45D



BORE SITE MU45S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	472087.851 mE
NORTHING:	6179774.889 mN
ELEVATION:	175.02 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	26/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	9 m BGL
TOP OF CASING:	0.76 m AGL
SCREENED INTERVAL:	From 6 m to 9 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/02/2005
STANDING WATER LEVEL:	2.46 m BGL
TDS:	4034 mg/L
ELECTRICAL CONDUCTIVITY:	6.1 mS/cm (uncompensated)
TEMPERATURE:	17.3 degree C
pH:	6.73

BORE SITE MU46D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476501.463 mE
NORTHING:	6177083.823 mN
ELEVATION:	177.29 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	22/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	72 m BGL
TOP OF CASING:	0.66 m AGL
SCREENED INTERVAL:	From 65 m to 71 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

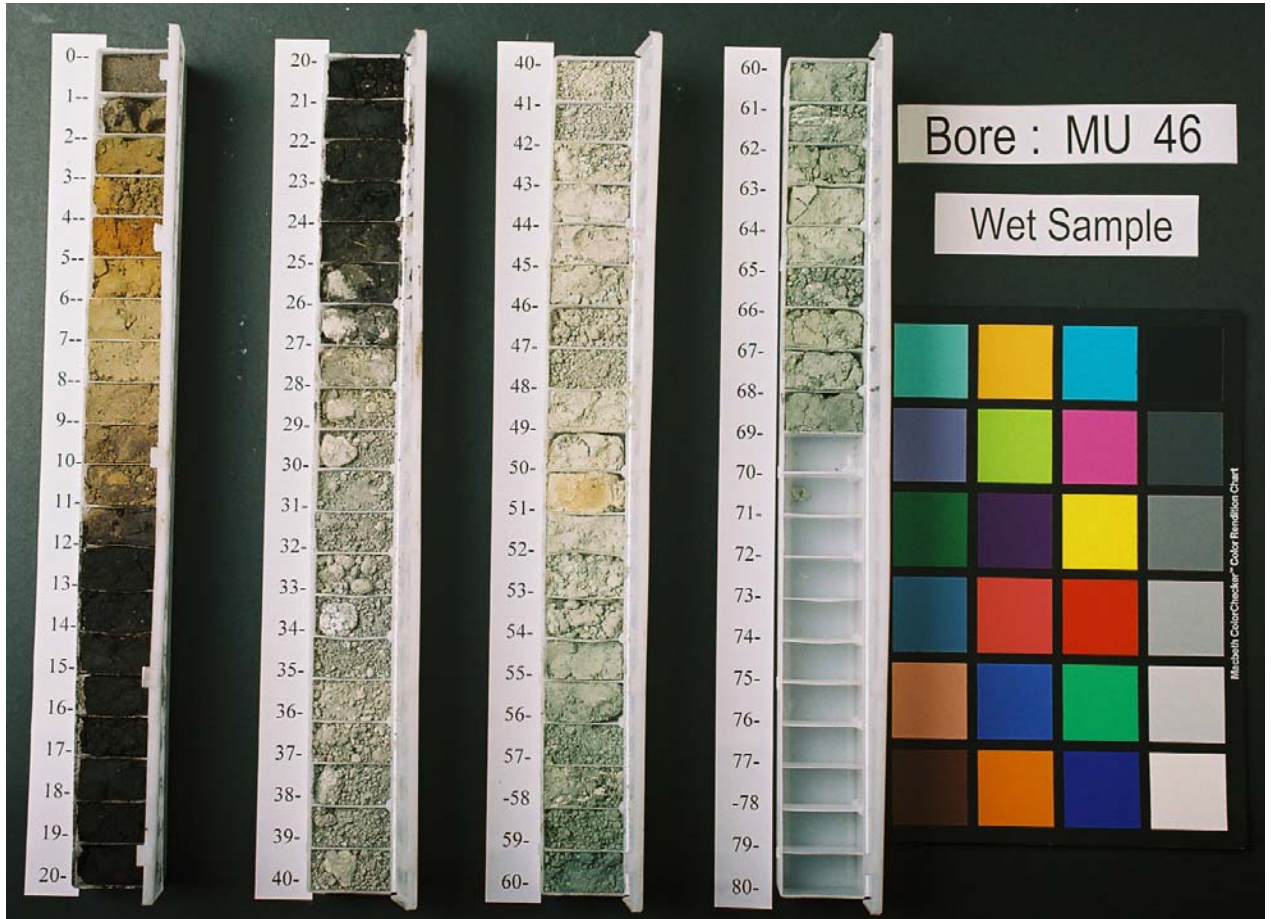
DATE:	23/02/2005
STANDING WATER LEVEL:	3.97 m BGL
TDS:	53388 mg/L
ELECTRICAL CONDUCTIVITY:	66.8 mS/cm (uncompensated)
TEMPERATURE:	20.9 degree C
pH:	6.3

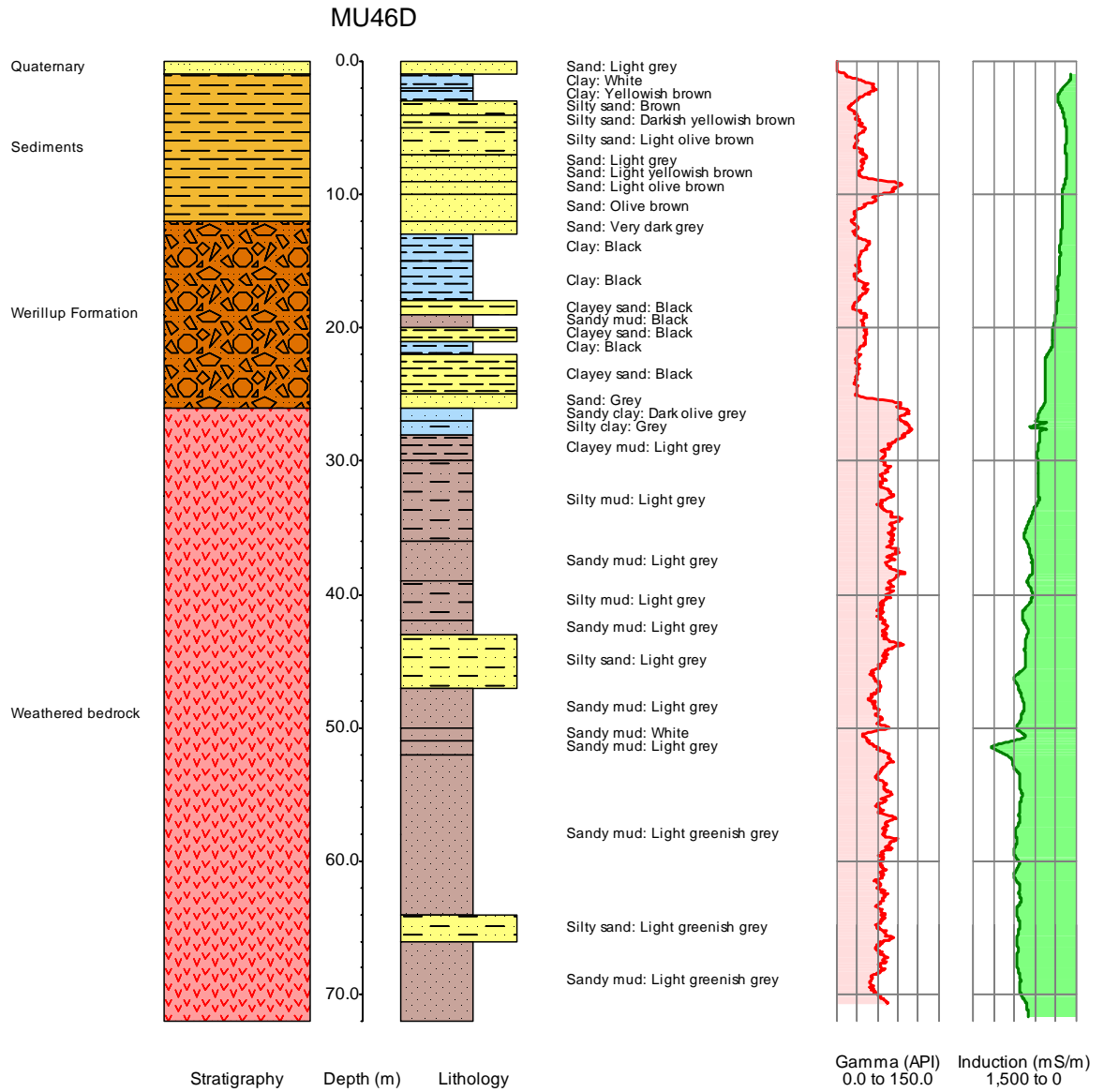
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	1.0	Quaternary	Eolian sand
1.0	12.0		Sediment
12.0	26.0	Eocene	Werillup Formation
26.0	72.0	Proterozoic	Weathered bedrock





BORE SITE MU46S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476500.196 mE
NORTHING:	6177081.968 mN
ELEVATION:	177.32 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	24/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	27 m BGL
TOP OF CASING:	0.62 m AGL
SCREENED INTERVAL:	From 20 m to 26 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	23/02/2005
STANDING WATER LEVEL:	2.87 m BGL
TDS:	14658 mg/L
ELECTRICAL CONDUCTIVITY:	19.4 mS/cm (uncompensated)
TEMPERATURE:	16.6 degree C
pH:	5.8

BORE SITE MU47

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479822.734 mE
NORTHING:	6178485.93 mN
ELEVATION:	192.87 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	18/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	30 m BGL
TOP OF CASING:	0.64 m AGL
SCREENED INTERVAL:	From 23.5 m to 26.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	29/11/2006
STANDING WATER LEVEL:	13.39 m BGL
TDS:	9293 mg/L
ELECTRICAL CONDUCTIVITY:	15.13 mS/cm (uncompensated)
TEMPERATURE:	21.9 degree C
pH:	6.22

GEOLOGICAL DATA

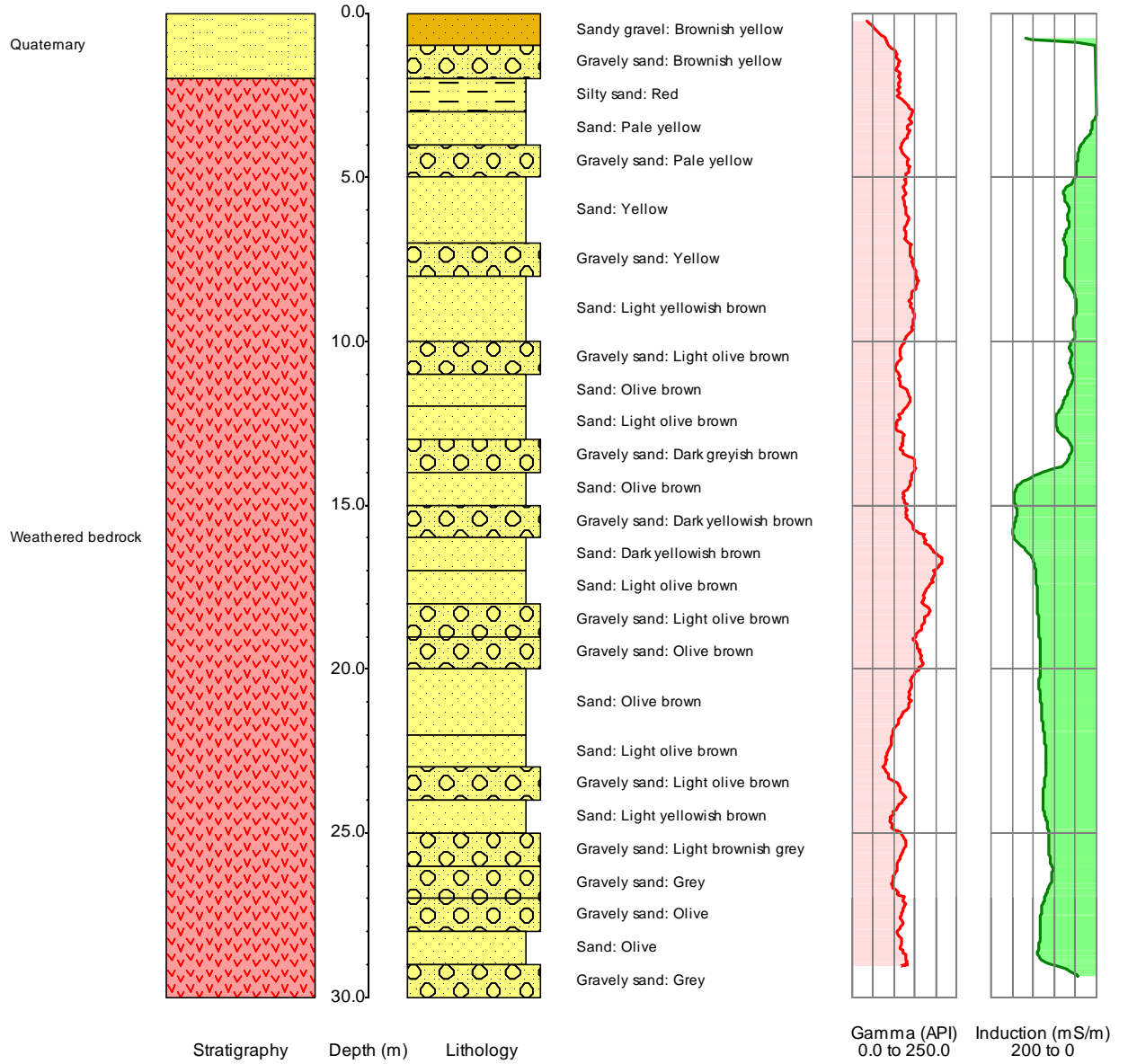
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	2.0	Quaternary	Sediments
2.0	30.0	Proterozoic	Weathered bedrock



MU47



BORE SITE MU48

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	481524.172 mE
NORTHING:	6181847.2 mN
ELEVATION:	176.49 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	18/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	19.5 m BGL
TOP OF CASING:	0.68 m AGL
SCREENED INTERVAL:	From 8 m to 11 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	29/11/2006
STANDING WATER LEVEL:	1.59 m BGL
TDS:	28294 mg/L
ELECTRICAL CONDUCTIVITY:	35.2 mS/cm (uncompensated)
TEMPERATURE:	18.2 degree C
pH:	5.48

GEOLOGICAL DATA

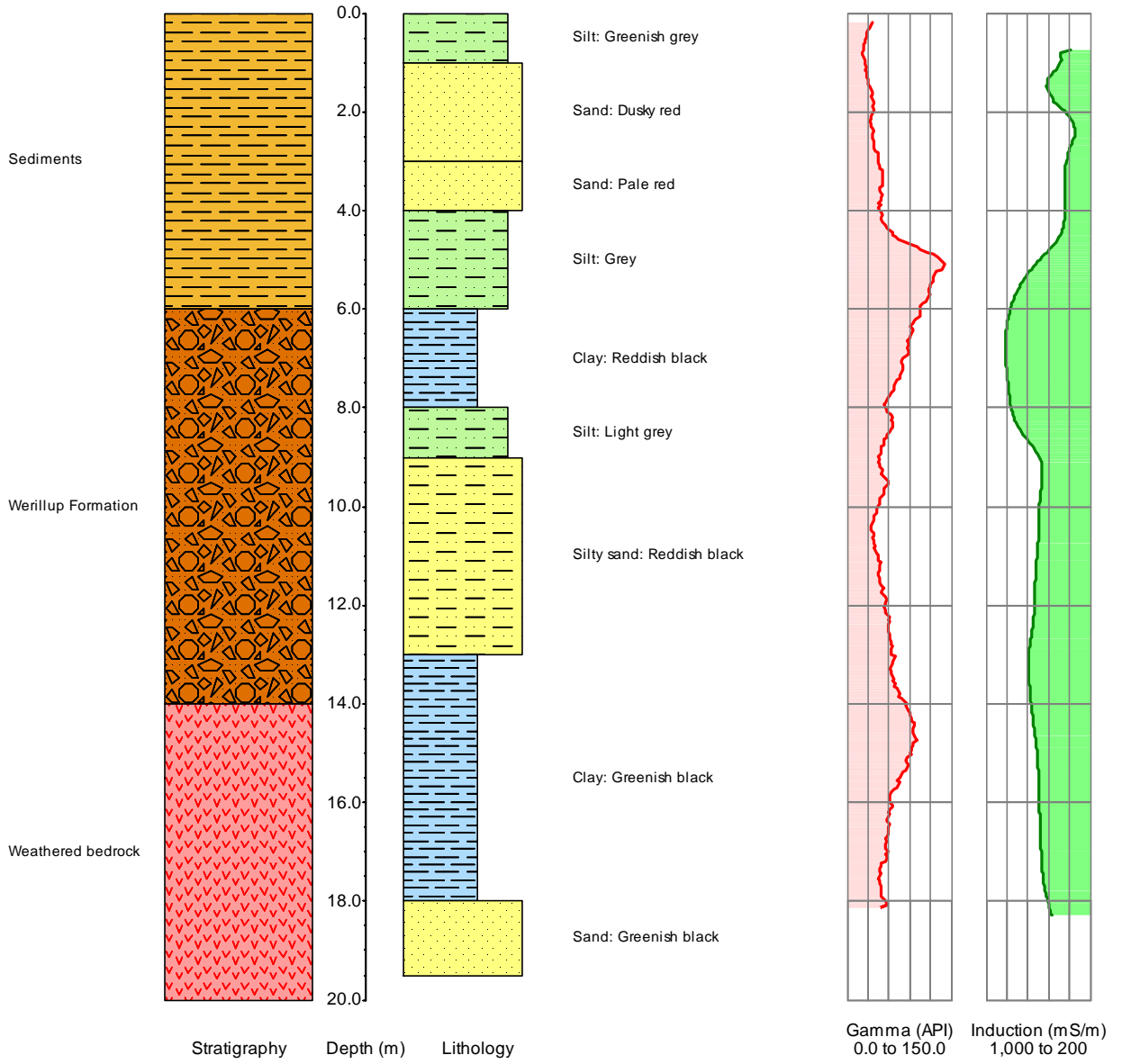
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	6.0	Quaternary	Sediments
6.0	14.0	Eocene	Werillup Formation
14.0	19.5	Proterozoic	Weathered bedrock



MU48



BORE SITE MU49

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	467350.204 mE
NORTHING:	6194594.1 mN
ELEVATION:	177.75 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	13/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	42 m BGL
TOP OF CASING:	0.63 m AGL
SCREENED INTERVAL:	From 35 m to 41 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/05/2007
STANDING WATER LEVEL:	1.6 m BGL
TDS:	2864 mg/L
ELECTRICAL CONDUCTIVITY:	4.46 mS/cm (uncompensated)
TEMPERATURE:	17.7 degree C
pH:	6.09

GEOLOGICAL DATA

SAMPLES:

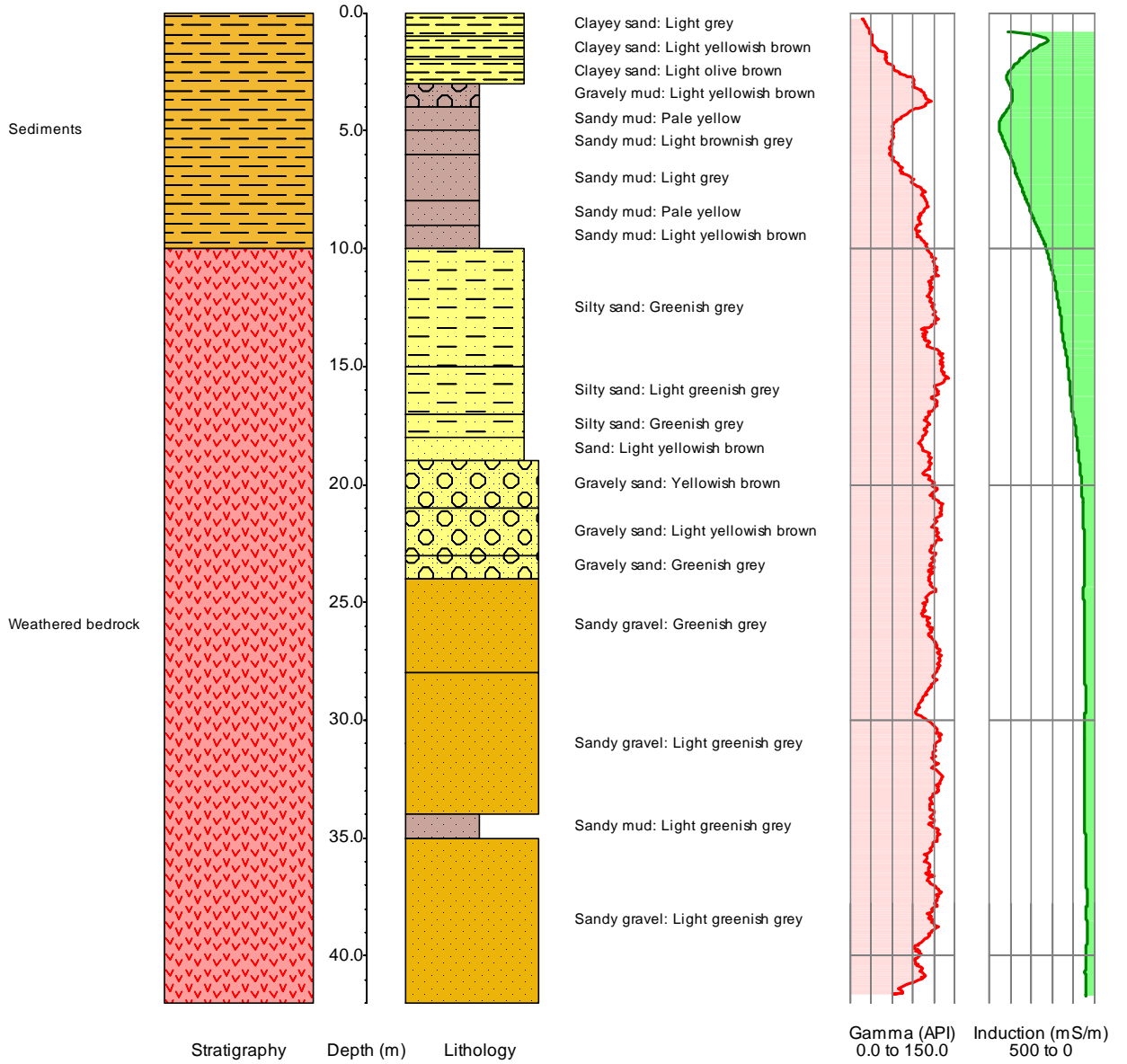
Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	9.0	Quaternary	Sediments
9.0	42.0	Proterozoic	Weathered bedrock



MU49



BORE SITE MU50

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	479122.616 mE
NORTHING:	6177193.487 mN
ELEVATION:	188.38 m AHD
PURPOSE:	Exploration
STATUS:	Abandoned

GEOLOGICAL DATA

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	5.0	Proterozoic	Weathered bedrock

BORE SITE MU51

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	477583.602 mE
NORTHING:	6178734.636 mN
ELEVATION:	181.40 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	29/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	20 m BGL
TOP OF CASING:	0.63 m AGL
SCREENED INTERVAL:	From 14 m to 20 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	29/11/2006
STANDING WATER LEVEL:	3.74 m BGL
TDS:	12261 mg/L
ELECTRICAL CONDUCTIVITY:	16.69 mS/cm (uncompensated)
TEMPERATURE:	16.1 degree C
pH:	5.79

GEOLOGICAL DATA

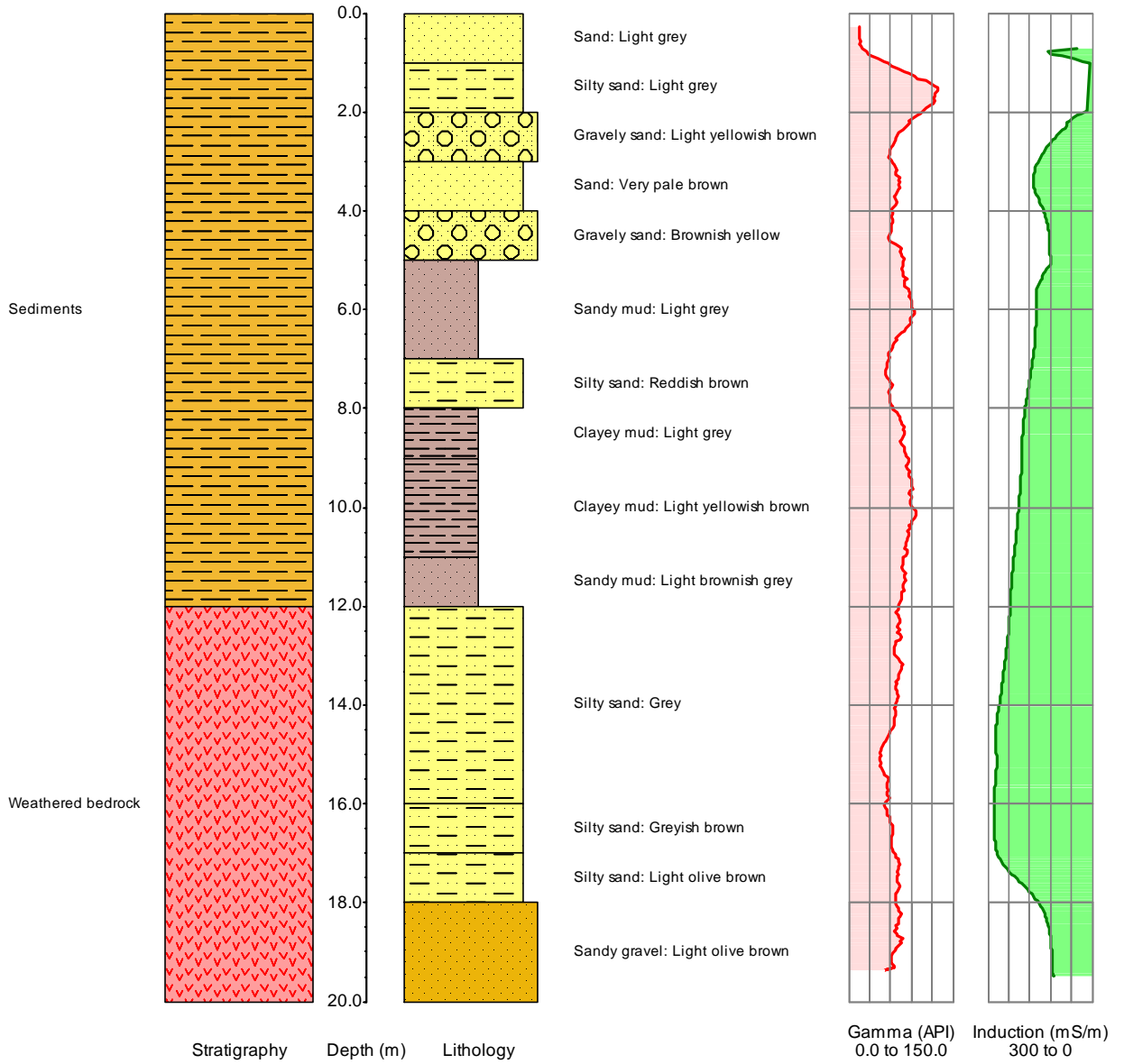
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	12.0	Quaternary	Sediments
12.0	20.0	Proterozoic	Weathered bedrock



MU51



BORE SITE MU52D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	475955.633 mE
NORTHING:	6176928.274 mN
ELEVATION:	176.71 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	30/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	28.5 m BGL
TOP OF CASING:	0.54 m AGL
SCREENED INTERVAL:	From 20.5 m to 26.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/02/2005
STANDING WATER LEVEL:	2.03 m BGL
TDS:	13051 mg/L
ELECTRICAL CONDUCTIVITY:	18.1 mS/cm (uncompensated)
TEMPERATURE:	17.7 degree C
pH:	6.14

GEOLOGICAL DATA

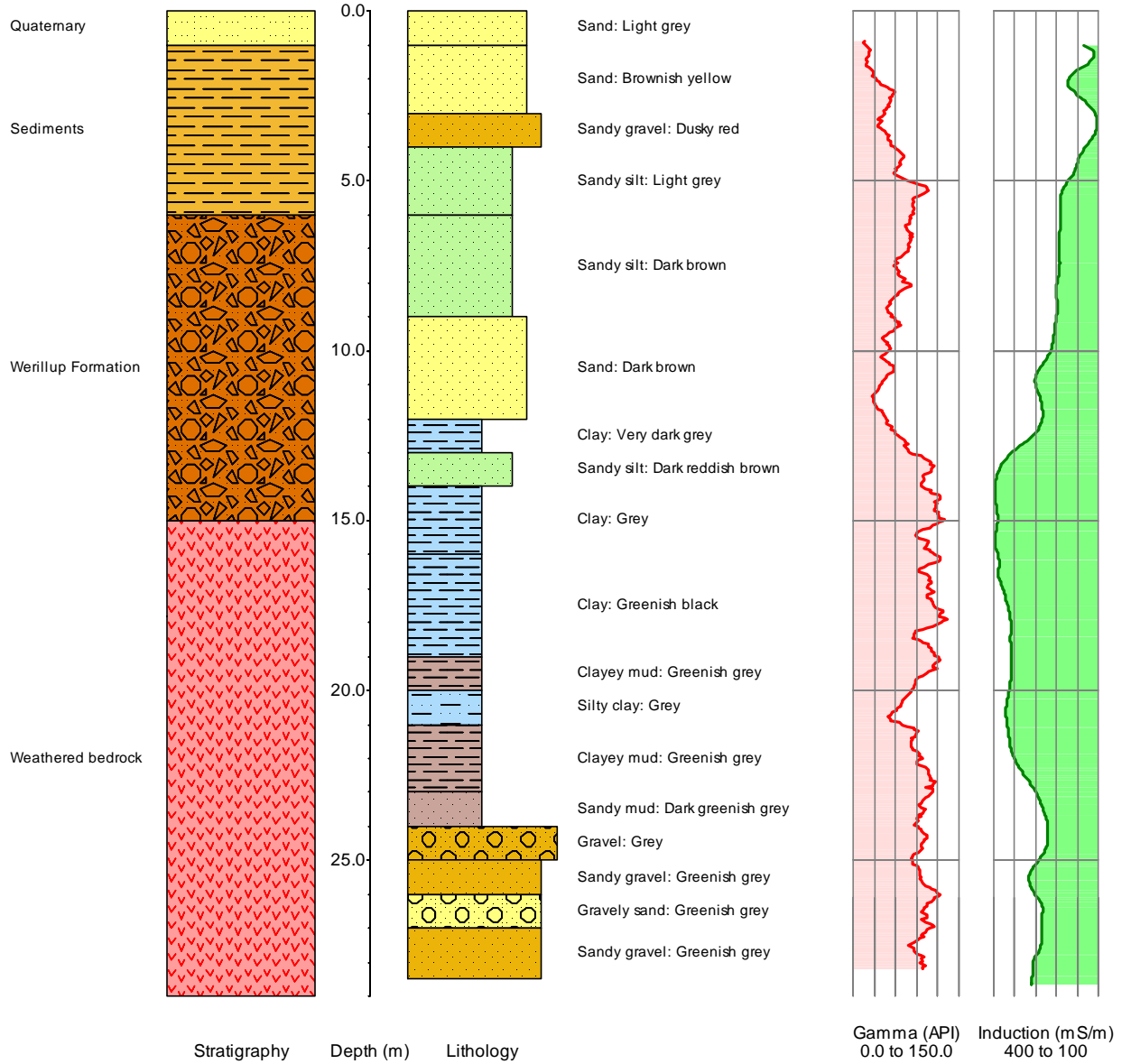
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	1.0	Quaternary	Sediments
1.0	6.0		Sediments
6.0	15.0	Eocene	Werillup Formation
15.0	28.5	Proterozoic	Weathered bedrock



MU52D



BORE SITE MU52S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	475957.47 mE
NORTHING:	6176927.833 mN
ELEVATION:	176.69 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	30/03/2004
DIAMETER:	122 mm
TOTAL DEPTH:	12 m BGL
TOP OF CASING:	0.68 m AGL
SCREENED INTERVAL:	From 5 m to 11 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/02/2005
STANDING WATER LEVEL:	1.93 m BGL
TDS:	5680 mg/L
ELECTRICAL CONDUCTIVITY:	8.3 mS/cm (uncompensated)
TEMPERATURE:	16.2 degree C
pH:	5.21

BORE SITE MU53

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	467232.92 mE
NORTHING:	6199579.815 mN
ELEVATION:	192.35 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	8/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	27 m BGL
TOP OF CASING:	0.65 m AGL
SCREENED INTERVAL:	From 23.5 m to 26.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	20/03/2007
STANDING WATER LEVEL:	0.72 m BGL
TDS:	8206 mg/L
ELECTRICAL CONDUCTIVITY:	12.89 mS/cm (uncompensated)
TEMPERATURE:	20.1 degree C
pH:	5.72

GEOLOGICAL DATA

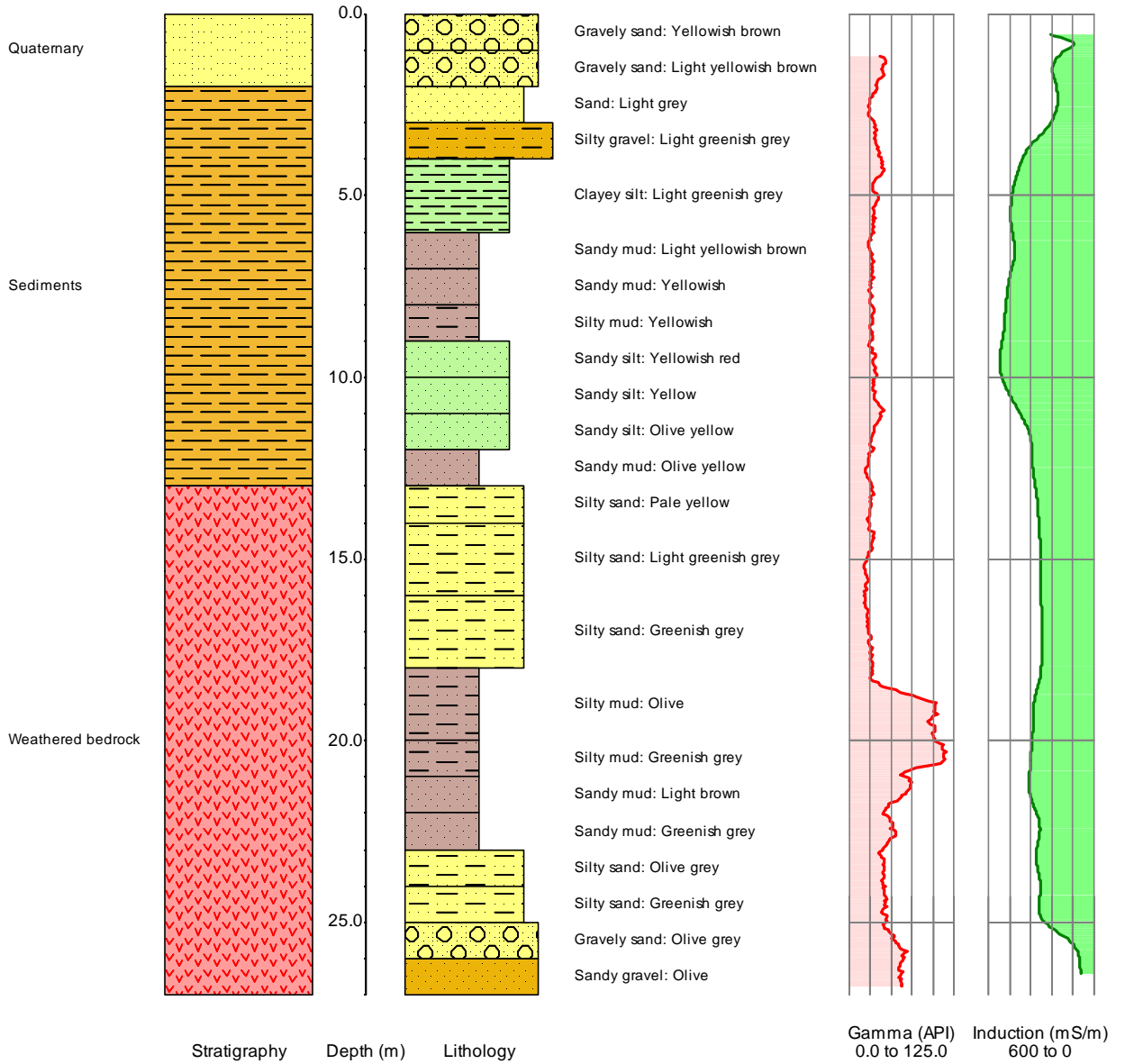
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	2.0	Quaternary	Sediments
2.0	13.0		Sediments
13.0	27.0	Proterozoic	Weathered bedrock



MU53



BORE SITE MU54D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	468632.783 mE
NORTHING:	6196055.713 mN
ELEVATION:	182.82 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	22/04/2004
DIAMETER:	122 mm
TOTAL DEPTH:	30.5 m BGL
TOP OF CASING:	0.72 m AGL
SCREENED INTERVAL:	From 10 m to 13 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

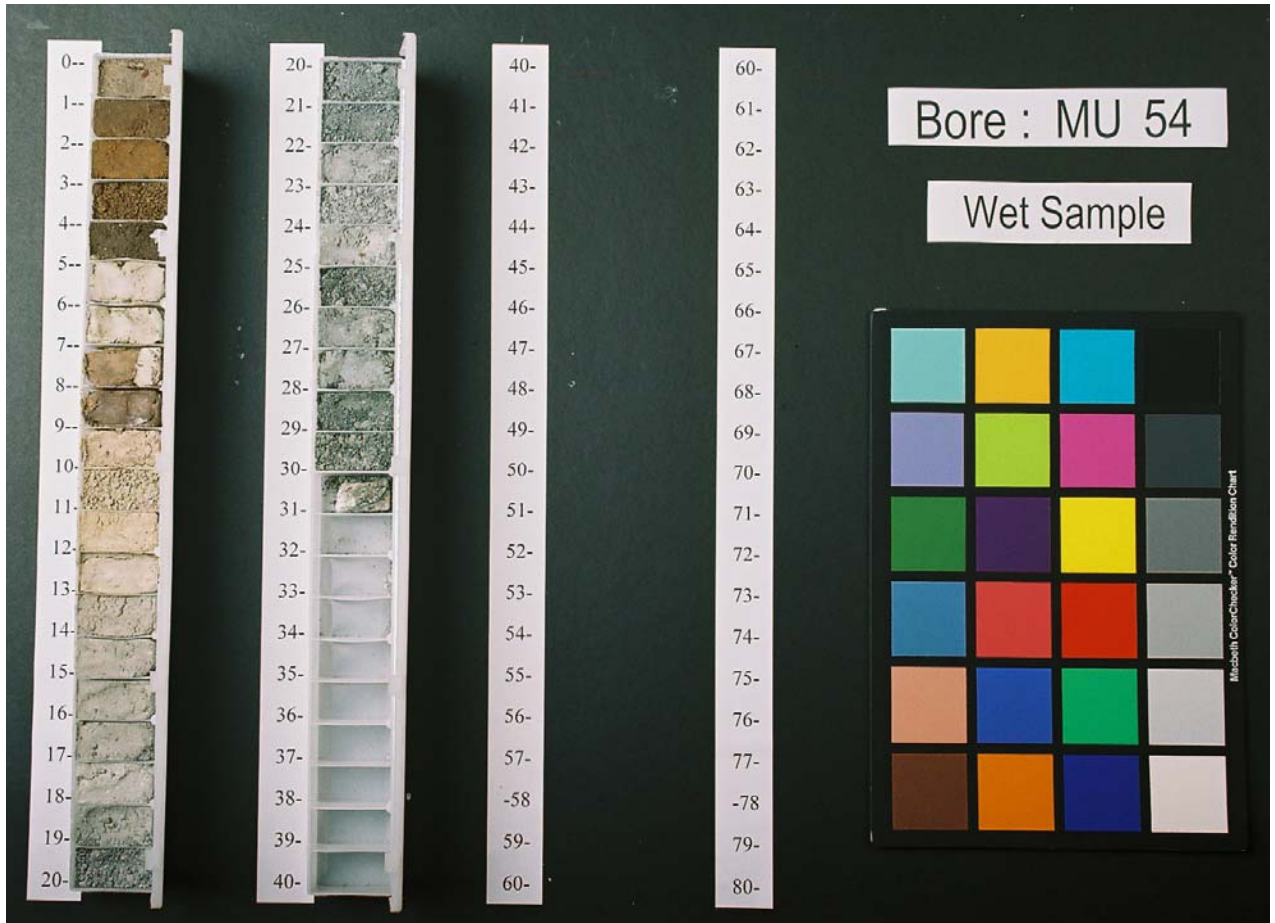
DATE:	15/03/2007
STANDING WATER LEVEL:	2.3 m BGL
TDS:	1291 mg/L
ELECTRICAL CONDUCTIVITY:	2.24 mS/cm (uncompensated)
TEMPERATURE:	19.3 degree C
pH:	6.3

GEOLOGICAL DATA

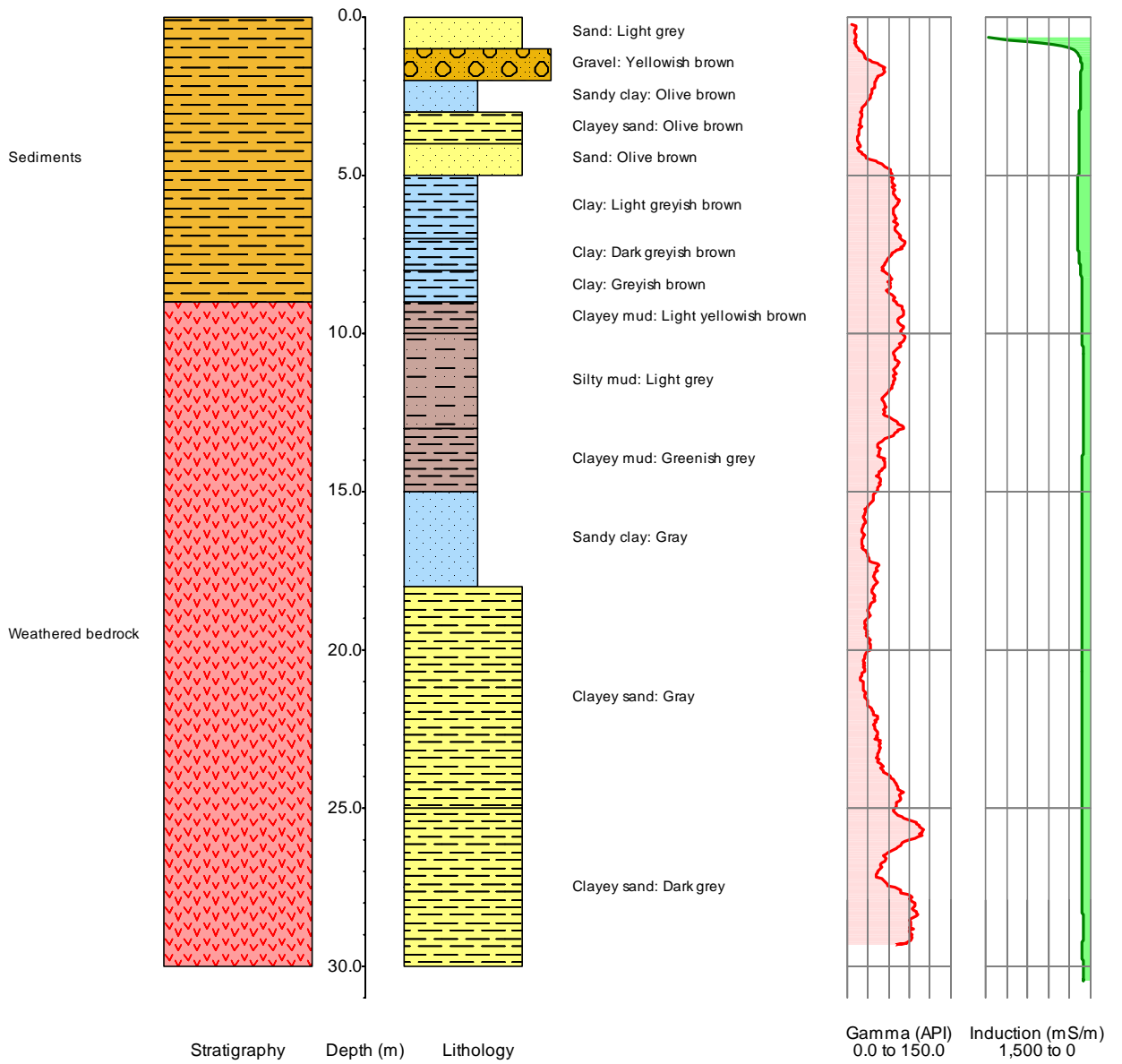
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	9.0	Quaternary	Sediments
9.0	30.0	Proterozoic	Weathered bedrock



MU54D



BORE SITE MU54S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	UC08
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	468619.328 mE
NORTHING:	6196055.249 mN
ELEVATION:	182.83 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	AgWA
RIG:	Not known
METHOD:	RAB
DRILLED:	26/04/1994
DIAMETER:	122 mm
TOTAL DEPTH:	8 m BGL
TOP OF CASING:	0.73 m AGL
SCREENED INTERVAL:	From 6 m to 8 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2007
STANDING WATER LEVEL:	2.32 m BGL
TDS:	2890 mg/L
ELECTRICAL CONDUCTIVITY:	5.18 mS/cm (uncompensated)
TEMPERATURE:	24.3 degree C
pH:	6.68

BORE SITE MU55D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	469474.15 mE
NORTHING:	6194744.32 mN
ELEVATION:	180.62 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	5/05/2005
DIAMETER:	122 mm
TOTAL DEPTH:	51.5 m BGL
TOP OF CASING:	0.61 m AGL
SCREENED INTERVAL:	From 48 m to 50 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2007
STANDING WATER LEVEL:	3.54 m BGL
TDS:	4064 mg/L
ELECTRICAL CONDUCTIVITY:	6.05 mS/cm (uncompensated)
TEMPERATURE:	16.5 degree C
pH:	5.92

GEOLOGICAL DATA

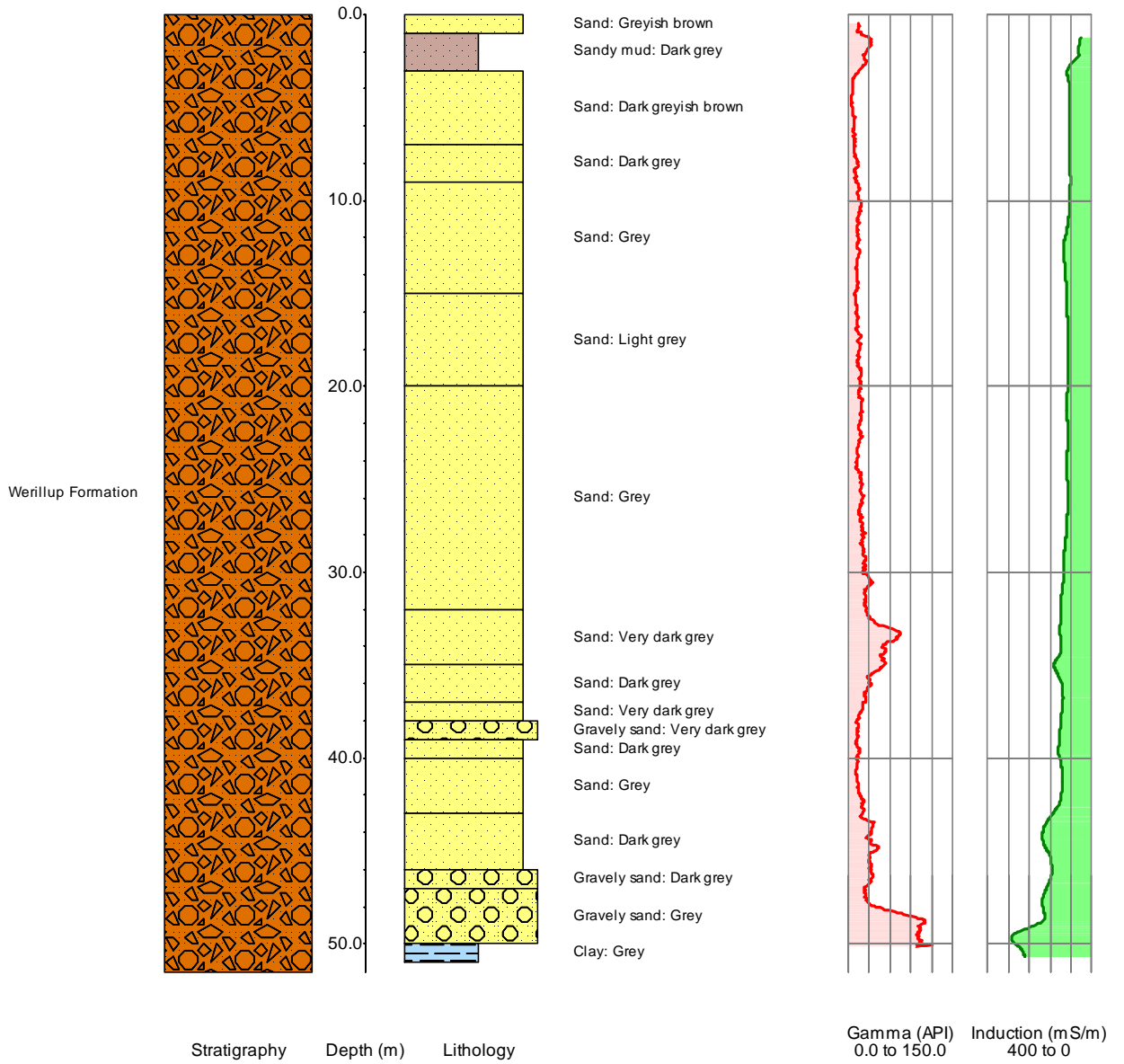
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray.
 Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	51.5	Eocene	Werillup Formation



MU55D



BORE SITE MU55S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	UC10
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	469473.214 mE
NORTHING:	6194747.057 mN
ELEVATION:	180.72 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	AgWA
RIG:	Not known
METHOD:	RAB
DRILLED:	26/04/1994
DIAMETER:	122 mm
TOTAL DEPTH:	11 m BGL
TOP OF CASING:	0.73 m AGL
SCREENED INTERVAL:	From 9 m to 11 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	27/03/2007
STANDING WATER LEVEL:	3.4 m BGL
TDS:	2677 mg/L
ELECTRICAL CONDUCTIVITY:	4.18 mS/cm (uncompensated)
TEMPERATURE:	17.6 degree C
pH:	5.61

BORE SITE MU56D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	468371.93 mE
NORTHING:	6194949.03 mN
ELEVATION:	179.32 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	4/05/2005
DIAMETER:	122 mm
TOTAL DEPTH:	29 m BGL
TOP OF CASING:	0.62 m AGL
SCREENED INTERVAL:	From 21 m to 23 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	27/03/2007
STANDING WATER LEVEL:	2.51 m BGL
TDS:	711 mg/L
ELECTRICAL CONDUCTIVITY:	1.25 mS/cm (uncompensated)
TEMPERATURE:	20.2 degree C
pH:	5.79

GEOLOGICAL DATA

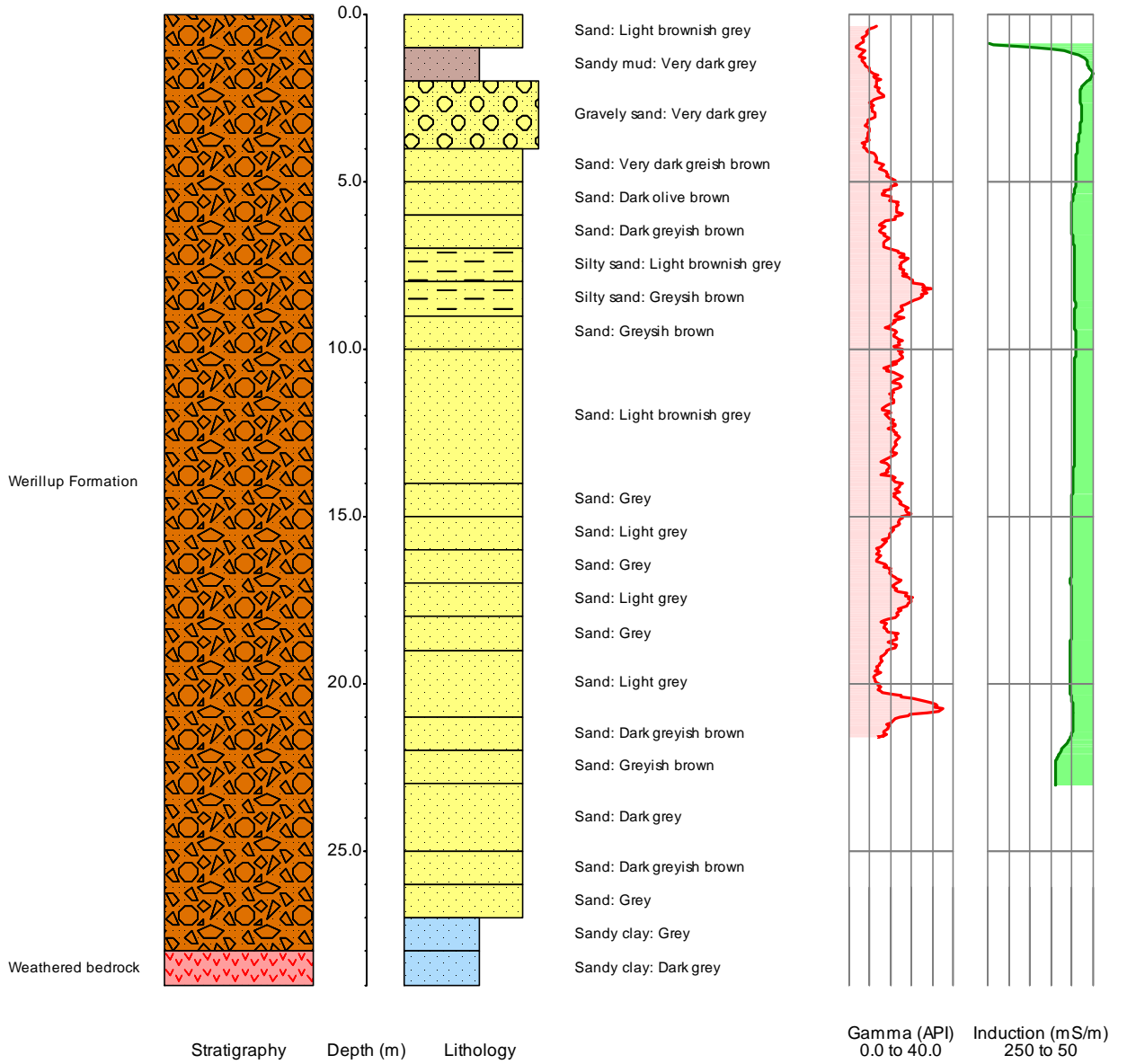
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	28.0	Eocene	Werillup Formation
28.0	29.0	Proterozoic	Weathered bedrock



MU56D



BORE SITE MU56S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	UC09
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	468369.356 mE
NORTHING:	6194949.665 mN
ELEVATION:	179.37 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	AgWA
RIG:	Not known
METHOD:	RAB
DRILLED:	27/04/1994
DIAMETER:	122 mm
TOTAL DEPTH:	8 m BGL
TOP OF CASING:	0.81 m AGL
SCREENED INTERVAL:	From 6 m to 8 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2007
STANDING WATER LEVEL:	2.52 m BGL
TDS:	605 mg/L
ELECTRICAL CONDUCTIVITY:	1.05 mS/cm (uncompensated)
TEMPERATURE:	19.7 degree C
pH:	3.54

BORE SITE MU57D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	466534.76 mE
NORTHING:	6190199.46 mN
ELEVATION:	175.27 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	16 m BGL
TOP OF CASING:	0.535 m AGL
SCREENED INTERVAL:	From 14 m to 16 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	15/03/2007
STANDING WATER LEVEL:	4.09 m BGL
TDS:	7870 mg/L
ELECTRICAL CONDUCTIVITY:	11.52 mS/cm (uncompensated)
TEMPERATURE:	16.8 degree C
pH:	6.56

GEOLOGICAL DATA

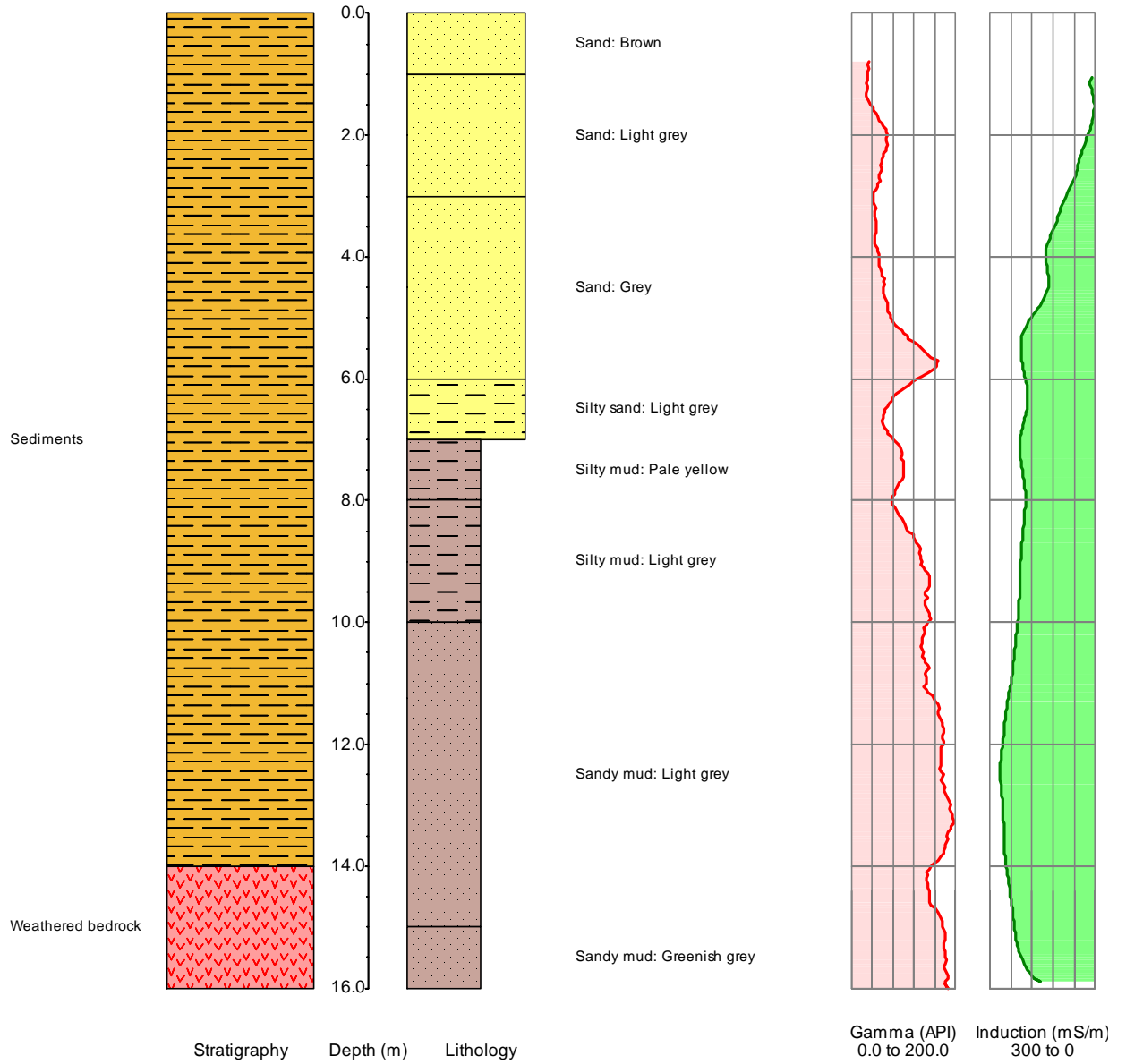
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	14.0	Quaternary	Sediments
14.0	16.0	Proterozoic	Weathered bedrock



MU57D



BORE SITE MU57S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	466534.998 mE
NORTHING:	6190198.284 mN
ELEVATION:	175.20 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	20/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	7.3 m BGL
TOP OF CASING:	0.61 m AGL
SCREENED INTERVAL:	From 5.3 m to 7.3 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	1/03/2007
STANDING WATER LEVEL:	3.9 m BGL
TDS:	5435 mg/L
ELECTRICAL CONDUCTIVITY:	7.88 mS/cm (uncompensated)
TEMPERATURE:	15.8 degree C
pH:	6.15

BORE SITE MU58D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474566.98 mE
NORTHING:	6188153.11 mN
ELEVATION:	175.66 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	14 m BGL
TOP OF CASING:	0.54 m AGL
SCREENED INTERVAL:	From 12 m to 14 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	30/11/2006
STANDING WATER LEVEL:	1.83 m BGL
TDS:	25732 mg/L
ELECTRICAL CONDUCTIVITY:	33.6 mS/cm (uncompensated)
TEMPERATURE:	19.9 degree C
pH:	6.26

GEOLOGICAL DATA

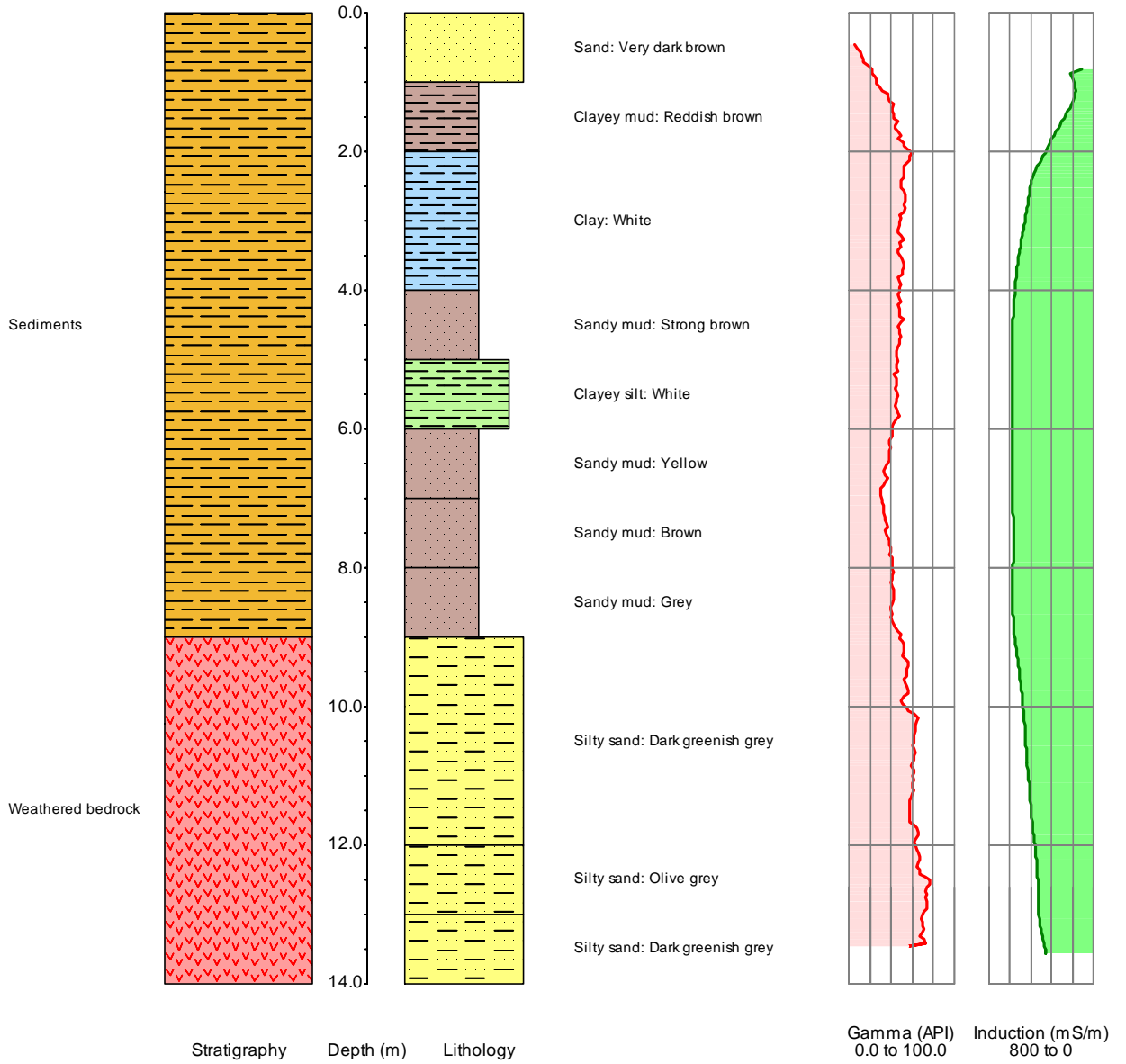
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	9.0	Quaternary	Sediments
9.0	14.0	Proterozoic	Weathered bedrock



MU58D



BORE SITE MU58S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474567.357 mE
NORTHING:	6188153.745 mN
ELEVATION:	175.64 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	19/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	3 m BGL
TOP OF CASING:	0.6 m AGL
SCREENED INTERVAL:	From 1 m to 3 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	30/11/2006
STANDING WATER LEVEL:	1.43 m BGL
TDS:	24091 mg/L
ELECTRICAL CONDUCTIVITY:	33.4 mS/cm (uncompensated)
TEMPERATURE:	22.3 degree C
pH:	6.27

BORE SITE MU59D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	473848.67 mE
NORTHING:	6187090.56 mN
ELEVATION:	175.11 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	16/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	58 m BGL
TOP OF CASING:	0.61 m AGL
SCREENED INTERVAL:	From 39 m to 42 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	30/11/2006
STANDING WATER LEVEL:	1.32 m BGL
TDS:	68447 mg/L
ELECTRICAL CONDUCTIVITY:	78.3 mS/cm (uncompensated)
TEMPERATURE:	17.4 degree C
pH:	5.66

GEOLOGICAL DATA

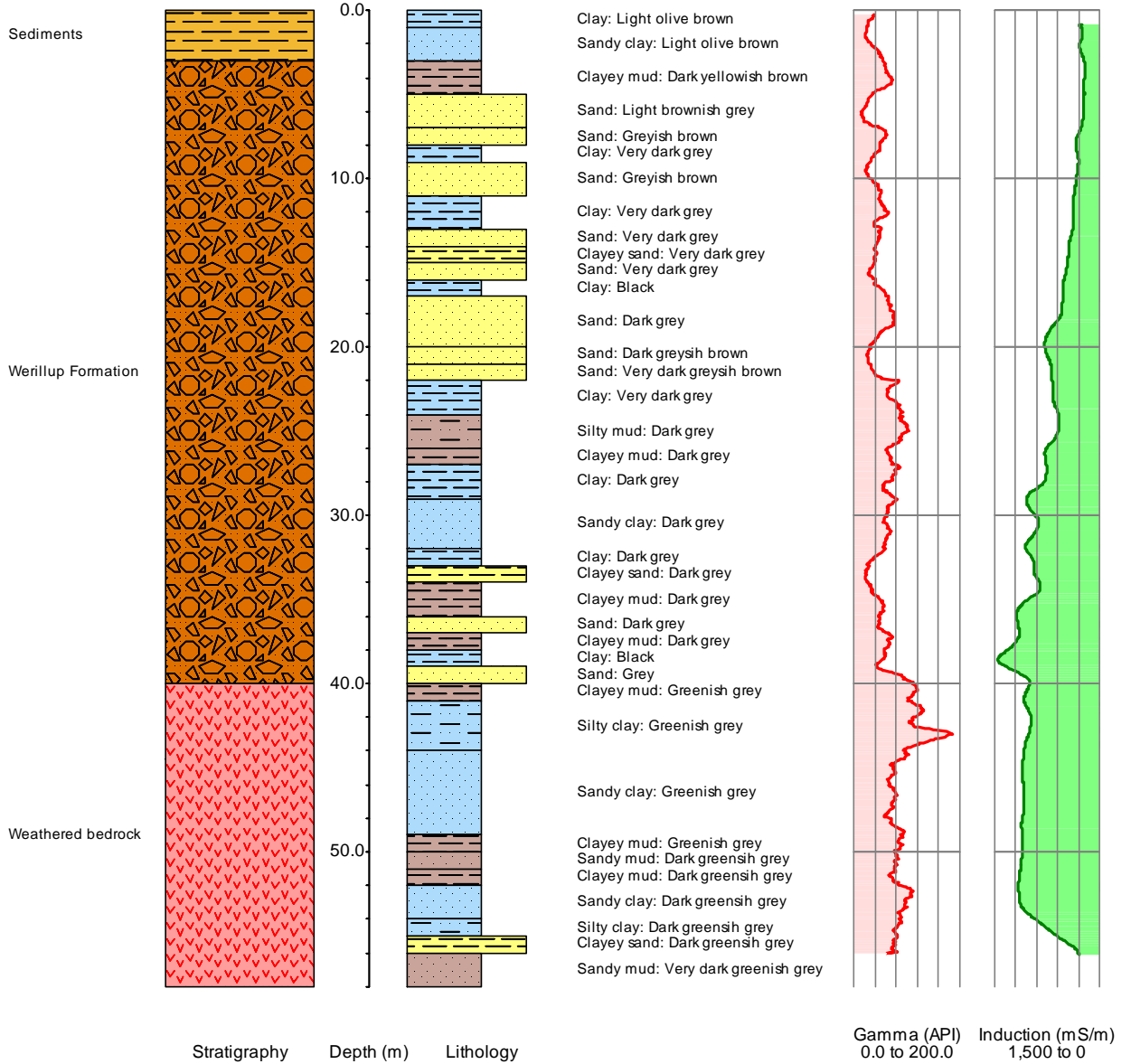
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	8.0	Quaternary	Sediments
8.0	40.0	Eocene	Werillup Formation
40.0	58.0	Proterozoic	Weathered bedrock



MU59D



BORE SITE MU59I

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	473849.16 mE
NORTHING:	6187091.868 mN
ELEVATION:	175.11 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	16/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	22.5 m BGL
TOP OF CASING:	0.63 m AGL
SCREENED INTERVAL:	From 19.5 m to 22.5 m BLG
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture

GRAVEL PACK AND SEAL

GRAVEL PACK:	12/20 grade
SEAL:	Grout

HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter
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HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	30/11/2006
STANDING WATER LEVEL:	0.7 m BGL
TDS:	29702 mg/L
ELECTRICAL CONDUCTIVITY:	36.6 mS/cm (uncompensated)
TEMPERATURE:	18 degree C
pH:	5.79

BORE SITE MU59S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	473849.747 mE
NORTHING:	6187093.328 mN
ELEVATION:	175.14 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	16/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	7.2 m BGL
TOP OF CASING:	0.61 m AGL
SCREENED INTERVAL:	From 4.2 m to 7.2 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	30/11/2006
STANDING WATER LEVEL:	0.8 m BGL
TDS:	10221 mg/L
ELECTRICAL CONDUCTIVITY:	14.44 mS/cm (uncompensated)
TEMPERATURE:	15.8 degree C
pH:	6.06

BORE SITE MU60D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	473704.14 mE
NORTHING:	6186442.81 mN
ELEVATION:	174.85 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	15/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	16 m BGL
TOP OF CASING:	0.71 m AGL
SCREENED INTERVAL:	From 13 m to 16 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	5/12/2006
STANDING WATER LEVEL:	0.85 m BGL
TDS:	28883 mg/L
ELECTRICAL CONDUCTIVITY:	39.2 mS/cm (uncompensated)
TEMPERATURE:	22.3 degree C
pH:	6.31

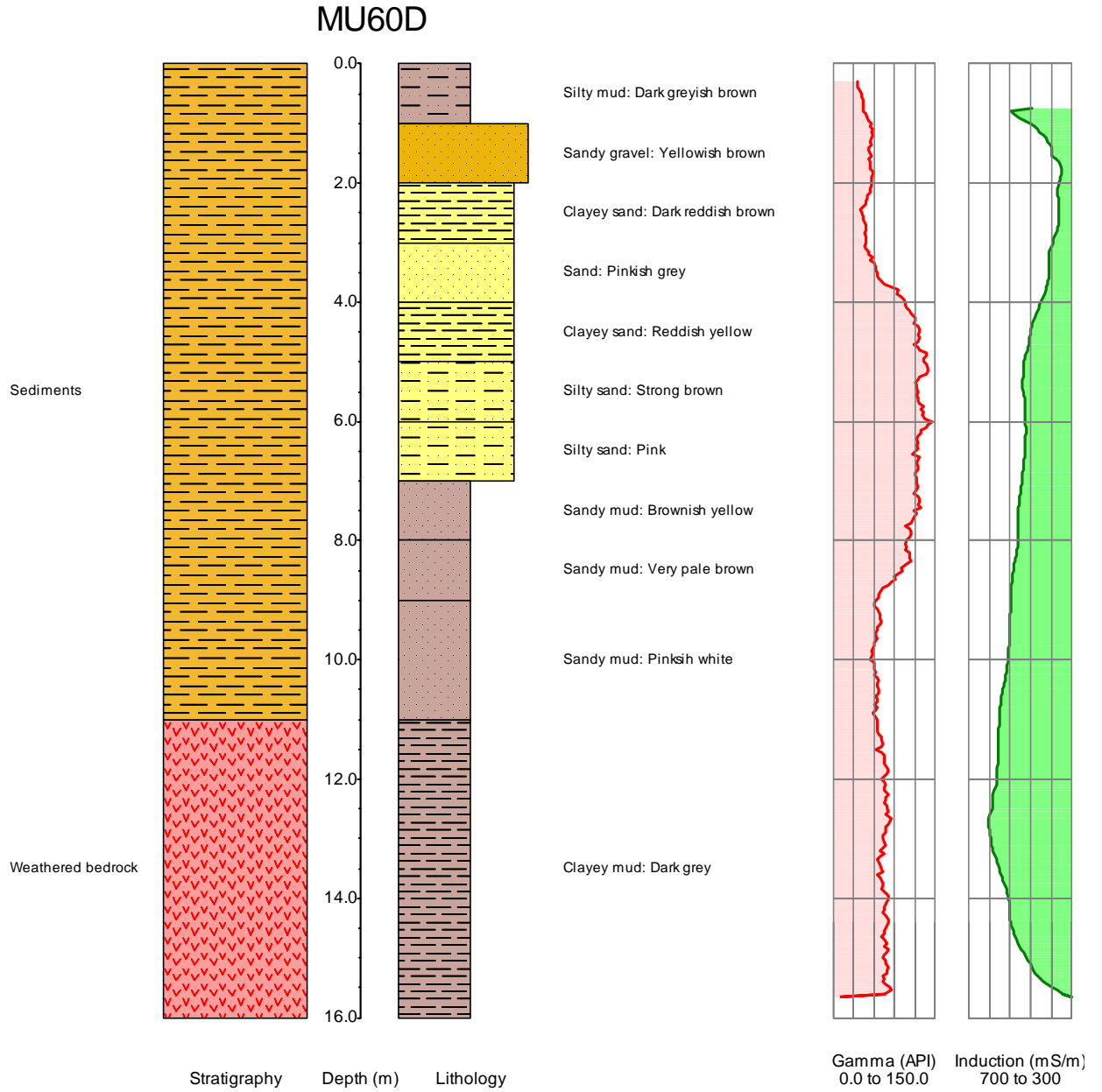
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	11.0	Quaternary	Sediments
11.0	16.0	Proterozoic	Weathered bedrock





BORE SITE MU60S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	473705.578 mE
NORTHING:	6186442.782 mN
ELEVATION:	174.85 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	15/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	6 m BGL
TOP OF CASING:	0.63 m AGL
SCREENED INTERVAL:	From 3 m to 6 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	5/12/2006
STANDING WATER LEVEL:	0.82 m BGL
TDS:	25991 mg/L
ELECTRICAL CONDUCTIVITY:	35.7 mS/cm (uncompensated)
TEMPERATURE:	22.3 degree C
pH:	6.05

BORE SITE MU61D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476364.3 mE
NORTHING:	6186328.6 mN
ELEVATION:	175.31 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	22/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	54 m BGL
TOP OF CASING:	0.56 m AGL
SCREENED INTERVAL:	From 47.8 m to 53.8 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	6/12/2006
STANDING WATER LEVEL:	0.35 m BGL
TDS:	40664 mg/L
ELECTRICAL CONDUCTIVITY:	51.2 mS/cm (uncompensated)
TEMPERATURE:	20.3 degree C
pH:	6.17

GEOLOGICAL DATA

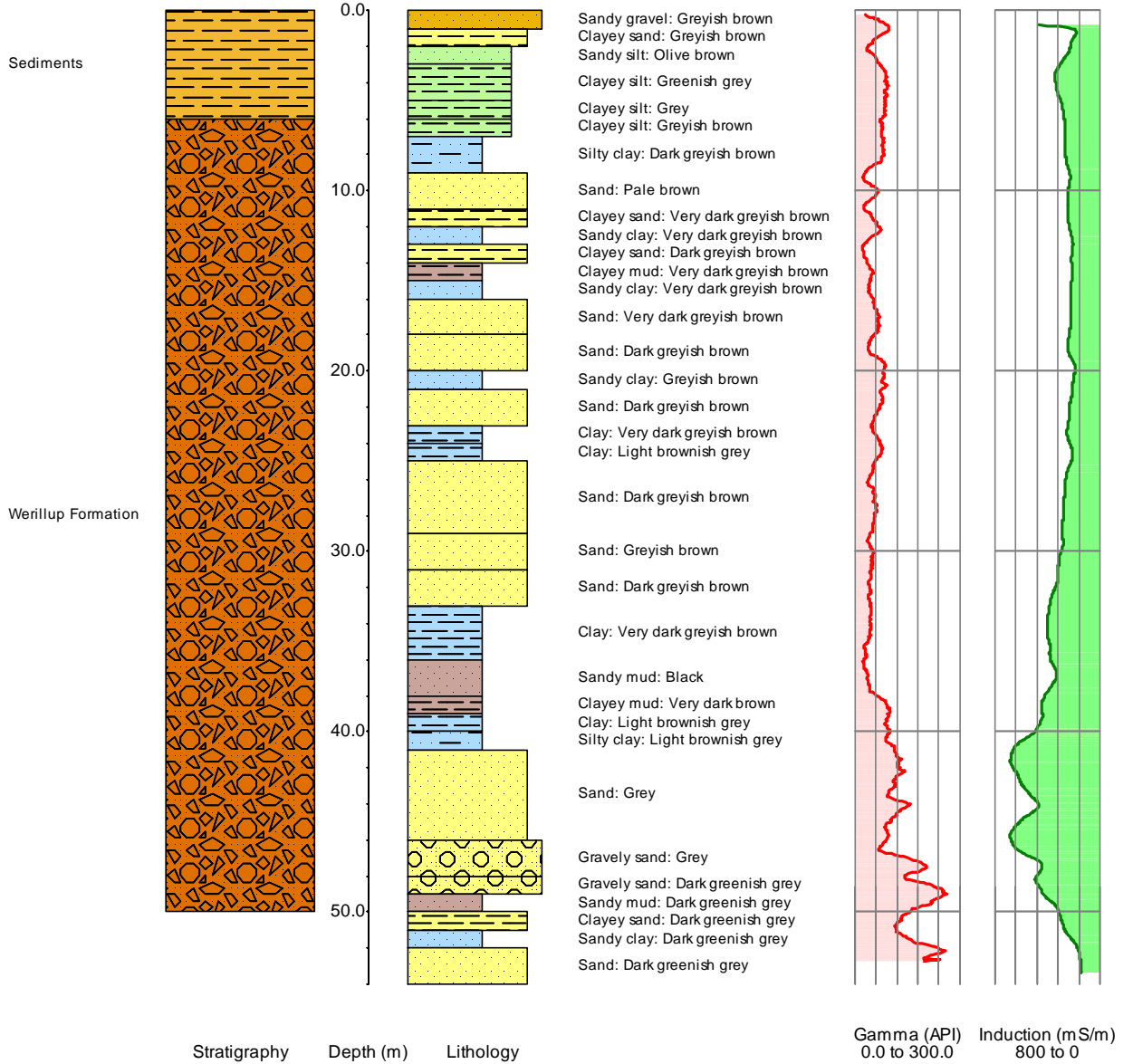
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray.
 Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	6.0	Quaternary	Sediments
6.0	50.0	Eocene	Werillup Formation
50.0	54.0	Proterozoic	Weathered bedrock



MU61D



BORE SITE MU611

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476365.53 mE
NORTHING:	6186329.73 mN
ELEVATION:	175.35 m AHD
PURPOSE:	Exploration
Status:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	22/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	33 m BGL
TOP OF CASING:	0.46 m AGL
SCREENED INTERVAL:	From 26 m to 32 m BLG
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	6/12/2006
STANDING WATER LEVEL:	-0.41 m BGL
TDS:	7841 mg/L
ELECTRICAL CONDUCTIVITY:	12.93 mS/cm (uncompensated)
TEMPERATURE:	22.3 degree C
pH:	6.09

BORE SITE MU61S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476366.2 mE
NORTHING:	6186330.45 mN
ELEVATION:	175.3 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	22/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	12 m BGL
TOP OF CASING:	0.47 m AGL
SCREENED INTERVAL:	From 9 m to 12 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	6/12/2006
STANDING WATER LEVEL:	0.15 m BGL
TDS:	6167 mg/L
ELECTRICAL CONDUCTIVITY:	10.24 mS/cm (uncompensated)
TEMPERATURE:	22.3 degree C
pH:	6.02

BORE SITE MU62D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476911.46 mE
NORTHING:	6199146.13 mN
ELEVATION:	203.79 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	20/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	66 m BGL
TOP OF CASING:	0.615 m AGL
SCREENED INTERVAL:	From 43 m to 45 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	22/03/2007
STANDING WATER LEVEL:	3.63 m BGL
TDS:	6458 mg/L
ELECTRICAL CONDUCTIVITY:	9.9 mS/cm (uncompensated)
TEMPERATURE:	18.7 degree C
pH:	6.0

GEOLOGICAL DATA

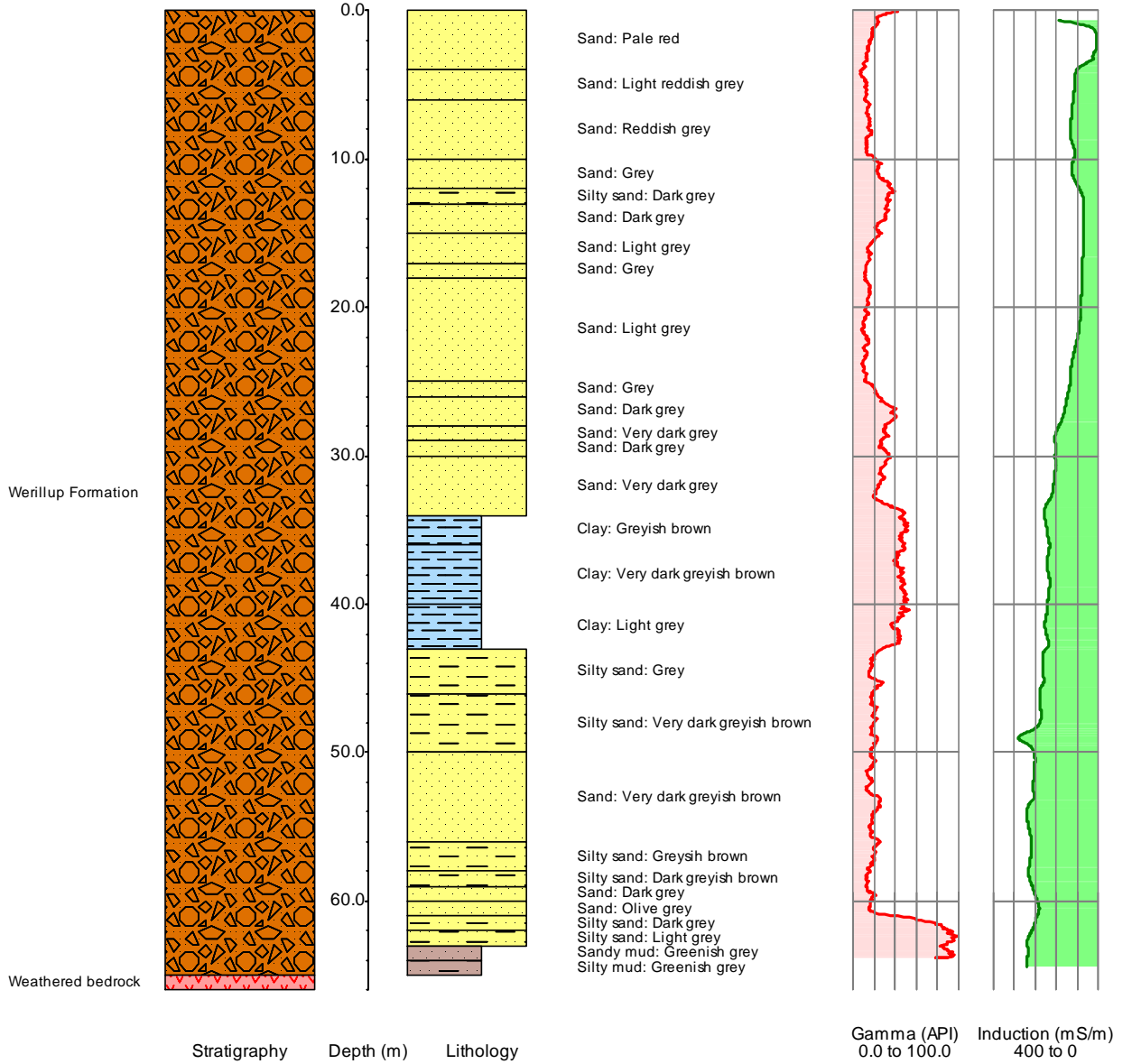
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	64.0	Eocene	Werillup Formation
64.0	66.0	Proterozoic	Weathered bedrock



MU62D



BORE SITE MU62I

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476911.792 mE
NORTHING:	6199147.071 mN
ELEVATION:	203.74 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	22/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	33 m BGL
TOP OF CASING:	0.615 m AGL
SCREENED INTERVAL:	From 31 m to 33 m BLG
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	28/02/2007
STANDING WATER LEVEL:	3.27 m BGL
TDS:	3940 mg/L
ELECTRICAL CONDUCTIVITY:	5.79 mS/cm (uncompensated)
TEMPERATURE:	15.8 degree C
pH:	4.96

BORE SITE MU62S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476911.832 mE
NORTHING:	6199148.468 mN
ELEVATION:	203.73 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	22/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	6 m BGL
TOP OF CASING:	0.568 m AGL
SCREENED INTERVAL:	From 4 m to 6 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	28/02/2007
STANDING WATER LEVEL:	3.01 m BGL
TDS:	2290 mg/L
ELECTRICAL CONDUCTIVITY:	3.87 mS/cm (uncompensated)
TEMPERATURE:	20.7 degree C
pH:	5.54

BORE SITE MU63D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474579.65 mE
NORTHING:	6197241.49 mN
ELEVATION:	201.12 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	29/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	68.5 m BGL
TOP OF CASING:	0.59 m AGL
SCREENED INTERVAL:	From 52 m to 54 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	7/12/2006
STANDING WATER LEVEL:	4.06 m BGL
TDS:	5848 mg/L
ELECTRICAL CONDUCTIVITY:	8.80 mS/cm (uncompensated)
TEMPERATURE:	17.7 degree C
pH:	5.70

GEOLOGICAL DATA

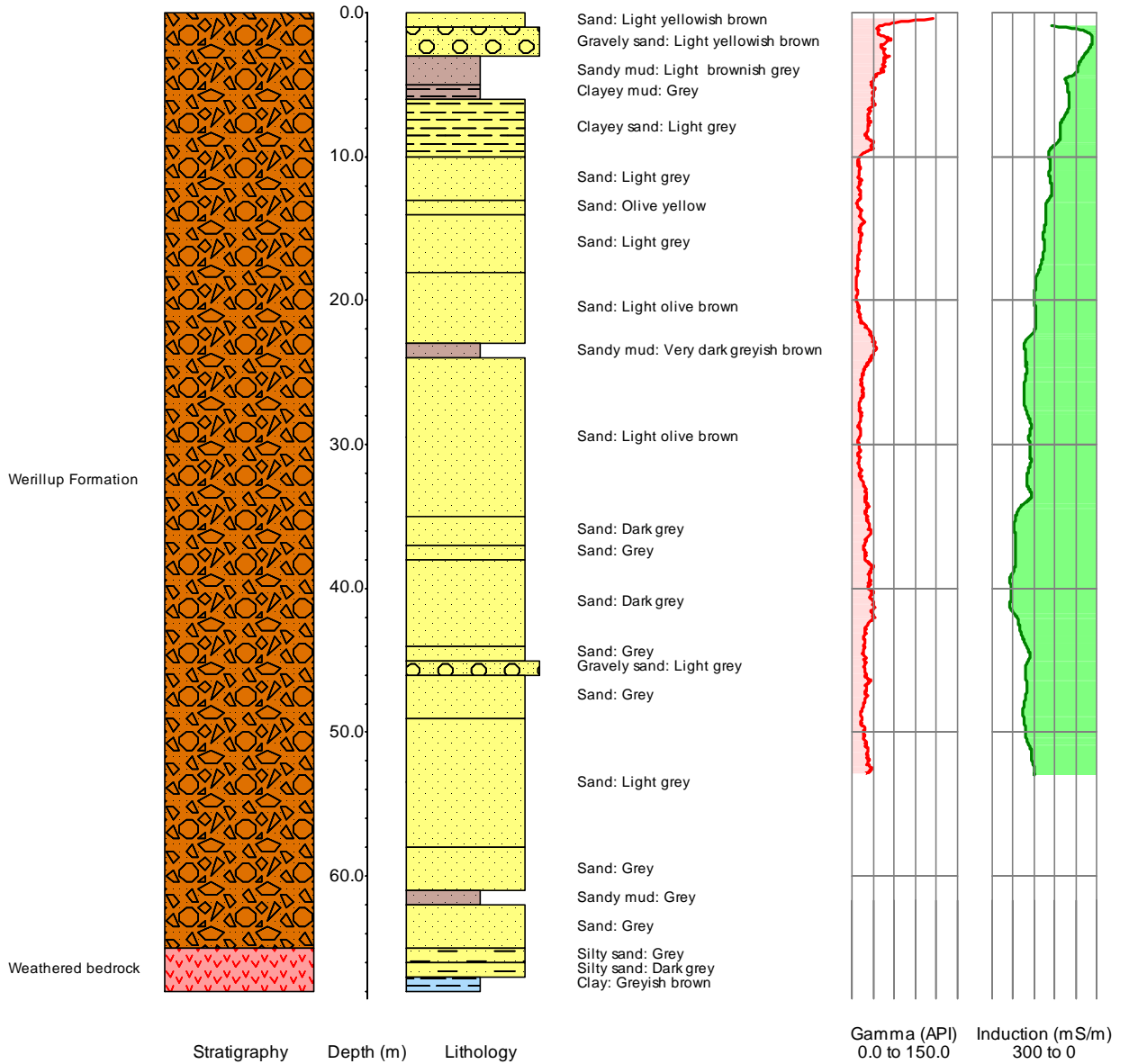
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	65.0	Eocene	Werillup Formation
65.0	68.5	Proterozoic	Weathered bedrock



MU63D



BORE SITE MU63S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474579.177 mE
NORTHING:	6197242.542 mN
ELEVATION:	201.12 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	3/05/2005
DIAMETER:	122 mm
TOTAL DEPTH:	6 m BGL
TOP OF CASING:	0.59 m AGL
SCREENED INTERVAL:	From 4 m to 6 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	6/12/2006
STANDING WATER LEVEL:	3.15 m BGL
TDS:	2485 mg/L
ELECTRICAL CONDUCTIVITY:	3.78 mS/cm (uncompensated)
TEMPERATURE:	16.1 degree C
pH:	4.46

BORE SITE MU64D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	475217.87 mE
NORTHING:	6197023.67 mN
ELEVATION:	204.84 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	26/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	69 m BGL
TOP OF CASING:	0.62 m AGL
SCREENED INTERVAL:	From 46.5 m to 48.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

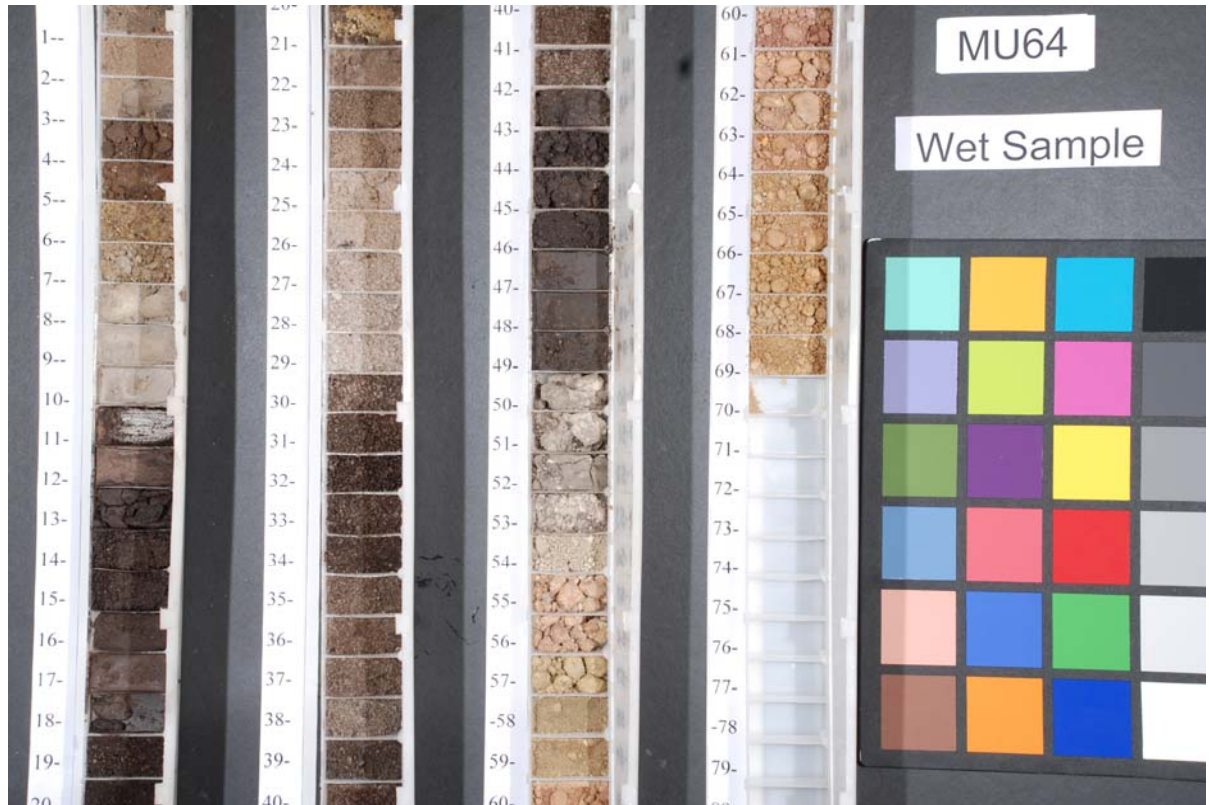
DATE:	22/03/2007
STANDING WATER LEVEL:	5.03 m BGL
TDS:	5284 mg/L
ELECTRICAL CONDUCTIVITY:	8.3 mS/cm (uncompensated)
TEMPERATURE:	19.5 degree C
pH:	5.65

GEOLOGICAL DATA

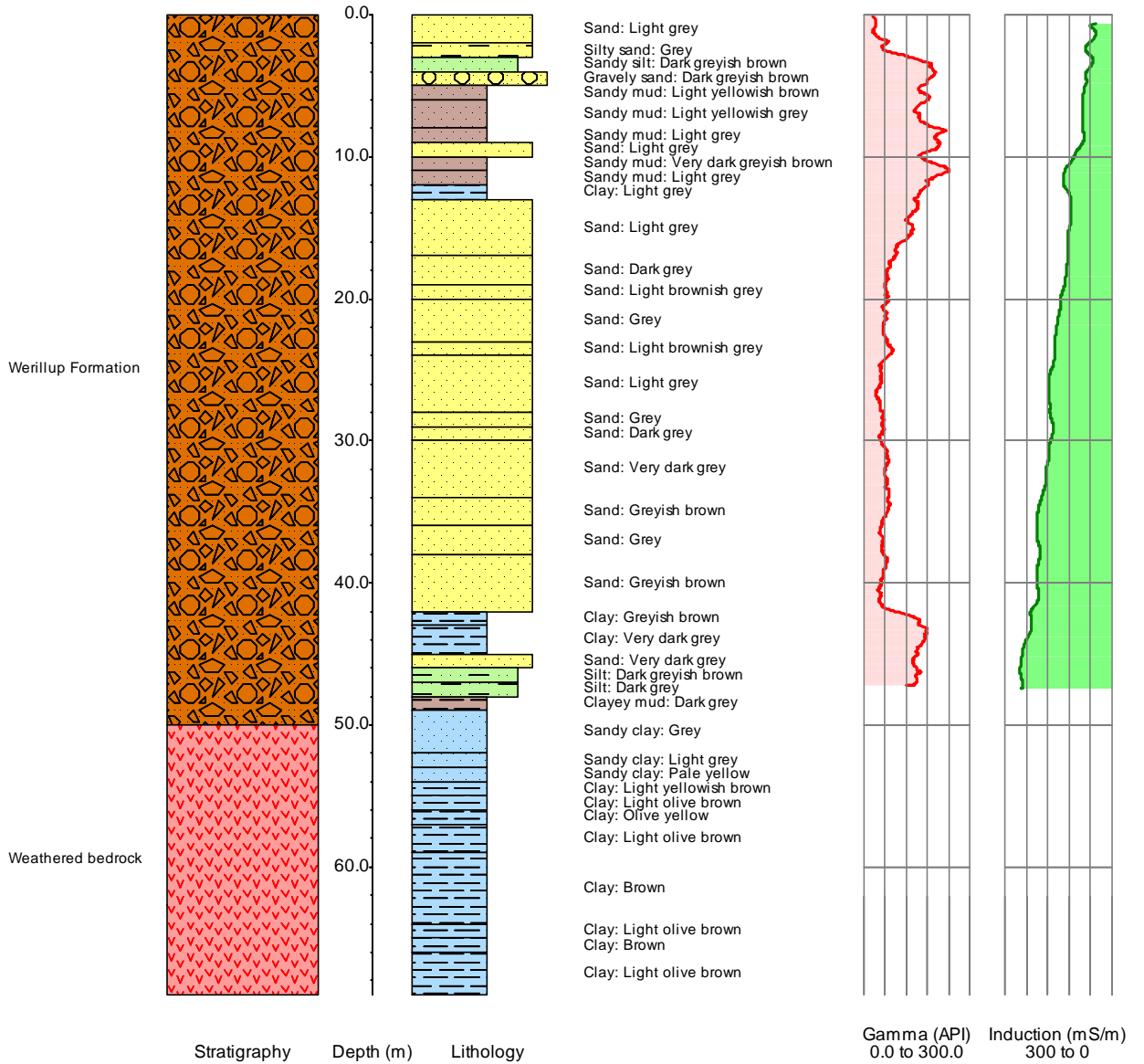
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	49.0	Eocene	Werillup Formation
49.0	69.0	Proterozoic	Weathered bedrock



MU64D



BORE SITE MU64I

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES:	
DATUM:	Zone 50 MGA
EASTING:	475217.208 mE
NORTHING:	6197024.193 mN
ELEVATION:	204.806 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	28/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	33 m BGL
TOP OF CASING:	0.66 m AGL
SCREENED INTERVAL:	From 31 m to 33 m BLG
CASING	
PLAIN	NB Class 9 PVC, 50 mm internal diameter
SLOTTED	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 m diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	27/02/2007
STANDING water level:	4.93 m BGL
TDS:	4174 mg/L
ELECTRICAL CONDUCTIVITY:	6.52 mS/cm (uncompensated)
TEMPERATURE:	18.8 degree C
pH:	5.67

BORE SITE MU64S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	475216.465 mE
NORTHING:	6197024.811 mN
ELEVATION:	204.87 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	28/04/2005
DIAMETER:	122 mm
TOTAL DEPTH:	4 m BGL
TOP OF CASING:	0.68 m AGL
SCREENED INTERVAL:	From 2 m to 4 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	27/02/2007
STANDING WATER LEVEL:	2.35 m BGL
TDS:	1783 mg/L
ELECTRICAL CONDUCTIVITY:	3.11 mS/cm (uncompensated)
TEMPERATURE:	21.1 degree C
pH:	3.15

BORE SITE MU65D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476735.21 mE
NORTHING:	6189154.51 mN
ELEVATION:	184.59 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	4/05/2005
DIAMETER:	122 mm
TOTAL DEPTH:	39 m BGL
TOP OF CASING:	0.63 m AGL
SCREENED INTERVAL:	From 37 m to 39 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

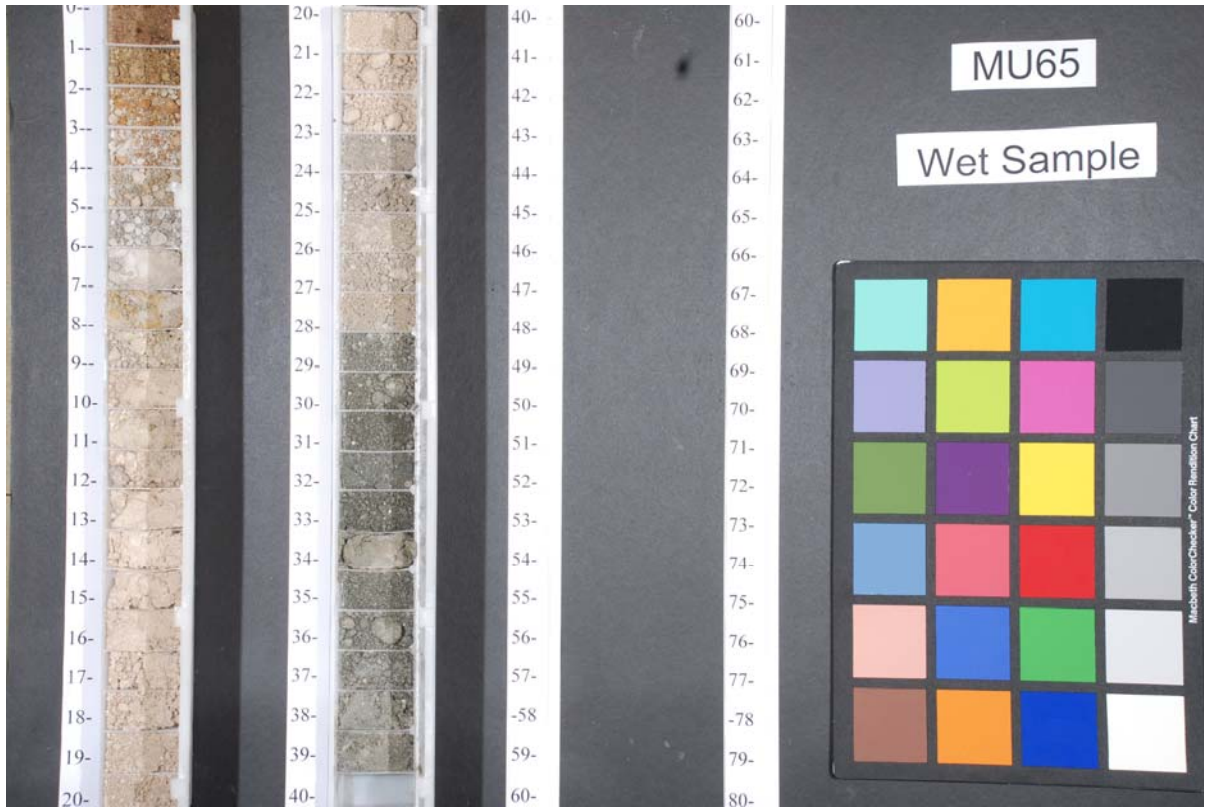
DATE:	13/03/2007
STANDING WATER LEVEL:	2.51 m BGL
TDS:	2938 mg/L
ELECTRICAL CONDUCTIVITY:	4.72 mS/cm (uncompensated)
TEMPERATURE:	19.2 degree C
pH:	5.86

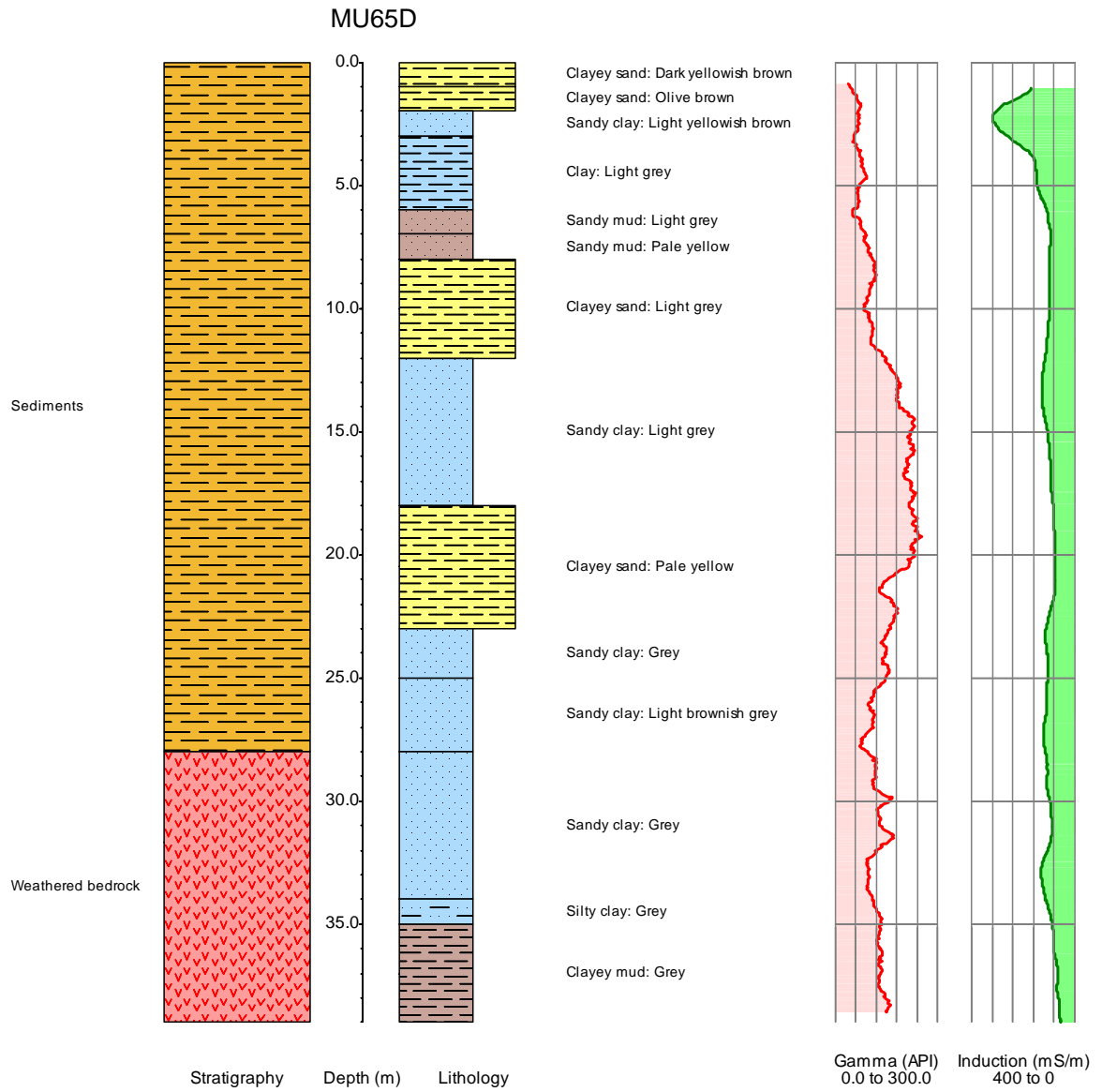
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	28.0		Sediment
28.0	39.0	Proterozoic	Weathered bedrock





BORE SITE MU65S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	476734.824 mE
NORTHING:	6189155.281 mN
ELEVATION:	184.55 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	5/05/2005
DIAMETER:	122 mm
TOTAL DEPTH:	6 m BGL
TOP OF CASING:	0.65 m AGL
SCREENED INTERVAL:	From 4 m to 6 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	12/03/2007
STANDING WATER LEVEL:	2.83 m BGL
TDS:	1938 mg/L
ELECTRICAL CONDUCTIVITY:	3.21 mS/cm (uncompensated)
TEMPERATURE:	19.1 degree C
pH:	5.5

BORE SITE MU66D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	473833.64 mE
NORTHING:	6206759.08 mN
ELEVATION:	203.47 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	7/03/2006
DIAMETER:	122 mm
TOTAL DEPTH:	60 m BGL
TOP OF CASING:	0.53 m AGL
SCREENED INTERVAL:	From 53 m to 59 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	29/03/2007
STANDING WATER LEVEL:	2.6 m BGL
TDS:	3468 mg/L
ELECTRICAL CONDUCTIVITY:	5.59 mS/cm (uncompensated)
TEMPERATURE:	19.8 degree C
pH:	6.21

GEOLOGICAL DATA

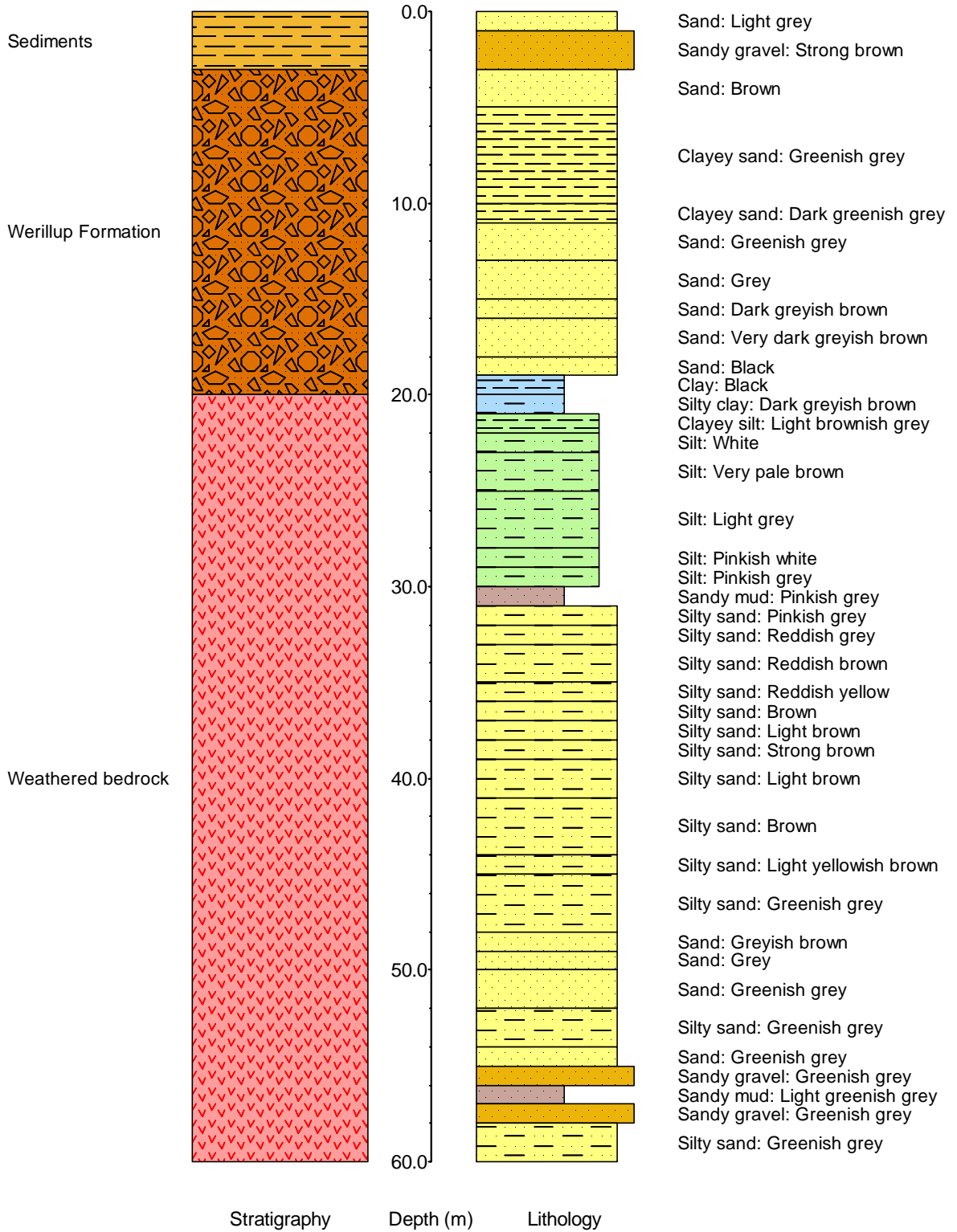
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	3.0	Quaternary	Sediments
3.0	20.0	Eocene	Werillup Formation
20.0	60.0	Proterozoic	Weathered bedrock



MU66D



BORE SITE MU66S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	473834.718 mE
NORTHING:	6206759.046 mN
ELEVATION:	203.47 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	7/03/2006
DIAMETER:	122 mm
TOTAL DEPTH:	15 m BGL
TOP OF CASING:	0.565 m AGL
SCREENED INTERVAL:	From 7 m to 13 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	29/03/2007
STANDING WATER LEVEL:	2.63 m BGL
TDS:	4286 mg/L
ELECTRICAL CONDUCTIVITY:	6.76 mS/cm (uncompensated)
TEMPERATURE:	19.3 degree C
pH:	5.97

BORE SITE MU67D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	482389.19 mE
NORTHING:	6186599.41 mN
ELEVATION:	187.74 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	23/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	54 m BGL
TOP OF CASING:	0.575 m AGL
SCREENED INTERVAL:	From 48 m to 54 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	21/03/2007
STANDING WATER LEVEL:	2.27 m BGL
TDS:	3870 mg/L
ELECTRICAL CONDUCTIVITY:	7.16 mS/cm (uncompensated)
TEMPERATURE:	26.7 degree C
pH:	10.32

GEOLOGICAL DATA

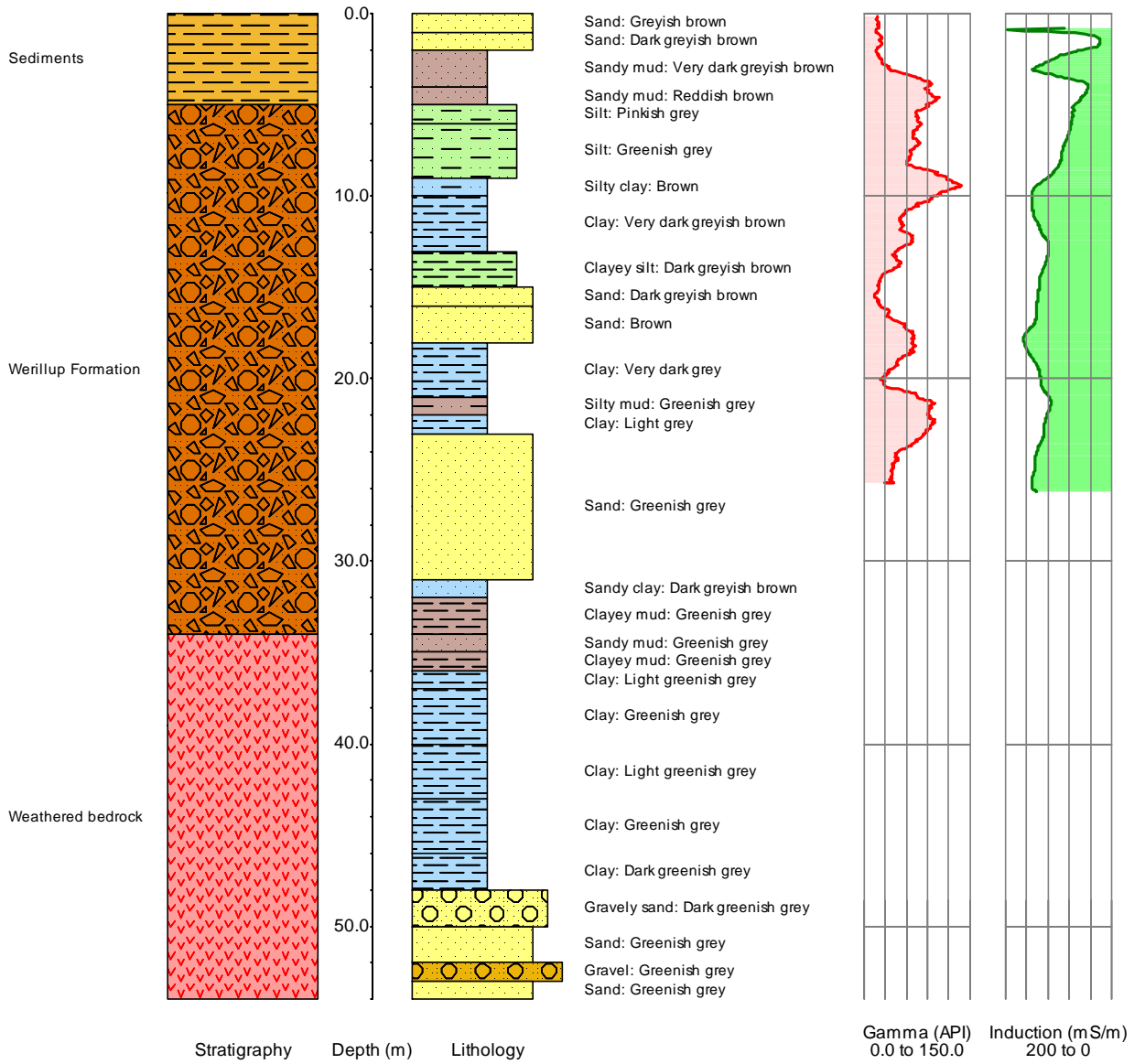
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray.
 Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	5.0	Quaternary	Sediments
5.0	33.0	Eocene	Werillup Formation
33.0	54.0	Proterozoic	Weathered bedrock



MU67D



BORE SITE MU671

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	482386.233 mE
NORTHING:	6186599.94 mN
ELEVATION:	187.727 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	23/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	33 m BGL
TOP OF CASING:	0.54 m AGL
SCREENED INTERVAL:	From 27 m to 33 m BLG
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	1/03/2007
STANDING WATER LEVEL:	2.22 m BGL
TDS:	4511 mg/L
ELECTRICAL CONDUCTIVITY:	6.96 mS/cm (uncompensated)
TEMPERATURE:	18.4 degree C
pH:	5.8

BORE SITE MU67S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	482384.829 mE
NORTHING:	6186600.238 mN
ELEVATION:	187.72 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	23/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	18 m BGL
TOP OF CASING:	0.54 m AGL
SCREENED INTERVAL:	From 15 m to 18 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	28/02/2007
STANDING WATER LEVEL:	2.13 m BGL
TDS:	3217 mg/L
ELECTRICAL CONDUCTIVITY:	4.87 mS/cm (uncompensated)
TEMPERATURE:	16.7 degree C
pH:	5.76

BORE SITE MU68D

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	481514.86 mE
NORTHING:	6184585.54 mN
ELEVATION:	181.86 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	2/03/2006
DIAMETER:	122 mm
TOTAL DEPTH:	43.0 m BGL
TOP OF CASING:	0.64 m AGL
SCREENED INTERVAL:	From 35.5 m to 41.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	21/03/2007
STANDING WATER LEVEL:	3.66 m BGL
TDS:	3696 mg/L
ELECTRICAL CONDUCTIVITY:	6.66 mS/cm (uncompensated)
TEMPERATURE:	25.3 degree C
pH:	5.5

GEOLOGICAL DATA

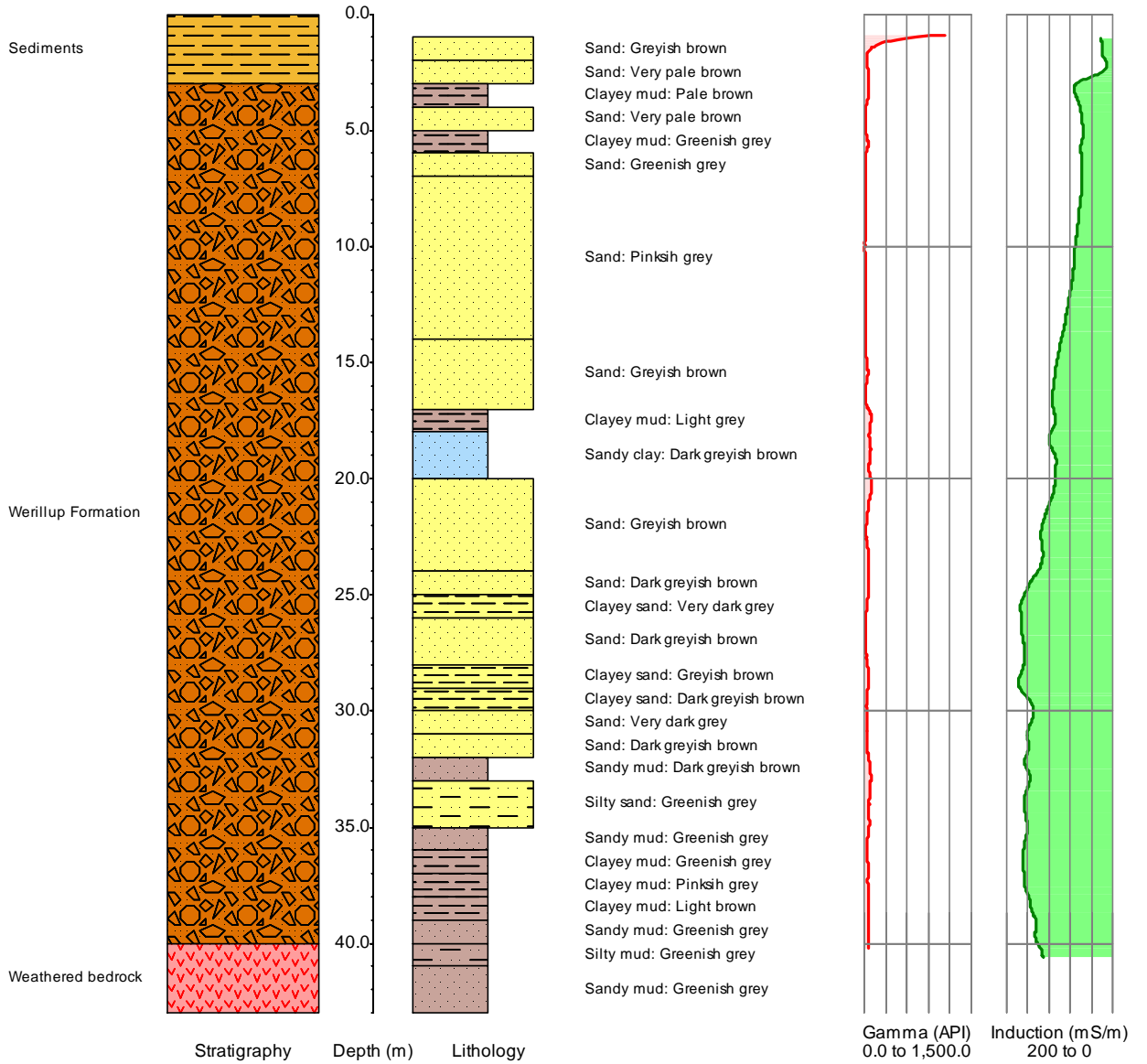
SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	3.0	Quaternary	Sediments
3.0	40.0	Eocene	Werillup Formation
40.0	43.0	Proterozoic	Weathered bedrock



MU68D



BORE SITE MU68S

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	481513.227 mE
NORTHING:	6184585.835 mN
ELEVATION:	181.87 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	2/03/2006
DIAMETER:	122 mm
TOTAL DEPTH:	18 m BGL
TOP OF CASING:	0.59 m AGL
SCREENED INTERVAL:	From 13 m to 18 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Sedimentary aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	21/03/2007
STANDING WATER LEVEL:	3.6 m BGL
TDS:	1634 mg/L
ELECTRICAL CONDUCTIVITY:	2.76 mS/cm (uncompensated)
TEMPERATURE:	19.2 degree C
pH:	5.58

BORE SITE MU69

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	481720.79 mE
NORTHING:	6182936.47 mN
ELEVATION:	183.53 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	28/02/2006
DIAMETER:	122 mm
TOTAL DEPTH:	27 m BGL
TOP OF CASING:	0.63 m AGL
SCREENED INTERVAL:	From 21 m to 27 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Surficial aquifer and fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	21/03/2007
STANDING WATER LEVEL:	6.53 m BGL
TDS:	27567 mg/L
ELECTRICAL CONDUCTIVITY:	34.1 mS/cm (uncompensated)
TEMPERATURE:	17.8 degree C
pH:	6.03

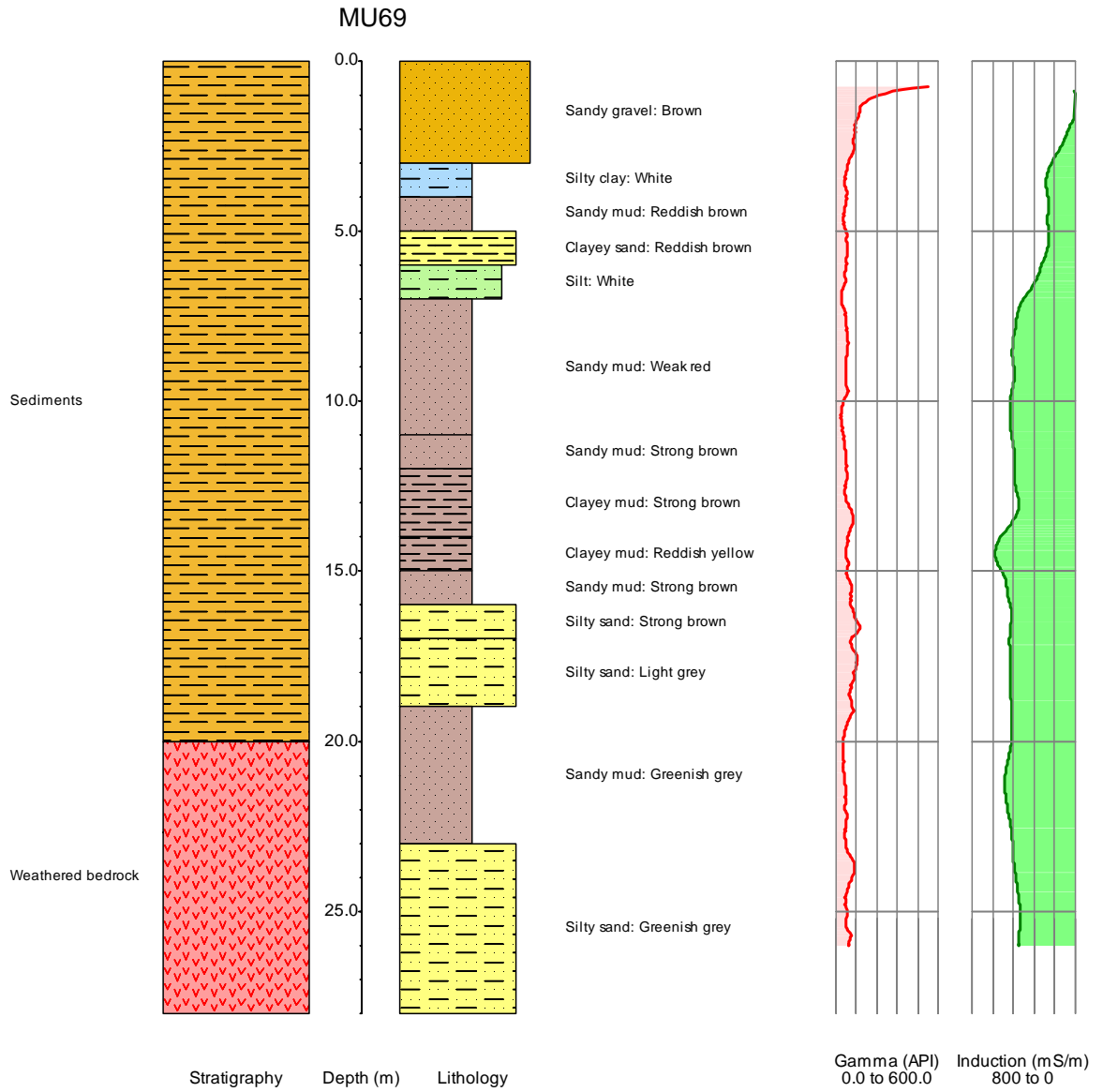
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	20.0	Quaternary	Sediments
20.0	27.0	Proterozoic	Weathered bedrock





BORE SITE MU70

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATE S DATUM	Zone 50 MGA
EASTING:	473933.08 mE
NORTHING:	6176282.77 mN
ELEVATION:	186.19 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	3/03/2006
DIAMETER:	122 mm
TOTAL DEPTH:	20.5 m BGL
TOP OF CASING:	0.85 m AGL
SCREENED INTERVAL:	From 14.5 m to 20.5 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	16/05/2007
STANDING WATER LEVEL:	6.01 m BGL
TDS:	7941 mg/L
ELECTRICAL CONDUCTIVITY:	11.62 mS/cm (uncompensated)
TEMPERATURE:	16.8 degree C
pH:	5.82

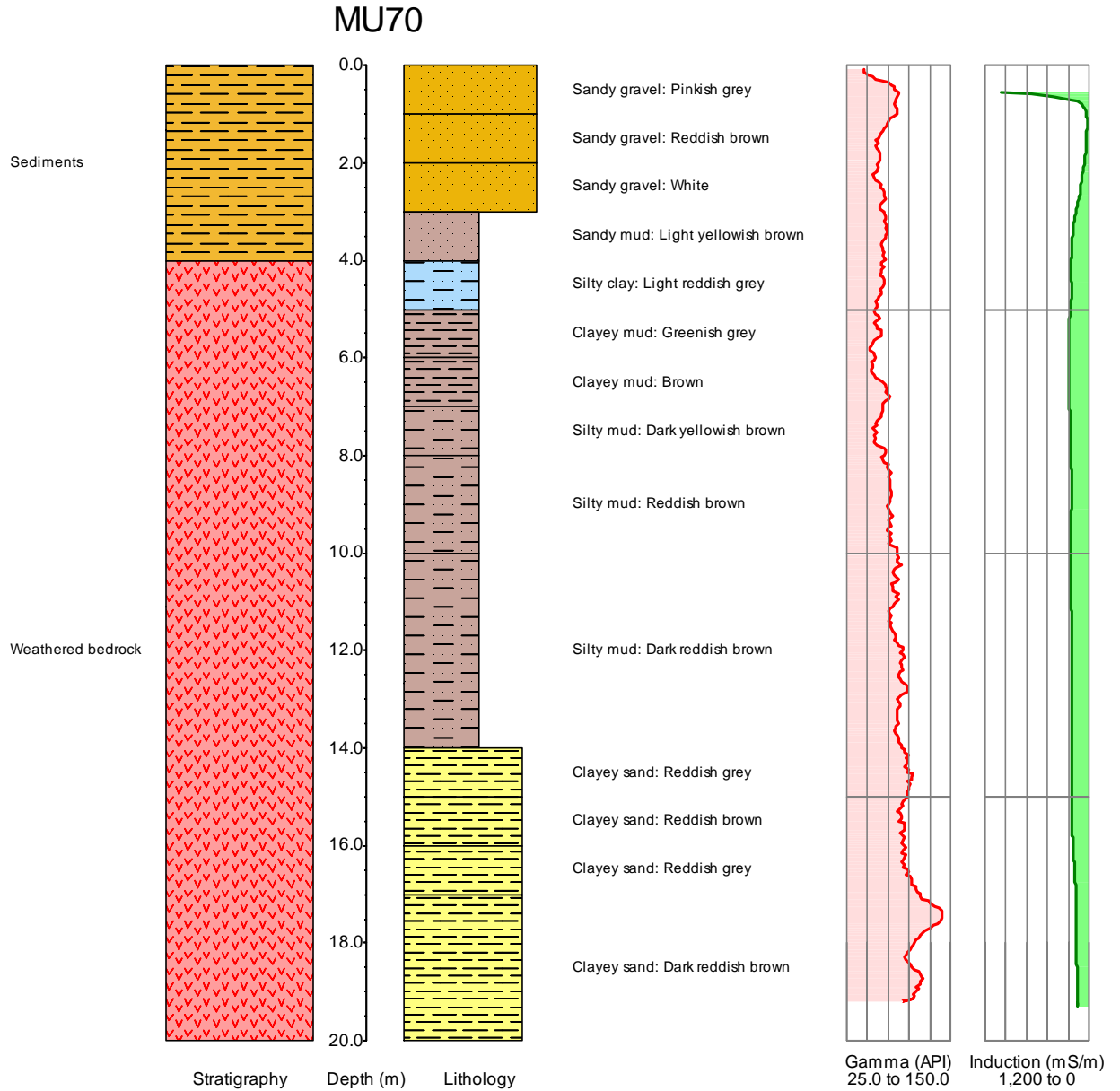
GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	4.0	Quaternary	Sediments
4.0	20.5	Proterozoic	Weathered bedrock





BORE SITE MU71

LOCATION AND IDENTIFICATION

OWNER:	Department of Environment and Conservation
PREVIOUS ID:	
MAP SHEET:	1:250 000 Pemberton SI 5010
COORDINATES	
DATUM:	Zone 50 MGA
EASTING:	474544.989 mE
NORTHING:	6182645.162 mN
ELEVATION:	177.65 m AHD
PURPOSE:	Exploration
STATUS:	Monitoring

CONSTRUCTION

DRILLED BY:	Great Southern
RIG:	Wirth Multipurpose
METHOD:	Air core
DRILLED:	8/03/2006
DIAMETER:	122 mm
TOTAL DEPTH:	14 m BGL
TOP OF CASING:	0.475 m AGL
SCREENED INTERVAL:	From 10.5 m to 13.3 m BGL
CASING	
PLAIN:	NB Class 9 PVC, 50 mm internal diameter
SLOTTED:	NB Class 9 PVC (slotted), 50 mm internal diameter, 0.4 mm aperture
GRAVEL PACK AND SEAL	
GRAVEL PACK:	12/20 grade
SEAL:	Grout
HEADWORKS:	Steel stand pipe, 0.6 m above ground level, with padlocked cap Concrete surface protection pad, 600 mm diameter

HYDROGEOLOGICAL DATA

AQUIFER: Fractured and-or weathered rock aquifer

FIELD MEASUREMENTS AFTER PUMPING

DATE:	17/05/2007
STANDING WATER LEVEL:	3.47 m BGL
TDS:	1997 mg/L
ELECTRICAL CONDUCTIVITY:	3.22 mS/cm (uncompensated)
TEMPERATURE:	18 degree C
pH:	6.5

GEOLOGICAL DATA

SAMPLES: Cuttings logged at 1.0 m intervals, sampled and stored in chip tray. Samples stored at Manjimup Office (DEC)

SUMMARY LOG:

<u>Depth from (m)</u>	<u>Depth to (m)</u>	<u>Age</u>	<u>Stratigraphy/structural unit</u>
0.0	5.0	Quaternary	Sediments
5.0	14.0	Proterozoic	Weathered bedrock



MU71

