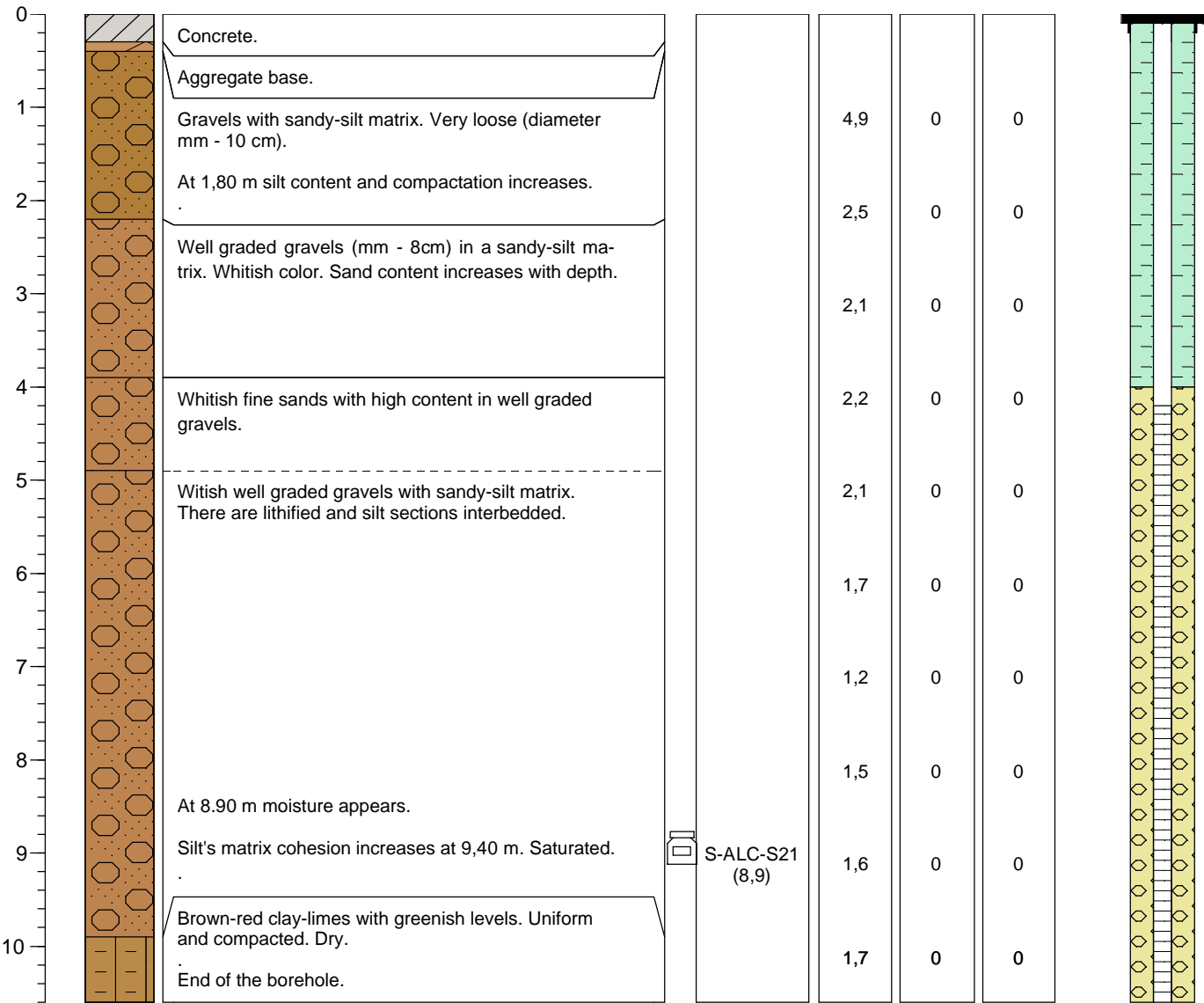


<h1 style="margin: 0;">BP</h1> <p>LOCATION: Alcañiz</p> <p>Project ID: 60465029-44193366</p>		<p>Drilling supervision</p> <hr/> <p>BOREHOLE LOG: S21</p>		<h1 style="margin: 0;">AECOM</h1>				
<p>Supervised by: CM</p> <p>Drilling company: Geointec</p> <p>Drilling method: RETC</p>		<p>Start date: 14/06/2017</p> <p>End date: 15/06/2017</p> <p>Water level: 10,6 m</p>		<p>Log fluid: -</p> <p>Drilling diameter: 101/89 mm</p> <p>Maximum depth: 10,6 m</p>				
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Color	Odor	Water level (m)	Well construction details



NOTES:

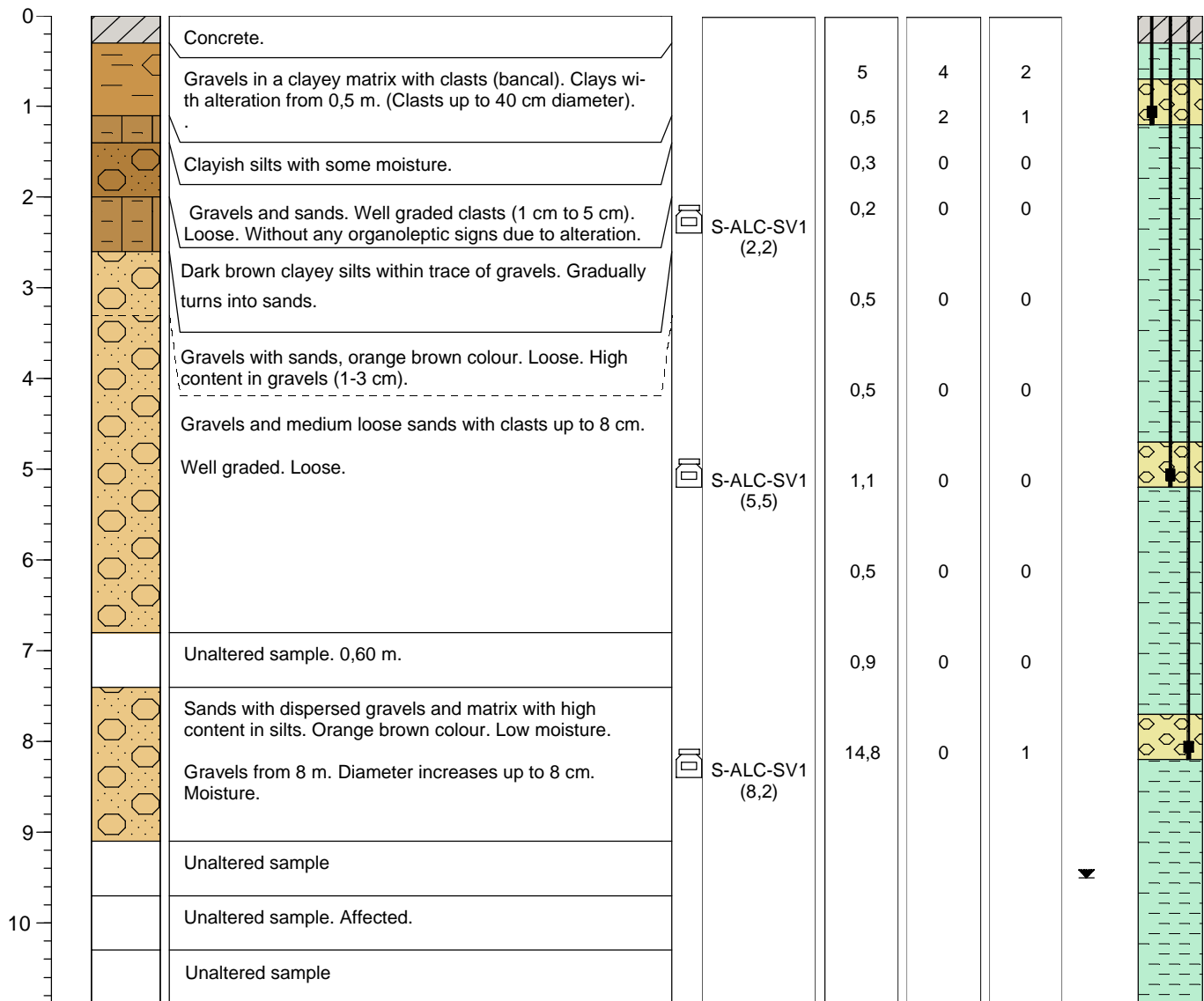
Trial pit is opened (area with pavement, aggregate base and natural soil).
Hand-augering: hard gravel, no advance.
At 4 m depth, protective casing.

Color-odor legend:

- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

Signature:

BP		Drilling supervision		AECOM				
LOCATION: Alcañiz		BOREHOLE LOG: SV1						
Project ID: 60465029-44193366								
Supervised by: CM		Start date: 08/06/2017		Log fluid: -				
Drilling company: Geointec		End date: 13/06/2017		Drilling diameter: 101 mm				
Drilling method: RETC		Water level: 9,5 m		Maximum depth: 10,9 m				
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details




NOTES:

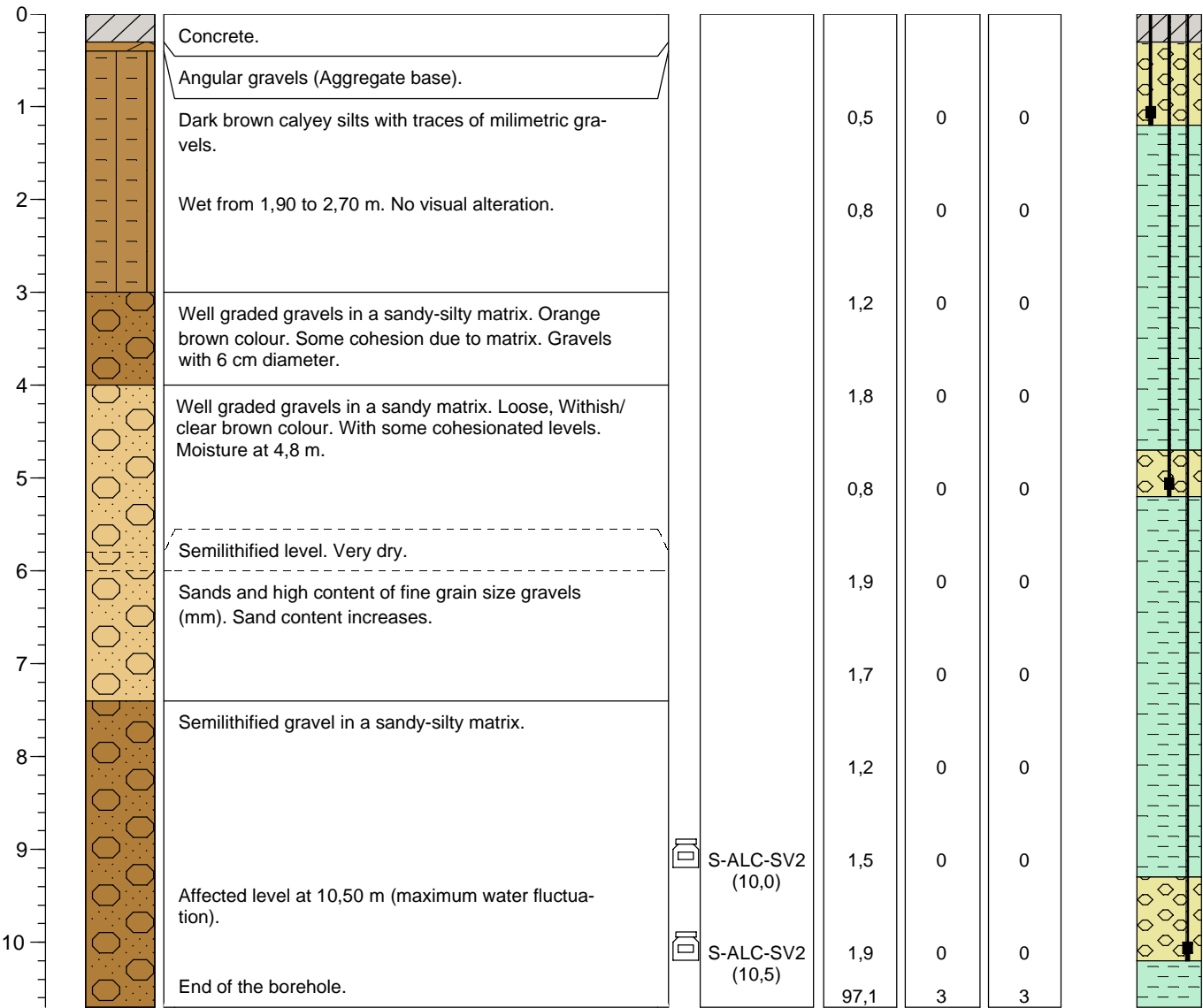
Hand-augering up to 0,60 m, where concrete floor is found. Clasts up to 30 - 40 cm with superficial alteration (bancal).
 Protective casing in the first meter to fill the piezometer. Protective casing up to 8,5 m due to knock down.

Color-odor legend:

- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

Signature:

BP LOCATION: Alcañiz Project ID: 60465029-44193366		Drilling supervision						
		BOREHOLE LOG: SV2						
Supervised by: CM Drilling company: Geointec Drilling method: RETC		Start date: 13/06/2017 End date: 14/06/2017 Water level: -		Log fluid: - Drilling diameter: 101/89 mm Maximum depth: 10,7 m				
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details



NOTES:

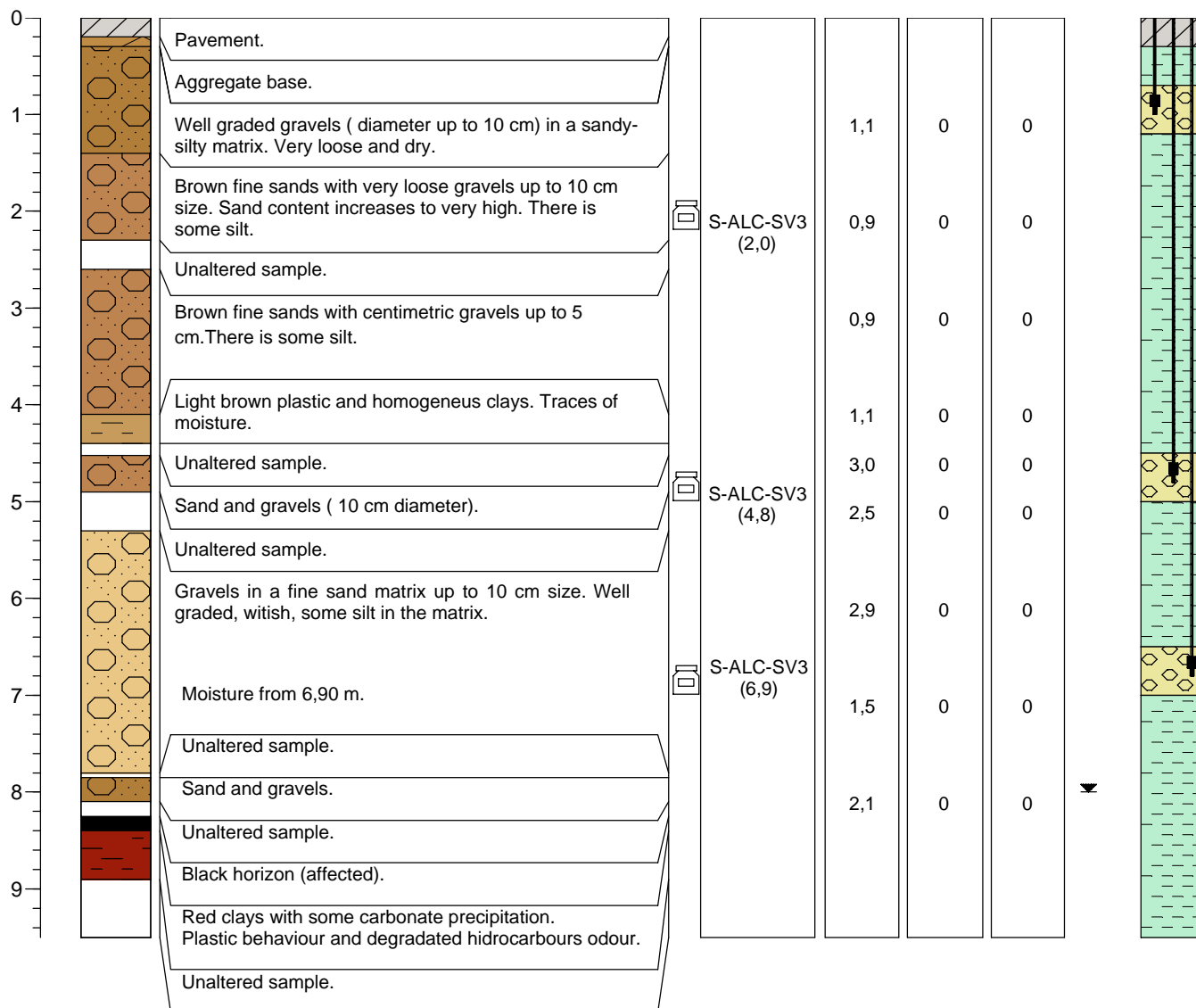
Trial pit is opened and hand augering until 2 m. Protective casing up to 6,5 m.

Color-odor legend:

- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

Signature:

<div>BP</div> <div>LOCATION: Alcañiz</div> <div>Proyect ID: 60465029-44193366</div>		Drilling supervision	<div>AECOM</div>					
		BOREHOLE LOG: SV3						
Supervised by: CM		Start date: 06/06/2017	Log fluid: -					
Drilling company: Geointec		End date: 07/06/2017	Drilling diameter: 101 mm					
Drilling method: RETC		Water level: -	Maximum depth: 9,5 m					
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details



NOTES:






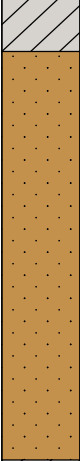





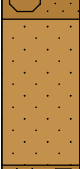

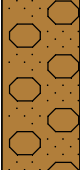
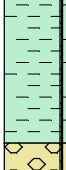



Drilling starts with Hand Augering.

Color-odor legend:

- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

Signature:

<div>BP</div> <div>LOCATION: Alcañiz</div> <div>Proyect ID: 60465029-44193366</div>		Drilling supervision	<div>AECOM</div>					
		BOREHOLE LOG: SV4						
Supervised by: CM		Start date: 16/06/2017	Log fluid: -					
Drilling company: Geointec		End date: 19/06/2017	Drilling diameter: 101/79 mm					
Drilling method: RETC		Water level: -	Maximum depth: 7,7 m					
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details

0		Concrete.						
		Fill material. Gravel and sand.						
1		Ceramic bricks and concrete base.		0,7	0	0		
		Fine sand used for filling tanks.		0,9	0	0		
2				0,7	0	0		
3				2,2	0	1		
4		Concrete basin base.	 S-ALC-SV4 (3,5)					
5		Well graded gravels in a sandy matrix with lithified levels.		1,2	0	0		
		Medium brown sands with disseminated gravels.	 S-ALC-SV4 (5,2)					
6				1,0	0	0		
7		Well graded gravels in a sandy matrix with lithified levels (mm to 10 cm). Whitish brown colour.		0,9	0	0		
		End of the borehole.	 S-ALC-SV4	0,9	0	0		

NOTES:

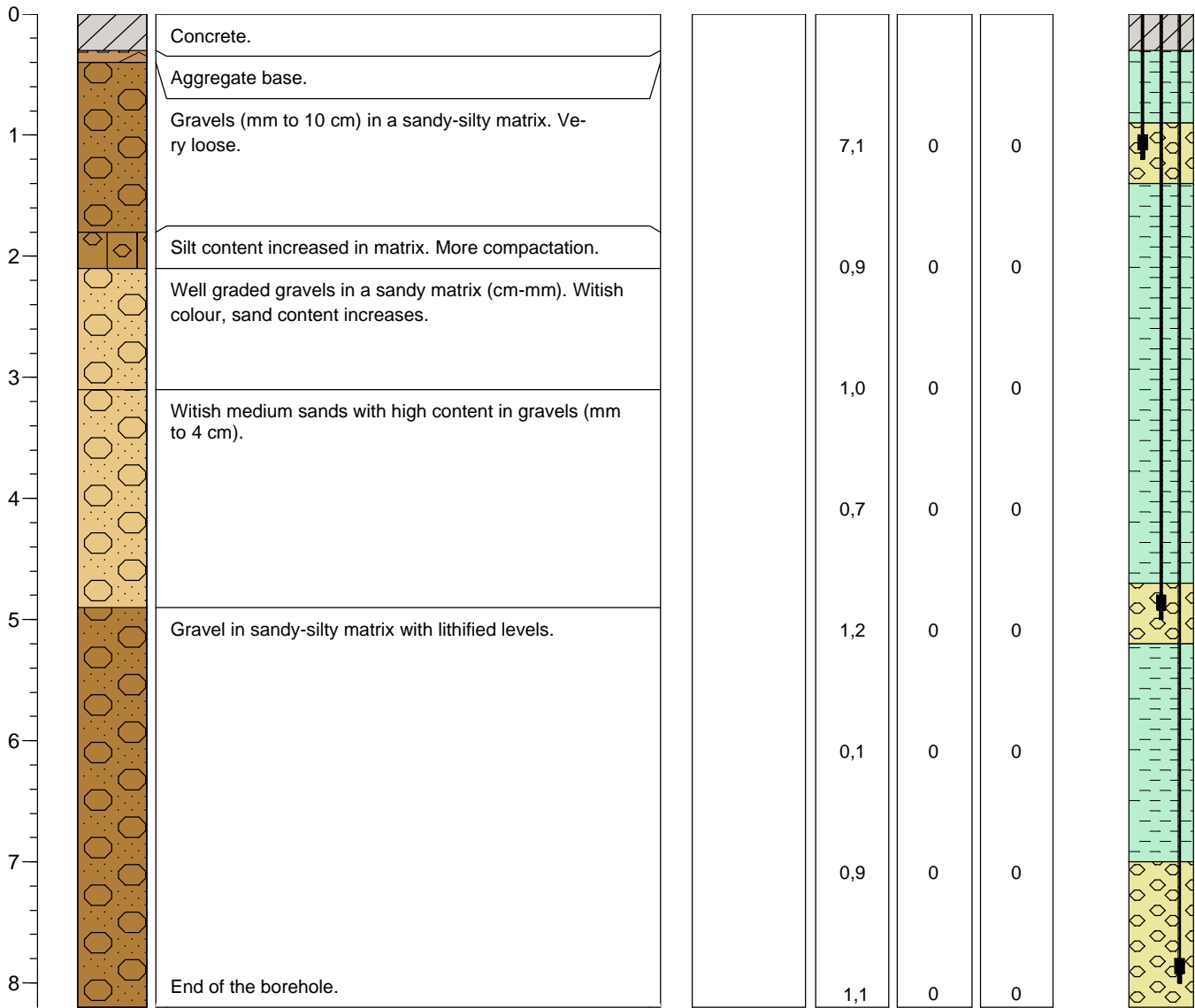
Hand Augering after drilling up to 3,50 m.
Protective casing up to 4 m.

Color-odor legend:

- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

Signature:

BP LOCATION: Alcañiz Project ID: 60465029-44193366		Drilling supervision						
		BOREHOLE LOG: SV5						
Supervised by: CM Drilling company: Geointec Drilling method: RETC		Start date: 15/06/2017 End date: 16/06/2017 Water level: -		Log fluid: - Drilling diameter: 101/79 mm Maximum depth: 8,2 m				
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details




NOTES:

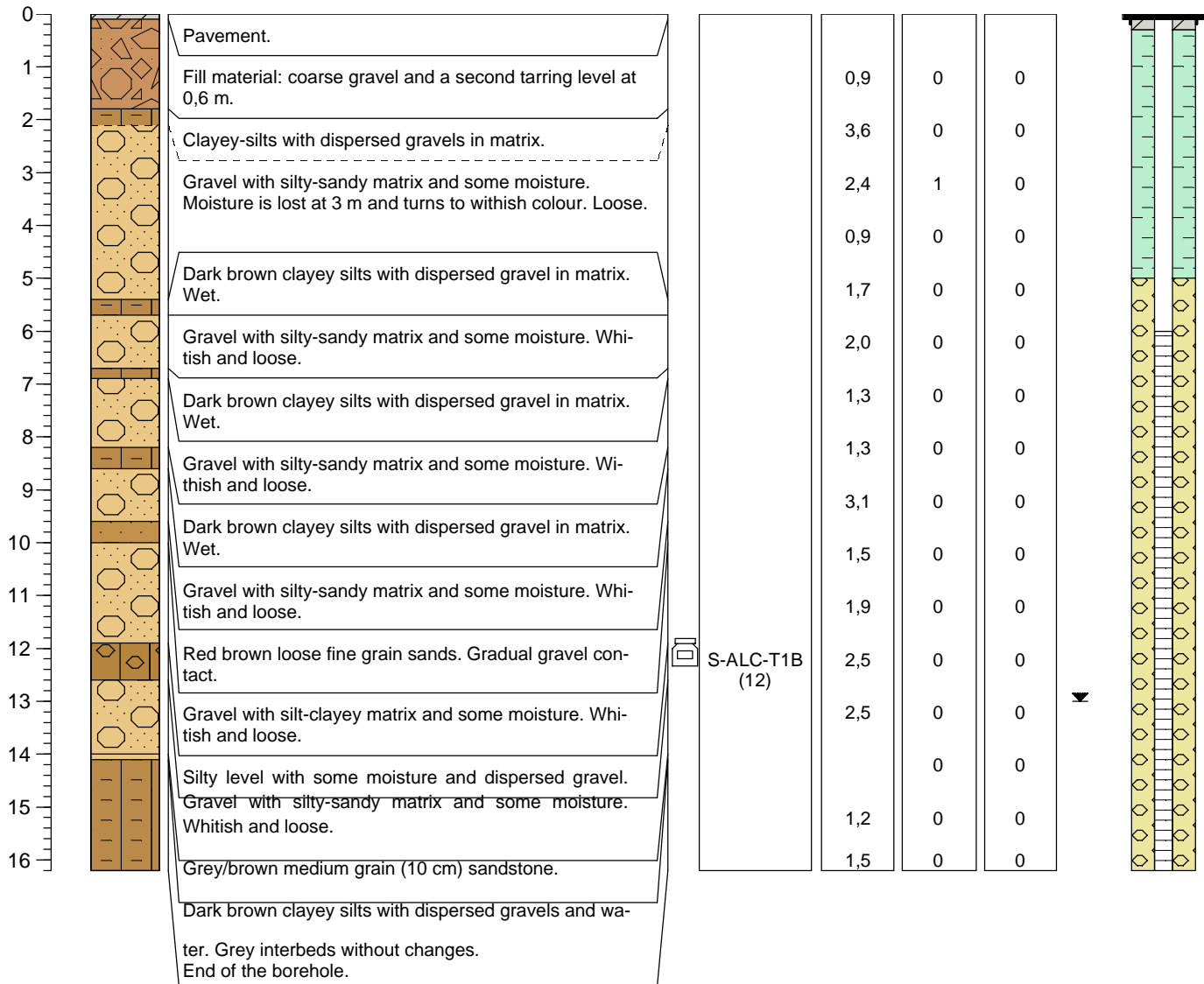
Located in the same trial pit as S21 (piezometer).

Signature:

Color-odor legend:

- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

BP LOCATION: Alcañiz Project ID: 60465029-44193366		Drilling supervision						
		BOREHOLE LOG: T1B						
Supervised by: <i>CM</i> Drilling company: <i>Geointec</i> Drilling method: <i>Trial pit + RETC</i>		Start date: <i>19/06/2017</i> End date: <i>21/06/2017</i> Water level: <i>13 m</i>		Log fluid: - Drilling diameter: <i>101 mm</i> Maximum depth: <i>16,2 m</i>				
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details



NOTES:

Trial pit started on 19/06 and hand augering, drilling starts on 21/06. Protective casing to the bottom.

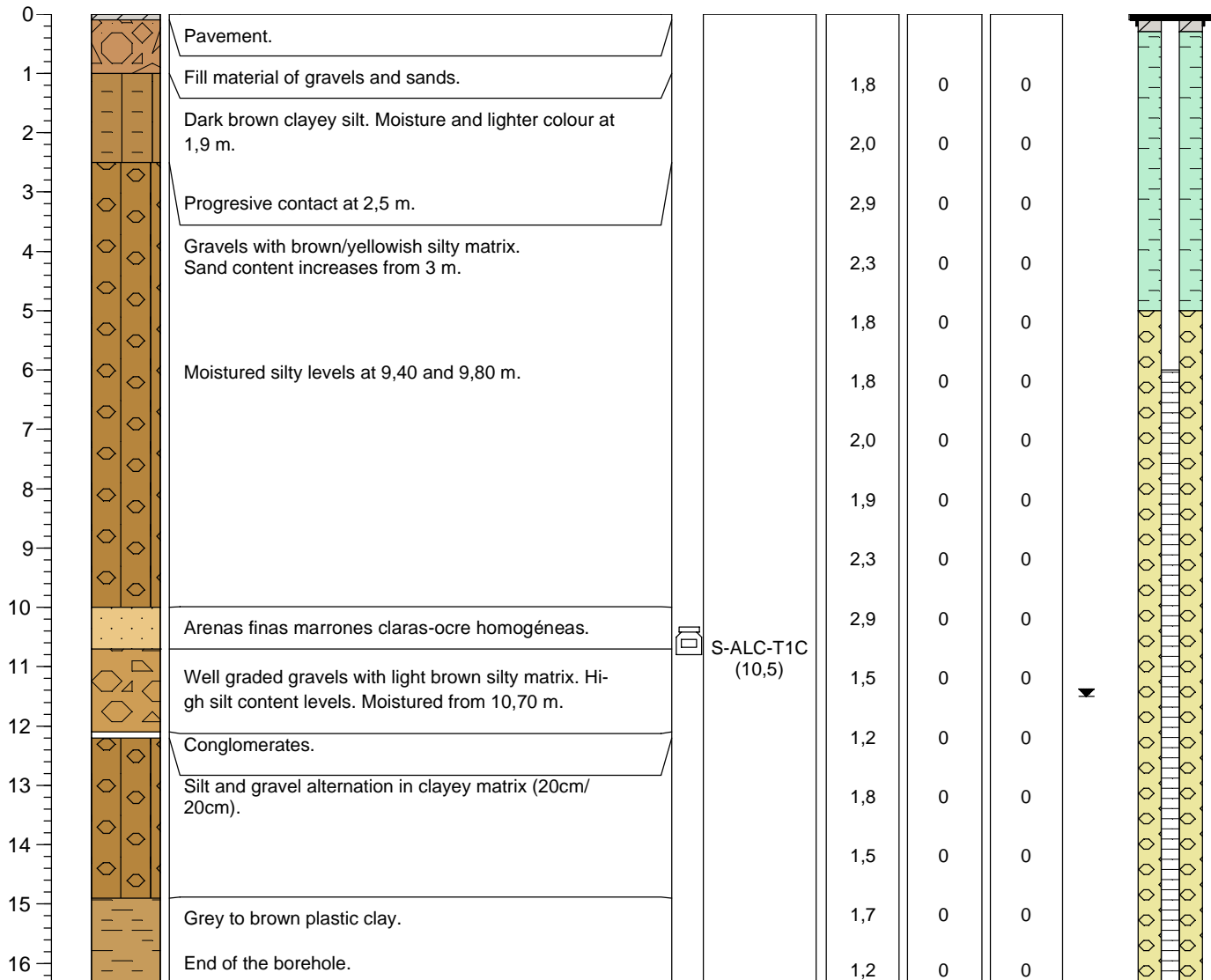
Color-odor legend:

- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

Signature:

BP LOCATION: Alcañiz Project ID: 60465029-44193366		Drilling supervision BOREHOLE LOG: T1C					
Supervised by: CM Drilling company: Geointec Drilling method: Trial pit + RETC		Start date: 21/06/2017 End date: 22/06/2017 Water level: 11,5 m		Log fluid: - Drilling diameter: 101/89 mm Maximum depth: 16,3 m			

Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details
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NOTES:

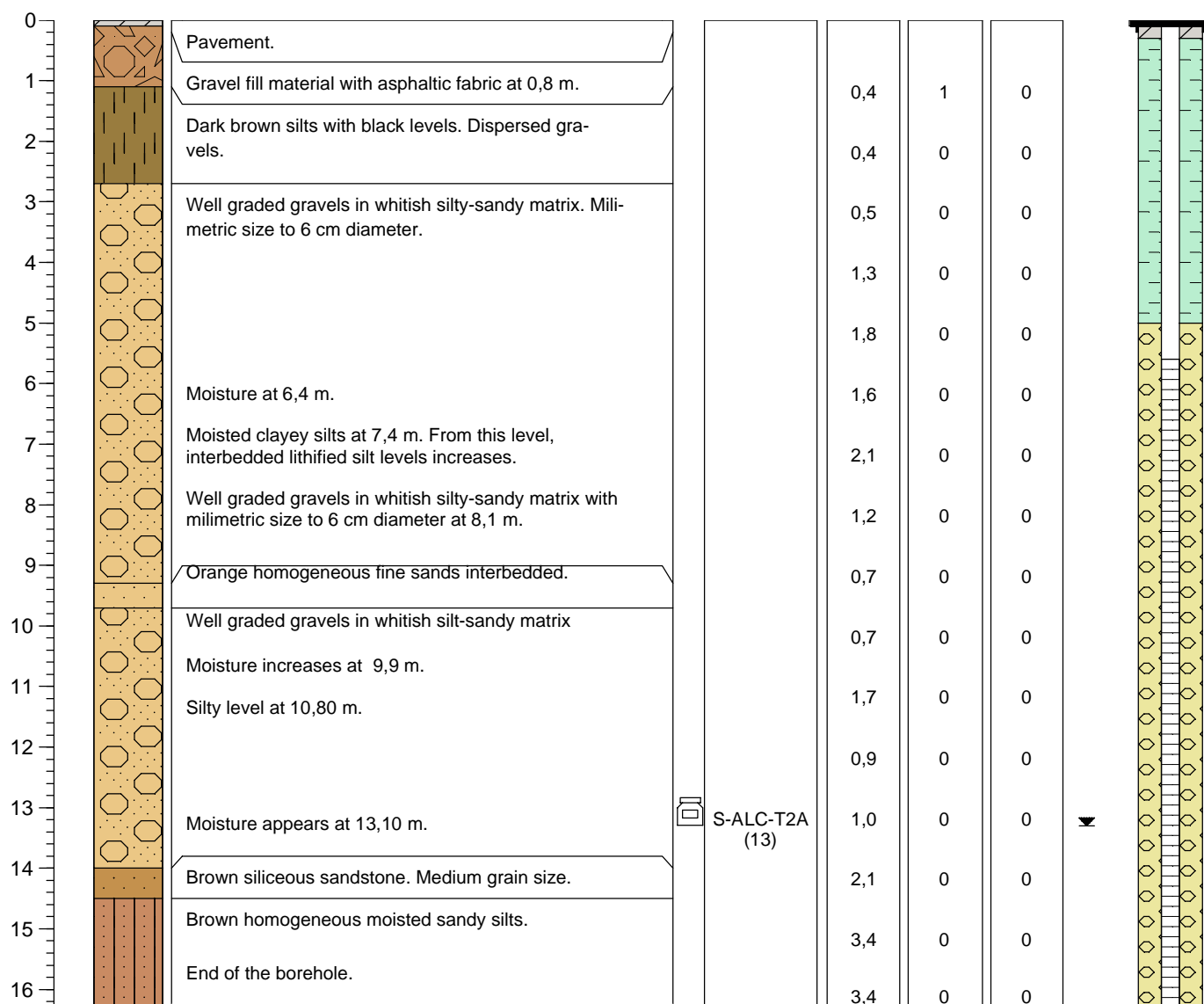
Drilling starts with hand augering.

Color-odor legend:


- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

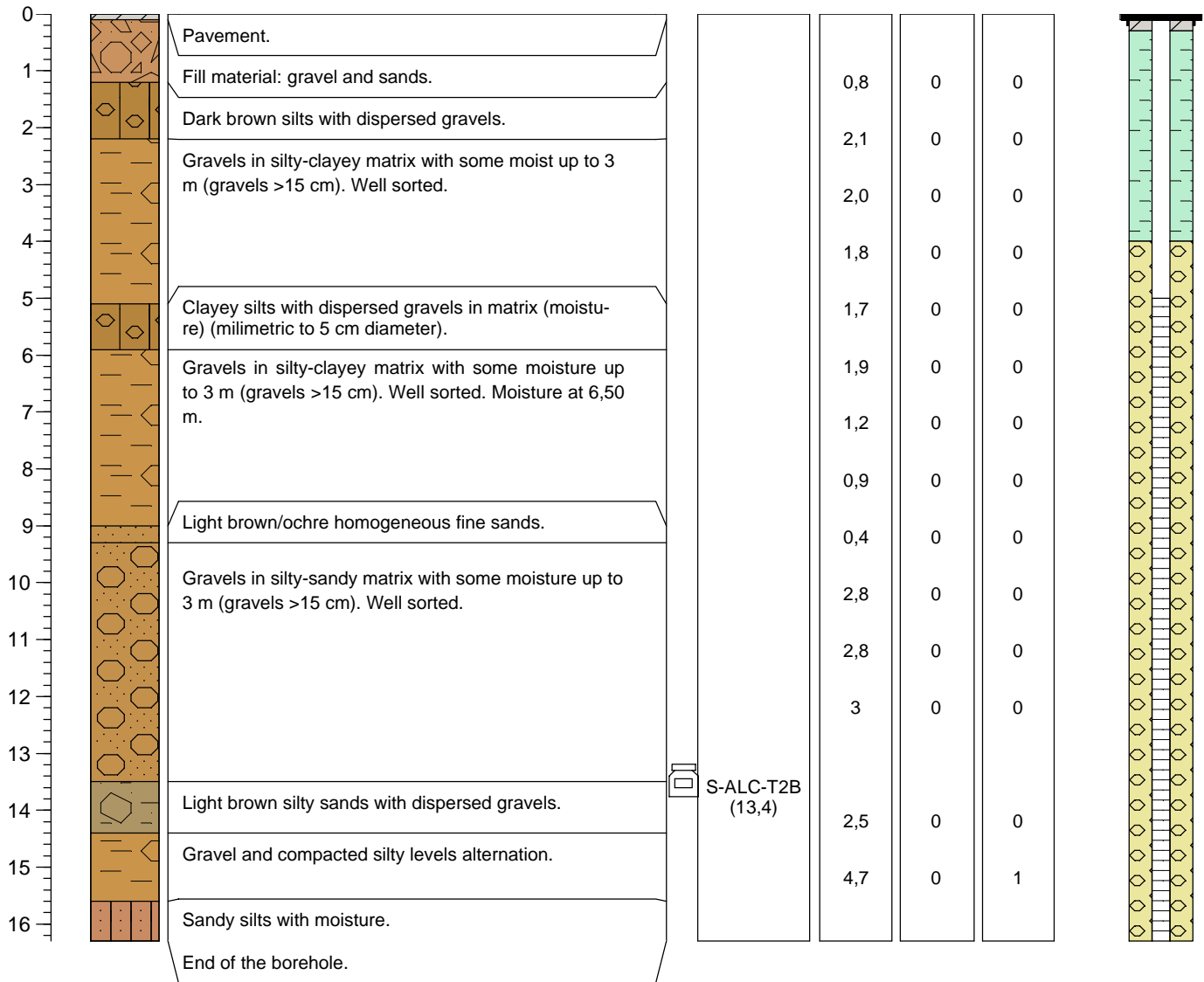
Signature:

<div>BP</div> <div>LOCATION: Alcañiz</div> <div>Proyect ID: 60465029-44193366</div>		Drilling supervision	<div>AECOM</div>					
		BOREHOLE LOG: T2A						
Supervised by: CM		Start date: 19/06/2017	Log fluid: -					
Drilling company: Geointec		End date: 21/06/2017	Drilling diameter: 101/89 mm					
Drilling method: Trial pit + RETC		Water level: 13,3 m	Maximum depth: 16,3 m					
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details



NOTES: Trial pit opened at 19-06-2017. Borehole starts at 20-06-2017. Protective casing up to 12 m with 101 mm diameter.		Color-odor legend: 0 Absent 1 Trace 2 Moderate 3 Strong 4 Very strong	
Signature:			

BP LOCATION: Alcañiz Project ID: 60465029-44193366		Drilling supervision BOREHOLE LOG: T2B						
Supervised by: <i>CM</i> Drilling company: <i>Geointec</i> Drilling method: <i>Trial pit + RETC</i>		Start date: <i>21/06/2017</i> End date: <i>22/06/2017</i> Water level: <i>13,5 m</i>		Log fluid: - Drilling diameter: <i>101/79 mm</i> Maximum depth: <i>16,3 m</i>				
Depth (m)	Graphic	Lithologic description	Sample	PID (ppm)	Colour	Odor	Water level (m)	Well construction details



NOTES:

A subway is closed during the process.

Color-odor legend:

- 0 Absent
- 1 Trace
- 2 Moderate
- 3 Strong
- 4 Very strong

Signature:

