

DAFTAR PUSTAKA

- Adisasmita, sakti A., Rauf, S., & Sidra. (n.d.). *Analisis Karakteristik Spasial Kabupaten Takalar Berbasis Gis Dan Remote Sensing Menggunakan Citra*.
- Anonim. "Konservasi Kompleks Makam Raja-Raja Tallo oleh Tim Teknis Kelompok Kerja Pemeliharaan dan Laboratorium Balai Pelestarian Cagar Budaya Provinsi Sulawesi Selatan". Konservasi Kompleks Makam Raja-Raja Tallo oleh Tim Teknis Kelompok Kerja Pemeliharaan dan Laboratorium Balai Pelestarian Cagar Budaya Provinsi Sulawesi Selatan - BPCB Sulawesi Selatan (bpcbsulsel.id) diakses pada 11 Oktober 2024.
- Anonim, 2010 "Laporan Pendataan Peninggalan Sejarah dan Purbakala Di Kabupaten Takalar Provinsi Sulawesi Selatan" Balai Pelestarian Peninggalan Purbakala Makassar.
- Anonim, 2022 "Pohon Cemara: Ciri-ciri, Manfaat dan 16 Jenis Cemara (2022)" <https://lindungihutan.com/blog/pohon-cemara-ciri-ciri-manfaat-jenis-cemara/> (diakses 26 September 2024).
- Anonim, 2022 "Pohon Ketapang: Klasifikasi, Ciri-ciri dan Manfaat Ketapang" <https://lindungihutan.com/blog/pohon-ketapang-klasifikasi-ciri-dan-manfaat/> (diakses 30 September 2024).
- Anonim. 2010. Undang-Undang Republik Indonesia Nomor 11 Tahun 2010 Tentang Cagar Budaya, Indonesia: Kementerian Pendidikan dan Kebudayaan, Riset dan Teknologi.
- Ardian, M. (2018). Evaluasi Metode Pekerjaan Perbaikan Dan Pemeliharaan Material Kayu Dan Bata Pada Bangunan Khusus Cagar Budaya Menara, Mesjid Dan Makam Sunan Kudus. *the Entrepreneurship Idea of Magister Civil Engineering*, 1–6.
- Arifin, H. P. (2018). Politik Hukum Perlindungan Cagar Budaya Di Indonesia. *Dialogia Iuridica: Jurnal Hukum Bisnis dan Investasi*, 10(1), 65–76. <https://doi.org/10.28932/di.v10i1.1034>
- Asyifa, I. Z. (2018). *Kajian Distribusi Tanaman Lumut Kerak (Lichenes) Pada Pohon Angsana Di Kawasan Universitas Sebelas Maret, Kertingnan, Surakarta* [Universitas Muhammadiyah Surakarta]. <https://core.ac.uk/download/pdf/196255896.pdf>
- Awlya, R. (2022). *Pengaruh Lingkungan Terhadap Kerusakan Makam Islam Di Kabupaten Enrekang (Studi Kasus Kompleks Makam Laiya, Kecamatan Alla dan Kompleks Makam Nek Rano, Kecamatan Baroko)*. Universitas Hasanuddin.

- Cahyandaru, N., Parwoto., Sutopo, M., Siregar, I. M., & Setyoharjono, Y. S. (2010). *Konservasi cagar budaya berbahan kayu dengan bahan tradisional*.
- Darmono, D., Nugroho, M. S., Widodo, S., & Ma'arif, F. (2020). Analisis Penurunan Kualitas Mutu Kayu Pada Bangunan Cagar Budaya Dengan Metode Non Destructive Test (Studi Kasus Bangunan Cagar Budaya Masjid Gedhe Mataram Daerah Istimewa Yogyakarta). *INERSIA: INformasi dan Ekspose hasil Riset teknik Sipil dan Arsitektur*, 16(2), 191–199. <https://doi.org/10.21831/inersia.v16i2.36905>
- De Felice, B., Pasquale, V., Tancredi, N., Scherillo, S., & Guida, M. (2010). Genetic fingerprint of microorganisms associated with the deterioration of an historical tuff monument in Italy. *Journal of Genetics*, 89(2), 253–257. <https://doi.org/10.1007/s12041-010-0035-9>
- Dzulfikri, B. (2009). *Batuan Metamorf*. 4(April), 2–5.
- Ekarini, F. D. (2021). Minyak Atsiri Untuk Pengendalian Mikroorganisme Pada Situs Candi Surowono. *Jurnal Konservasi Cagar Budaya*, 15(2), 34–43. <https://doi.org/10.33374/jurnalkonservasicagarbudaya.v15i2.265>
- Fitri, D. B., Hidayat, B., & Subandrio, A. S. (2017). Klasifikasi Jenis Batuan Sedimen Berdasarkan Tekstur Dengan Metode Gray Level Co Occurrence Matrix Dan K-Nn. *e-Proceeding of Engineering*, 4(2), 1638–1645.
- Haldoko, L. A., Muhammad, R., & Purwoko, A. W. (2014). Karakteristik Batu Penyusun Candi Borobudur. *Jurnal Konservasi Cagar Budaya*, 8(1), 38–47. <https://doi.org/10.33374/jurnalkonservasicagarbudaya.v8i1.123>
- Handoko, A., Tohir, R. K., Sutrisno, Y., Brillianti, D. H., Tryfani, D., Oktorina, P., Yunita, P., & Hayati, A. N. (2015). Keanekaragaman Lumut Kerak (Lichen) Sebagai Bioindikator Kualitas Udara di Kawasan Asrama Internasional IPB. *Angewandte Chemie International Edition*, 6(11), 5–24.
- Hasanah, I. (2021). *Analisis Nilai Penting Sumber Daya Arkeologi di Situs Lamlagang, Kecamatan Banda Raya, Banda Aceh*. 2(2).
- Hidayat, M. (1997). Penelitian Pelestarian Dan Pemanfaatan Sumberdaya Arkeologi. *Berkala Arkeologi*, 17(1), 24–32. <https://doi.org/10.30883/jba.v17i1.766>
- Jayanti, M. A. D. (2016). Sintesis Litium Silikat untuk Konsolidasi Batuan Andesit di Balai Konservasi Borobudur. In *Skripsi*.
- Marhadi, A., Alwi, B., & Salniwati. (2023). Secara umum kerusakan yang ditemukan pada bangunan cagar budaya tidak sepenuhnya menghilangkan dan mempengaruhi suatu bangunan cagar budaya tetapi kerusakan yang terjadi dapat menyebabkan fungsi suatu bangunan tidak bekerja secara penuh atau optimal. *Sangia: Jurnal Penelitian Arkeologi (Journal of Archaeology)*

Research), 7(1), 73–89.

- Masnuali, M. (2013). Konservasi Nisan Putro Balee dan Tgk. Awe Geutah Di Kabupaten Pidie, Provinsi Aceh. *Jurnal Konservasi Cagar Budaya*, 7(1), 66–74. <https://doi.org/10.33374/jurnalkonservasicagarbudaya.v7i1.108>
- Meilania, M., & Febrianti, H. (2019). Pelestarian Candi Muaro Jambi Sebagai Benda Cagar Budaya Dan Pariwisata Di Provinsi Jambi. *Journal V-Tech (Vision Technology)*, 2(1), 99–109. <https://doi.org/10.35141/jvt.v2i1.509>
- Muda, K. T., Yusriana, Y., D., N. I., Saraka, E. U., Zulfikar, M. N., & Destania, D. (2022). Coastal Environment and Ancient Tomb Damage: A Case Study of The Tomb of the King and Hadat Banggae at Majene West Sulawesi Indonesia. *Proceedings of the 9th Asbam International Conference (Archeology, History, & Culture In The Nature of Malay) (ASBAM 2021)*, 660(April). <https://doi.org/10.2991/assehr.k.220408.066>
- Muhammad, R., Cahyandaru, N., & Yulianto, H. (2010). *Evaluasi Penggunaan Epoxy Resin pada Candi Borobudur*.
- Muin, M., Daud, M., Junus, M., & Ruslan. (2011). Deteriorasi Kayu pada Bangunan Rumah Tradisional Suku Bajo. *Prosiding Seminar Nasional Masyarakat Peneliti Kayu Indonesia (Mapeki) XIV18, November 2011*, 18–27. <http://www.mapeki.org>
- Munandar, A. (2010). *Kerusakan Dan Pelapukan Bata*. 55–61.
- Nasriyati, T., & Utami, S. (2018). Morfologi Talus Lichen Dirinaria Picta (Sw.) Schaer. Ex Clem pada Tingkat Kepadatan Lalu Lintas yang Berbeda di Kota Semarang. *Jurnal Akademika Biologi*, 7(4), 20–27.
- Nurlaila, S. (2023). *Efektivitas Penggunaan Serai Wangi (Cymbopogon Nardus) Sebagai Bahan Konservan Dalam Konservasi Arkeologi Kompleks Makam Sultan Hasanuddin, Kabupaten Gowa, Sulawesi Selatan*.
- Nurlaila, S., Triana, A., & Suharno, Z. (2022). *Penyusunan Ensiklopedia Pendidikan Melalui Inventarisasi Lumut Kerak (Lichenes) Di Desa Kubu Liku Jaya, Kecamatan Batu Ketulis, Kabupaten Lampung Barat*. 3(1), 47–61.
- Nusantoro, A. (2012). Perbaikan dan Perkuatan Struktur Beton. *Jurnal Konstruksia*, 3(2), 51–59.
- Priyahita, F. W., Sugianti, N., & Aliah, H. (2016). Analisis Taman Alat Cuaca Kota Bandung Dan Sumedang Menggunakan Satelit Terra Berbasis Python. *ALHAZEN Journal of Physics Vol.*, 469(3), 319–323. <https://doi.org/10.7868/s0869565216210155>
- Purnawibowo, S. (1995). *Identifikasi Nilai Penting Arkeologis Ceruk Hunian*

Prasejarah Di Takengon.

- Rosmawati. (2015). *Tamadun Awal Islam Di Sulawesi Selatan, Indonesia, Kajian Perspektif Arkeologi* (Vol. 11).
- Sari, A. N., Supeno, S., & Wahyuni, D. (2023). Identifikasi Tumbuhan Lumut (Bryophyta) Di Kawasan Ijen Geopark dan Pemanfaatannya Sebagai Sumber Belajar. *Diklabio: Jurnal Pendidikan dan Pembelajaran Biologi*, 7(2), 174–186. <https://doi.org/10.33369/diklabio.7.2.174-186>
- Sari, V. S. (2017). *Identifikasi Kerusakan Berdasarkan Lingkungan Pada Tata Letak Nisan Kayu (Studi Kasus Kompleks Makam Raja-raja Hadat Banggae, Kabupaten Majene) Skripsi*. Universitas Hasanuddin.
- Setyawan, H., & Kasatriyanto, B. (2019). Kajian Penataan Tanaman Kawasan Borobudur Study on the Vegetation Planning for Borobudur Area. *Borobudur*, 13(2), 3–31. <https://borobudur.kemdikbud.go.id/index.php/jurnalkonservasicagarbudaya/article/view/214>
- Solihat, S. S., & Kurnia, M. F. (2021). Identifikasi Morfologi Marchantia polymorpha dan Leucobryum glaucum di Bojong Menteng, Kecamatan Cijeruk, Kabupaten Bogor, Jawa Barat. *Tropical Bioscience: Journal of Biological Science*, 1(1), 29–38. <https://doi.org/10.32678/tropicalbiosci.v1i1.4360>
- Srivijayananta, I. G. A. G. S. B. (2008). *Arca-Arca Batu Di Daerah Aliran Sungai Petanu Dan Pakerisan, Kabupaten Gianyar, Bali Analisis Konservasi*. <https://lontar.ui.ac.id/detail?id=20310196&lokasi=lokal>
- Sugijono, Murtiyani, D., & Sekararum, T. P. (2023). *Optimasi Pasta Sereh Wangu dan Natrium Bikarbonat untuk Pembersihan Lichen Pada Cagar Budaya Berbahan Batu Studi Kasus Candi Plaosan Lor. XVII*, 75–85.
- Sumanti, S. T. (2021). Konservasi Temuan Makam Kuno Keramat dan Perkembangan Islam di Medan. *Fikrah: Jurnal Ilmu Aqidah dan Studi Keagamaan*, 9(1), 105. <https://doi.org/10.21043/fikrah.v9i1.10113>
- Suranto, Y. (2008). Identifikasi Kayu Dan Peranannya Terhadap Pelestarian Benda Cagar Budaya. *borobudur*, 2 No. 1, 3–7.
- Swastikawati, A., Gunawan, A., & Atmaja, Y. (2014). Kajian Konservasi Mgelaitik di Lore, Sulawesi Tengah. *Jurnal Konservasi Cagar Budaya, Balai Konservasi Borobudur*, Vol. 8 No., 17–37.
- Tahiru, M. F., Sondakh, J., & NGantung, C. M. (2023). Perlindungan Cagar Budaya Menurut Peraturan Pemerintah Nomor 1 Tahun 2022. *Lex Privatum*, Vol.XII(1).
- Tukimin, E. (2020). *Pengaruh Lingkungan terhadap Kerusakan dan Pelapukan pada*

Situs Kompleks Makam Maradia Parappe. Universitas Hasanuddin.

Wahyudin, M. (2023). *Napak Tilas Jejak-Jejak Sejarah Kakaraengang Di Desa Punaga : (Tidak terbit)*.

Wahyuni, S., Laili, Z., Si, S., & Purwoko, A. W. (n.d.). *Emulsi Sereh Wangi untuk Konservasi Cagar Budaya Berbahan Batu dan Bata*.

Wibowo, A. B. (2014). Strategi Pelestarian Benda/Situs Cagar Budaya Berbasis Masyarakat. *Jurnal Konservasi Cagar Budaya*, 8(1), 58–71. <https://doi.org/10.33374/jurnalkonservasicagarbudaya.v8i1.125>

Yanuardi, M. H. (2009). Penyebab Kerusakan dan Pelapukan beserta Penanganannya: Studi atas Faktor Biotik dan Abiotik di Candi Borobudur (Causes and Handling of Damage and Weathering: Study of Biotic and Abiotic Factors at Borobudur Temple). *Jurnal Sejarah Lontar*, 6(2), 29–37. <http://journal.unj.ac.id/unj/index.php/lontar/article/view/2512>

Yasni, Alim, A., & Suseno, S. (2019). Konservasi Wadah Kubur (Soronga) Di Museum Provinsi Sulawesi Tenggara. *Sangia: Journal of ...*, 3(2), 26–37. <http://journal.fib.uho.ac.id/index.php/sangia/article/view/731%0Ahttp://journal.fib.uho.ac.id/index.php/sangia/article/download/731/622>

Zaman, S. (2021). *Evaluasi Konservasi Benteng Rotterdam*. Universitas Hasanuddin.

LAMPIRAN**DATA NARASUMBER :**

1. Nama : Syarifuddin Sore
Umur : -
Pekerjaan : Kepala Desa Punaga
2. Nama : Tarru Maddolangan
Umur : -
Pekerjaan : Juru pelihara Kompleks Makam I Sabbelo'mo Daeng Takontu
3. Nama : Wahyudin
Umur : 29
Pekerjaan : -

Tabel 1. Persentase Kerusakan Dan Pelapukan Makam I Sabbelo'mo Daeng Takontu

Kode Makam	Kerusakan/Pelapukan	Kategori Kerusakan										Kategori Pelapukan													
		Mekanis			Fisis							Khemis			Bilogis										
		Nisan	Jirat	Gunungan	Nisan		Jirat		Gunungan			Nisan	Jirat	Gunungan	LK	Nisan		J	LK	Jirat		J	Gunungan		J
					Aus	PL	Aus	PL	Aus	PL	LB					LB	LB			LB	LB		LB		
S1/ M001	kerusakan/Pelapukan	P				✓	✓	✓				✓	✓	✓			✓		✓				✓		
S1/ M002	kerusakan/Pelapukan	P	R			✓						✓	✓	✓			✓						✓		
S1/ M003	kerusakan/Pelapukan		R			✓						✓	✓	✓					✓				✓		
S1/ M004	kerusakan/Pelapukan			M								✓	✓	✓					✓				✓		
S1/ M005	kerusakan/Pelapukan		R			✓						✓	✓	✓					✓				✓		
S1/ M006	kerusakan/Pelapukan		R	M		✓		✓				✓	✓	✓		✓			✓				✓		
S1/ M007	kerusakan/Pelapukan	M	M	M	✓		✓				✓	✓	✓	✓	✓				✓		✓		✓		
S1/ M008	kerusakan/Pelapukan	M	R	P	✓		✓			✓		✓	✓	✓		✓			✓				✓		
S1/ M009	kerusakan/Pelapukan	P	R	M	✓		✓			✓		✓	✓	✓					✓		✓		✓		
S1/ M010	kerusakan/Pelapukan	P	R	R	✓		✓		✓	✓		✓	✓	✓		✓			✓		✓		✓		
S1/ M011	Pelapukan							✓		✓		✓	✓	✓	✓							✓			
S1/ M012	kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓		✓			✓				✓		
S1/ M013	kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓	✓		
S1/ M014	kerusakan/Pelapukan		R	P				✓	✓	✓	✓	✓	✓	✓					✓			✓	✓		
S1/ M015	kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓	✓		
S1/ M016	kerusakan/Pelapukan		R dan P	P			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓	✓		
S1/ M017	kerusakan/Pelapukan		P	P dan R			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓	✓		
S1/ M018	kerusakan/Pelapukan		P	P	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓		
S1/ M019	kerusakan/Pelapukan	P	P dan R				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓		✓		
S1/ M020	kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓						
S1/ M021	kerusakan/Pelapukan			R			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓						
S1/ M022	kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓	✓		
S1/ M023	kerusakan/Pelapukan	P	R	P	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			✓	✓		
S1/ M024	kerusakan/Pelapukan	P	P dan R	P	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓		
S1/ M025	kerusakan/Pelapukan	P	P dan R	P	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓		
S1/ M026	kerusakan/Pelapukan		P dan R	P			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓						
S1/ M027	kerusakan/Pelapukan	P	P dan R	P	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			✓	✓		
S1/ M028	kerusakan/Pelapukan		P dan R	P			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓						
S1/ M029	kerusakan/Pelapukan		P dan R	P			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓	✓		
S1/ M030	kerusakan/Pelapukan		P dan R				✓	✓	✓	✓		✓	✓	✓	✓	✓			✓						
S1/ M031	kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓				✓				✓			
S1/ M032	kerusakan/Pelapukan	P	R		✓		✓	✓	✓	✓	✓	✓	✓	✓		✓			✓				✓		
S1/ M033	kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓				✓		
S1/ M034	kerusakan/Pelapukan	M			✓		✓	✓	✓	✓	✓	✓	✓	✓				✓	✓				✓		
S1/ M035	kerusakan/Pelapukan	P	R	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			✓			
S1/ M036	kerusakan/Pelapukan		R	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓						
S1/ M037	kerusakan/Pelapukan	P	R	P	✓		✓			✓			✓	✓				✓	✓			✓			
S1/ M038	kerusakan/Pelapukan	P	P dan R	R dan M	✓		✓	✓	✓		✓		✓	✓	✓			✓	✓			✓			
S1/ M039	kerusakan/Pelapukan	P	P			✓		✓	✓			✓	✓		✓				✓						
S1/ M040	Pelapukan							✓					✓	✓					✓				✓		
S1/ M041	kerusakan/Pelapukan	P	P dan R	P	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			✓			
S1/ M042	kerusakan/Pelapukan	P	P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓			
S1/ M043	kerusakan/Pelapukan	P	P	P	✓		✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓			
S1/ M044	kerusakan/Pelapukan	M	P dan R	P dan R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			✓			
S1/ M045	kerusakan/Pelapukan	P	R	P	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓						
S1/ M046	kerusakan/Pelapukan		R dan P	R			✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			✓			

[illegible]

[illegible]

S1/ M158	Kerusakan/Pelapukan		R	M			✓	✓	✓	✓		✓	✓				✓	✓		✓	✓	
S1/ M159	kerusakan/Pelapukan		P				✓	✓				✓						✓				
S1/ M160	kerusakan/Pelapukan		R	P					✓	✓			✓	✓				✓				✓
S1/ M161	kerusakan/Pelapukan						✓	✓	✓	✓		✓	✓				✓				✓	
S1/ M162	kerusakan/Pelapukan	M	R	P dan M			✓	✓	✓	✓	✓	✓	✓	✓	✓					✓		
S1/ M163	kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓
S1/ M164	kerusakan/Pelapukan	M	R	P dan M			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		
S1/ M165	kerusakan/Pelapukan	P	R	M			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			
S1/ M166	Kerusakan/Pelapukan		R	M			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓
S1/ M167	Kerusakan/Pelapukan	M	M	M			✓		✓	✓	✓	✓	✓	✓	✓	✓						
S1/ M168	Pelapukan						✓	✓				✓	✓				✓					
S1/ M169	Pelapukan						✓	✓	✓	✓			✓	✓				✓				✓
S1/ M170	Kerusakan/Pelapukan		R	M					✓	✓												
S1/ M171	Pelapukan						✓	✓				✓	✓									
S1/ M172	Kerusakan/Pelapukan			M			✓	✓	✓	✓		✓	✓					✓				✓
S1/ M173	Kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓					✓				✓
S1/ M174	Kerusakan/Pelapukan		R						✓	✓	✓	✓	✓	✓								✓
S1/ M175	Kerusakan/Pelapukan		R	M			✓	✓	✓	✓	✓	✓	✓	✓	✓							✓
S1/ M176	Kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			✓
S1/ M177	Kerusakan/Pelapukan	P		M		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓
S1/ M178	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓							
S1/ M179	Kerusakan/Pelapukan						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓
S1/ M180	Kerusakan/Pelapukan	P	R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
S1/ M181	Pelapukan						✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			✓
S1/ M182	Kerusakan/Pelapukan		P	M			✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			
S1/ M183	kerusakan/Pelapukan		P	M			✓	✓	✓	✓	✓	✓	✓	✓	✓							✓
S1/ M184	kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			✓
S1/ M185	kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓	✓							✓
S1/ M186	kerusakan/Pelapukan		R	R			✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			✓
S1/ M187	kerusakan/Pelapukan	M dan P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓
S1/ M188	kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓		
S1/ M189	kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			
S1/ M190	kerusakan/Pelapukan		R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓
S1/ M191	Kerusakan/Pelapukan	P	R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓		✓
S1/ M192	Kerusakan/Pelapukan		R	M			✓	✓	✓	✓	✓	✓	✓	✓	✓							✓
S1/ M193	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓							
S1/ M194	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			
S1/ M195	Kerusakan/Pelapukan	M	R	M		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓
S1/ M196	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			
S1/ M197	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	✓
S1/ M198	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			
S1/ M199	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
S1/ M200	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			
S1/ M201	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			✓
S1/ M202	Kerusakan/Pelapukan		P	M			✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			✓
S1/ M203	Kerusakan/Pelapukan	P	R	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
S1/ M204	Kerusakan/Pelapukan	P	R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			
S1/ M205	Kerusakan/Pelapukan		R	M			✓	✓	✓	✓	✓	✓	✓	✓	✓			✓				
S1/ M206	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			
S1/ M207	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	✓
S1/ M208	Kerusakan/Pelapukan		R	R dan M			✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			✓
S1/ M209	Kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	
S1/ M210	Kerusakan/Pelapukan		R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓				✓
S1/ M211	Kerusakan/Pelapukan	M	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓			
S1/ M212	Kerusakan/Pelapukan	P	R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓				
S1/ M213	Kerusakan/Pelapukan	P	R	M		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓				✓

[illegible]

S2/ M266	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M267	Kerusakan/Pelapukan	P	R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M268	Pelapukan		R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M269	Kerusakan/Pelapukan	P	R dan P		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M270	Kerusakan/Pelapukan	P	R dan P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M271	Kerusakan/Pelapukan	P	R dan P		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M272	Kerusakan/Pelapukan		R dan P	R			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M273	Kerusakan/Pelapukan		R dan P	R dan P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M274	Kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M275	Kerusakan/Pelapukan		R dan P				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M276	Kerusakan/Pelapukan	P	R dan P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M277	Pelapukan				✓				✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M278	Kerusakan/Pelapukan	M	R dan P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M279	Kerusakan/Pelapukan		R dan P	R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M280	Kerusakan/Pelapukan		R dan P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M281	Kerusakan/Pelapukan		R dan P		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M282	Kerusakan/Pelapukan		R dan P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M283	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M284	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M285	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M286	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M287	Kerusakan/Pelapukan	P	R dan P		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M288	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M289	Kerusakan/Pelapukan			P			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M290	Kerusakan/Pelapukan		R dan P	R			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M291	Kerusakan/Pelapukan		R dan P				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M292	Kerusakan/Pelapukan	P	R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M293	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M294	Kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M295	Kerusakan/Pelapukan		P		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M296	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M297	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M298	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M299	Pelapukan				✓					✓				✓	✓					
S2/ M300	Pelapukan						✓	✓				✓					✓			
S2/ M301	Pelapukan				✓						✓									
S2/ M302	Kerusakan/Pelapukan	P	P dan R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M303	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M304	Kerusakan/Pelapukan		P dan R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M305	Kerusakan/Pelapukan		P dan R				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M306	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M307	Kerusakan/Pelapukan	P	P		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M308	Kerusakan/Pelapukan	P	P dan R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M309	Kerusakan/Pelapukan						✓	✓				✓	✓	✓	✓		✓		✓	
S2/ M310	Kerusakan/Pelapukan	P	P dan R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M311	Kerusakan/Pelapukan		R	R			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M312	Kerusakan/Pelapukan		P dan R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M313	Kerusakan/Pelapukan	R	R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M314	Kerusakan/Pelapukan	P	P dan R	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M315	Kerusakan/Pelapukan		P dan R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
S2/ M316	Kerusakan/Pelapukan	P		P	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓					
S2/ M317	Kerusakan/Pelapukan		R				✓	✓			✓	✓	✓	✓	✓		✓			

[illegible]

S2/ M370	Pelapukan						✓	✓				✓										
S2/ M371	Pelapukan						✓	✓				✓										
S2/ M372	Kerusakan/Pelapukan		R				✓	✓				✓									✓	
S2/ M373	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓			✓	
S2/ M374	Kerusakan/Pelapukan		P dan R	P dan R			✓	✓	✓	✓	✓	✓	✓		✓			✓			✓	
S2/ M375	Kerusakan/Pelapukan		P dan M	P			✓	✓	✓	✓	✓	✓	✓				✓	✓		✓	✓	
S2/ M376	Kerusakan/Pelapukan		R						✓	✓		✓	✓					✓			✓	
S2/ M377	Kerusakan/Pelapukan			P					✓	✓	✓	✓	✓								✓	
S2/ M378	Kerusakan/Pelapukan		P	M			✓	✓	✓	✓		✓	✓					✓			✓	
S2/ M379	Kerusakan/Pelapukan		P	M			✓	✓	✓	✓		✓	✓					✓			✓	
S2/ M380	Kerusakan/Pelapukan		P	P				✓	✓	✓	✓	✓	✓					✓			✓	
S2/ M381	Kerusakan/Pelapukan		R				✓	✓	✓	✓		✓	✓					✓			✓	
S2/ M382	Kerusakan/Pelapukan	R	R								✓	✓	✓					✓				
S2/ M383	Kerusakan/Pelapukan	P	R	M	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓		✓		
S2/ M384	Pelapukan			M			✓	✓	✓	✓		✓	✓				✓	✓		✓		
S2/ M385	Kerusakan		P	P			✓	✓	✓	✓												
S2/ M386	Kerusakan/Pelapukan		R				✓	✓	✓	✓		✓	✓				✓	✓		✓		
S2/ M387	Kerusakan/Pelapukan	P	R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
S2/ M388	Kerusakan/Pelapukan	P	R	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
S2/ M389	Kerusakan/Pelapukan	P	R				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
S2/ M390	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓		✓	✓	✓			✓	✓		✓		
S2/ M391	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓		✓	✓	✓			✓	✓		✓		
S2/ M392	Kerusakan/Pelapukan	P		R	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓		✓	✓	
S2/ M393	Kerusakan/Pelapukan	P	P	P			✓	✓	✓	✓	✓	✓	✓				✓	✓		✓		
S2/ M394	Kerusakan/Pelapukan	P	P	P			✓	✓	✓	✓		✓	✓				✓	✓		✓	✓	
S2/ M395	Kerusakan/Pelapukan	P	R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓		
S2/ M396	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	
S2/ M397	Kerusakan/Pelapukan	P	R	M dan R			✓	✓	✓	✓	✓	✓	✓		✓			✓		✓	✓	
S2/ M398	Kerusakan/Pelapukan		R	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
S2/ M399	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
S2/ M400	Kerusakan/Pelapukan		P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
S2/ M401	Kerusakan/Pelapukan	P	R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
S2/ M402	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
S2/ M403	Kerusakan/Pelapukan		P				✓	✓	✓	✓		✓	✓	✓			✓	✓				
S2/ M404	Kerusakan/Pelapukan			P			✓	✓	✓	✓	✓	✓	✓	✓			✓	✓			✓	
S2/ M405	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓			✓	
S2/ M406	Kerusakan/Pelapukan		R	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓			✓	
S2/ M407	Kerusakan/Pelapukan			M			✓	✓	✓	✓	✓	✓	✓				✓	✓			✓	
S2/ M408	Kerusakan/Pelapukan		R				✓	✓	✓		✓	✓	✓				✓	✓		✓		
S2/ M409	Kerusakan/Pelapukan	P		P	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓		
S2/ M410	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓		✓		
S2/ M411	Kerusakan/Pelapukan	M	P dan R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓		
S2/ M412	Kerusakan/Pelapukan	P	P				✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓		
S2/ M413	Kerusakan/Pelapukan		R dan P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓	✓	
S2/ M414	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓				✓	✓		✓		
S2/ M415	Kerusakan/Pelapukan	P	P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓			✓	
S2/ M416	Kerusakan/Pelapukan	P	P dan R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓		
S2/ M417	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓		✓	✓					✓			✓	
S2/ M418	Kerusakan/Pelapukan		P dan R	P			✓	✓	✓	✓		✓	✓				✓	✓		✓	✓	
S2/ M419	Kerusakan/Pelapukan		R				✓	✓	✓	✓		✓	✓				✓	✓		✓		
S2/ M420	Kerusakan/Pelapukan		P dan R	P			✓	✓	✓	✓		✓	✓				✓	✓		✓		

S2/ M421	Kerusakan/Pelapukan		R	R			✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
S2/ M422	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
S2/ M423	Kerusakan/Pelapukan	M	R	P dan R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M424	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M425	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
S2/ M426	Kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M427	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
S2/ M428	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M429	Kerusakan/Pelapukan	R	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M430	Pelapukan			P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M431	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M432	Kerusakan/Pelapukan	P	P dan R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
S2/ M433	Kerusakan/Pelapukan			P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M434	Kerusakan/Pelapukan	P	P dan R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M435	Kerusakan/Pelapukan		R	P dan M			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M436	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M437	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M438	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
S2/ M439	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M440	Kerusakan/Pelapukan		R	R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M441	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M442	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M443	Kerusakan/Pelapukan	P	P		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M444	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M445	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M446	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M447	Kerusakan/Pelapukan		P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M448	Pelapukan				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
S2/ M449	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M450	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M451	Kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		
S2/ M452	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M453	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M454	Kerusakan/Pelapukan		R				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M455	Kerusakan/Pelapukan			M			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M456	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
S2/ M457	Kerusakan/Pelapukan	M	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M458	Pelapukan				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
S2/ M459	Pelapukan																				✓
S2/ M460	Kerusakan/Pelapukan		P				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M461	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
S2/ M462	Kerusakan/Pelapukan		P		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M463	Kerusakan/Pelapukan		M				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M464	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M465	Kerusakan/Pelapukan		P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
S2/ M466	Kerusakan/Pelapukan		P dan R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
S2/ M467	Kerusakan/Pelapukan	M	P		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
S2/ M468	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
S2/ M469	Kerusakan/Pelapukan	P	P	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M470	Kerusakan/Pelapukan		R	P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
S2/ M471	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓

S2/ M472	Kerusakan/Pelapukan	P		P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M473	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M474	Kerusakan/Pelapukan		R	P					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M475	Pelapukan				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M476	Pelapukan						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M477	Kerusakan/Pelapukan	P	R	R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M478	Kerusakan/Pelapukan	P	R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M479	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M480	Kerusakan/Pelapukan		R	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M481	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M482	Pelapukan				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M483	Kerusakan/Pelapukan	P	R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M484	Kerusakan/Pelapukan		R	P					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M485	Pelapukan				✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M486	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M487	Kerusakan/Pelapukan		R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M488	Pelapukan						✓	✓	✓					✓				✓				
S2/ M489	Pelapukan						✓	✓	✓					✓								
S2/ M490	Pelapukan				✓	✓	✓	✓	✓	✓				✓								
S2/ M491	Kerusakan/Pelapukan		P	R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M492	Kerusakan/Pelapukan	P	R	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M493	Kerusakan/Pelapukan			R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M494	Pelapukan						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M495	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M496	Pelapukan				✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S2/ M497	Kerusakan/Pelapukan		R		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Keterangan :

P : Patah

R : Retak

M : Miring

PL : Pengelupasan

LK : Lumut Kering

LB : Lumut Basah

J : Jamur

Tabel 2. Rincian persentase Kerusakan Kompleks Makam I Sabbelo'mo Daeng Takontu

Kategori Kerusakan				Kategori Pelapukan																	
Keterangan	Nisan	Jirat	Gunungan	Fisis						Khemis			Biologis								
				Nisan		Jirat		Gunungan		Nisan	Jirat	Gunungan	Nisan			Jirat			Gunungan		
				Aus	PL	Aus	PL	Aus	PL				LK	LB	J	LK	LB	J	LK	LB	J
Patah (P)	122	140	182																		
Miring (M)	25	7	90																		
Retak (R)	3	224	37																		
TOTAL	150	371	309	357	223	468	457	406	399	267	467	417	124	170	1	191	436	4	230	273	2
PERSENTASE (%) KERUSAKAN DAN PELAPUKAN	30,18%	74,65%	62,17%	71,83%	44,87%	94,16%	91,95%	81,69%	80,28%	53,72%	93,96%	83,90%	24,95%	34,21%	0,20%	38,43%	87,73%	0,80%	46,28%	54,93%	0,40%

Tabel 3. Rincian persentase kerusakan sektor 1 Kompleks Makam I Sabbelo'mo Daeng Takontu

Keterangan	Kategori Kerusakan									Kategori Pelapukan											
	Mekanis			Fisis						Khemis			Biologis								
	Nisan	Jirat	Gunungan	Nisan		Jirat		Gunungan					Nisan			Jirat			Gunungan		
				Aus	PL	Aus	PL	Aus	PL	Nisan	Jirat	Gunungan	LK	LB	J	LK	LB	J	LK	LB	J
Patah (P)	60	73	78																		
Miring (M)	20	6	66																		
Retak (R)		153	23																		
TOTAL	80	232	167	215	97	220	213	190	188	119	227	200	77	67	0	109	210	0	125	135	0
PERSENTASE KERUSAKAN DAN PELAPUKAN (%)	16,10%	46,68%	33,60%	43,26%	19,52%	44,27%	42,86%	38,23%	37,83%	23,94%	45,67%	40,24%	15,49%	13,48%	0,00%	21,93%	42,25%	0,00%	25,15%	27,16%	0,00%

Tabel 4. Rincian persentase kerusakan sektor 2 Kompleks Makam I Sabbelo'mo Daeng Takontu

Keterangan	Kategori Kerusakan										Kategori Pelapukan										
	Mekanis			Fisis						Khemis			Biologis								
	Nisan	Jirat	Gunungan	Nisan		Jirat		Gunungan					Nisan			Jirat			Gunungan		
				Aus	PL	Aus	PL	Aus	PL	Nisan	Jirat	Gunungan	LK	LB	J	LK	LB	J	LK	LB	J
Patah (P)	62	67	104																		
Miring (M)	5	1	24																		
Retak (R)	3	71	14																		
TOTAL	70	139	142	142	126	248	244	216	211	148	240	217	47	103	1	82	226	4	105	138	2
PERSENTASE KERUSAKAN DAN PELAPUKAN (%)	14,08%	27,97%	28,57%	28,57%	25,35%	49,90%	49,09%	43,46%	42,45%	29,78%	48,29%	43,66%	9,46%	20,72%	0,20%	16,50%	45,47%	0,80%	21,13%	27,77%	0,40%