

Report Date: 04/07/2020

Week: 27-2020

Number: 006

Period: 27/06/2020 to 3/07/2020

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
Contract number : AGR(471)-PIDS2/PRIV/2019/194
Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-6
Contractor : Boskalis Westminster Contracting Ltd
Client : Ministry of National Planning and Infrastructure
Attention : shaana.farooq@planning.gov.mv

NTU - TSS Relationship	Correlation coefficient (NTU:TSS)	Monitoring equipment	TSS limit (mg/L)	Converted limit NTU	Limit applicability
	1.92	Eureka Manta	10	5.2	Maintain a threshold level for turbidity at all reefs within the atoll lagoon in proximity to the dredging site, measured as Total Suspended Solids (TSS) to a maximum of 10 mg/L not exceeding 20% of the measurements. Exceptions shall be made where background rates exceeded the threshold level and in reefs where extensive reclamation work has been undertaken (including e.g. Thilafushi, Gulhifalhu, Villigili, Malé, Hulhumalé). Considerations also shall be made to account for naturally elevated levels of turbidity which may occur during storm events or bad weather.

Activities	Activities and other observations
	Insitu waterquality measurements and sampling performed. No unexpected values or exceedances. Plume monitoring. TSS Analysis. CDE retrieved and replaced sediment traps at T2, T4, T6, T7, T11, T19, T20, T21, T23 & T24. Preparing environmental report. Calibration of water quality sensor.

Mitigation	Corrective actions taken if necessary
	Bund construction itself is a mitigating measure, to contain reclamation sediment. EcoCoast silt screens relocation to the inside northern end of the bund (Refer to document: "462-10042-BWC-SHE-QS-012 Gulhifalhu Reclamation - Silt screen installation plan rev02" for more information).

Measurements	Measurements
	Measurements are taken using a Eureka Manta Multiparameter probe. The EIA requires measurements and water sample at the surface, at approximately 1 meter depth. For completeness, two additional depths are measured; 'bottom' and 'mid-water'. The 'bottom' measurement is taken at either: - The maximum depth the probe will go to on a 30m cable (dependent on currents), or 90% of the water column if water depth is < 30m The 'mid-water' measurement is taken at approximately 0.5 * the 'bottom' depth Eureka Manta Turbidity sensor has an accuracy of 2% of reading or 0.2 (https://www.waterprobes.com/water-quality-sensor-specifications). Therefore, negative readings of up until -0.2 NTU indicate no turbidity.

Calibration			
	Eureka Manta Multiparameter probe		
	S/N: MT12183556	Calibration Date: 01/07/2020	Status: Used for measurements
	S/N: MT12183554	Calibration Date: N/A	Status: Spare

Locations	Location ID	Description
	W2	Reclamation
	W5	
	W7	
	W10	
	W11	
	W14	Villigili
	W15	
	W16	
	W19	Background
	W20	Borrow area
	W25	
	W26	
	W27	Background
	W36	Borrow area
	W45	
	W46	
	W47	
	W51	



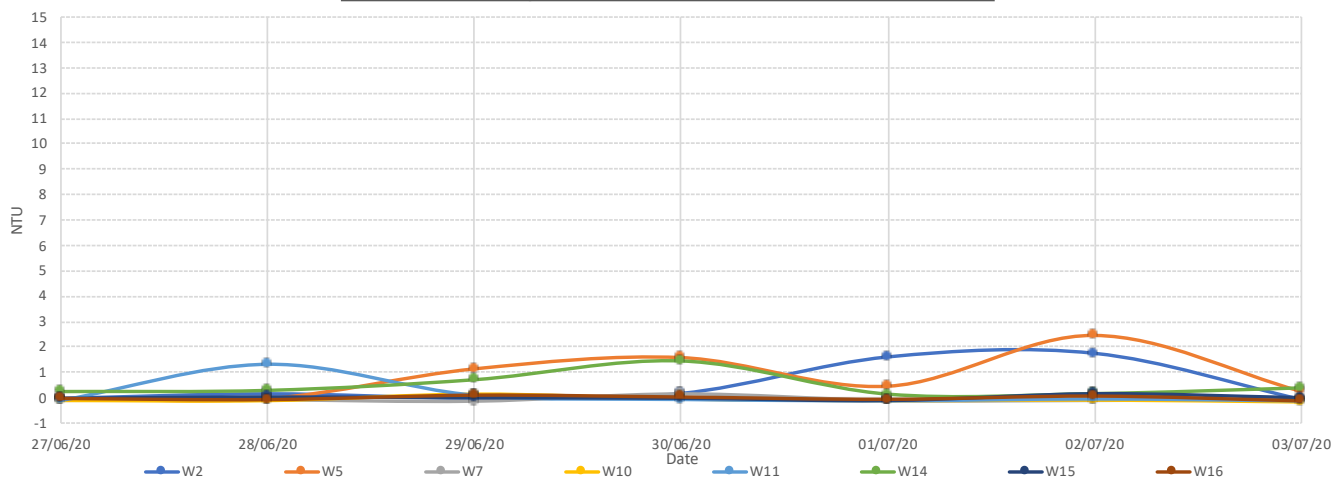
Signed by Contractor

Signed by Client

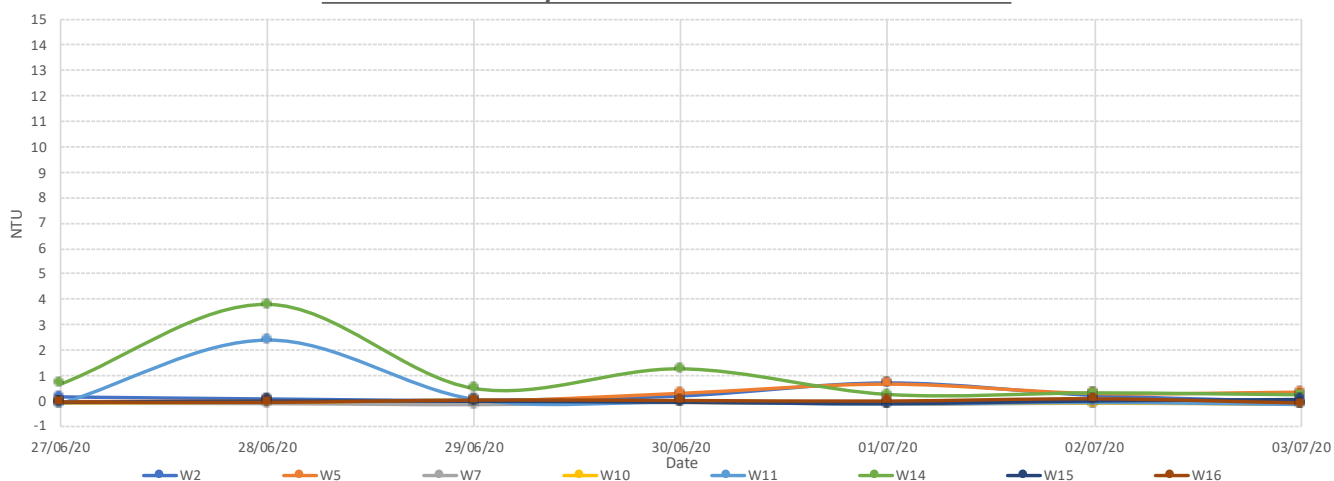
Report Date: 04/07/2020 Week: 27-2020 Period: 27/06/2020 to 03/07/2020

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu	Document number : 462.10062-WQR-6.2
Contract number : AGR(471)-PIDS2/PRIV/2019/194	Contractor : Boskalis Westminster Contracting Ltd
Project number [MIAS] : 462.10042	Client : Ministry of National Planning and Infrastructure
	Attention : shaana.farooq@planning.gov.mv

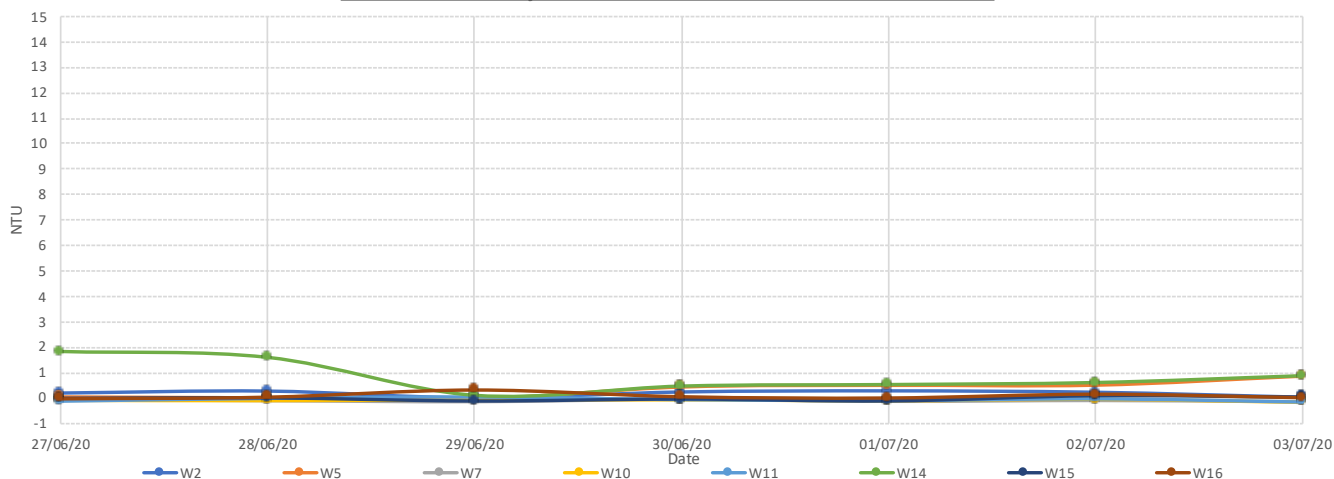
Surface Turbidity Measurements at the Reclamation Area



Mid Water Turbidity Measurements at the Reclamation Area



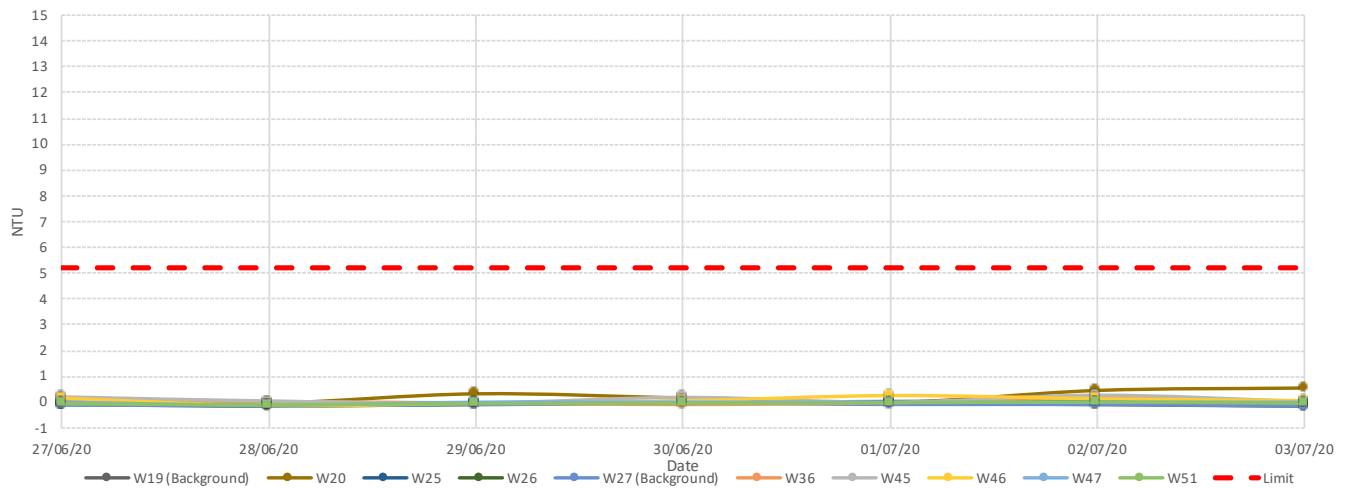
Bottom Turbidity Measurements at the Reclamation Area



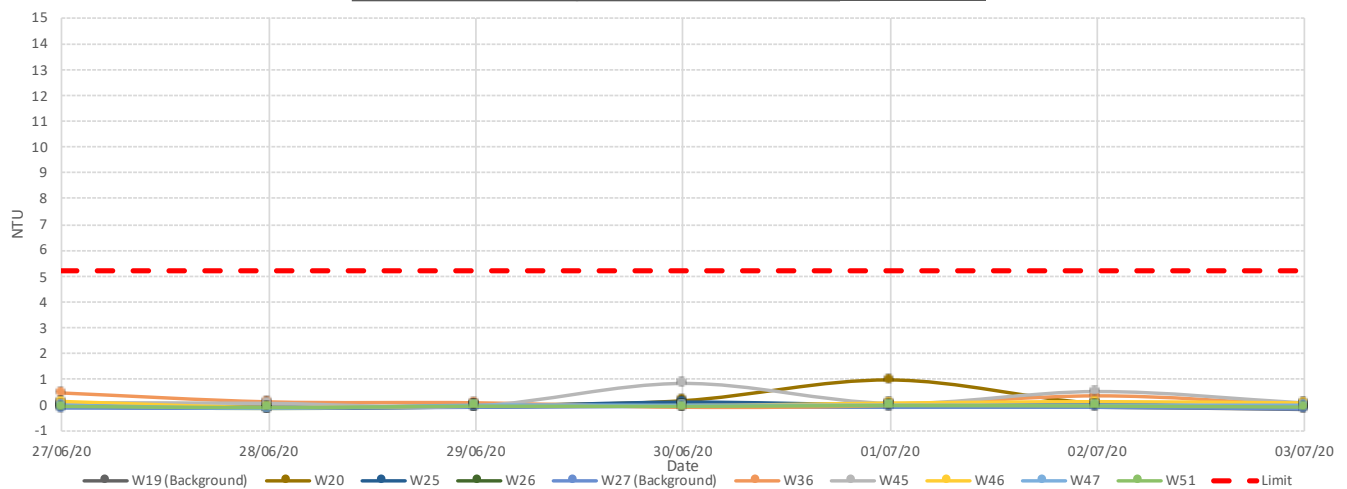
Period: 27/06/2020 to 03/07/2020

Document number : 462.10062-WQR-6.3
Contractor : Boskalis Westminster Contracting Ltd
Client : Ministry of National Planning and Infrastructure
Attention : shaana.farooq@clanning.gov.my

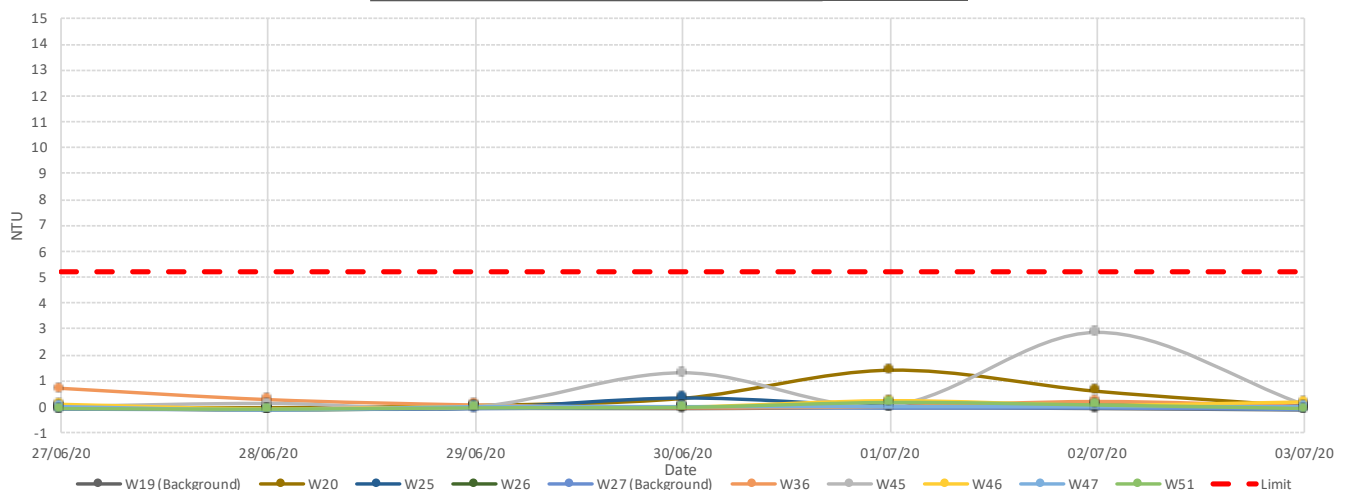
Surface Turbidity Measurements at the Borrow Area



Mid Water Turbidity Measurements at the Borrow Area



Bottom Turbidity Measurements at the Borrow Area



Date: 27/06/2020

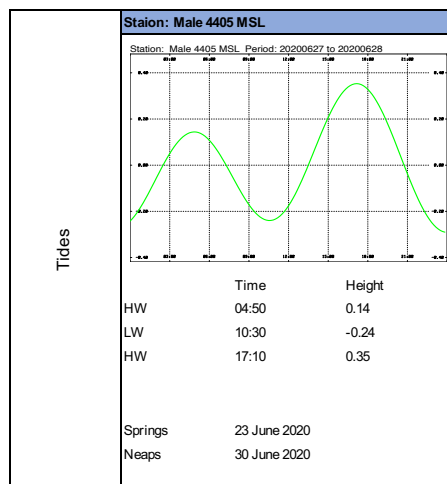
Time: 09:00 - 16:37

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
 Contract number : AGR(471)-PIDS2/PRIV/2019/194
 Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-6.4
 Contractor : Boskalis Westminster Contracting Ltd
 Client : Ministry of National Planning and Infrastructure
 Attention : shaana.farooq@planning.gov.mv

Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
W2	Surface	1	29.7	9.2	52933	-0.03
	Mid-water	9	29.5	9.2	52866	0.16
	Bottom	23	29.4	9.2	52843	0.20
W5	Surface	1	29.4	8.8	52867	-0.03
	Mid-water	9	29.4	8.8	52848	-0.02
	Bottom	17	29.4	8.8	52804	0.05
W7	Surface	1	29.4	9.1	52873	-0.11
	Mid-water	10	29.4	9.1	52860	-0.09
	Bottom	24	29.4	9.0	52820	-0.05
W10	Surface	1	29.5	9.2	52877	-0.11
	Mid-water	11	29.4	9.2	52829	-0.07
	Bottom	23	29.4	9.2	52805	-0.08
W11	Surface	1	29.4	9.2	52869	-0.11
	Mid-water	9	29.4	9.2	52826	-0.10
	Bottom	24	29.4	9.1	52832	-0.12
W14	Surface	1	29.6	9.3	52953	0.24
	Mid-water	7	29.4	9.3	52926	0.67
	Bottom	15	29.3	9.2	52883	1.84
W15	Surface	1	29.4	8.9	52762	-0.03
	Mid-water	10	29.4	8.9	52779	-0.05
	Bottom	23	29.4	8.9	52761	-0.01
W16	Surface	1	29.4	9.2	52897	-0.03
	Mid-water	11	29.4	9.2	52864	-0.04
	Bottom	23	29.4	9.2	52839	-0.03
W19	Surface	1	29.6	9.3	52849	-0.09
	Mid-water	10	29.4	9.3	52826	-0.07
	Bottom	21	29.4	9.2	52817	-0.08
W20	Surface	1	29.7	9.3	52917	-0.08
	Mid-water	7	29.6	9.3	52898	-0.02
	Bottom	17	29.6	9.3	52858	-0.01
W25	Surface	1	29.6	9.2	52844	-0.07
	Mid-water	10	29.4	9.2	52773	-0.01
	Bottom	23	29.4	9.2	52789	-0.08
W26	Surface	1	29.5	9.2	53016	-0.09
	Mid-water	10	29.3	9.2	52921	-0.07
	Bottom	24	29.3	9.2	52887	-0.09
W27	Surface	1	29.5	9.3	53022	-0.11
	Mid-water	9	29.3	9.2	52970	-0.11
	Bottom	22	29.2	9.2	52940	-0.10
W36	Surface	1	29.5	9.2	53048	0.06
	Mid-water	11	29.4	9.2	52983	0.47
	Bottom	24	29.3	9.2	52972	0.71
W45	Surface	1	29.6	9.2	53056	0.21
	Mid-water	9	29.5	9.2	53005	0.10
	Bottom	24	29.3	9.2	52966	0.01
W46	Surface	1	29.6	9.3	53009	0.16
	Mid-water	11	29.6	9.3	52976	0.15
	Bottom	22	29.5	9.3	52968	0.09
W47	Surface					
	Mid-water					
	Bottom					
W51	Surface	1	29.6	9.2	52872	-0.06
	Mid-water	10	29.3	9.2	52838	-0.05
	Bottom	23	29.3	9.2	52802	-0.08

Stoppages	Vessel	Stop	Start
	BHD Colbart		
	TSHD Fairway		



Unable to complete location W47, informed by the Marine Police that the environmental boat doesn't have permission to be in the area. A permit is currently being looked into.

Weather

UTC	WX	Winds						Waves						Vis	Clouds	Temp			
		10m				50m		Wind Wave		Swell			Wave			10m	Lowest	Air	
		Dir	Spd (kts)	Gust (kts)	Risk (kts)	Spd (kts)	Gust (kts)	Hgt (m)	Per (sec)	Dir	Hgt (m)	Per (sec)	Hsig (m)	Max (m)	Risk (m)	(nm)	(ft)	(degC)	
		Saturday, 27 Jun 2020 - Maldives Project 04°11'N 073°28'E																	
03	SHRA	W	12	16	-	13	18	0.4	2	WSW	1.1	9	1.2	2.0	-	3-5	3500	29	
06	NSW	W	11	15	-	12	16	0.4	2	WSW	1.0	9	1.1	1.9	-	>5	3500	29	
09	NSW	WNW	12	16	-	13	18	0.6	3	SW	1.0	9	1.2	1.9	-	>5	3500	29	
12	NSW	WNW	13	18	-	14	19	0.6	4	SW	1.0	9	1.2	1.9	-	>5	3500	29	
15	NSW	WNW	12	17	-	13	17	0.5	3	SW	1.0	9	1.1	1.9	-	>5	3500	29	
18	SHRA	WNW	13	18	-	14	18	0.6	4	SW	1.0	9	1.2	1.9	-	3-5	3500	29	
21	SHRA	WNW	14	19	-	15	20	0.7	4	SW	1.0	10	1.2	2.0	-	3-5	3500	28	

Date: 28/06/2020

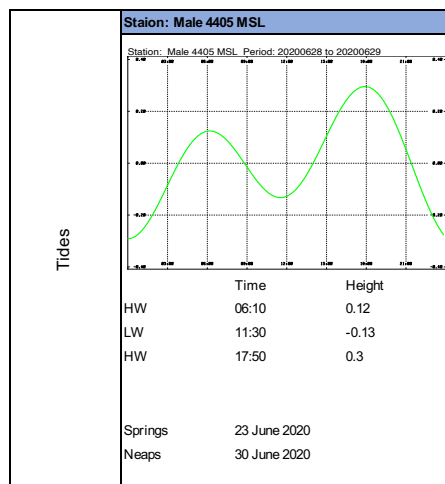
Time: 12:00 - 18:35

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
 Contract number : AGR(471)-PIDS2/PRIV/2019/194
 Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-6.5
 Contractor : Boskalis Westminster Contracting Ltd
 Client : Ministry of National Planning and Infrastructure
 Attention : shaana.farooq@planning.gov.mv

Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
W2	Surface	1	29.7	9.2	53231	0.15
	Mid-water	9	29.4	9.2	53199	0.08
	Bottom	25	29.4	9.2	53170	0.28
W5	Surface	1	29.4	9.2	53280	-0.04
	Mid-water	10	29.4	9.2	53234	0.00
	Bottom	24	29.3	9.2	53190	0.01
W7	Surface	1	29.7	9.2	53220	-0.09
	Mid-water	10	29.6	9.3	53188	-0.10
	Bottom	22	29.5	9.3	53172	-0.10
W10	Surface	1	29.6	9.3	53262	-0.12
	Mid-water	10	29.5	9.3	53198	-0.05
	Bottom	21	29.4	9.2	53173	-0.10
W11	Surface	1	29.8	9.2	51156	1.32
	Mid-water	9	29.4	9.2	52867	2.40
	Bottom	23	29.3	9.2	53182	-0.01
W14	Surface	1	29.8	9.3	53297	0.29
	Mid-water	5	29.5	9.2	53254	3.80
	Bottom	12	29.3	9.2	53241	1.61
W15	Surface	1	29.4	9.1	53206	0.03
	Mid-water	9	29.3	9.1	53181	0.00
	Bottom	25	29.3	9.1	53164	0.01
W16	Surface	2	29.7	9.2	53206	-0.08
	Mid-water	7	29.7	9.2	53164	-0.05
	Bottom	19	29.6	9.1	53151	0.04
W19	Surface	1	29.5	9.1	53246	-0.12
	Mid-water	9	29.4	9.2	53215	-0.11
	Bottom	20	29.4	9.2	53177	-0.11
W20	Surface	1	29.6	9.2	53204	-0.05
	Mid-water	9	29.5	9.2	53185	-0.09
	Bottom	21	29.5	9.2	53133	-0.04
W25	Surface	0	29.5	9.2	53159	-0.08
	Mid-water	10	29.5	9.2	53134	-0.08
	Bottom	22	29.4	9.2	53127	-0.10
W26	Surface	1	29.5	9.2	53197	-0.15
	Mid-water	10	29.5	9.2	53171	-0.13
	Bottom	21	29.5	9.2	53194	-0.09
W27	Surface	1	29.5	9.1	53181	-0.13
	Mid-water	10	29.5	9.1	53155	-0.12
	Bottom	23	29.5	9.1	53127	-0.12
W36	Surface	1	29.5	9.1	53223	0.03
	Mid-water	10	29.4	9.1	53176	0.13
	Bottom	23	29.3	9.0	53164	0.27
W45	Surface	2	29.5	9.1	53222	0.05
	Mid-water	10	29.5	9.1	53190	0.07
	Bottom	22	29.5	9.1	53154	0.12
W46	Surface	1	29.5	9.1	53211	-0.13
	Mid-water	10	29.5	9.2	53157	-0.09
	Bottom	21	29.4	9.2	53157	-0.09
W47	Surface	1	29.5	9.1	53199	-0.12
	Mid-water	9	29.5	9.1	53201	-0.12
	Bottom	20	29.5	9.2	53144	-0.13
W51	Surface	1	29.6	9.2	53154	-0.10
	Mid-water	10	29.5	9.2	53147	-0.09
	Bottom	22	29.3	9.2	53104	-0.10

Vessel	Stop	Start



Unable to complete location W47, informed by the Marine Police that the environmental boat doesn't have permission to be in the area. A permit is currently being looked into.

Weather

Time	WX	Winds						Waves						Vis	Clouds	Temp		
UTC		10m				50m		Wind Wave		Swell			Wave			10m	Lowest	Air
		Dir	Spd (kts)	Gust (kts)	Risk (kts)	Spd (kts)	Gust (kts)	Hgt (m)	Per (sec)	Dir	Hgt (m)	Per (sec)	Hs (m)	Max (m)	Risk (m)	(nm)	(ft)	(degC)
Sunday, 28 Jun 2020 - Maldives Project 04°11'N 073°28'E																		
03	TS	WNW	12	24	27	13	26	0.5	3	SSW	1.1	10	1.2	2.0	-	3-5	3500	28
06	SHRA	WNW	12	16	-	13	17	0.6	3	SW	1.1	10	1.3	2.1	-	3-5	3500	28
09	NSW	WNW	13	17	-	13	18	0.5	3	SW	1.2	10	1.3	2.1	-	>5	3500	29
12	NSW	WNW	14	19	-	15	20	0.6	4	SSW	1.2	10	1.3	2.1	-	>5	3500	29
15	NSW	WNW	15	20	-	16	22	0.7	4	SSW	1.1	10	1.3	2.2	-	>5	3500	29
18	NSW	WNW	14	19	-	15	20	0.7	4	SSW	1.1	10	1.3	2.2	-	>5	3500	29
21	SHRA	WNW	14	19	-	15	20	0.7	4	SW	1.1	9	1.3	2.2	-	3-5	3500	29

Date: 29/06/2020

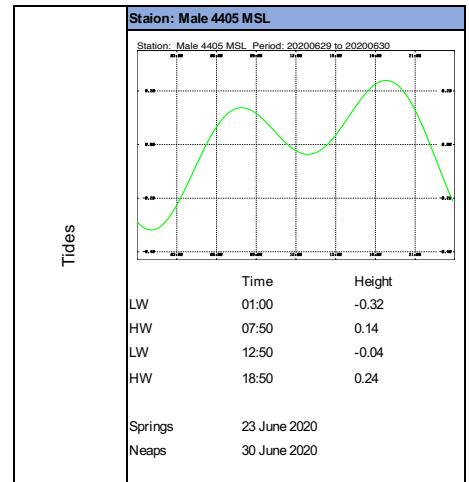
Time: 10:32 - 15:15

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
Contract number : AGR(471)-PIDS2/PRIV/2019/194
Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-6.6
Contractor : Boskalis Westminster Contracting Ltd
Client : Ministry of National Planning and Infrastructure
Attention : shaana.farooq@planning.gov.mv

Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
W2	Surface	1	29.6	9.1	52696	-0.01
	Mid-water	11	29.5	9.2	52676	0.03
	Bottom	18	29.5	9.2	52662	0.01
W5	Surface	1	29.6	9.1	52741	1.13
	Mid-water	10	29.4	9.0	52756	-0.02
	Bottom	21	29.4	9.0	52697	-0.03
W7	Surface	1	29.6	9.3	52807	-0.14
	Mid-water	10	29.5	9.4	52760	-0.14
	Bottom	20	29.5	9.3	52762	-0.14
W10	Surface	1	29.6	9.2	52834	0.14
	Mid-water	10	29.5	9.3	52775	0.03
	Bottom	23	29.5	9.3	52744	-0.07
W11	Surface	1	29.7	9.3	52780	0.10
	Mid-water	10	29.5	9.4	52726	0.07
	Bottom	24	29.4	9.4	52730	0.05
W14	Surface	2	29.7	9.1	52728	0.71
	Mid-water	7	29.5	9.2	52674	0.50
	Bottom	14	29.4	9.1	52699	0.11
W15	Surface	1	29.5	9.2	52736	-0.01
	Mid-water	9	29.5	9.3	52706	-0.01
	Bottom	22	29.5	9.2	52682	-0.11
W16	Surface	1	29.7	9.1	52812	0.10
	Mid-water	10	29.4	9.0	52785	0.04
	Bottom	21	29.4	9.0	52773	0.32
W19	Surface	1	29.6	9.3	52814	-0.08
	Mid-water	10	29.5	9.3	52802	-0.07
	Bottom	21	29.4	9.3	52787	-0.07
W20	Surface	1	30.1	9.3	52816	0.32
	Mid-water	10	29.4	9.2	52721	-0.01
	Bottom	23	29.4	9.3	52696	0.05
W25	Surface	1	29.7	9.3	52810	-0.06
	Mid-water	10	29.4	9.3	52723	-0.05
	Bottom	23	29.4	9.3	52710	-0.06
W26	Surface	1	29.7	9.3	52820	-0.09
	Mid-water	11	29.7	9.3	52799	-0.07
	Bottom	23	29.7	9.3	52775	-0.07
W27	Surface	1	29.6	9.2	52828	-0.10
	Mid-water	10	29.6	9.2	52824	-0.08
	Bottom	23	29.5	9.2	52779	-0.08
W36	Surface	1	29.6	9.2	52838	-0.03
	Mid-water	10	29.5	9.2	52804	0.09
	Bottom	24	29.4	9.2	52773	0.06
W45	Surface	1	29.6	9.1	52800	-0.04
	Mid-water	10	29.6	9.0	52778	-0.03
	Bottom	24	29.4	9.2	52757	-0.01
W46	Surface	1	29.7	9.1	52785	-0.04
	Mid-water	10	29.7	9.1	52762	-0.02
	Bottom	23	29.6	9.1	52720	0.01
W47	Surface					
	Mid-water					
	Bottom					
W51	Surface	1	29.7	9.2	52781	-0.06
	Mid-water	10	29.6	9.3	52738	-0.04
	Bottom	22	29.4	9.3	52710	-0.05

Stoppages	Vessel	Stop	Start
	TSHD Fairway		



Remarks
Unable to complete location W47, informed by the Marine Police that the environmental boat doesn't have permission to be in the area. A permit is currently being looked into.

Weather

Time	WX	Winds						Waves						Vis	Clouds	Temp		
		10m			50m		Wind Wave		Swell		Wave			10m	Lowest	Air		
UTC		Dir	Spd (kts)	Gust (kts)	Risk (kts)	Spd (kts)	Gust (kts)	Hgt (m)	Per (sec)	Dir	Hgt (m)	Per (sec)	Hsig (m)	Max (m)	Risk (m)	(nm)	(ft)	(degC)
Monday, 29 Jun 2020 - Maldives Project 04°11'N 073°28'E																		
03	SHRA	W	11	15	-	11	15	0.4	3	SW	1.2	9	1.3	2.1	-	3-5	3500	28
06	NSW	W	11	15	-	11	16	0.4	3	SW	1.1	9	1.2	2.0	-	>5	3500	29
09	NSW	WNW	11	15	-	11	16	0.3	3	SW	1.1	9	1.1	1.9	-	>5	3500	29
12	NSW	WNW	11	15	-	11	15	0.3	3	SW	1.1	9	1.1	1.8	-	>5	3500	29
15	NSW	W	10	14	-	10	14	0.3	3	SW	1.0	9	1.0	1.7	-	>5	3500	29
18	NSW	W	10	14	-	10	14	0.3	3	SSW	1.0	9	1.0	1.7	-	>5	3500	29
21	NSW	W	10	14	-	10	14	0.4	3	SSW	1.0	9	1.1	1.8	-	>5	3500	28

Date: 30/06/2020

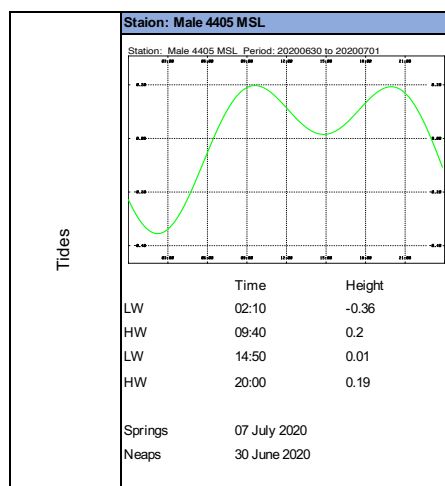
Time: 08:59 - 16:42

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
 Contract number : AGR(471)-PIDS2/PRIV/2019/194
 Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-6.7
 Contractor : Boskalis Westminster Contracting Ltd
 Client : Ministry of National Planning and Infrastructure
 Attention : shaana.farooq@planning.gov.mv

Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
W2	Surface	1	29.5	9.0	52778	0.17
	Mid-water	9	29.5	9.0	52701	0.20
	Bottom	20	29.4	9.0	52674	0.25
W5	Surface	1	30.0	9.1	52837	1.58
	Mid-water	10	29.5	9.1	52846	0.30
	Bottom	24	29.4	9.1	52840	0.44
W7	Surface	1	29.9	9.3	52877	0.15
	Mid-water	10	29.7	9.3	52911	-0.05
	Bottom	24	29.7	9.3	52832	-0.04
W10	Surface	1	29.7	9.2	52804	-0.05
	Mid-water	10	29.6	9.2	52760	-0.05
	Bottom	24	29.6	9.2	52766	-0.06
W11	Surface	1	29.8	9.2	52880	-0.07
	Mid-water	11	29.7	9.2	52829	-0.04
	Bottom	24	29.4	9.2	52761	-0.05
W14	Surface	1	29.6	9.1	52727	1.45
	Mid-water	7	29.5	9.0	52720	1.27
	Bottom	16	29.4	9.0	52712	0.48
W15	Surface	1	29.8	9.3	52882	-0.02
	Mid-water	10	29.7	9.3	52874	-0.05
	Bottom	24	29.6	9.3	52824	-0.03
W16	Surface	1	29.9	9.0	52833	0.02
	Mid-water	10	29.5	9.0	52760	0.02
	Bottom	23	29.5	9.0	52765	0.06
W19	Surface	1	30.1	9.0	52905	0.00
	Mid-water	10	29.6	8.9	52942	-0.04
	Bottom	24	29.6	8.9	52932	-0.08
W20	Surface	2	30.1	9.1	52855	0.16
	Mid-water	10	29.5	9.0	52786	0.17
	Bottom	24	29.4	9.0	52751	0.32
W25	Surface	2	30.1	9.1	52869	-0.02
	Mid-water	10	29.5	9.1	52778	0.12
	Bottom	22	29.5	9.0	52757	0.33
W26	Surface	1	30.1	9.1	52914	-0.03
	Mid-water	10	29.7	9.1	52816	0.00
	Bottom	23	29.5	9.1	52798	0.00
W27	Surface	1	29.9	9.2	52913	-0.04
	Mid-water	10	29.6	9.2	52856	-0.04
	Bottom	25	29.6	9.2	52823	-0.03
W36	Surface	2	29.7	9.0	52894	-0.09
	Mid-water	10	29.6	9.0	52827	-0.08
	Bottom	24	29.5	9.0	52782	-0.05
W45	Surface	1	29.8	9.1	52850	0.19
	Mid-water	10	29.6	9.1	52855	0.84
	Bottom	24	29.5	9.1	52825	1.31
W46	Surface	1	30.0	9.1	52886	0.05
	Mid-water	11	29.6	9.1	52850	-0.02
	Bottom	24	29.5	9.2	52828	-0.01
W47	Surface					
	Mid-water					
	Bottom					
W51	Surface	1	29.9	9.1	52815	-0.05
	Mid-water	10	29.5	9.0	52762	-0.05
	Bottom	24	29.5	9.0	52766	-0.03

Stoppages	Vessel	Stop	Start



Remarks
Unable to complete location W47, informed by the Marine Police that the environmental boat doesn't have permission to be in the area. A permit is currently being looked into.

Weather

Tuesday, 30 Jun 2020 - Maldives Project 04°11'N 073°28'E																		
Time	WX	Winds						Waves						Vis	Clouds	Temp		
UTC		Dir	10m			50m		Wind Wave		Swell			Wave			10m	Lowest	Air
			Spd (kts)	Gust (kts)	Risk (kts)	Spd (kts)	Gust (kts)	Hgt (m)	Per (sec)	Dir	Hgt (m)	Per (sec)	Hsig (m)	Max (m)	Risk (m)	(nm)	(ft)	(degC)
03	NSW	W	9	13	-	10	14	0.3	2	SSW	1.0	9	1.0	1.7	-	>5	3500	29
06	NSW	WSW	8	12	-	9	12	0.2	2	SSW	1.0	9	1.0	1.6	-	>5	3500	29
09	NSW	WSW	8	12	-	8	12	0.2	2	SSW	1.0	9	1.0	1.6	-	>5	3500	29
12	NSW	WSW	9	12	-	9	13	0.2	2	S	1.0	9	1.0	1.6	-	>5	3500	29
15	NSW	SW	8	12	-	8	12	0.2	2	S	1.0	9	1.0	1.6	-	>5	3500	29
18	NSW	SW	8	12	-	8	11	0.2	2	S	1.0	10	1.0	1.6	-	>5	3500	29
21	NSW	SW	8	12	-	8	11	0.2	2	S	1.0	9	1.0	1.6	-	>5	3500	29

Date: 01/07/2020

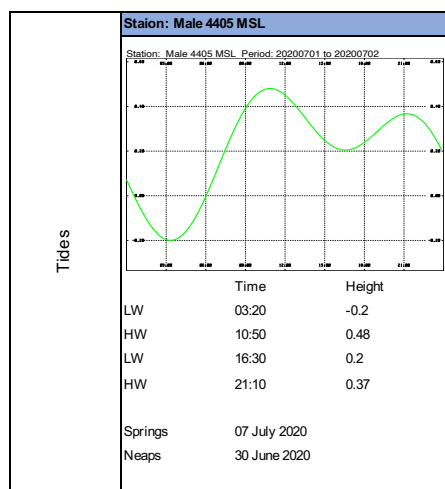
Time: 9:11 - 14:40

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
 Contract number : AGR(471)-PIDS2/PRIV/2019/194
 Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-6.8
 Contractor : Boskalis Westminster Contracting Ltd
 Client : Ministry of National Planning and Infrastructure
 Attention : shaana.farooq@planning.gov.mv

Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
W2	Surface	1	29.6	8.9	52795	1.61
	Mid-water	10	29.6	9.1	52790	0.71
	Bottom	24	29.5	9.0	52796	0.29
W5	Surface	1	29.6	9.0	52824	0.45
	Mid-water	10	29.6	9.1	52796	0.66
	Bottom	23	29.6	9.1	52778	0.51
W7	Surface	1	29.7	9.1	52883	-0.11
	Mid-water	11	29.6	9.1	52871	-0.12
	Bottom	24	29.5	9.1	52827	-0.12
W10	Surface	2	30.0	9.1	52935	-0.12
	Mid-water	10	29.7	9.1	52897	-0.10
	Bottom	24	29.7	9.1	52861	-0.10
W11	Surface	1	30.0	9.1	52948	-0.12
	Mid-water	11	29.8	9.1	52923	-0.11
	Bottom	22	29.8	9.1	52869	-0.09
W14	Surface	1	29.9	9.0	52801	0.14
	Mid-water	9	29.6	8.9	52767	0.26
	Bottom	18	29.6	8.9	52787	0.54
W15	Surface	1	29.7	9.0	52833	-0.11
	Mid-water	11	29.7	9.1	52790	-0.10
	Bottom	23	29.7	9.1	52770	-0.11
W16	Surface	2	29.7	9.1	53034	-0.07
	Mid-water	10	29.7	9.0	52983	0.00
	Bottom	18	29.6	9.0	52899	0.01
W19	Surface	1	30.2	9.1	53005	-0.04
	Mid-water	12	29.7	9.1	52964	-0.08
	Bottom	22	29.7	9.1	52950	-0.04
W20	Surface	1	29.7	9.0	52921	-0.01
	Mid-water	11	29.6	9.1	52854	0.98
	Bottom	22	29.5	9.1	52817	1.41
W25	Surface	1	30.1	9.0	52874	0.03
	Mid-water	10	29.7	9.0	52809	0.01
	Bottom	24	29.5	9.0	52772	0.03
W26	Surface	2	29.5	9.1	52812	-0.02
	Mid-water	11	29.5	9.2	52799	-0.03
	Bottom	24	29.4	9.1	52777	-0.02
W27	Surface	1	29.4	9.1	52877	-0.09
	Mid-water	11	29.4	9.2	52838	-0.08
	Bottom	23	29.3	9.2	52816	-0.06
W36	Surface	1	29.4	9.2	52832	-0.02
	Mid-water	11	29.4	9.1	52800	-0.01
	Bottom	24	29.4	9.3	52790	0.01
W45	Surface	1	29.9	9.2	52859	0.00
	Mid-water	10	29.7	9.2	52857	0.07
	Bottom	19	29.6	9.1	52837	0.04
W46	Surface	1	30.1	9.2	52839	0.26
	Mid-water	11	29.6	9.2	52817	0.08
	Bottom	24	29.5	9.2	52802	0.23
W47	Surface					
	Mid-water					
	Bottom					
W51	Surface	1	30.2	9.0	52914	-0.02
	Mid-water	11	29.8	9.0	52829	-0.01
	Bottom	24	29.5	9.0	52741	0.16

Stoppages	Vessel	Stop	Start



Remarks	Unable to complete location W47, informed by the Marine Police that the environmental boat doesn't have permission to be in the area. A permit is currently being looked into.
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Weather

Wednesday, 01 Jul 2020 - Maldives Project 04°11'N 073°28'E																			
Time	WX	Winds						Waves						Vis	Clouds	Temp			
		10m			50m		Wind Wave		Swell			Wave			10m	Lowest	Air		
UTC		Dir	Spd (kts)	Gust (kts)	Risk (kts)	Spd (kts)	Gust (kts)	Hgt (m)	Per (sec)	Dir	Hgt (m)	Per (sec)	Hsig (m)	Max (m)	Risk (m)	(nm)	(ft)	(degC)	
03	NSW	SW	6	9	-	5	9	0.1	2	S	1.0	10	1.0	1.7	-	>5	3500	29	
06	NSW	SSW	5	8	-	5	8	0.1	2	S	1.0	10	1.0	1.7	-	>5	3500	29	
09	NSW	SW	5	8	-	4	7	0.0		S	1.0	10	1.0	1.6	-	>5	3500	29	
12	NSW	SW	5	8	-	4	7	0.0		S	1.0	10	1.0	1.6	-	>5	3500	29	
15	NSW	WSW	5	8	-	5	8	0.1	1	S	1.0	10	1.0	1.6	-	>5	3500	29	
18	NSW	SW	5	8	-	5	8	0.1	1	S	1.0	10	1.0	1.6	-	>5	3500	29	
21	NSW	SW	7	10	-	7	10	0.1	1	S	1.0	10	1.0	1.6	-	>5	3500	29	

Date: 02/07/2020

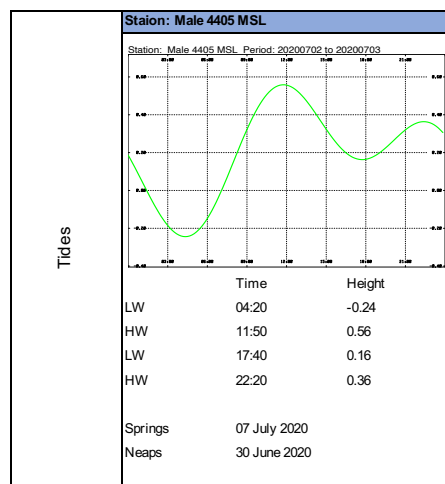
Time: 9:55-15:00

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
Contract number : AGR(471)-PIDS2/PRIV/2019/194
Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-6.9
Contractor : Boskalis Westminster Contracting Ltd
Client : Ministry of National Planning and Infrastructure
Attention : shaana.farooq@planning.gov.mv

Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
W2	Surface	1	30.0	7.5	53496	1.75
	Mid-water	8	29.6	7.7	53431	0.22
	Bottom	19	29.5	7.6	53400	0.23
W5	Surface	2	29.6	8.0	52218	2.45
	Mid-water	8	29.6	8.0	53355	0.30
	Bottom	17	29.5	8.0	53323	0.51
W7	Surface	1	29.9	8.1	53285	-0.11
	Mid-water	12	29.7	8.1	53269	-0.09
	Bottom	21	29.6	8.2	53265	-0.09
W10	Surface	1	30.0	8.1	53332	-0.09
	Mid-water	11	29.8	8.2	53308	-0.07
	Bottom	22	29.7	8.1	53311	-0.04
W11	Surface	1	29.9	8.2	53385	-0.05
	Mid-water	12	29.6	8.2	53362	-0.05
	Bottom	23	29.4	8.2	53365	-0.03
W14	Surface	1	30.1	7.6	53489	0.16
	Mid-water	8	29.8	7.4	53471	0.32
	Bottom	19	29.6	6.8	53372	0.62
W15	Surface	2	29.8	8.1	53337	0.16
	Mid-water	11	29.6	8.1	53332	0.00
	Bottom	24	29.5	8.1	53336	0.10
W16	Surface	1	29.7	8.2	53388	0.06
	Mid-water	11	29.6	8.2	53371	0.09
	Bottom	22	29.6	8.3	53370	0.16
W19	Surface	1	30.0	8.2	53504	-0.09
	Mid-water	12	29.7	8.3	53492	-0.08
	Bottom	21	29.7	8.3	53461	-0.08
W20	Surface	1	30.2	8.1	53451	0.46
	Mid-water	11	29.8	8.1	53382	0.07
	Bottom	23	29.7	8.1	53330	0.59
W25	Surface	1	30.1	8.3	53514	0.02
	Mid-water	11	29.9	8.3	53431	0.04
	Bottom	25	29.5	8.2	53352	0.11
W26	Surface	1	29.8	8.2	53470	-0.01
	Mid-water	10	29.5	8.2	53375	-0.04
	Bottom	23	29.4	8.2	53371	-0.05
W27	Surface	1	29.4	8.2	53395	-0.09
	Mid-water	11	29.4	8.2	53391	-0.08
	Bottom	22	29.4	8.2	53334	-0.05
W36	Surface	1	29.7	8.2	53362	0.17
	Mid-water	11	29.7	8.3	53348	0.36
	Bottom	24	29.6	8.3	53342	0.20
W45	Surface	1	29.6	8.2	53411	0.27
	Mid-water	11	29.6	8.2	53377	0.53
	Bottom	24	29.6	8.2	53351	2.87
W46	Surface	1	30.4	8.2	53538	0.13
	Mid-water	11	30.2	8.3	53472	0.14
	Bottom	24	29.6	8.3	53368	0.06
W47	Surface					
	Mid-water					
	Bottom					
W51	Surface	1	29.9	8.0	53455	0.01
	Mid-water	10	29.7	8.0	53390	-0.03
	Bottom	22	29.7	8.0	53365	0.06

Stoppages	Vessel	Stop	Start



Remarks

Unable to complete location W47, informed by the Marine Police that the environmental boat doesn't have permission to be in the area. A permit is currently being looked into.

Weather

Thursday, 02 Jul 2020 - Maldives Project 04°11'N 073°28'E																		
Time	WX	Winds						Waves						Vis	Clouds	Temp		
		10m			50m		Wind Wave		Swell			Wave			10m	Lowest	Air	
UTC		Dir	Spd (kts)	Gust (kts)	Risk (kts)	Spd (kts)	Gust (kts)	Hgt (m)	Per (sec)	Dir	Hgt (m)	Per (sec)	Hsig (m)	Max (m)	Risk (m)	(nm)	(ft)	(degC)
03	NSW	SSW	5	8	-	5	8	0.1	1	SSE	1.1	10	1.1	1.8	-	>5	3500	29
06	NSW	SW	6	9	-	6	9	0.1	1	SSE	1.1	10	1.1	1.8	-	>5	3500	29
09	SHRA	WSW	7	11	-	7	11	0.1	2	S	1.0	10	1.0	1.7	-	3-5	3500	28
12	SHRA	WSW	8	12	-	8	12	0.2	2	S	1.0	10	1.0	1.7	-	3-5	3500	28
15	NSW	WSW	8	12	-	9	13	0.2	2	S	1.0	10	1.0	1.6	-	>5	3500	29
18	NSW	WSW	7	11	-	8	11	0.2	2	S	1.0	9	1.0	1.6	-	>5	3500	28
21	NSW	WSW	8	11	-	8	12	0.2	2	SSW	1.0	9	1.0	1.6	-	>5	3500	28

Date: 03/07/2020

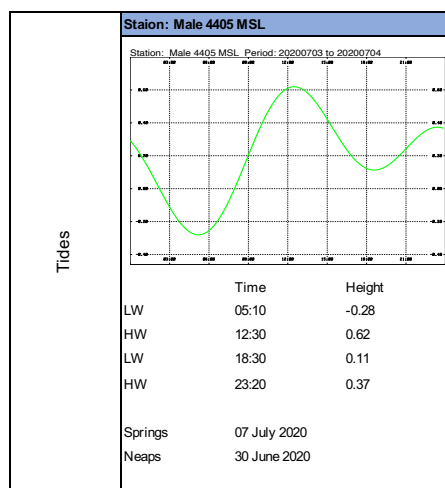
Time: 09:25-13:53

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
Contract number : AGR(471)-PIDS2/PRIV/2019/194
Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-6.10
Contractor : Boskalis Westminster Contracting Ltd
Client : Ministry of National Planning and Infrastructure
Attention : shaana.farooq@planning.gov.mv

Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
W2	Surface	1	29.7	8.0	53483	-0.07
	Mid-water	10	29.6	8.0	53458	-0.02
	Bottom	23	29.6	7.9	53477	0.04
W5	Surface	1	29.7	8.0	53483	0.24
	Mid-water	11	29.6	8.1	53445	0.35
	Bottom	24	29.5	8.0	53420	0.87
W7	Surface	1	29.6	7.8	53470	-0.07
	Mid-water	11	29.6	8.0	53447	-0.12
	Bottom	24	29.5	7.9	53425	-0.14
W10	Surface	1	29.6	8.0	53480	-0.17
	Mid-water	11	29.6	8.1	53450	-0.13
	Bottom	24	29.6	8.2	53430	-0.16
W11	Surface	1	29.7	8.1	53470	-0.13
	Mid-water	11	29.6	8.2	53436	-0.14
	Bottom	22	29.6	8.1	53434	-0.15
W14	Surface	1	29.8	7.8	53481	0.39
	Mid-water	9	29.8	7.8	53545	0.25
	Bottom	19	29.7	7.7	53531	0.88
W15	Surface	1	29.7	8.1	53450	0.00
	Mid-water	11	29.6	8.1	53461	0.06
	Bottom	24	29.6	8.1	53420	0.04
W16	Surface	1	29.7	8.1	53521	-0.13
	Mid-water	12	29.6	8.1	53493	-0.08
	Bottom	22	29.6	8.1	53447	0.02
W19	Surface	1	29.9	8.0	53633	-0.16
	Mid-water	10	29.7	8.2	53565	-0.17
	Bottom	24	29.6	8.1	53560	-0.13
W20	Surface	1	30.0	8.2	53584	0.55
	Mid-water	11	29.6	8.2	53531	-0.03
	Bottom	23	29.6	8.2	53514	0.01
W25	Surface	1	29.7	8.0	53557	-0.13
	Mid-water	11	29.7	8.0	53566	-0.09
	Bottom	24	29.5	8.1	53503	0.03
W26	Surface	1	29.9	8.1	53548	-0.08
	Mid-water	11	29.6	8.0	53455	-0.09
	Bottom	24	29.5	8.0	53437	-0.10
W27	Surface	2	29.8	8.1	53443	-0.15
	Mid-water	11	29.6	8.1	53412	-0.15
	Bottom	24	29.6	8.0	53452	-0.11
W36	Surface	1	29.7	8.1	53521	-0.02
	Mid-water	11	29.6	8.1	53499	0.01
	Bottom	24	29.6	8.1	53528	0.01
W45	Surface	2	29.7	8.1	53549	0.03
	Mid-water	11	29.5	8.2	53513	0.09
	Bottom	24	29.5	8.1	53502	0.08
W46	Surface	1	30.4	8.2	53555	0.06
	Mid-water	11	29.7	8.2	53507	0.09
	Bottom	23	29.6	8.2	53457	0.18
W47	Surface					
	Mid-water					
	Bottom					
W51	Surface	1	29.8	8.1	53567	-0.04
	Mid-water	11	29.6	8.1	53541	-0.07
	Bottom	23	29.5	8.1	53513	-0.08

Stoppages	Vessel	Stop	Start



Remarks
Unable to complete location W47, informed by the Marine Police that the environmental boat doesn't have permission to be in the area. A permit is currently being looked into.

Weather

Time	WX	Winds						Waves						Vis	Clouds	Temp		
UTC		10m			50m		Wind Wave		Swell			Wave			10m	Lowest	Air	
		Dir	Spd (kts)	Gust (kts)	Risk (kts)	Spd (kts)	Gust (kts)	Hgt (m)	Per (sec)	Dir	Hgt (m)	Per (sec)	Hsig (m)	Max (m)	Risk (m)	(nm)	(ft)	(degC)
Friday, 03 Jul 2020 - Maldives Project 04°11'N 073°28'E																		
03	NSW	WSW	3	6	-	4	7	0.0		SSW	1.0	10	1.0	1.7	-	>5	3500	29
06	NSW	SW	4	7	-	4	7	0.0		SW	1.0	10	1.0	1.7	-	>5	3500	28
09	NSW	WSW	5	8	-	5	8	0.0		SW	1.0	10	1.0	1.7	-	>5	3500	29
12	DZ	W	8	12	-	9	13	0.2	1	SW	1.1	10	1.1	1.9	-	3-5	3500	28
15	SHRA	WSW	6	9	-	6	9	0.0		SW	1.1	10	1.1	1.9	-	3-5	3500	28
18	NSW	SW	6	9	-	6	9	0.0		SW	1.2	10	1.2	2.0	-	>5	3500	29
21	DZ	SW	6	9	-	5	8	0.0		WSW	1.2	10	1.2	2.0	-	3-5	3500	28

Male' Water & Sewerage Company Pvt Ltd**Water Quality Assurance Laboratory**

Quality Assurance Building, 1st Floor, Male' Hingun, Vilimala', Male' City, Maldives
Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv

**WATER QUALITY TEST REPORT****Report No: 500184693****Customer Information:**

CDE Pvt Ltd
H.Orchidmaage, 4th Floor
Ameeru Ahmed Magu
Male K

Report date: **06/07/2020**Test Requisition Form No: **900190145**Sample(s) Received Date: **28/06/2020**Date of Analysis: **29/06/2020 - 29/06/2020**

Sample Description ~	GF_REC-W05	GF_REC-W15	Villingili SW	TEST METHOD	UNIT
Sample Type ~	Sea Water	Sea Water	Sea Water		
Sample No	83212655	83212656	83212657		
Sampled Date ~	27/06/2020	27/06/2020	27/06/2020		
PARAMETER	ANALYSIS RESULT				
Physical Appearance	Clear with particles	Clear with particles	Clear with particles	Method 8006 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Total Suspended Solids	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)		

Keys: mg/L : Milligram Per Liter**Checked by**

Aminath Sofa
Laboratory Executive

Approved by

Mohamed Eyman
Manager, Quality

Notes: Sampling Authority: Sampling was not done by MWSC Laboratory

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~ Information provided by the customer

Replacement for Report No: 500184602

Male' Water & Sewerage Company Pvt Ltd**Water Quality Assurance Laboratory**

Quality Assurance Building, 1st Floor, Male' Hingun, Vilimale', Male' City, Maldives
Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv

**WATER QUALITY TEST REPORT**

Report No: 500184693

Customer Information:

CDE Pvt Ltd
H.Orchidmaage, 4th Floor
Ameeru Ahmed Magu
Male K

Report date: 06/07/2020

Test Requisition Form No: 900190145

Sample(s) Recieved Date: 28/06/2020

Date of Analysis: 29/06/2020 - 29/06/2020

Sample Description ~	GF_REC-W07	GF_REC-W10	GF_REC-W11	TEST METHOD	UNIT
Sample Type ~	Sea Water	Sea Water	Sea Water		
Sample No	83212658	83212659	83212660		
Sampled Date ~	27/06/2020	27/06/2020	27/06/2020		
PARAMETER	ANALYSIS RESULT				
Physical Appearance	Clear with particles	Clear with particles	Clear with particles	Method 8006 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Total Suspended Solids	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)		

Keys: mg/L : Milligram Per Liter

Checked by

Aminath Sofa
Laboratory Executive

Approved by

Mohamed Eyman
Manager, Quality

Notes: Sampling Authority: Sampling was not done by MWSC Laboratory

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**WATER QUALITY TEST REPORT**

Report No: 500184693

Customer Information:

CDE Pvt Ltd
H.Orchidmaage, 4th Floor
Ameeru Ahmed Magu
Male K

Report date: 06/07/2020

Test Requisition Form No: 900190145

Sample(s) Received Date: 28/06/2020

Date of Analysis: 29/06/2020 - 29/06/2020

Sample Description ~	GF_REC-W14	GF_REC-W02	GF_REC-W16	TEST METHOD	UNIT
Sample Type ~	Sea Water	Sea Water	Sea Water		
Sample No	83212661	83212662	83212663		
Sampled Date ~	27/06/2020	27/06/2020	27/06/2020		
PARAMETER	ANALYSIS RESULT				
Physical Appearance	Clear with particles	Clear with particles	Clear with particles	Method 8006 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Total Suspended Solids	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)		

Keys: mg/L : Milligram Per Liter

Checked by

Aminath Sofa
Laboratory Executive

Approved by

Mohamed Eyman
Manager, Quality

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Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv

**WATER QUALITY TEST REPORT**

Report No: 500184693

Customer Information:

CDE Pvt Ltd
H.Orchidmaage, 4th Floor
Ameeru Ahmed Magu
Male K

Report date: 06/07/2020

Test Requisition Form No: 900190145

Sample(s) Recieved Date: 28/06/2020

Date of Analysis: 29/06/2020 - 29/06/2020

Sample Description ~	GF_REC-W19	GF_REC-W25	GF_REC-W53	TEST METHOD	UNIT
Sample Type ~	Sea Water	Sea Water	Sea Water		
Sample No	83212664	83212665	83212666		
Sampled Date ~	27/06/2020	27/06/2020	27/06/2020		
PARAMETER	ANALYSIS RESULT				
Physical Appearance	Clear with particles	Clear with particles	Clear with particles	Method 8006 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Total Suspended Solids	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)		

Keys: mg/L : Milligram Per Liter

Checked by

Aminath Sofa
Laboratory Executive

Approved by

Mohamed Eyman
Manager, Quality

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Male' Water & Sewerage Company Pvt Ltd**Water Quality Assurance Laboratory**

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Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv

**WATER QUALITY TEST REPORT**

Report No: 500184693

Customer Information:

CDE Pvt Ltd
H.Orchidmaage, 4th Floor
Ameeru Ahmed Magu
Male K

Report date: 06/07/2020

Test Requisition Form No: 900190145

Sample(s) Received Date: 28/06/2020

Date of Analysis: 29/06/2020 - 29/06/2020

Sample Description ~	GF_REC-W20	GF_REC-W26	GF_REC-W27	TEST METHOD	UNIT
Sample Type ~	Sea Water	Sea Water	Sea Water		
Sample No	83212667	83212668	83212669		
Sampled Date ~	27/06/2020	27/06/2020	27/06/2020		
PARAMETER	ANALYSIS RESULT				
Physical Appearance	Clear with particles	Clear with particles	Clear with particles	Method 8006 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Total Suspended Solids	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)		

Keys: mg/L : Milligram Per Liter

Checked by

Aminath Sofa
Laboratory Executive

Approved by

Mohamed Eyman
Manager, Quality

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Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv

**WATER QUALITY TEST REPORT****Report No: 500184693****Customer Information:**

CDE Pvt Ltd
H.Orchidmaage, 4th Floor
Ameeru Ahmed Magu
Male K

Report date: **06/07/2020**Test Requisition Form No: **900190145**Sample(s) Received Date: **28/06/2020**Date of Analysis: **29/06/2020 - 29/06/2020**

Sample Description ~	GF_REC-W46	GF_REC-W45	GF_REC-W36	TEST METHOD	UNIT
Sample Type ~	Sea Water	Sea Water	Sea Water		
Sample No	83212670	83212671	83212672		
Sampled Date ~	27/06/2020	27/06/2020	27/06/2020		
PARAMETER	ANALYSIS RESULT				
Physical Appearance	Clear with particles	Clear with particles	Clear with particles		
Total Suspended Solids	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)	<5 (LoQ 5 mg/L)	Method 8006 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L

Keys: mg/L : Milligram Per Liter**Checked by**

Aminath Sofa
Laboratory Executive

Approved by

Mohamed Eyman
Manager, Quality

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