

Report Date: 13/06/2020

Week: 24-2020

Number: 003

Period: 6/06/2020 to 12/06/2020

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-3
 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, Maifé, 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 water quality measurements and sampling performed. No unexpected values or exceedances. Plume monitoring. TSS samples collected but not analysed as MWSC lab closed due to Covid-19 lockdown. Reefscapers continues with Coral Relocation inside Gulhifalhu lagoon. Silt screen assembly.

Mitigation	Corrective actions taken if necessary
	Based on a visual observation of the turbidity pattern during works this week, the following vessels were stopped BHD Colbart 564 min Bund construction itself is a mitigating measure, to contain reclamation sediment. EcoCoast 200m silt screens installed south of the entrance channel (Refer to document: "462-10042-BWC-SHE-QS-012 Gulhifalhu Reclamation - Silt screen installation plan" 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.

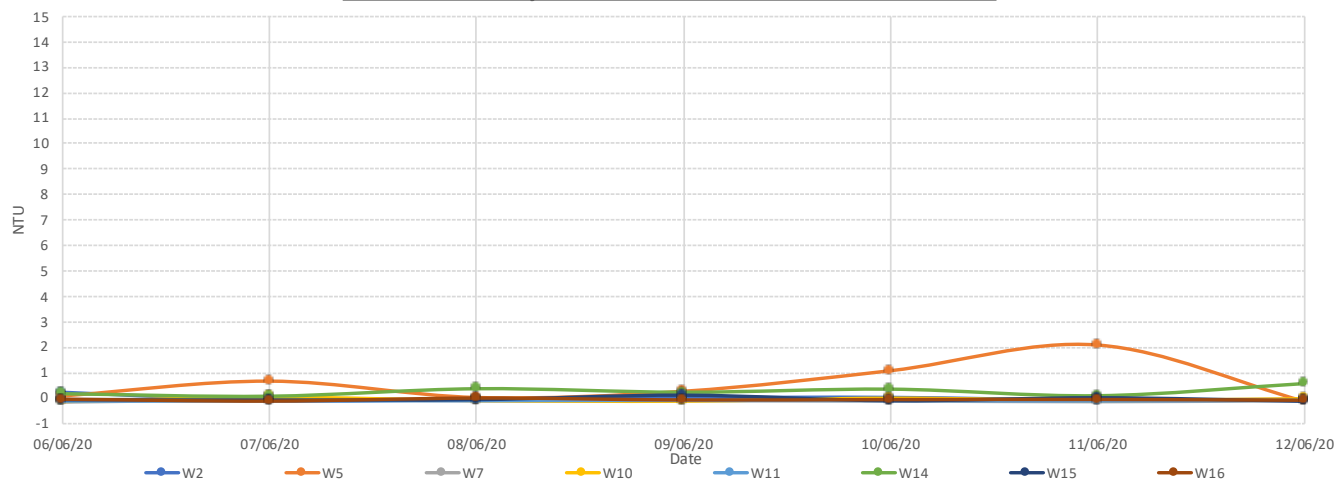
Calibration			
	Eureka Manta Multiparameter probe		
	S/N: MT12183556	Calibration Date: 02/06/2020	Status: Used for measurements
	S/N: MT12183554	Calibration Date: N/A	Status: Spare

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



Signed by Contractor

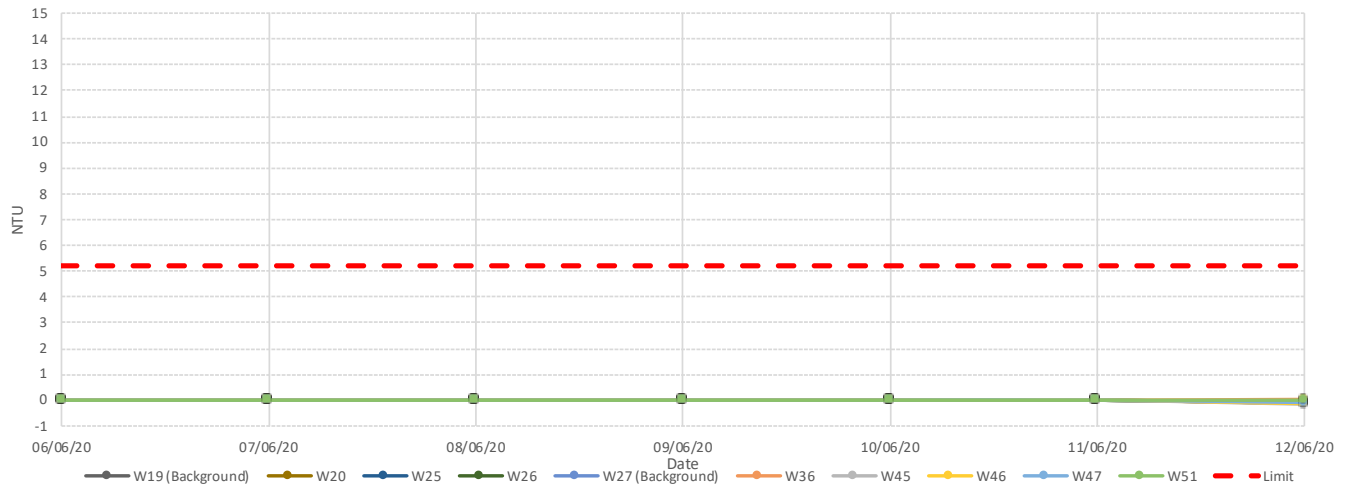
Signed by Client



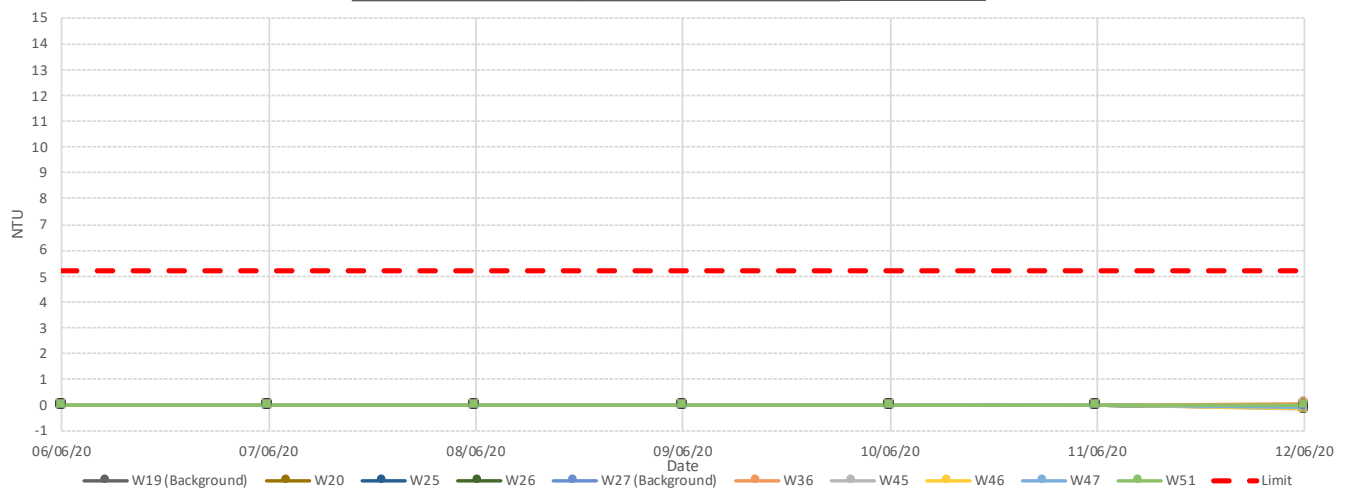
Period: 06/06/2020 to 12/06/2020

Document number : 462.10062-WQR-3.3
Contractor : Boskalis Westminster Contracting Ltd
Client : Ministry of National Planning and Infrastructure
Attention : shaana.farooq@clanning.gov.my

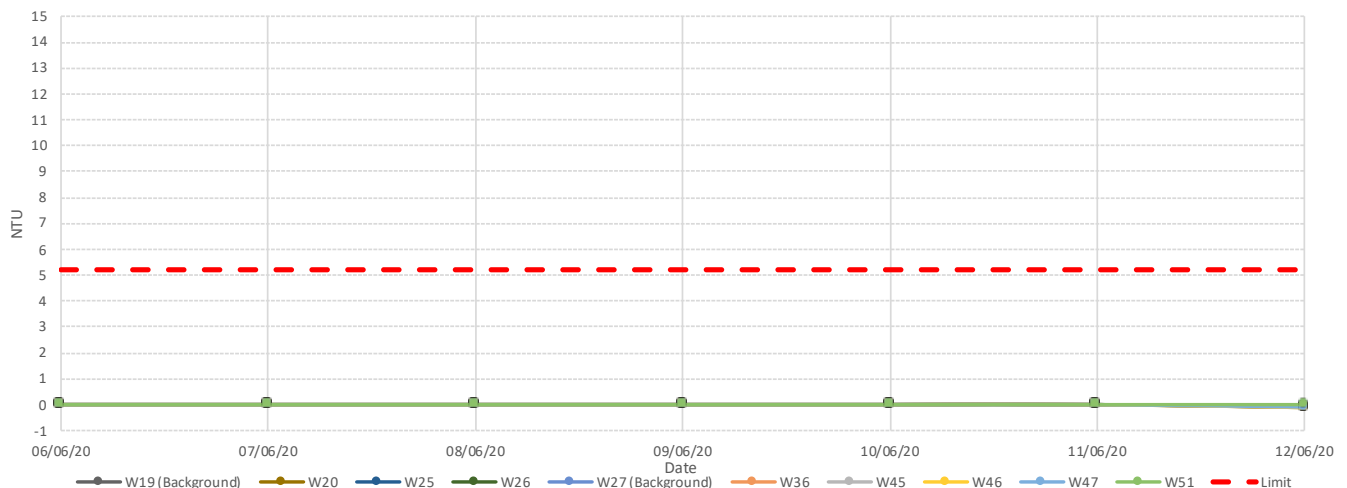
Surface Turbidity Measurements at the Borrow Area



Mid Water Turbidity Measurements at the Borrow Area



Bottom Turbidity Measurements at the Borrow Area



Date: 06/06/2020

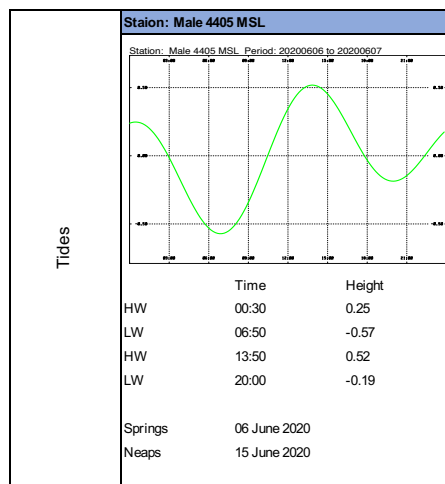
Time: 09:10-10:40

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-3.4
 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	29.4	8.6	52329	-0.12
	Mid-water	11	29.3	8.8	52283	-0.12
	Bottom	23	29.3	8.8	52309	0.23
W5	Surface	1	29.4	8.7	52352	-0.02
	Mid-water	11	29.3	8.7	52341	-0.04
	Bottom	25	29.2	8.6	52364	0.09
W7	Surface	1	29.6	8.6	52242	-0.15
	Mid-water	10	29.5	8.7	52211	-0.13
	Bottom	24	29.6	8.7	52160	-0.15
W10	Surface	1	29.6	8.8	52198	-0.15
	Mid-water	10	29.5	8.7	52175	-0.14
	Bottom	24	29.5	8.7	52133	-0.13
W11	Surface	1	29.4	8.5	51708	-0.13
	Mid-water	9	29.4	8.6	52196	-0.12
	Bottom	25	29.3	8.6	52198	-0.12
W14	Surface	1	29.5	9.0	52325	-0.06
	Mid-water	8	29.4	9.0	52296	0.00
	Bottom	17	29.3	9.1	52272	0.18
W15	Surface	1	29.4	8.6	52333	-0.06
	Mid-water	10	29.3	8.6	52316	-0.05
	Bottom	25	29.3	8.5	52284	-0.06
W16	Surface	1	29.4	8.5	52241	-0.10
	Mid-water	10	29.4	8.5	52227	-0.13
	Bottom	25	29.2	8.6	52281	-0.04

Stoppages	Vessel	Stop	Start
	BHD Colbart	13:40	14:55



Remarks

As per Client request, started daily in-situ water quality monitoring already at 'Reclamation' locations defined by the EIA on 28/05/2020.
 10 mg/l TSS limit not applicable at the 'Reclamation' locations as per the EIA.

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)	
Saturday, 06 Jun 2020 - Maldives Project 04°11'N 073°28'E																			
03	SHRA	SW	12	16	22	13	18	0.5	2	SSW	0.9	8	1.0	1.7	-	3-5	3500	28	
06	SHRA	SW	13	18	-	14	19	0.6	3	SSW	0.9	8	1.1	1.8	-	3-5	3500	29	
09	SHRA	SW	13	18	22	15	20	0.6	3	SSW	0.9	8	1.1	1.8	-	3-5	3500	29	
12	TS	SW	13	27	28	14	28	0.5	3	SSW	0.9	8	1.0	1.7	-	3-5	3500	29	
15	TS	SW	12	25	27	13	26	0.5	3	SSW	0.9	8	1.0	1.7	-	3-5	3500	28	
18	TS	SW	11	20	22	11	20	0.4	3	SW	0.9	8	1.0	1.6	-	3-5	3500	28	
21	TS	SW	11	23	27	11	23	0.4	3	SW	0.8	8	0.9	1.5	-	3-5	3500	28	

Date: 07/06/2020

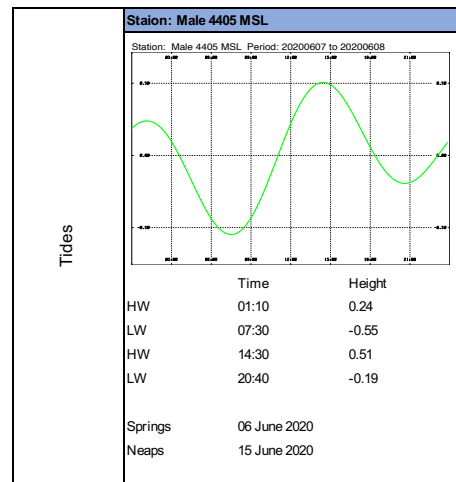
Time: 09:10-10:30

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-3.5
 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	29.3	8.2	52400	-0.11
	Mid-water	11	29.3	7.9	52380	-0.13
	Bottom	24	29.3	8.1	52435	-0.09
W5	Surface	2	29.3	8.4	52460	0.47
	Mid-water	7	29.3	8.3	52472	0.29
	Bottom	20	29.3	8.2	52451	0.67
W7	Surface	2	29.5	8.3	52376	-0.17
	Mid-water	10	29.5	8.3	52351	-0.12
	Bottom	24	29.4	8.2	52300	-0.06
W10	Surface	1	29.4	8.2	52399	-0.14
	Mid-water	10	29.4	8.3	52373	-0.15
	Bottom	24	29.4	8.2	52332	0.04
W11	Surface	1	29.4	8.2	52408	-0.12
	Mid-water	9	29.4	8.3	52346	-0.10
	Bottom	24	29.4	8.3	52301	-0.11
W14	Surface	1	29.3	8.2	52499	-0.04
	Mid-water	8	29.3	8.3	52466	-0.04
	Bottom	17	29.3	8.3	52462	0.08
W15	Surface	1	29.3	8.4	52473	-0.12
	Mid-water	9	29.3	8.4	52440	-0.13
	Bottom	24	29.3	8.2	52382	-0.07
W16	Surface	1	29.3	8.0	52437	-0.11
	Mid-water	11	29.3	8.1	52403	-0.12
	Bottom	24	29.3	8.1	52384	-0.12

Stoppages	Vessel	Stop	Start



Remarks

As per Client request, started daily in-situ water quality monitoring already at 'Reclamation' locations defined by the EIA on 28/05/2020.
 10 mg/l TSS limit not applicable at the 'Reclamation' locations as per the EIA.

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)
Sunday, 07 Jun 2020 - Maldives Project 04°11'N 073°28'E																		
03	SHRA	SW	13	17	-	14	19	0.6	3	SW	0.9	8	1.1	1.8	-	3-5	3500	29
06	DZ	SW	11	16	-	12	16	0.4	3	SW	0.9	7	1.0	1.6	-	3-5	3500	29
09	DZ	SW	10	14	-	10	14	0.3	3	SW	0.8	7	0.9	1.5	-	3-5	3500	29
12	NSW	SW	8	12	-	8	11	0.2	2	SW	0.8	7	0.8	1.4	-	>5	3500	29
15	NSW	SW	8	11	-	7	11	0.2	2	SW	0.8	7	0.8	1.4	-	>5	3500	29
18	NSW	SW	8	11	-	7	11	0.2	2	SW	0.8	8	0.8	1.4	-	>5	3500	29
21	DZ	SW	9	12	-	9	12	0.2	2	SW	0.7	8	0.8	1.3	-	3-5	3500	29

Date: 08/06/2020

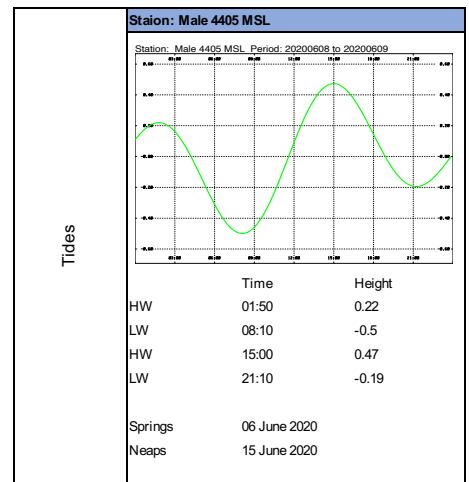
Time: 15:00-16:30

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-3.6
 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	29.4	8.5	52319	0.10
	Mid-water	11	29.3	8.5	52365	-0.03
	Bottom	23	29.2	8.6	52373	-0.06
W5	Surface	1	29.6	8.4	52373	3.61
	Mid-water	9	29.5	8.4	52352	2.00
	Bottom	24	29.2	8.3	52389	0.03
W7	Surface	1	29.7	8.4	52258	-0.11
	Mid-water	9	29.0	8.4	52382	-0.12
	Bottom	21	28.6	8.4	52451	-0.10
W10	Surface	1	29.6	8.4	52282	-0.14
	Mid-water	9	29.6	8.4	52280	-0.11
	Bottom	25	28.9	8.0	52410	-0.09
W11	Surface	1	29.6	8.4	52236	-0.11
	Mid-water	10	29.6	8.3	52233	-0.11
	Bottom	25	29.6	8.4	52170	-0.09
W14	Surface	1	29.5	8.9	52323	0.22
	Mid-water	8	29.5	9.0	52352	0.17
	Bottom	16	29.4	9.1	52343	0.37
W15	Surface	1	29.6	8.4	52312	-0.08
	Mid-water	12	29.5	8.4	52286	-0.08
	Bottom	23	29.3	8.4	52282	-0.06
W16	Surface	1	29.6	8.1	52293	-0.06
	Mid-water	11	29.5	8.0	52286	-0.06
	Bottom	24	29.3	8.3	52275	0.01

Stoppages	Vessel	Stop	Start
	BHD Colbart	12:00	13:30



Remarks

As per Client request, started daily in-situ water quality monitoring already at 'Reclamation' locations defined by the EIA on 28/05/2020.
 10 mg/l TSS limit not applicable at the 'Reclamation' locations as per the EIA.

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, 08 Jun 2020 - Maldives Project 04°11'N 073°28'E																		
03	SHRA	SW	8	12	-	9	12	0.2	3	SW	0.8	8	0.8	1.4	-	3-5	3500	29
06	SHRA	SW	9	12	-	9	12	0.2	2	SW	0.7	8	0.8	1.3	-	3-5	3500	29
09	SHRA	WSW	10	14	-	10	14	0.3	2	SW	0.7	8	0.8	1.3	-	3-5	3500	29
12	NSW	WSW	11	15	-	11	15	0.3	3	SW	0.7	8	0.8	1.3	-	>5	3500	29
15	NSW	WSW	10	14	-	10	14	0.3	3	SW	0.7	8	0.8	1.3	-	>5	3500	29
18	SHRA	W	10	14	-	10	14	0.3	3	SW	0.7	8	0.8	1.3	-	3-5	3500	29
21	SHRA	WSW	10	14	-	11	15	0.3	3	SW	0.7	8	0.8	1.3	-	3-5	3500	28

Date: 09/06/2020

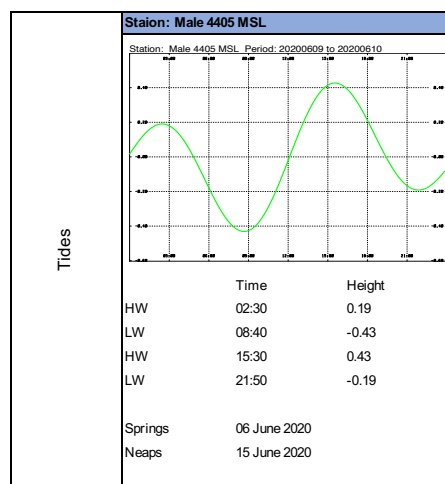
Time: 08:45-10:40

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-3.7
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	2	29.3	8.2	52450	0.02
	Mid-water	13	29.3	8.3	52400	0.02
	Bottom	23	29.3	8.3	52390	0.02
W5	Surface	1	29.5	8.0	52509	0.31
	Mid-water	11	29.3	8.1	52488	0.00
	Bottom	20	29.2	8.1	52483	0.27
W7	Surface	1	29.6	8.2	52413	-0.09
	Mid-water	9	29.5	8.1	52428	-0.10
	Bottom	19	29.5	8.2	52372	-0.10
W10	Surface	1	29.6	8.2	52431	-0.13
	Mid-water	9	29.5	8.2	52401	-0.13
	Bottom	17	29.5	8.2	52380	-0.12
W11	Surface	1	29.5	8.2	52416	-0.11
	Mid-water	11	29.5	8.2	52379	-0.10
	Bottom	22	29.5	8.2	52364	-0.08
W14	Surface	1	29.5	8.5	52375	0.05
	Mid-water	6	29.4	8.5	52330	0.15
	Bottom	13	29.4	8.5	52341	0.23
W15	Surface	1	29.6	7.9	52487	-0.13
	Mid-water	11	29.4	8.1	52494	0.34
	Bottom	21	29.2	8.0	52478	0.12
W16	Surface	1	29.4	8.1	52424	-0.06
	Mid-water	11	29.3	8.2	52401	-0.08
	Bottom	22	29.3	8.2	52365	-0.07

Stoppages	Vessel	Stop	Start



Remarks

As per Client request, started daily in-situ water quality monitoring already at 'Reclamation' locations defined by the EIA on 28/05/2020.
10 mg/l TSS limit not applicable at the 'Reclamation' locations as per the EIA.

Weather

Tuesday, 09 Jun 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	W	9	13	-	9	13	0.3	2	SSW	0.8	8	0.9	1.4	-	>5	3500	28
06	NSW	W	10	14	-	10	14	0.3	3	SSW	0.8	8	0.9	1.4	-	>5	3500	29
09	SHRA	W	12	16	-	12	17	0.4	3	SSW	0.8	8	0.9	1.5	-	>5	3500	29
12	SHRA	W	13	18	-	14	19	0.5	3	SSW	0.8	9	0.9	1.6	-	>5	3500	29
15	NSW	WNW	13	17	-	14	19	0.5	3	SSW	0.8	9	0.9	1.6	-	>5	3500	29
18	SHRA	WNW	11	18	-	12	19	0.5	3	SSW	0.8	8	0.9	1.6	-	3-5	3500	29
21	TS	W	12	25	27	13	26	0.5	3	SSW	0.8	8	0.9	1.6	-	3-5	3500	28

Date: 10/06/2020

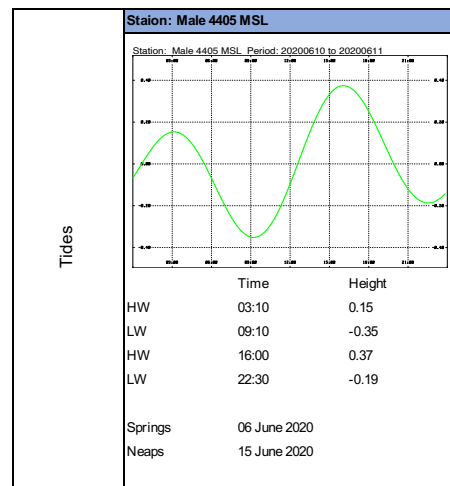
Time: 08:44-10:00

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-3.8
 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	29.5	8.2	52411	-0.01
	Mid-water	11	29.4	8.3	52375	0.01
	Bottom	23	29.4	8.3	52335	0.03
W5	Surface	1	29.5	8.5	52509	1.25
	Mid-water	7	29.4	8.5	52474	1.01
	Bottom	15	29.4	8.5	52444	1.08
W7	Surface	1	29.6	8.4	52425	-0.13
	Mid-water	9	29.6	8.4	52391	-0.13
	Bottom	23	29.6	8.4	52375	-0.11
W10	Surface	1	29.6	8.3	52431	-0.10
	Mid-water	11	29.6	8.2	52373	-0.11
	Bottom	24	29.5	8.3	52317	0.00
W11	Surface	1	29.6	8.3	52370	-0.09
	Mid-water	9	29.5	8.2	52330	-0.07
	Bottom	23	29.6	8.2	52305	-0.09
W14	Surface	1	29.5	8.6	52469	0.10
	Mid-water	8	29.5	8.7	52466	0.11
	Bottom	15	29.5	8.8	52449	0.36
W15	Surface	1	29.6	8.5	52490	-0.13
	Mid-water	10	29.5	8.5	52465	-0.09
	Bottom	22	29.3	8.4	52437	-0.10
W16	Surface	1	29.5	8.1	52361	-0.07
	Mid-water	11	29.4	8.1	52323	-0.06
	Bottom	24	29.3	8.1	52314	-0.05

Stoppages	Vessel	Stop	Start



Remarks

As per Client request, started daily in-situ water quality monitoring already at 'Reclamation' locations defined by the EIA on 28/05/2020.
 10 mg/l TSS limit not applicable at the 'Reclamation' locations as per the EIA.

Weather

Time	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)
		Wednesday, 10 Jun 2020 - Maldives Project 04°11'N 073°28'E																
		03	SHRA	W	13	17	-	14	19	0.5	3	SSW	0.8	8	0.9	1.6	-	3-5
06	NSW	W	13	17	-	13	18	0.5	3	SSW	0.8	8	0.9	1.6	-	>5	3500	29
09	NSW	W	13	18	-	14	19	0.5	3	SSW	0.8	8	0.9	1.6	-	>5	3500	29
12	SHRA	WSW	14	19	-	15	21	0.6	3	SSW	0.8	8	1.0	1.7	-	3-5	3500	28
15	NSW	W	13	18	-	14	19	0.6	3	SSW	0.8	8	1.0	1.7	-	>5	3500	29
18	SHRA	W	13	18	-	14	19	0.6	3	SSW	0.8	8	1.0	1.7	-	>5	3500	29
21	TS	WSW	14	28	28	15	29	0.6	4	SSW	0.8	8	1.0	1.7	-	3-5	3500	28



Date: 11/06/2020

Time: 10:00-11:30

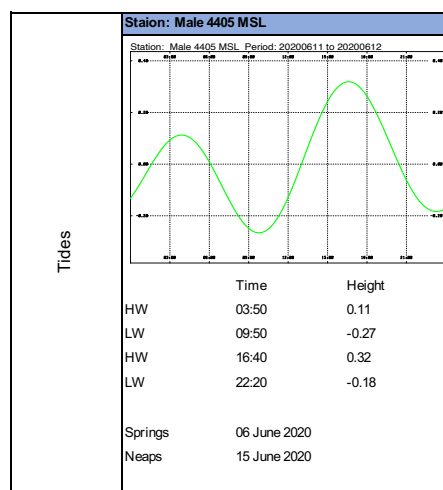
Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu
Contract number : AGR(471)-PIDS2/PRIV/2019/194
Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-3.9
Contractor : Boskalis Westminster Contracting Ltd
Client : Ministry of National Planning and Infrastructure
Attention : shaana.farooqi@planning.gov.my

Results	Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
	W2	Surface	1	29.6	8.2	52458	-0.02
		Mid-water	11	29.5	8.2	52470	-0.11
		Bottom	24	29.4	8.3	52419	-0.08
	W5	Surface	1	29.7	8.7	52435	10.55
		Mid-water	8	29.4	8.8	52526	0.60
		Bottom	17	29.4	8.8	52500	2.09
	W7	Surface	1	29.7	8.5	52512	-0.12
		Mid-water	10	29.6	8.5	52456	-0.13
		Bottom	23	29.6	8.4	52437	-0.14
	W10	Surface	1	29.6	8.5	52510	-0.12
		Mid-water	11	29.6	8.4	52470	-0.12
		Bottom	23	29.5	8.4	52443	-0.09
	W11	Surface	1	29.6	8.4	52471	-0.13
		Mid-water	10	29.5	8.3	52472	-0.11
		Bottom	24	29.5	8.3	52435	-0.11
W14	Surface	1	29.6	8.4	52529	0.00	
	Mid-water	7	29.5	8.6	52508	0.08	
	Bottom	17	29.5	8.8	52492	0.10	
W15	Surface	1	29.7	8.8	52555	-0.13	
	Mid-water	10	29.6	8.8	52558	-0.12	
	Bottom	24	29.5	8.9	52507	0.02	
W16	Surface	1	29.7	8.4	52505	0.00	
	Mid-water	10	29.5	8.3	52436	-0.10	
	Bottom	23	29.4	8.3	52388	-0.05	

	W5A	Surface	1	29.6	7.9	52648	0.27
		Mid-water	8	29.6	8.1	52604	0.23
		Bottom	18	29.5	8.2	52607	0.36

Stoppages	Vessel	Stop	Start
	BHD Colbart	11:35	16:11



Remarks	As per Client request, started daily in-situ water quality monitoring already at 'Reclamation' locations defined by the EIA on 28/05/2020.
	10 mg/l TSS limit not applicable at the 'Reclamation' locations as per the EIA.
	Surface turbidity at W5 of 10.55 NTU, works stopped.
	Measured again in the afternoon (W5A); turbidity dropped to 0.27 NTU.

Weather	Thursday, 11 Jun 2020 - Maldives Project 04°11'N 073°28'E																		
	Time	WX	Winds						Waves						Vis	Clouds	Temp		
	UTC		10m			50m			Wind Wave		Swell			Wave			10m	Lowest	Air
			Dir	Spd	Gust	Risk	Spd	Gust	Hgt	Per	Dir	Hgt	Per	Hsig	Max	Risk	(nm)	(ft)	(degC)
			(kts)	(kts)	(kts)	(kts)	(kts)	(kts)	(m)	(sec)	(m)	(m)	(sec)	(m)	(m)	(m)			
03	TS	WSW	14	19	22	15	20	0.6	3	SSW	0.8	8	1.0	1.7	-	>5	3500	28	
06	SHRA	WSW	12	16	-	13	18	0.5	2	SSW	0.8	8	0.9	1.6	-	>5	3500	29	
09	SHRA	WSW	13	18	-	15	20	0.5	2	SSW	0.8	8	1.0	1.7	-	>5	3500	28	
12	TS	WSW	15	20	27	16	21	0.7	3	SSW	0.8	9	1.1	1.8	-	>5	3500	28	
15	SHRA	WSW	13	18	-	14	19	0.6	3	SSW	0.8	8	1.0	1.8	-	3-5	3500	29	
18	SHRA	WSW	12	17	-	14	19	0.6	3	SW	0.8	8	1.0	1.7	-	3-5	3500	29	
21	SHRA	WSW	13	18	-	14	19	0.6	3	SW	0.8	8	1.0	1.7	-	3-5	3500	29	



Date: 12/06/2020

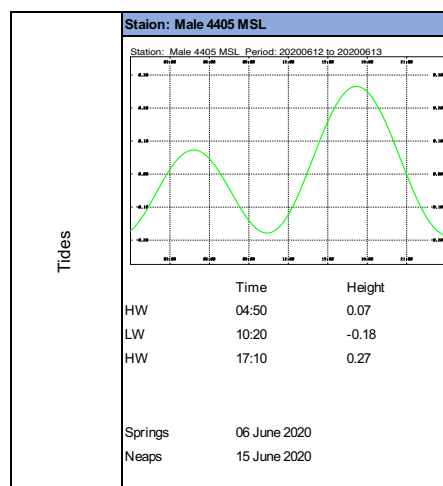
Time: 09:00-13:20

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-3.10
Contractor : Boskalis Westminster Contracting Ltd
Client : Ministry of National Planning and Infrastructure
Attention : shaana.farooqi@planning.gov.my

Results	Location	Section	Depth (m)	Temperature	pH	Conductivity (uS/cm)	Turbidity (NTU)
	W2	Surface	1	29.5	8.0	52485	-0.11
		Mid-water	10	29.5	7.9	52437	-0.10
		Bottom	24	29.5	7.9	52392	-0.05
	W5	Surface	1	29.5	8.5	52546	-0.13
		Mid-water	8	29.5	8.4	52504	-0.13
		Bottom	17	29.5	8.4	52445	-0.13
	W7	Surface	1	29.5	8.0	52451	-0.11
		Mid-water	10	29.5	8.0	52446	-0.10
		Bottom	24	29.4	8.0	52436	-0.10
	W10	Surface	1	29.5	8.2	52454	-0.04
		Mid-water	11	29.5	8.2	52375	-0.02
		Bottom	24	29.4	8.2	52396	-0.02
	W11	Surface	1	29.5	8.3	52409	-0.06
		Mid-water	10	29.5	8.3	52360	-0.10
		Bottom	24	29.5	8.3	52307	-0.08
	W14	Surface	1	29.5	8.2	52416	-0.05
		Mid-water	8	29.5	8.1	52433	-0.03
		Bottom	17	29.5	8.2	52381	0.58
	W15	Surface	1	29.5	8.0	52483	-0.12
		Mid-water	10	29.5	8.0	52455	-0.12
		Bottom	23	29.5	7.9	52459	-0.12
	W16	Surface	1	29.5	8.3	52045	-0.11
		Mid-water	11	29.5	8.2	52413	-0.11
		Bottom	24	29.4	8.1	52392	-0.08
	W19	Surface	1	29.6	8.4	52638	-0.12
		Mid-water	9	29.6	8.6	52619	-0.10
		Bottom	23	29.5	8.4	52556	-0.11
	W20	Surface	1	29.6	8.2	52544	-0.12
		Mid-water	10	29.6	8.1	52492	-0.11
Bottom		25	29.5	8.2	52485	-0.09	
W25	Surface	1	29.7	8.2	52666	-0.12	
	Mid-water	10	29.6	8.2	52610	-0.09	
	Bottom	24	29.6	8.2	52575	-0.09	
W27	Surface	1	29.4	8.2	52599	-0.11	
	Mid-water	10	29.4	8.1	52525	-0.11	
	Bottom	24	29.0	8.1	52583	-0.10	
W36	Surface	2	29.6	8.2	52537	-0.12	
	Mid-water	10	29.5	8.2	52501	-0.12	
	Bottom	25	29.3	8.1	52517	-0.06	
W45	Surface	1	29.6	8.3	52601	0.03	
	Mid-water	9	29.6	8.2	52551	0.05	
	Bottom	25	29.4	8.2	52551	-0.10	
W46	Surface	1	29.6	8.2	52552	-0.15	
	Mid-water	11	29.5	8.2	52534	-0.14	
	Bottom	24	29.5	8.2	52483	-0.10	
W47	Surface	1	29.6	8.1	52538	-0.13	
	Mid-water	11	29.5	8.2	52496	-0.13	
	Bottom	24	29.5	8.3	52458	-0.12	
W51	Surface	1	29.6	8.0	52561	-0.09	
	Mid-water	9	29.6	8.0	52549	-0.09	
	Bottom	24	29.5	8.0	52515	-0.09	

Stoppages	Vessel	Stop	Start
	BHD Colbart	15:17	17:20



Remarks	
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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)
Friday, 12 Jun 2020 - Maldives Project 04°11'N 073°28'E																		
03	SHRA	WSW	12	16	-	12	16	0.4	3	SW	0.9	8	1.0	1.6	-	3-5	3500	29
06	SHRA	WSW	12	17	-	13	17	0.4	3	SW	0.9	9	1.0	1.6	-	3-5	3500	29
09	SHRA	WSW	13	18	-	14	19	0.5	3	SW	0.9	9	1.0	1.7	-	3-5	3500	29
12	TS	WSW	12	25	27	13	26	0.4	3	SW	0.9	9	1.0	1.6	-	3-5	3500	29
15	TS	WSW	13	23	22	14	24	0.5	3	SW	0.8	9	0.9	1.6	-	3-5	3500	29
18	SHRA	WSW	13	18	-	14	19	0.5	3	SW	0.8	9	1.0	1.7	-	3-5	3500	29
21	TS	W	16	31	29	17	33	0.7	4	SSW	0.7	9	1.0	1.7	-	3-5	3500	28