

**Miami Harbor Phase III Deepening Project
Environmental Compliance Matrix
Notification and Submittal Schedule
1/29/13**

Permit Holder: U.S. Army Corps of Engineers

Project Name: Miami Harbor Phase III

Pre-Con Date 7-Dec-12

Permit/Authorization No.: 0305721-001-BI

NTP Date 10-Dec-12

Issuance Date: 5/15/2012

Anticipated Construction Start Date 5-Jan-13

Expiration Date: 5/15/2017

Anticipated Construction Completion Date 30-Dec-14

Author

Task Reference	Task Requirement to be Accomplished	Contract Specification	Deadline/ Timeframe	Responsible Entity	Compliance/Violation/Exceedance action protocol	Anticipated Date Required	Date Provided	Comments
Pre-Construction								
DEP Permit								
GC 2 and 3	Notify DEP of any deviation from the authorized project. Seek permit mod where necessary	NA - Notify DEP as needed	Only if needed, prior to, during, after construction	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor and/or CESAJ-CD-W notifies CESAJ-PD-E if deviation from permit	As needed	As needed	
GC 8	Contractor to review DEP permit. Copy of permit kept at site	01 57 20 PARA 1.4	Prior to and during construction	Contractor/ CESAJ-CD-W	Contractor to keep copy of DEP permit on site	For duration	For duration	
GC 10	Send Notice of Commencement to DEP	NA - CESAJ-CD-W to submit	At least 48 hours prior to construction	CESAJ-CD-W	CESAJ-CD-W notifies CESAJ-PD-E and DEP by letter and/or email of commencement	3-Jan-13		
SC 5	All submittals required in permit to be provided to the DEP offices in Tallahassee (JCPCompliance@dep.state.fl.us) and Palm Beach (Jennifer.K.Smith@dep.state.fl.us)	ALL reports with access to site 01 57 20 PARA 3.1.9	Submittals occur prior to, during, and after construction	Contractor/ CESAJ-CD-W/ CESAJ-PD-E (Ensure all submittals are posted to Contractor's web site)	Need to ensure that local DEP office does NOT release project data to the public after receiving password for the data. Any release of data needs to be cleared through Mark Thomasson at DEP, Tallahassee	For duration	For duration	
SC 7	Send out invitation to Pre-construction Conference, which is to be w/ Contractor, COE, DEP, FWC, etc. (conference held at least 7 days before commencement). Include: artificialreefdeployments@myfwc.com	NA - CESAJ-CD-W to submit	Notice at least 14 days Prior to Pre-Con	CESAJ-CD-W (notify agencies by letter and email)	CESAJ-CD-W sends invite letter to agencies for precon meeting	23-Nov-12		
SC 8	Finalize Local Sponsor (County)/DEP agreement before commencement	NA - Completed	Prior to Construction	POM (County)		22-May-12	22-May-12	Completed
SC 12	Various pre-construction submittals to DEP: schedule, staging areas, turbidity monitoring POC, EPP, EPA concurrence.	01 57 20 PARA 1.5 and discuss at Precon Meeting	After award, but 15 days prior to issuance of NTP	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to provide this information in EPP to CESAJ-CD-W and CESAJ-PD-E	25-Nov-12		P&S submitted 10/24/12
SC 26 and 27a	Conduct seagrass survey prior to construction at the interior channel to assess impacts from the work.	County (POM) to supply	One year after completion of work within growing season (May to October)	County	Additional seagrass mitigation, if excessive sloughing occurs.			POM conducted pre-construction seagrass survey in September 2012 (emails 9/12)
SC 33	Survey of northern artificial reef site to be conducted	NA- Completed by COE	prior to construction	CESAJ-OD-NH/ CESAJ-PD-E	Completed			Survey is provided in the plans on sheet C-24. Conducted by multibeam (and review of video) - no hardbottom identified
SC 34	DGPS coordinates for outfall pipe at the southern artificial reef site. Ensure no work w/in 30 meters of outfall	Plans, sheet C-25	prior to construction	CESAJ-PD-E (confirmation)	Completed			Delineated in plans.

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SC 46	Progress Reports submitted to DEP	01 57 20 PARA 3.2.8 AND 3.1.9	Beginning 60 days after issuance of Permit	Contractor/ CESAJ-CD-W/ CESAJ-PD-E (posted to contractor's web site)	Contractor either provides progress reports or maintains them on their web site established for this project	submitted 7/14/2012	submitted 7/14/2012	Progress reports are being sent approx every 60 days starting on 7/10/12
COE Permit (SAJ-2006-06547)/EPA SMMP								COE permit expires 7/25/15. EPA Concurrence expires 12/29/2014
II A	Provide notification of commencement to CESAJ-RD and to EPA Region 4	NA	At least 15 days prior to construction	CESAJ-CD-W	CESAJ-CD-W notifies CESAJ-PD-E, EPA and CESAJ-RD by letter and/or email of commencement			
I K.	Conduct bathymetric survey of the Ocean Dredged Material Disposal Site (ODMDS)		Within 3 months prior to disposal into the ODMDS	CESAJ-CD-W/CESAJ-OD-NH/CESAJ-PD-E	CESAJ-OD-NH conducts survey and provides results to CESAJ-PD-E for submittal to EPA and CESAJ-RD			CESAJ-OD-NH confirmed they will conduct the survey
During Construction								
DEP Permit								
GC 2 and 3	Notify DEP of any deviation from the authorized project. Seek permit mod where necessary	NA - Notify DEP as needed	If needed, prior to, during, after construction	Contractor/ CESAJ-CD-W/ CESAJ-PD-E (Contractor or CESAJ-CD-W notifies CESAJ-PD-E)	Contractor and/or CESAJ-CD-W notifies CESAJ-PD-E if deviation from permit			
GC 11	Report finds of archeological artifacts to DEP	01 57 20 PARA 3.1.3	If needed, during work	Contractor/ CESAJ-CD-W/ CESAJ-PD-E (Contractor or CESAJ-CD-W notifies CESAJ-PD-E)	Contractor notifies CESAJ-CD-W and CESAJ-PD-E of any archeological finds			
SC 5	All submittals required in permit to be provided to the DEP offices in Tallahassee (JCPCCompliance@dep.state.fl.us) and Palm Beach (Jennifer.K.Smith@dep.state.fl.us)	ALL reports with access to site 01 57 20 PARA 3.1.9	Prior to, during, and after construction	Contractor/ CESAJ-CD-W/ CESAJ-PD-E (Ensure all submittals are posted to Contractor's web site)	Contractor maintains web site for this project			
SC 5	Notification to DEP of approximate timeframes (if any) to salvage biological material impacted from project	01 57 20 PARAS 1.5 and 3.1.11, and to be discussed at Precon Meeting (where??)	During work, with coral relocation conducted prior to dredging of flare	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Reef relocation to be discussed at the Precon meeting			

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SC 9	Turbidity Curtains required at Julia Tuttle site. Operations suspended when wind velocities exceed 15 knots.	01 57 20 PARA 1.5q	During work	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to provide curtain plans as part of EPP and wind conditions recorded as part of turbidity reports			
SC 10	Staging prohibited in areas w/resources. Avoid/minimize impacts from anchors. If anchors used, locations of anchors to be GPS monitored w/ possible additional mitigation if impacts.	01 57 20 PARA 3.1.6c	During work	Contractor (monitored through tracking)	Contractor to monitor and report to CESAJ-CD-W and CESAJ-PD-E on impacts. Remediation/additional mitigation may be necessary if impacts			
SC 11	Ingress & egress of vessels, pipes, etc. to occur only through approved corridors. Notify DEP if vessel transiting to ODMDS or mitigation sites leaves channel or approved corridors. Potential remediation/mitigation if impacts.	01 57 20 PARA 3.1.5.10, and 35 20 23 PARA 3.4.6	During work	Contractor/ CESAJ-CD-W/ CESAJ-PD-E (Monitored through tracking).	Contractor to notify CESAJ-PD-E and CESAJ-CD-W if outside approved area, and if impacts potential remediation/mitigation including coral re-attachment conducted immediately.			
SC 11a.	Vessel tracking to be conducted. Tracking records to be posted for access. No excessive leaking from scows	01 57 20 PARA 3.1.5.10, and 35 20 23 PARA 3.4.6 and PARA 3.4.2 (leakage)	weekly	Contractor (monitored through tracking and silent inspector.	Contractor reports any loss of more than one foot from scow to CESAJ-CD-W and CESAJ-PD-E w/ explanation . Excessive leaking would entail removal of scow from rotation			
SC 11b.	Pre and post construction seagrass survey of ingress/egress corridor to seagrass mitigation site. Avoid/minimize impacts to existing seagrass at corridor and near seagrass mitigation site. Surveys provided to DEP.	01 57 20 PARA 3.1.6	prior to placement of fill and after completion of filling seagrass mitigation site	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor conducts surveys and provides results to CESAJ-CD-W and CESAJ-PD-E. Impacts may entail additional mitigation			
SC 13	Notify DEP of utility sewer line relocation completion w/ no work w/in 1,000 feet until decommissioned.	35 20 23 PARA 1.4.1.5	During work or when relocation occurs	County/Contractor/ CESAJ-CD-W/ CESAJ-PD-E	No dredging/blasting allowed within 1000ft until relocation completed. County to notify CESAJ-PD-E when utility work completed			
SC 16	Seagrass planting at Julia Tuttle to be completed w/in 2 years after work at Fishermans Channel. If impacts to seagrass adjacent to the channel exceed 7.9 acres, additional mitigation will be necessary.	01 57 20 PARA 3.1.6.1.1 and 3.1.6.1.2	During work and w/ post construction monitoring	County/Contractor/ CESAJ-CD-W/ CESAJ-PD-E	County conducts pre-work seagrass survey. Contractor conducts 30 day post-work survey. County conducts 1 yr post-work survey. Excessive impacts may entail additional mitigation			
SC 17	Seagrass Mitigation Site Construction Compliance; percent fines limitations, cap thickness of 2' min, etc.	01 57 20 PARA 3.1.6.1.2 AND 35 20 23 PARA 3.4.3 AND Plans C-21	As part of filling activities	Contractor/CESAJ-CD-W/CESAJ-OD-NH	Contractor to ensure compliance with design constraints of seagrass mitigation site			

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SC 18	Seagrass Mitigation Site Compliance; sediment sampling at site	35 20 23 PARA 3.4.3	After filling activities	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to sample fill material for seagrass mitigation area and provide results to CESAJ-CD-W and CESAJ-PD-E. Any non-compliant areas will need to be excavated and replaced			
SC 19	Seagrass Mitigation Site Harvesting and Planting Patterns, 7.15 acres planted (10x10m plots) and mapped. (May to October)	01 57 20 PARA 3.1.6.1.2	During work	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to conduct harvesting in accordance with design			
SC 20	Pre construction survey of Julia Tuttle seagrass mitigation site. Pre is to identify and avoid johnnonii (May to October).	01 57 20 PARA 3.1.6e	prior to placement of fill	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor conducts pre and post-work seagrass surveys of seagrass mitigation area and provide results to CESAJ-CD-W and CESAJ-PD-E. Impacts to adjacent seagrass may entail additional mitigation			
SC 23a, 25a and 25b.	Seagrass Mitigation Site Planting Survival Survey (conducted anytime May through October). Determine if 70% survival at one month after planting with possible re-planting in coordination w/ DEP	01 57 20 PARA 3.1.6.1.2- a3	30 days after planting completion	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to monitor survival after planting and provide results to CESAJ-CD-W and CESAJ-PD-E. Re-planting required if <70% survival.			
SC 26, 27a and 28	Seagrass survey conducted within 30 days after completion of work in the interior channel to assess impacts to nearby seagrass and evaluate impacts.	01 57 20 PARA 3.1.6.1.1	within 30 days of completion of work at the interior channels. Reports provided to DEP w/in 90 days	Contractor/CESAJ-CD-W/CESAJ-OD-NH/CESAJ-PD-E	Contractor conducts post-work seagrass survey and provide results to CESAJ-CD-W and CESAJ-PD-E. May entail additional mitigation if excessive impacts			
SC 27b	Sedimentation monitoring during any work at interior channels: Establish pre-construction base conditions, then for duration, and 30 days after work - for work occurring within 1500 meters of seagrass.	01 57 20 PARA 3.1.6.1	baseline condition survey, then either every 3 days or 28 days, depending on sed. rates. Report to DEP w/in 60days after completion and data upon request.	Contractor/CESAJ-CD-W/CESAJ-PD-E /DEP	Contractor to monitor sedimentation. Notify CESAJ-PD-E and CESAJ-CD-W if stress event occurs relative to reference: increased epiphytes, reduced density). Contractor provides information on work adjustments if stress event.			DEP needs to approve reference site

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SC 29	Coral relocation requirements (direct impact area)-scleractinian (all greater than 25cm and up to 1300 corals of 10 to 25cm), acropora, etc. Transplant half to artificial reef site and half to natural. Construction of 9.28 acres of artificial reef (includes both high and low relief)	01 57 20 PARA 3.1.11.4	prior to dredging flare	Contractor	Contractor to conduct relocations and build artificial reef in accordance with design.			
SC 30	Monitoring of relocated scleractinian corals after transplant.	01 57 20 PARA 3.1.11.5 - report deadline requirement of 60 days after survey??	monitoring at 1 month after transplanting completed. Progress during transplanting done weekly and reports submitted within 60 days of surveys	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to monitor transplanted corals and provide results to CESAJ-CD-W and CESAJ-PD-E			
SC 31a	Construction of artificial reef site (approx 60% low relief and 40% high relief). Pre and post surveys to establish relief, rugosity, interstitial space. Video of site required.	35 20 23 PARAS 3.1.5.12, 3.4.5 and Plans C-26.	Prior to and after construction of artificial reef site. Post survey w/in 30 days of completion and results to DEP w/in 30 days after survey.	Contractor/CESAJ-CD-W/ CESAJ-OD-NH/ CESAJ-PD-E	Contractor to conduct pre and post surveys demonstrating compliance with design. Contractor to potentially conduct diver survey if bathymetric deficient in determining design parameters. Corrective action if surveys reveal site was not built in accordance w/ design	31-Dec-12		
SC 32	Reef surveys (quantitative and qualitative) at permanent stations and reference stations w/ 3 transects at each station - conducted in the entrance channels prior to (baseline conditions), during after work when work occurs w/in 750 meters those stations. A dive QA/QC test to be conducted prior to conducting work to ensure consistency, and review of data forms and presentation of data.	01 57 20 PARA 3.1.10 and 3.2.4	Pre and post works surveys are once per week for four weeks w/ reports within 30 days. During- work surveys twice per week w/ weekly reports. Any raw data made available upon request. Stress events reported to DEP	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to conduct monitoring. Notification to CESAJ-CD-W and CESAJ-PD-E if stress/sedimentation event. Contractor to modify work procedures to avoid impacts. Potential remediation.			
SC 34	Avoid anchor impacts to hardbottom and seagrass as much as possible. DGPS of anchor points. Notify DEP of any anchor damage to seagrass or hardbottom	01 57 20 PARA 3.1.5.11	Conducted for duration. Notify DEP w/in 2 days of discovery of hardbottom/seagrass impacts	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to conduct diver surveys within 14 days of anchor removal in areas of hardbottom/seagrass to evaluate impacts and report impacts to CESAJ-CD-W and CESAJ-PD-E. If anchor impacts - remediation/mitigation			
SC 35	Acropora to be relocated	01 57 20 PARA 3.1.11	prior to construction where impacts could occur	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to relocate acropora. Report results to CESAJ-CD-W and CESAJ-PD-E	31-Dec-12		

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SC 36d	Follow manatee/sea turtle operating criteria. Shutdown if sea turtle or manatees w/in 50 feet of operations. Work can resume when animal(s) are outside the 50-foot radius	01 57 20 PARA 3.1.5.1	for duration of work	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor shutdown when turtles or manatees are within 50 feet of operations.			
SC 36 e.	Any collision with and/or injury to a manatee shall be reported to CESAJ-PD-E, CESAJ-CD-N, the FWC "Wildlife Alert" at 1-888-404-FWCC (3922) and USFWS Vero Beach Office at 1-772-562-3909	01 57 20 PARA 3.1.5.3	for duration of work and report immediately. DEP and other agencies to be notified	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to report any collision with and/or injury to a manatee to CESAJ-CD-W and CESAJ-PD-E, CESAJ-CD-W.			
SC 36 i.	Submit report detailing manatee sightings, boat-manatee collisions, and manatee injuries to USFWS and FWCC Imperiled Species Management Section.	01 57 20 PARA 3.1.5.3	Annually to be submitted to agencies	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to provide summary information to CESAJ-CD-W and CESAJ-PD-E			
SC 37, 38, and 39	Submit Blast Watch Plan to DEP, FWC, FWS and NMFS. Note that blasting between 1 November through 31 March may create delays.	01 57 20 PARA 3.1.5.9	Provided at least 30 days prior to blasting. Blast plan provided to agencies	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to provide blast plan to CESAJ-CD-W and CESAJ-PD-E	6-Dec-12		
SC 40 and 41	Evaluate each blast for potential improvements. Blasting injuries/deaths to marine mammals/reptiles would entail review of blast plan (potentially revisions) prior to conducting additional blasting.	01 57 20 PARA 3.1.5.9 (f and g)	Conducted for duration of blasting. Contractor to immediately reports any blasting deaths or injuries. Notification to FWC "Wildlife Alert" at 1-888-404-FWCC (3922) for manatees; USFWS Vero Beach Office at 1-772-562-3909 for manatees and crocodiles; NMFS 772-570-5312 for sea turtles and sawfish; and NMFS emergency stranding hotline 877-433-8299.	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to immediately report any blasting deaths or injuries to CESAJ-PD-E, CESAJ-CD-W			CESAJ-PD-E to Notify FWC "Wildlife Alert" at 1-888-404-FWCC (3922) for manatees; USFWS Vero Beach Office at 1-772-562-3909 for manatees and crocodiles; NMFS 772-570-5312 for sea turtles and sawfish; and NMFS emergency stranding hotline 877-433-8299.
SC 42	Submit Blast Event Report to FWC, NMFS and FWS summary information, sitings, etc., and any recommendations	01 57 20 PARA 3.1.5.9	within 30 days after completion of all blasting events	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to provde reports to CESAJ-CD-W and CESAJ-PD-E			
SC 43	List of requirements for Blast Plan and Blast Watch Plan. Blast Coordination Meeting. Formal meeting shall be held with observers, contractors, USCG, FDOT, FWC, FWS, and DEP. If marine reptile/mammal sighted after blast observers shall maintain contact with injured or dead animal and incident immediately reported.	01 57 20 PAR 3.1.5.9	at least two days prior to first blasting event.	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to report to CESAJ-PD-E and CESAJ-CD-W any dead or injured animal	29-Dec-12		

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SC 45	Vessel tracking to be conducted. Tracking records to be posted for access and made available.	01 57 20 PARA 3.4.6 and 3.1.9 and 35 20 23 PARA 3.4.2	Conducted for duration of work. Information provided to DEP upon request	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to conduct tracking and provide information the web site they establish for this project	for duration	for duration	
SC 46	Provide DEP with progress reports during construction every 3 months	01 57 20 PARA 3.2.8	every 3 months during construction	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to provide progress reports to CESAJ-CD-W and CESAJ-PD-E			
Turbidity Monitoring DEP Permit								
SC 14 and 15	Turbidity monitoring for various project component. Notification to DEP BBCS, CESAJ of any turbidity standard exceedance for various mixing zones, as applicable. Provide monitoring data sheets to DEP.	01 57 25 Throughout this section	Monitoring conducted daily for duration	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to monitor for duration. Violation requires cessation of dredging and corrective actions. Increase compliance monitoring to every two hours during daylight and every four hours during nighttime.			
SC 44	Provide turbidity test reports (electronically)	01 57 25 PARA 3.2.2	On a daily/weekly basis	Contractor	Contractor to provide reports. Failure to provide could result in revocation of permit. DEP to provide information to BBAP.			Contractor to provide first week of reports only to CESAJ to ensure contents. Afterwards, reports can go directly to DEP too. DEP to provide information to BBAP.
COE Permit (SAJ-2006-06547)/EPA SMMP								COE permit expires 7/25/15. EPA Concurrence expires 12/29/2014
I C.	COE permit limits dredged quantities of the Port's berthing areas to 198,000 cubic yards	NA	As needed	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to notify CESAJ-CD-W and CESAJ-PD-E, who notify CESAJ-RD and EPA if berthing area quantities are anticipated to exceed 198,000 cy			
I G.	Notification to CESAJ-RD and EPA Region IV if disposal operations are not accordance w/ permit, such as mis-dumps or vessel leaving approved corridors. Details of violations need to be included in summary reports	01 57 20 PARA 3.1.5.10 and 35 30 23 PARAS 3.4.2 and 3.4.6.2	As needed	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to immediately notify CESAJ-CD-W and CESAJ-PD-E, who notify CESAJ-RD and EPA CESAJ-RD at 305-779-6050 and EPA Region 404-562-9391			
I H.	Disposal to take place w/in the designated limits of the Ocean Dredged Material Disposal Site	35 20 23 PARA 3.4.2 and Plans C-24		Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to monitor dumps and notify CESAJ-CD-W and CESAJ-PD-E of missed dumps			

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I I AND K.	Electronic tracking system to be utilized for the duration of the project and include various data, such as load number, volume of load, etc.	01 57 20 PARA 3.1.510 and 35 30 34 PARA 3.4.6	Provided daily on contractor's web site (01 57 20 PARA 3.1.0)	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to conduct tracking and provide information the web site they establish for this project			
I L.	If hopper dredge is used monitoring for whales to be conducted	01 57 20 PARA 3.1.5.2	Conducted if hopper dredge is used	Contractor/ CESAJ-CD-W/ CESAJ-PD-E	Contractor to monitor			
After Construction								
DEP Permit								
SC 5	All submittals required in permit to be provided to the DEP offices in Tallahassee (JCPCompliance@dep.state.fl.us) and Palm Beach (Jennifer.K.Smith@dep.state.fl.us)	ALL reports with access to site 01 57 20 PARA 3.1.9	Prior to, during, and after construction	Contractor/ CESAJ-CD-W/ CESAJ-PD-E				
GC 12, SC 47	Send Notice of Completion, description of work completed, and as-built drawings/survey to DEP	Area Office to supply	After work completed	CESAJ-CD-W				
SC 16	Quantification of Seagrass Impacts. County to monitor seagrass impacts near channel and if amount exceeds 7.9 acres, additional mitigation may be required. Seagrass planting to be completed w/in 2 years after impacts.	County (POM) to supply	After work completed	County				
SC 22	Seagrass Monitoring of Julia Tuttle Mitigation Area conducted each year for 5 years - shoot counts (growth), percent cover (expansion), success.	County (POM) to supply	After completion of Tuttle Mitigation Area (During May to Oct)	County				
SC 23b and c	Julia Tuttle Seagrass Mitigation Site (transects and quadrats) - monitor growth with 70% (or more) cover as goal, and monitor expansion.	County (POM) to supply	Annually, after completion of Mitigation Area (During May to Oct)	County				
SC 24a and b	Julia Tuttle Mitigation Site (bed density and species composition)- establish quadrats (quantative sampling) and provide DEP annually with: Seagrass Mitigation Site Monitoring Reports.	County (POM) to supply	After survey completed (annually for five years)	County				
SC 25c, d, and e	Julia Tuttle Mitigation Site. Shoot density monitored yrs 2 through 5. Success evaluated. Trend analysis performed.	County (POM) to supply	After survey completed (annually for five years)	County	Success Criteria - trend analysis w/ trend toward success or additional planting			
SC 26 and 27a	Conduct seagrass survey at one year after of completion of work at the interior channel to assess impacts from the work.	County (POM) to supply	One year after completion of work within growing season (May to October)	County	Additional seagrass mitigation, if excessive sloughing occurs.			

**Miami Harbor Phase III Deepening Project
Environmental Compliance Matrix
Notification and Submittal Schedule
1/29/13**

Permit Holder: U.S. Army Corps of Engineers

Project Name: Miami Harbor Phase III

Pre-Con Date 7-Dec-12

Permit/Authorization No.: 0305721-001-BI

NTP Date 10-Dec-12

Issuance Date: 5/15/2012

Anticipated Construction Start Date 5-Jan-13

Expiration Date: 5/15/2017

Anticipated Construction Completion Date 30-Dec-14

Author

Task Reference	Task Requirement to be Accomplished	Contract Specification	Deadline/ Timeframe	Responsible Entity	Compliance/Violation/Exceedance action protocol	Anticipated Date Required	Date Provided	Comments
SC 28	Submit report associated with 26 and 27a to DEP	County (POM) to supply	w/in 90 days of survey	County				
SC 30	Monitoring of relocated scleractinian corals after transplant. Measure survival.	County (POM) to supply	monitoring surveys at 6 months, 1 year and 2 years after transplanted. Reports provided w/in 60 days of surveys	County	If less than 85% survival for 25cm and if less than 75% of 10 to 25cm at the end of two years additional transplanting			
SC 31b	Establish permanent transects and quadrats at artificial reef site and monitor to ensure success. Take photos and video	County (POM) to supply	Monitor annually for five years after site is completed. Additional bathymetric survey	County	Additional artificial reef mitigation if site does not achieve success			
SC 32	Monitoring of reefs adjacent to entrance channels, but only if documented impacts occur from work	County (POM) to supply	Annual monitoring for 3 years if documented impacts occur	County	Annual monitoring for 3 years if documented impacts occur			
SC 47	Submit Notice of Completion to DEP w/ required project information (dates, quantities, etc.)	01 57 20 PARA 1.5	After completion of project	CESAJ-CD-W				
COE Permit (SAJ-2006-06547)/EPA SMMP								COE permit expires 7/25/15. EPA Concurrence expires 12/29/2014
I K.	Conduct bathymetric survey of the Ocean Dredged Material Disposal Site (ODMDS)	NA	Within 60 days of completion of disposal in the ODMDS	CESAJ-CD-W/CESAJ-OD-NH/CESAJ-PD-E				
II C.	Provide disposal summary reports to CESAJ-RD and EPA Region 4	35 20 23 PARA 3.4.6.2	Within 45 days of completion of disposal in the ODMDS	Contractor/CESAJ-CD-W/CESAJ-OD-NH/CESAJ-PD-E				

http://www.saj.usace.army.mil/Divisions/Planning/Branches/Environmental/DocsNotices_OnLine_PermitComplMatrix.htm

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Contractor Personnel - TBD