

ATTACHMENT NO. 6

REQUEST FOR MIXING ZONE VARIANCE

ATTACHMENT NO. 6 REQUEST FOR MIXING ZONE VARIANCE

For the groin construction, a mixing zone variance is not requested since it is not expected that any phase of construction will have any substantial change to water quality. Temporary suspension of sediment particles in the water column may occur, but no significant turbidity levels greater than 29 NTU's above background levels are foreseen.

For the beach construction portion of the proposed project, the applicants request the same water quality monitoring plan granted by the FDEP for the existing Permit Modification No. 0270032-004-JN for the Lido Key Beach Nourishment Project that is currently under construction.

The applicant requests that the mixing zone for the beach site be established at 150 meters offshore and 150 meters downcurrent from the point where the return water from the dredged discharge reenters the Gulf of Mexico. Similar to the existing permit for Lido Key, the applicants request that criteria for extending the beach mixing zone be included as follows. If 2 exceedances of the turbidity standard occur within 30 days at the edge of the 150-meter mixing zone, in the offshore direction, the offshore dimension of the mixing zone would be increased to 300 meters. If 2 exceedances occur within 30 days at 150 meters in the alongshore direction, the alongshore dimension of the mixing zone will be increased to 500 meters. If 2 additional exceedances occur within 30 days at 500 meters in the alongshore direction, the alongshore dimension of the mixing zone will be increased to 1,000 meters. These increases shall not take effect until the JCP Compliance Officer has been notified of the change by email.

The maximum mixing zone (300-m offshore by 1,000 meters downcurrent) is shown in Attachment 33d. There are no natural resources within the mixing zone. The figure includes the boundary of the Outstanding Florida Waters (OFW), located in New Pass and Big Sarasota Pass. A portion of the dredge area and the mixing zone is located inside the OFW. We understand that the F.A.C. Rules do not allow turbidity to exceed 0 NTUs above background at the edge of the mixing zone inside the OFW; however, the applicants request to use guidance set forth in F.A.C. 62-4.242(2)(a-c). Further information may be collected to establish natural background variability in the OFW, at which time the sampling procedure will be coordinated with the Department.

Provided in Attachment No. 34 is the proposed turbidity monitoring plan.

Supporting Information

The mixing zone requested for this project has been reduced in size with each nourishment event. The requested mixing zone is a smaller than the variance approved by the FDEP for the 2001 Lido Key Interim Beach Nourishment Project, the 2009 Lido Key Beach Nourishment Project mixing zone variance, and it is identical to the 2015 Lido Key Beach Nourishment Project. The 2011 project monitoring data shows a turbidity value exceeding the compliance limit at the 750-m distance from the point of discharge, with no exceedances at the 1,000-m location. This supports the 1,000-m downcurrent distance from the point of discharge and shows that mixing zone is appropriately sized. The distance between 750-m and 1,000-m from point of discharge at

which the sample would return to a compliant level is unknown, and could be located anywhere between those two distances. The applicant is committed to performing intermediate sampling if the mixing zone is expanded beyond 150-meters.

2001 South Lido Key Interim Beach Nourishment Project

2001 Water Quality Monitoring Program: In 2001, the Florida Department of Environmental Protection (FDEP) issued a mixing zone variance which provided a mixing zone 300 meter offshore and 2,300 meters down-current of the discharge point (Attachment No. 6b). The FDEP permit established a water quality monitoring program which included monitoring of the water quality mixing zone every six hours during dredging at the beach disposal site (nearshore), and every six hours during dredging at the borrow site.

Two offshore water quality sampling stations (one control and compliance) and three nearshore water quality sample stations (one control and two compliance) were required. The offshore control samples were to be taken at least 300 meters up current from the dredge, and the compliance was to be taken no more than 150 meters down current from the dredge. Nearshore control samples were to be taken 400 meters offshore and up current from the point of discharge, and the two compliance stations were located 300 meters offshore and (1) directly offshore and (2) at a distance of 2,300 meters down current of the discharge point.

2001 Water Quality Monitoring Results: The 2001 Lido Key Beach Nourishment Project was constructed from March 2001 to April 2001. Numerous days were lost to mechanical repairs and to adverse sea conditions resulting in no dredging and no water quality monitoring on these days. The project construction did not result in the exceedance of the 29 NTU standard outside of the allowed mixing zone, based on the mixing zone variance water quality monitoring program results (Attachment No. 6b).

2009 Lido Key Beach Nourishment Project

2009 Water Quality Monitoring Program: In 2009, the Florida Department of Environmental Protection (FDEP) issued a mixing zone variance which provided a mixing zone 300 meter offshore and 1,500 meters down-current of the discharge point (Attachment No. 6a). The FDEP permit established a water quality monitoring program which included monitoring of the water quality mixing zone every six hours during dredging at the beach disposal site (nearshore), and every six hours during dredging at the borrow site.

Two offshore (dredge site) water quality sampling stations (one background and compliance) and two nearshore (beach site) water quality sample stations (one background and one compliance) were required. The offshore background samples were to be taken at least 300 meters up current from the dredge, and the compliance was to be taken 150 meters down-current from the dredge, in the densest portion of any visible turbidity plume. Nearshore background samples were to be taken approximately 500

meters up-current of the point where the return water from the dredged discharge re-enters the Gulf of Mexico, and the same distance offshore as the associated compliance sample, and the compliance station was collected where the densest portion of the turbidity plume crosses the edge of the mixing zone, which measures 300 meters offshore and 1,500 meters down-current from the point where the return water from the dredged discharge re-enters the Gulf of Mexico.

In addition to the compliance monitoring, supplemental turbidity monitoring was required to be conducted each day during construction within the mixing zone to collect data to assist with establishing the appropriate size of the mixing zone for future events. For these samples, the Background site was at mid-depth, at least 500 meters up-current from the point where the return water from the dredged discharge re-enters the Gulf of Mexico, and clearly outside the influence of any turbidity generated by the project, taken at a distance offshore to correspond with the distance of the intermediate sites. The intermediate sites were to be taken in the densest portion of the turbidity plume, at 150 meters, 300 meters, 500 meters, 750 meters and 1,000 meters from the point wherever the return water from the dredged discharge re-enters the Gulf of Mexico, at mid-depth.

2009 Water Quality Monitoring Results: The 2009 Lido Key Beach Nourishment Project was constructed April and May 2009. The project construction did not result in the exceedance of the 29 NTU standard outside of the allowed mixing zone, based on the mixing zone variance water quality monitoring program results.

The intermediate monitoring samples, which were not required for permit compliance but were gathered to establish future mixing zones, indicated one instance on April 1, 2009 where water quality exceeded the 29 NTU standard at 750 meters from the point wherever the return water from the dredged discharge re-enters the Gulf of Mexico, at mid-depth. The reading at this location was 35.93 NTU's above background (Attachment No. 6c).

ATTACHMENT NO. 6a

2008 FDEP MIXING ZONE VARIANCE

ATTACHMENT NO. 6b

2001 FDEP MIXING ZONE VARIANCE AND
WATER QUALITY MONITORING RESULTS

ATTACHMENT NO. 6c

2009 WATER QUALITY MONITORING SUMMARY

Notice of Variances and Waivers

DEPARTMENT OF ENVIRONMENTAL PROTECTION

RULE NO: RULE TITLE

[62-4.244](#): Mixing Zones: Surface Waters

NOTICE IS HEREBY GIVEN that on December 23, 2008, the Bureau of Beaches and Coastal Systems has issued an order.

The Department of Environmental Protection gives notice of its intent to grant a variance under Section 403.201, F.S., from the provisions of paragraph 62-4.244(5)(c), F.A.C., to the City of Sarasota, 1565 First Street, Room 100A, Sarasota, Florida 34236, (File No.0270032-002-EV) to temporarily establish an expanded mixing zone of 300 meters offshore and 1,500 meters downcurrent from the point of sand discharge onto the beach disposal area during the beach nourishment on Lido Key beach, between R 35.5 and R 44.2. The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at: Department of Environmental Protection, Bureau of Beaches and Coastal Systems, 3900 Commonwealth Boulevard, MS 300, Tallahassee, Florida 32399-3000, (850)414-7798.

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk): Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Mediation under Section 120.573 of the Florida Statutes is not available.

Because the administrative hearing process is designed to redetermine final agency action on the application, the filing of a petition for an administrative hearing may result in a modification of the agency action or even a denial of the application. If a sufficient petition for an administrative hearing or request for an extension of time to file a petition is timely filed, this agency action automatically becomes only proposed agency action on the application, subject to the result of the administrative review process. Accordingly, the applicant is advised not to commence construction or other activities in accordance with this variance until the deadlines noted below for filing a petition for an administrative hearing, or request for an extension of time has expired.

Under subsections 28-106.111(3) and 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with: Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon. If a request is filed late, the Department may still grant it upon a motion by the requesting party showing that the failure to file a request for an extension of time before the deadline was the result of excusable neglect.

In the event that a timely and sufficient petition for an administrative hearing is filed, other persons whose substantial interests will be affected by the outcome of the administrative process have the right to petition to intervene in the proceeding. Any intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

In accordance with subsection 28-106.111(2) and paragraph 62-110.106(3)(a), (4), F.A.C., petitions for an administrative hearing by the applicant must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first.

Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 14 days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition for an administrative hearing within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action; and (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action; (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301. Under Sections 120.569(2)(c) and (d), F.S., a petition for administrative hearing must be dismissed by the agency if the petition does not substantially comply with the above requirements or is untimely filed.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

This variance constitutes an order of the Department. The applicant has the right to seek judicial review of the order under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

A copy of the Order may be obtained by contacting: Molly Edson at (850)414-7798 or by email at Molly.Edson@dep.state.fl.us or by mail: 3900 Commonwealth Blvd., MS 300, Tallahassee, Florida 32399.

ATTACHMENT 6a
2001 LIDO KEY INTERIM BEACH NOURISHMENT PROJECT
MIXING ZONE VARIANCE



Department of Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

David B. Struhs
Secretary

Jeb Bush
Governor
In re:
Petition

APPLICANT: City of Sarasota c/o
Dennis Daughters, P.E.
1565 First Street – Room 100A
Sarasota, Florida 34236

PROJECT NAME: Lido Key South Beach
Nourishment Project
Variance No. 0158095-002-EV
Sarasota County

FINAL ORDER

BY THE DEPARTMENT:

The Department received from the City of Sarasota a Petition for Variance, pursuant to Section 403.201(1), Florida Statutes (F.S.), and Section 62-110.104, Florida Administrative Code (F.A.C.). The Petitioner requested relief from Rule 62-4.244(5)(c), F.A.C., to establish a temporary mixing zone greater than 150 meters within an area of Class III Waters of the Gulf of Mexico. Specifically, the Petitioner has requested a temporary mixing zone for turbidity at the beach nourishment site extending 300 meters offshore and up to 2,300 meters down current from the point of discharge, which shall not extend into the Sarasota Bay Estuarine System (OFW).

After reviewing the Petition for Variance, the Department staff concluded that it satisfied the requirements and criteria set forth in Section 403.201, F.S. Specifically, the applicant has demonstrated that there is no practicable means known or available to control turbidity in this situation.

The Consolidated Notice of Intent to Issue Joint Coastal Permit, Authorization to Use Sovereign Submerged Lands, and Variance notified the Petitioner of the Department's proposed agency action and advised it of its right to a hearing pursuant to Sections 120.569 and 120.57, F.S. On May 19, 2000, notice was given in the Sarasota Herald Tribune and in the Florida Administrative Weekly informing the public of the Department's intended action and offering an opportunity for hearing pursuant to Sections 120.569 and 120.57, F.S. A copy of the notice is attached as Exhibit A.

The Petitioner and interested parties having been advised of their rights under Chapter 120, F.S., and having failed or declined to file a Petition pursuant to Sections 120.569 and 120.57, F.S., are hereby deemed to have waived those rights. Acceptance of the variance constitutes notice and agreement that the Department will periodically review this variance for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof. It is therefore:

"More Protection, Less Process"

Printed on recycled paper.

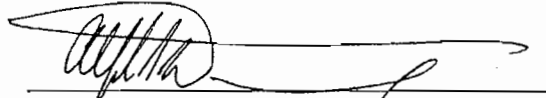
Notice of Final Order
City of Sarasota
Variance No. 0158095-002-EV
Page 2 of 2

ORDERED by the State of Florida, Department of Environmental Protection, that the Petition of Sarasota County requesting a variance be and is hereby granted, subject to the conditions specified by Department staff in Permit No. 0158095-001-JC.

Any Party to this Order has the right to seek judicial review of the Order Pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of the Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Order is filed with the clerk of the Department.

DONE AND ORDERED this 26th day of September, 2000, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Alfred B. Devereaux, Jr., Director
Office of Beaches and Coastal Systems

Copies furnished to:
Robert Stetler, DEP/Southwest District, Tampa
David Arnold, FWC, BPSM
Chuck Sultzman, USFWS
Rick Spadoni, CP & E
Jerris Foote, Mote Marine Laboratory
Robbin Trindell, FWC, BPSM
Joseph R. Bacheler, U. S. Army Corps of Engineers
Phil Flood, OBCS
Robert Brantly, OBCS

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.



Deputy Clerk

9/26/00

Date

ATTACHMENT NO. 6b
2001 LIDO KEY INTERIM BEACH NOURISHMENT PROJECT
WATER QUALITY MONITORING RESULTS

TABLE 1

SOUTH LIDO KEY, SARASOTA, FL 2001 INTERIM BEACH NOURISHMENT PROJECT
BEACH FILL AREA TURBIDITY

DATE	TIME		WIND		SEAS (Est. Ft.)	TIDE (Stage)	CURRENT DIRECTION	BACKGROUND (NTU's)		COMPLIANCE: 2.300 M DOWNCURRENT OF DISCHARGE		COMPLIANCE: 300 M OFFSHORE OF DISCHARGE	
	FIRST SAMPLE	LAST SAMPLE	SPEED (Est. Knts)	DIR.				SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM
	3/9/2001	11:25 16:55	12:45 17:25	10-15 15-18				S N	1-2 2-4	FLOOD EBB	N TO S S TO N	1.8 2.9	2.1 3.0
3/10/2001	01:10 06:25 12:30	01:55 07:05 13:05	5-10 10 10	N N N	1-2 1-2 1-2	FLOOD EBB FLOOD	N TO N S TO N N TO S	2.9 3.1 3.9	3.2 3.0 3.5	2.5 3.9 3.6	3.1 3.1 3.1	9.5 7.7 7.4	9.9 8.5 8.9
3/11/2001	18:45 01:05 05:45 13:15 20:25	19:15 01:38 06:10 13:35 20:45	5-10 LIGHT LIGHT 5 LIGHT	S S S S S	1-2 1-2 1-2 1-2 1-2	H. SLACK EBB FLOOD L. SLACK L. SLACK	N TO S N TO S N TO S N TO S N TO S	3.9 3.8 3.9 4.5 3.9	4.1 4.2 4.5 5.5 4.5	3.0 3.8 3.5 4.9 3.3	3.5 4.0 4.1 5.3 3.9	7.0 14.8 12.3 10.1 11.8	8.9 15.1 9.8 8.8 12.1
3/12/2001	01:55 05:15 13:35	02:15 05:45 14:00	10-20 10-15 20	N N N	2-3 2-3 2-4	H. SLACK EBB H. SLACK	S TO N S TO N S TO N	4.3 4.6 4.5	5.1 4.0 5.1	3.2 4.0 5.1	3.8 5.0 5.6	15.7 10.0 12.8	16.2 9.5 13.9
TOO ROUGH TO SAFELY CONDUCT WATER QUALITY MONITORING													
3/13/2001	07:55 14:00 20:10	08:17 14:27 20:38	15-20 15-17 15-18	S S S	3-4 3 3	EBB FLOOD EBB	N TO S N TO S N TO S	3.9 5.1 4.2	4.0 5.5 5.0	3.5 4.0 4.1	3.9 4.7 4.8	15.0 12.3 12.1	16.5 11.0 15.8
3/14/2001	02:05 08:57 14:32 23:15	02:33 09:20 15:00 23:37	10-15 10-12 10-12 10	W W W W	3 3 2-3 2-3	FLOOD EBB FLOOD L. SLACK	N TO S N TO S N TO S N TO S	6.5 5.9 4.4 4.6	7.1 4.9 4.6 4.4	5.0 3.3 3.8 3.9	4.9 4.0 4.9 4.2	15.3 19.7 18.5 14.0	17.1 16.1 20.3 16.3
3/15/2001	05:03 10:45 16:46 22:09	05:43 11:05 17:15 22:44	15 15 15 12-15	S SW SW S	2-3 2-3 2-3 3	FLOOD FLOOD EBB EBB	S TO N N TO S N TO S N TO S	12.9 12.2 10.3 13.4	14.0 14.8 11.2 15.1	7.1 10.0 9.3 10.0	8.8 11.8 10.5 11.9	19.3 13.7 19.9 21.8	21.8 12.7 21.2 23.0
3/16/2001	06:05 11:50 17:15 22:36	06:30 12:14 17:49 22:55	10-15 10-15 5-10 5-10	S SW S S	2-3 2-3 2-3 2	FLOOD FLOOD H. SLACK EBB	S TO N S TO N S TO N N TO S	11.9 13.1 11.7 8.0	10.3 13.9 15.8 14.9	11.1 10.1 7.3 7.1	7.9 10.0 8.9 6.3	23.3 15.8 19.0 19.9	24.7 13.7 15.3 21.5
3/17/2001	05:35	06:00	LIGHT	SW	1-2	FLOOD	N TO S	7.2	8.1	5.5	8.1	17.8	15.3
NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE													
3/18/2001	NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE												
3/19/2001	10:03 14:45 21:05	10:21 15:05 21:28	10-12 10-12 10-12	EAST EAST SW	1-2 1-2 1-2	FLOOD L. SLACK EBB	N TO S N TO S N TO S	8.1 5.5 8.0	7.5 8.9 7.2	6.6 6.0 5.9	7.9 6.0 6.6	15.8 18.1 22.8	20.1 20.2 24.5
3/20/2001	03:05	03:33	15	W	2-3	E	N TO S	9.8	11.2	7.8	9.1	17.7	19.8
NO CONSTRUCTION - ADVERSE WEATHER & MECHANICAL PROBLEM WITH TRANSFER LINE													
3/21/2001	NO CONSTRUCTION - ADVERSE WEATHER & MECHANICAL PROBLEM WITH TRANSFER LINE												
3/22/2001	NO CONSTRUCTION - ADVERSE WEATHER & MECHANICAL PROBLEM WITH TRANSFER LINE												
3/23/2001	NO CONSTRUCTION - ADVERSE WEATHER & MECHANICAL PROBLEM WITH TRANSFER LINE												
3/23/2001	19:08	19:38	5-10	SW	1-2	FLOOD	N TO S	7.9	8.0	6.6	7.1	12.5	11.0

TABLE 1
SOUTH LIDO KEY, SARASOTA, FL 2001 INTERIM BEACH NOURISHMENT PROJECT
BEACH FILL AREA TURBIDITY

DATE	TIME		WIND		SEAS (Est. Ft.)	TIDE (Stage)	CURRENT DIRECTION	BACKGROUND (NTU's)		COMPLIANCE: 2.300 M DOWNCURRENT OF DISCHARGE		COMPLIANCE: 300 M OFFSHORE OF DISCHARGE	
	FIRST SAMPLE	LAST SAMPLE	SPEED (Est. Knts)	DIR.				SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM
	3/24/2001	02:55	03:18	5-10				SW	1	EBB	N TO S	6.6	10.3
	13:05	13:29	5	SW	1	EBB	N TO S	8.9	10.5	5.9	6.3	22.5	24.9
	20:05	20:25	5	SW	1		N TO S	7.1	6.6	5.0	4.5	17.8	20.1
3/25/2001	03:47	04:17	5	SW	1-2	EBB	N TO S	8.9	9.5	5.5	6.9	23.5	21.1
	08:35	08:58	5	SW	1-2	FLOOD	N TO S	9.9	8.3	6.5	8.0	25.5	23.2
	13:55	14:18	10	SW	1-2	EBB	N TO S	7.9	6.6	5.5	5.9	24.4	26.8
	20:03	20:18	5-10	NW	1-2	FLOOD	N TO S	6.9	7.9	5.8	5.5	22.8	20.3
3/26/2001	02:05	02:24	5-10	NE	1-2	EBB	N TO S	9.9	8.7	6.8	5.9	21.3	23.8
	09:30	09:51	10	NE	1-2	FLOOD	N TO S	8.8	10.2	7.3	6.2	18.9	16.6
	15:47	16:05	15	NE	1-2	EBB	N TO S	6.9	5.9	4.9	4.5	19.8	21.7
	22:35	22:59	15	NE	1-2	FLOOD	N TO S	10.4	9.6	6.6	7.4	22.2	20.5
3/27/2001	03:05	03:23	10	NE	1-2	EBB	N TO S	10.5	9.9	6.4	7.8	17.8	21.2
	07:55	08:14	10	NE	1-2	L. SLACK	NONE DETECTED	7.7	9.2	6.6	6.3	19.9	17.3
	14:44	15:05	15	NE	1-2	EBB	N TO S	7.2	6.6	5.2	6.5	14.4	13.5
	22:35	22:59	10-15	NE	1-2	FLOOD	N TO S	7.0	9.5	4.9	5.5	14.4	12.9
3/28/2001	04:25	04:42	10-15	NE	2-3	EBB	N TO S	8.8	10.1	7.6	7.9	19.2	23.5
	NO SAMPLES BETWEEN SIX A.M. AND NOON. CHANGED PROPS ON SURVEY VESSEL CAPT. TOM												
	17:57	18:19	10	NE	2-3	EBB	N TO S	9.4	7.9	5.4	7.4	18.9	22.3
	22:42	23:00	10	NE	2-3	FLOOD	N TO S	6.8	7.9	4.9	6.8	14.3	12.9
3/29/2001	03:35	03:55	10	NE	2-3	H. SLACK	N TO S	8.0	6.9	7.0	7.1	14.5	18.8
	09:50	10:14	20-25	S	3-5	FLOOD	N TO S	8.0	6.9	6.9	5.9	9.8	10.2
	TOO ROUGH TO SAFELY CONDUCT WATER QUALITY MONITORING												
3/30/2001	20:35	20:57	5-10	S	3-4	EBB	N TO S	9.5	11.3	6.9	8.8	19.8	18.3
	SEVERE WEATHER PREVENTS SAFE WATER QUALITY MONITORING SAMPLING												
3/31/2001	03:15	03:32	10	S	2-3	FLOOD	N TO S	5.9	8.3	5.6	5.9	19.2	21.0
	09:33	09:57	10	SE	2-3	FLOOD	N TO S	5.2	4.8	4.9	5.0	17.1	15.5
	15:45	16:09	10-15	SE	2-3	H. SLACK	NONE DETECTED	5.1	6.8	5.2	5.2	12.9	16.3
	22:00	22:22	10-15	SE	2-3	EBB	S TO N	6.8	8.3	7.5	6.6	11.8	15.6
4/1/2001	05:45	06:08	10	NW	2	FLOOD	N TO S	6.6	8.3	5.1	4.2	18.8	20.9
	NO CONSTRUCTION - DREDGE OFF-SITE FOR REPAIRS												
4/2/2001	07:25	07:46	5	NE	0-1	FLOOD	N TO S	5.7	6.3	5.0	4.9	9.3	8.9
	14:08	14:25	5-10	NE	0-1	FLOOD	N TO S	6.9	5.8	6.4	4.5	18.3	14.6
	20:25	20:48	5-10	NE	0-1	EBB	S TO N	5.6	4.2	3.8	4.0	15.6	11.2
4/3/2001	03:22	04:23	5-10	SW	1-2	EBB	S TO N	3.4	8.0	7.4	8.3	3.1	2.8
	12:34	13:43	10-15	SW	2-3	H. SLACK	NONE DETECTED	3.7	7.7	7.6	8.4	3.4	2.9
	20:23	21:26	5-15	SW	1-3	FLOOD	N TO S	6.6	9.1	5.7	8.3	9.2	10.6
4/4/2001	02:50	03:36	LIGHT	E	CALM	EBB	NORTHWEST	4.2	5.4	4.5	5.8	6.2	7.5
	10:20	11:26	5	SE	1	FLOOD	N TO S	7.9	6.6	5.5	5.9	15.4	17.7
	19:15	20:15	5	SE	1	EBB	S TO N	6.9	5.8	6.4	4.6	18.3	15.0
4/5/2001	02:15	03:11	5	E	1	EBB	S TO N	5.1	5.9	4.8	5.2	12.2	14.1
	NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE												
4/6/2001	07:00	07:42	5	E	1	LOW	N TO S	3.7	4.2	4.4	7.2	11.8	10.1
	13:52	14:16	5-10	S	1	EBB	S TO N	2.8	3.1	4.2	5.6	6.4	7.2
	20:11	20:42	5-10	SW	1	FLOOD	N TO S	2.6	3.2	4.2	3.6	16.3	16.9
4/7/2001	06:43	07:16	5-10	SSE	1	EBB	SW TO NE	2.5	3.4	3.6	4.4	3.4	4.9
	12:55	13:27	5	SW	1	FLOOD	N TO S	3.0	2.8	4.1	3.7	8.8	9.1
	18:13	18:46	CALM	SW	1	EBB	SW TO NE	2.6	3.0	3.5	3.1	5.8	8.5
4/8/2001	02:42	03:15	CALM	SW	CALM	EBB	S TO N	2.8	3.6	3.2	4.7	12.9	14.1
	09:00	09:38	CALM	SW	CALM	FLOOD	NW TO SE	3.3	4.5	4.1	3.8	21.4	19.3
	15:03	15:34	5-10	SW	1	EBB	SW TO NNE	2.0	4.5	3.8	6.1	15.7	14.2
	19:05	19:36	5-10	W	1	EBB	NW TO SE	1.9	3.4	4.2	5.3	13.6	14.3

TABLE 1
SOUTH LIDO KEY, SARASOTA, FL 2001 INTERIM BEACH NOURISHMENT PROJECT
BEACH FILL AREA TURBIDITY

DATE	TIME		WIND		SEAS (Est. Ft.)	TIDE (Stage)	CURRENT DIRECTION	BACKGROUND (NTU's)		COMPLIANCE: 2,300 M DOWNCURRENT OF DISCHARGE		COMPLIANCE: 300 M OFFSHORE OF DISCHARGE	
	FIRST SAMPLE	LAST SAMPLE	SPEED (Est. Knts)	DIR.				SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM
4/9/2001	23:54	00:27	5	NNW	CALM	FLOOD	NW TO SE	3.2	4.5	3.7	6.5	22.1	11.3
NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE													
4/10/2001	NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE												
4/11/2001	03:26	03:55	5	SE	1	FLOOD	S TO N	3.0	3.4	4.2	4.5	6.6	7.7
	10:10	10:36	10	SSE	1-2	FLOOD	S TO N	4.2	4.4	4.1	4.9	7.8	5.7
	16:17	16:54	5	S	1-2	EBB	NE TO SW	4.8	5.4	3.9	4.6	13.7	12.0
4/12/2001	01:13	02:04	CALM	S	1	FLOOD	TO	5.1	4.6	3.3	7.4	22.7	16.6
	07:12	07:44	5	S	1	EBB	TO	6.9	5.9	1.9	6.6	24.7	17.3
	15:36	16:14	5-10	WSW	1-2	EBB	N TO S	6.1	6.9	5.7	4.8	14.9	15.3
	21:10	21:51	10	SW	1-2	EBB	SW TO NE	5.7	5.1	3.1	5.9	15.8	14.3
4/13/2001	01:35	02:17	5	S	1	EBB	N TO S	4.0	3.3	6.7	7.6	18.2	16.7
	09:05	09:46	5-10	SW	1	FLOOD	S TO N	5.2	8.7	7.7	6.2	15.7	28.7
	23:07	23:44	5	W	1-2	EBB	N TO S	4.2	5.1	5.7	6.1	16.8	17.4
4/14/2001	06:50	07:19	5	SW	1	FLOOD	N TO S	5.2	8.7	9.2	11.2	19.9	22.3
	14:30	14:52	10-15	SW	1	FLOOD	N TO S	7.2	8.3	7.9	13.4	26.5	29.3
	19:23	19:54	5-10	W	1	EBB	S TO N	8.0	6.0	6.0	7.5	24.6	28.0
4/15/2001	23:49	00:29	5	W	1	EBB	SE TO NW	5.2	6.8	7.6	8.3	20.7	18.7
	07:21	07:47	5	SW	1	FLOOD	N TO S	2.9	4.7	6.3	3.9	12.5	13.7
	13:47	14:13	5-10	SW	1	FLOOD	N TO S	7.3	8.1	7.9	13.4	18.4	22.3
	21:41	22:02	10	W	1-2	EBB	S TO N	6.5	7.4	7.5	11.7	19.9	25.7
4/16/2001	03:54	04:23	5-10	WNW	1-2	LOW	NW TO SE	4.2	5.0	3.7	4.4	18.7	16.8
	20:04	20:31	15-20	WNW	2-3	EBB	NW TO SE	6.9	8.4	7.7	9.6	14.7	16.2
4/17/2001	04:22	04:54	15-20	WNW	2	LOW	NW TO SE	5.8	8.8	4.5	5.1	19.3	16.3
	09:39	10:03	15-25	WNW	2-3	FLOOD	NW TO SE	7.2	8.4	9.3	6.7	14.5	15.1
	16:08	16:40	15-25	NW	2-3	FLOOD	N TO S	7.6	5.4	5.3	5.0	14.6	17.2
4/18/2001	NO SAMPLES TAKEN BEFORE NOON, TOO ROUGH												
	14:57	15:20	15-20	NE	3	EBB	S TO N	7.1	9.5	7.6	6.3	17.8	19.2
4/19/2001	20:07	20:36	15	NE	2-3	FLOOD	S TO N	5.5	9.9	7.2	8.8	12.8	16.2
	03:09	03:33	5-10	E	1-2	EBB	N TO S	6.2	7.9	5.8	6.0	12.2	10.1
	10:45	11:11	10	E	1-2	FLOOD	S TO N	3.4	5.1	6.2	6.9	16.2	14.9
	17:25	17:47	10	E	1-2	EBB	N TO S	4.7	6.3	4.5	4.2	11.6	15.3
	22:35	23:01	10	E	1-2	FLOOD	S TO N	3.5	5.1	6.0	5.1	10.5	9.9
4/20/2001	04:45	05:08	10	E	1-2	EBB	N TO S	4.4	6.3	4.0	4.5	16.2	12.1
	10:02	10:25	10	E	1	FLOOD	S TO N	4.7	3.5	6.7	8.2	17.7	21.6
	14:45	15:10	5-10	SW	1	EBB	N TO S	2.3	3.3	1.9	2.3	6.4	8.9
	19:55	20:19	5	SW	1	FLOOD	S TO N	2.5	3.9	5.1	4.0	10.5	8.6
4/21/2001	01:33	01:59	5-10	SE	1-2	EBB	N TO S	5.0	4.1	4.8	4.1	10.5	8.6
	10:35	10:58	5	E	1	FLOOD	S TO N	2.6	4.1	3.4	3.8	11.6	15.2
	15:15	15:38	5-10	SE	1-2	EBB	N TO S	4.7	5.1	4.1	4.0	7.2	6.6
	22:06	22:24	5	SE	1-2	FLOOD	S TO N	4.8	3.9	5.8	7.6	9.6	10.8
4/22/2001	03:45	04:10	5-10	E	1-2	EBB	N TO S	6.2	7.3	5.1	3.6	15.6	20.2
	10:17	10:42	10	E	0-1	FLOOD	S TO N	6.3	4.9	7.1	6.3	17.6	18.9
	16:10	16:34	10	SW	1-2	EBB	N TO S	7.3	7.9	5.2	6.5	17.6	20.9
	21:45	22:09	5	SW	1	FLOOD	S TO N	7.9	8.5	5.5	6.8	17.6	21.3
4/23/2001	06:10	06:32	1	E	1	EBB	N TO S	8.6	6.3	7.3	5.8	17.9	15.6
CONSTRUCTION COMPLETED													

TABLE 2

2001 SOUTH LIDO KEY, SARASOTA, FL INTERIM BEACH NOURISHMENT PROJECT
BORROW AREA TURBIDITY

DATE	HOPPER LOAD NO.	TIME		WIND		SEAS (Est. Ft.)	TIDE (Stage)	CURRENT DIRECTION	BACKGROUND (NTU's)		COMPLIANCE: 150 M DOWNCURRENT FROM DREDGE	
		FIRST SAMPLE	LAST SAMPLE	SPEED (Est. Knts)	DIR.				SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM
3/9/2001	1	05:30	05:45	10	S	1-1.5	EBB	S TO N	2.3	2.6	6.1	6.9
	2	10:15	10:25	10	S	1-1.5	FLOOD	N TO S	1.9	2.6	5.9	5.5
	3	14:45	14:55	10-15	S	1-2	EBB	S TO N	2.4	3.0	6.0	7.1
	4	19:25	19:45	15-18	S	2-4	SLACK	S TO N	2.8	2.9	8.0	8.5
	5	23:35	23:55	15-18	S	2-4	FLOOD	N TO S	2.9	2.8	7.6	7.3
3/10/2001	6	05:15	05:25	10	N	1-3	EBB	S TO N	2.5	3.1	7.1	8.0
	7	09:50	09:55	10	N	1-3	FLOOD	N TO S	2.9	2.9	8.7	7.9
	8	14:00	14:10	10	N	1-3	H. SLACK		1.9	2.3	7.5	8.5
	9	17:50	18:05	10	N	1-3	EBB	S TO N	2.1	2.5	8.9	9.3
	10	21:50	22:05	LIGHT	N	1-2	FLOOD	N TO S	1.5	2.3	7.0	7.9
3/11/2001	11	02:00	02:15	LIGHT	S	1-2	EBB	S TO N	2.9	3.1	9.7	6.5
	12	07:10	07:20	LIGHT	S	1-2	EBB	S TO N	1.9	1.5	10.1	9.1
	13	10:45	11:00	LIGHT	VAR.	1-2	FLOOD	S TO N	2.4	2.3	7.3	8.0
	14	15:05	15:20	LIGHT	S	1-2	EBB	N TO S	2.9	2.8	9.7	10.1
	15	19:12	19:35	LIGHT	S	1-2	EBB	N TO S	2.9	2.3	10.3	7.1
3/12/2001	16	23:05	23:15	10-20	S	3-4	FLOOD	S TO N	3.9	4.1	12.2	10.8
	17	03:15	03:25	10-20	S	3-4	EBB	N TO S	2.9	2.5	11.9	12.5
	18	07:35	07:50	15	S	3-4	EBB	N TO S	3.3	3.9	13.9	10.5
	19	11:47	12:00	20	S	4-6	FLOOD	S TO N	3.5	2.9	11.0	13.1
	20	15:30	15:40	20-25	S	5-6	EBB	N TO S	2.9	3.5	10.2	8.2
	21			20-25	S	6						
	22			20-25	S	6						
3/13/2001	23			20	S	4-6						
	24	07:35	07:43	15-20	S	4-6	EBB	N TO S	3.8	4.0	12.9	14.8
	25	12:25	12:35	15-20	S	4-6	FLOOD	S TO N	NO REPORT	NO REPORT	14.5	10.8
	26	15:45	15:55	15-20	S	4-6	EBB	N TO S	4.1	3.2	15.2	12.9
	27	19:15	19:48	15-16	S	3-5	EBB	N TO S	3.0	2.8	12.9	14.8
3/14/2001	28	00:05	00:18	10-15	W	4-5	FLOOD	SW TO NE	4.1	4.0	17.5	15.3
	29	04:30	04:43	10-15	NW	4-5	H. SLACK	W TO E	5.1	4.9	11.9	15.8
	30	08:42	08:55	10-15	W	3-5	EBB	N TO S	3.5	4.7	10.1	18.9
	31	13:00	13:14	10-15	SW	3-5	FLOOD	S TO N	2.9	4.5	12.7	19.1
	32	17:02	17:10	10-12	SW	3-4	EBB	N TO S	3.3	4.5	17.9	15.3
	33	22:14	22:24	10-12	SW	3-4	EBB	N TO S	4.5	4.1	19.1	16.0
3/15/2001	34	02:43	02:55	15	S	4	FLOOD	S TO N	7.3	8.9	19.2	21.2
	35	07:00	07:17	15	S	4	EBB	N TO S	5.7	6.5	17.1	21.5
	36	11:28	11:40	10-15	S	3-4	FLOOD	S TO N	7.3	7.8	15.0	22.3
	37	16:05	16:17	10-15	S	3-4	EBB	S TO N	5.6	12.1	21.0	23.9
	38	20:12	20:22	15	S	4	EBB	S TO N	7.8	9.0	18.9	20.0
3/16/2001	39	00:33	00:45	10-15	S	3-4	L. SLACK	S TO N	6.0	8.9	16.3	19.2
	40	05:15	05:24	10-15	S	3-4	FLOOD	S TO N	8.9	7.1	15.5	16.1
	41	10:00	10:11	10-12	SW	3-4	FLOOD	S TO N	5.5	9.9	20.3	19.0
	42	14:27	14:42	10-12	SW	3	FLOOD	S TO N	5.0	4.5	16.8	22.3
	43	19:35	19:48	10	SW	2-3	EBB	N TO S	6.9	7.5	18.0	15.8
	44	23:33	23:44	5-10	SW	2-3	EBB	N TO S	4.4	8.9	15.2	10.8

TABLE 2

2001 SOUTH LIDO KEY, SARASOTA, FL INTERIM BEACH NOURISHMENT PROJECT
BORROW AREA TURBIDITY

DATE	HOPPER LOAD NO.	TIME		WIND		SEAS (Est. Ft.)	TIDE (Stage)	CURRENT DIRECTION	BACKGROUND (NTU's)		COMPLIANCE: 150 M DOWNCURRENT FROM DREDGE		
		FIRST SAMPLE	LAST SAMPLE	SPEED (Est. Knts)	DIR.				SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM	
3/17/2001	45	04:20	04:29	LIGHT	SW	2	FLOOD	S TO N	6.1	8.0	15.9	19.5	
NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE													
3/18/2001	NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE												
3/19/2001	46	02:35	02:45	10	E	2-3	EBB	N TO S	6.9	9.8	12.3	16.0	
	47	07:00	07:09	15	E	2-3	FLOOD	S TO N	6.3	11.5	11.9	20.8	
	48	10:57	11:08	15-18	E	2-3	FLOOD	S TO N	7.8	8.4	18.5	15.7	
	49	15:20	15:32	15	E	2-3	FLOOD	S TO N	5.0	9.1	22.5	19.3	
	50	20:11	20:20	10	SW	2-3	H. SLACK	S TO N	6.9	10.0	17.6	20.9	
3/20/2001	51	00:15	00:28	15	W	4-5	EBB	N TO S	7.3	6.5	16.9	20.2	
	52	04:42	04:50	15	W	4-5	L. SLACK	N TO S	5.8	10.3	18.0	25.2	
NO CONSTRUCTION - ADVERSE WEATHER & MECHANICAL PROBLEM WITH TRANSFER LINE													
3/21/2001	NO CONSTRUCTION - ADVERSE WEATHER & MECHANICAL PROBLEM WITH TRANSFER LINE												
3/22/2001	NO CONSTRUCTION - ADVERSE WEATHER & MECHANICAL PROBLEM WITH TRANSFER LINE												
3/23/2001	NO CONSTRUCTION - ADVERSE WEATHER & MECHANICAL PROBLEM WITH TRANSFER LINE												
3/24/2001	53	15:47	15:59	10	W	3	EBB	N TO S	5.3	8.9	15.8	19.1	
	54	21:15	21:25	10	W	3	FLOOD	S TO N	6.4	7.9	12.0	15.5	
	55	02:10	02:22	5-10	SW	2-3	EBB	N TO S	5.5	10.0	15.8	18.1	
	56	07:03	07:14	5-10	SW	2-3	L. SLACK	NONE DETECTED	5.9	8.4	18.8	15.1	
	57	12:08	12:21	5	SW	1-2	FLOOD	S TO N	4.9	5.9	20.3	21.9	
3/25/2001	58	16:24	16:33	5-10	SW	2	EBB	N TO S	6.7	7.8	12.8	15.5	
	59	20:54	21:05	8-12	SW	2	FLOOD	S TO N	6.6	8.7	17.8	21.5	
	60	03:00	03:11	5-10	SW	2	EBB	N TO S	7.5	9.8	19.8	22.3	
	61	07:42	07:51	5	SW	2	FLOOD	SLIGHTLY FROM N	7.7	5.9	21.9	17.5	
3/26/2001	62	13:08	13:21	5-10	SW	1-2	FLOOD	S TO N	6.4	9.2	15.4	21.9	
	63	17:37	17:48	5	W	1-2	EBB	N TO S	5.9	6.8	22.7	24.1	
	64	22:15	22:25	10	NW	1-2	FLOOD	S TO N	7.7	6.3	19.9	23.4	
	65	02:58	03:10	10	NE	2-3	EBB	N TO S	8.9	9.5	17.6	21.4	
	66	07:27	07:39	10	NE	2-3	L. SLACK	N TO S	9.9	10.4	17.8	15.0	
	67	12:15	12:25	10	NE	2-3	FLOOD	S TO N	7.1	6.2	16.6	21.3	
	68	17:16	17:24	10-15	NE	2-3	EBB	N TO S	5.9	9.8	15.8	19.2	
3/27/2001	69	21:29	21:39	15	NE	3	FLOOD	S TO N	7.7	5.9	15.3	19.9	
	70	02:07	02:15	10	NE	3	H. SLACK	S TO N	5.8	9.9	12.8	15.4	
	71	07:00	07:09	10	NE	3	EBB	N TO S	7.3	5.9	11.0	9.8	
	72	12:32	12:43	10-15	NE	3-4	FLOOD	S TO N	6.5	6.2	11.9	15.7	
	73	17:14	17:25	10-15	NE	4	EBB	N TO S	8.0	6.8	16.8	13.3	
3/28/2001	74	21:33	21:42	15	NE	4	FLOOD	S TO N	5.1	9.2	16.5	15.9	
	75	02:15	02:23	10-15	NE	3-4	H. SLACK	S TO N	8.3	9.5	17.9	20.8	
	76	07:10	07:18	10-15	NE	3-4	EBB	N TO S	8.2	10.1	17.0	15.3	
	COULD NOT TAKE SAMPLE. SURVEY VESSEL "CAPT. TOM" LIFTED AND PROPS CHARGED AT MARINA IN SARASOTA												
	77	17:05	17:14	10	NE	4	EBB	N TO S	6.8	8.3	12.8	19.1	
	79	21:57	22:05	10	NE		L. SLACK	N TO S	9.3	7.2	21.3	23.9	

TABLE 2

2001 SOUTH LIDO KEY, SARASOTA, FL INTERIM BEACH NOURISHMENT PROJECT
BORROW AREA TURBIDITY

DATE	HOPPER LOAD NO.	TIME		WIND		SEAS (Est. Ft.)	TIDE (Stage)	CURRENT DIRECTION	BACKGROUND (NTU's)		COMPLIANCE: 150 M DOWNCURRENT FROM DREDGE	
		FIRST SAMPLE	LAST SAMPLE	SPEED (Est. Knts)	DIR.				SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM
3/29/2001	80	02:47	02:55	10	NE	3-4	FLOOD	S TO N	9.5	7.5	16.8	18.5
	81	07:42	07:49	10-15	SE	3-4	EBB	N TO S	8.8	10.2	13.3	19.9
	82			15-35	SW	5-7			ADVERSE WEATHER - UNSAFE CONDITIONS PREVENT SAMPLING			
	83			15-35	SW	5-7			ADVERSE WEATHER - UNSAFE CONDITIONS PREVENT SAMPLING			
	84			15-35	SW	5-7			ADVERSE WEATHER - UNSAFE CONDITIONS PREVENT SAMPLING			
3/30/2001	85	ADVERSE WEATHER - SEVERE LIGHTNING STORM ALL NIGHT LONG WITH HIGH WINDS PREVENTED SAMPLING										
	86	19:45	19:54	10	SW	4-5	EBB	N TO S	9.8	12.5	17.8	23.5
3/31/2001	87	02:11	02:22	10	S	4	FLOOD	S TO N	1.5	2.8	14.8	19.2
	88	08:30	08:40	10	SE	4	FLOOD	S TO N	1.8	5.5	11.0	9.3
	89	14:51	14:59	10-15	SE	4	FLOOD	S TO N	3.6	2.9	15.6	11.9
	90	21:03	21:11	10-15	SE	4-5	EBB	N TO S	3.8	4.8	9.9	18.3
	4/1/2001	91	04:37	04:46	10	NW	4	FLOOD	S TO N	3.1	2.5	11.3
4/2/2001	NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE											
4/2/2001	92	06:17	06:26	5	NE	2-3	FLOOD	S TO N	3.3	5.8	13.9	18.6
	93	12:52	13:04	5	NE	2-3	FLOOD	S TO N	2.1	4.3	15.6	13.2
	94	18:44	18:55	5-10	NE	2-3	FLOOD	S TO N	1.9	4.8	10.3	17.2
	95	23:42	23:55	8-10	NE	2-3	EBB	N TO S	4.0	3.6	18.8	15.5
4/3/2001	96	00:54	01:22	5-10		2-3	EBB	N TO S	3.7	4.2	17.2	15.0
	97	06:25	06:54	5-10		2-3	FLOOD	S TO N	3.9	4.8	16.4	14.6
	98	11:46	12:19	10-15	SW	2-4	FLOOD	N TO S	4.0	4.8	19.4	17.6
	99	18:07	18:40	10-15	SW	2-4	FLOOD	S TO N	4.8	5.4	16.6	14.2
	100	23:08	23:48	5-10	SW	2-3	EBB	N TO S	3.2	4.6	15.2	12.9
4/4/2001	101	05:08	05:44	CALM		1-2	EBB	S TO N	4.4	5.2	16.2	10.5
	102	11:06	11:34	CALM	LT. EAST	1	FLOOD	S TO N	3.9	4.5	14.2	12.6
	103	16:36	17:12	5	E	1	EBB	N TO S	4.4	4.0	18.2	10.2
	104	23:12	23:54	5-7	SE	1-2	EBB	N TO S	4.4	4.7	14.1	10.1
4/5/2001	NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE											
4/6/2001	105	03:10	03:26	5	E	1	EBB	N TO S	2.8	3.4	6.0	3.2
	106	08:14	08:59	5	E	1	FLOOD	S TO N	2.7	3.8	7.4	3.4
	107	12:53	13:20	5	S	1	FLOOD	S TO N	2.5	3.0	7.9	5.1
	108	18:28	18:38	5-10	SW	1	EBB	N TO S	1.5	3.3	9.1	6.4
	109	23:15	11:35:00 P8	5-10	SW	1-2	FLOOD	S TO N	2.7	3.6	8.6	6.2
4/7/2001	110	04:22	04:32	5-10	SE	1	EBB	N TO S	1.5	1.4	6.9	14.1
	111	09:13	09:28	5-10	S	1	FLOOD	S TO N	0.6	1.1	8.9	12.8
	112	14:24	14:38	5-10	SW	1	EBB	N TO S	0.7	0.9	13.1	9.2
	113	20:26	20:40	CALM		FLAT	LOW	W TO E	0.8	1.1	9.4	14.2
4/8/2001	114	01:35	01:49	CALM		CALM	H. SLACK	S TO N	1.2	1.6	14.1	12.2
	115	07:41	07:55	CALM		CALM	EBB	S TO N	1.1	1.4	12.7	12.3
	116	12:42	12:53	5	SW	1	FLOOD	SW TO NE	1.8	2.1	13.3	10.6
	117	17:26	17:40	5-10	WSW	1	EBB	N TO S	0.9	1.4	10.7	12.1
	118	22:41	22:50	5-10	WSW	1-2	FLOOD	S TO N	0.5	1.3	10.2	12.6
4/9/2001	119	NO REPORT PROVIDED										
NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE												

TABLE 2

2001 SOUTH LIDO KEY, SARASOTA, FL INTERIM BEACH NOURISHMENT PROJECT
BORROW AREA TURBIDITY

DATE	HOPPER LOAD NO.	TIME		WIND		SEAS (Est. Ft.)	TIDE (Stage)	CURRENT DIRECTION	BACKGROUND (NTU's)		COMPLIANCE: 150 M DOWNCURRENT FROM DREDGE		
		FIRST SAMPLE	LAST SAMPLE	SPEED (Est. Knts)	DIR.				SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM	
4/10/2001		NO CONSTRUCTION - MECHANICAL PROBLEM WITH DREDGE											
	120	20:15	21:06	10-15	WSW	2	EBB	N TO S	1.6	2.0	16.7	14.3	
4/11/2001	121	02:03	02:20	0-5	VAR.	CALM	FLOOD	S TO N	0.8	1.3	15.4	11.4	
	122	06:53	07:03	5	S	1	EBB	N TO S	0.5	0.8	14.1	10.6	
	123	13:06	13:28	10	S	1-2	FLOOD	S TO N	0.4	1.1	12.8	9.9	
	124	18:02	18:19	5	SW	1	EBB	N TO S	1.2	1.0	14.9	11.1	
	125	23:10	23:19	CALM		1	LOW	N TO S	0.3	0.9	13.6	12.2	
4/12/2001	126	04:07	04:20	5	S	1	FLOOD	S TO N	0.9	0.7	17.4	15.6	
	127	09:38	09:54	5	SW	1	FLOOD	S TO N	0.5	0.8	15.4	11.8	
	128	13:40	13:54	5-10	SSW	1-2	EBB	N TO S	0.6	0.7	25.2	16.7	
	129	18:23	18:49	10-15	SSW	2-3	EBB	N TO S	0.6	0.9	13.8	12.4	
	130	23:19	23:37	5-10	S	1-2	EBB	N TO S	1.3	0.9	16.1	14.6	
	4/13/2001	131	03:30	03:46	5	S	1-2	FLOOD	S TO N	0.9	0.6	7.5	6.3
	132	07:18	07:31	5	SSW	1-2	FLOOD	S TO N	0.7	0.6	9.7	6.2	
	133	13:07	13:21	5-10	SW	1-2	FLOOD	S TO N	0.6	0.8	12.8	10.6	
	134	17:37	17:52	5-15	WSW	2	EBB	N TO S	0.9	0.6	10.7	12.1	
	135	21:51	22:03	5-10	W	2	EBB	N TO S	0.5	0.4	12.2	10.6	
4/14/2001	136	02:21	02:36	CALM		CALM	FLOOD	S TO N	0.7	0.5	4.3	6.7	
	137	08:06	08:18	5	SW	1	FLOOD	S TO N	0.5	0.9	14.3	10.4	
	138	11:48	12:02	5-10	SW	1	FLOOD	S TO N	0.7	0.9	14.8	13.2	
	139	16:43	16:57	5-15	WSW	1-2	FLOOD	S TO N	0.4	0.7	12.9	10.5	
	140	20:27	21:17	5-10	WSW	2	EBB	N TO S	0.6	0.5	16.4	14.1	
4/15/2001	141	02:07	02:19	5		1	LOW	N TO S	0.7	0.8	13.6	10.8	
	142	06:00	06:15	5	SW	1	FLOOD	S TO N	1.4	1.1	11.5	7.7	
	143	12:03	12:16	5-10	SW	1-2	FLOOD	S TO N	2.0	1.4	15.4	13.7	
	144	16:12	16:25	5-10	WSW	1-2	HIGH	S TO N	2.9	1.6	21.5	17.1	
	145	20:08	20:21	10	W	1-2	EBB	N TO S	1.3	0.9	17.2	14.3	
4/16/2001	146	02:07	02:28	5-10	WNW	1-3	EBB	N TO S	1.3	0.9	23.7	19.1	
	147	06:37	06:58	5-10	WNW	1-3	FLOOD	NW TO SE	1.8	2.3	19.6	17.1	
	148	NO SAMPLES - SURVEY VESSEL CAPT. TOM DOWN FOR MECHANICAL REPAIR											
	149	NO SAMPLES - SURVEY VESSEL CAPT. TOM DOWN FOR MECHANICAL REPAIR											
	150	21:35	21:48	15-20	WNW	2-4	EBB	NW TO SE	4.8	3.9	15.1	12.8	
4/17/2001	151	02:20	02:33	15-20	WNW	3-4	EBB	NW TO SE	4.3	5.6	11.4	11.1	
	152	07:06	07:21	15-20	WNW	3-4	FLOOD	NW TO SE	5.9	4.3	17.2	15.2	
	153	ADVERSE WEATHER - UNSAFE CONDITIONS PREVENT SAMPLING											
	154	ADVERSE WEATHER - UNSAFE CONDITIONS PREVENT SAMPLING											
	155	ADVERSE WEATHER - UNSAFE CONDITIONS PREVENT SAMPLING											
4/18/2001	156	ADVERSE WEATHER - UNSAFE CONDITIONS PREVENT SAMPLING											
	157	13:55	14:05	15-20	NE	5	EBB	N TO S	7.6	8.2	19.3	20.2	
	158	18:33	18:44	15	NE	4	FLOOD	S TO N	6.9	7.9	15.1	19.6	

TABLE 2

2001 SOUTH LIDO KEY, SARASOTA, FL INTERIM BEACH NOURISHMENT PROJECT
BORROW AREA TURBIDITY

DATE	HOPPER LOAD NO.	TIME		WIND		SEAS (Est. Ft.)	TIDE (Stage)	CURRENT DIRECTION			BACKGROUND (NTU's)		COMPLIANCE: 150 M DOWNCURRENT FROM DREDGE	
		FIRST SAMPLE	LAST SAMPLE	SPEED (Est. Knts)	DIR.						SURFACE	1 M ABOVE BOTTOM	SURFACE	1 M ABOVE BOTTOM
4/19/2001	159	00:12	00:19	10	E	3	EBB	N	TO	S	3.6	5.8	19.8	16.2
	160	04:10	04:18	10	E	2-3	EBB	N	TO	S	4.6	10.1	12.3	16.1
	161	09:27	09:36	5-10	E	2-3	FLOOD	S	TO	N	6.2	5.9	11.8	19.9
	162	14:17	14:26	5-10	E	2-3	EBB	N	TO	S	4.9	8.8	19.2	15.6
	163	20:02	20:12	5-10	E	2	FLOOD	S	TO	N	4.4	6.9	14.6	17.3
4/20/2001	164	00:58	01:09	5	E	1-3	EBB	N	TO	S	6.9	5.8	17.6	21.3
	165	06:30	06:38	5-10	E	1-3	L SLACK	E	TO	W	4.5	7.3	19.1	16.8
	166	11:42	11:51	10	E	2-3	FLOOD	S	TO	N	3.5	6.0	16.0	21.5
	167	17:05	17:14	10	SW	2-3	EBB	N	TO	S	2.8	3.5	11.6	10.8
	168	22:21	22:31	10	SE	2-3	FLOOD	S	TO	N	4.9	3.8	9.8	17.6
	4/21/2001	169	03:27	03:35	5-10	SE	2	EBB	N	TO	S	3.3	7.2	13.6
170		09:05	09:14	10	SE	2	FLOOD	S	TO	N	6.2	5.1	9.8	15.9
171		14:41	14:51	10	SE	2	EBB	N	TO	S	3.5	5.2	16.6	21.2
172		20:10	20:19	5-10	SE	1-2	EBB	N	TO	S	4.1	6.9	17.8	16.2
4/22/2001		173	01:35	01:44	10	E	2-3	EBB	N	TO	S	5.4	4.3	12.6
	174	07:03	07:09	10	E	2	L SLACK	N	TO	S	6.0	5.2	15.9	12.6
	175	12:42	12:51	5	E	1-2	H. SLACK	NONE DETECTED			3.8	4.6	11.6	9.1
	176	18:15	18:25	5	SW	2	EBB	N	TO	S	2.5	4.8	12.6	16.8
	177	23:43	23:54	5	SW	2	FLOOD	S	TO	N	2.7	3.8	9.7	15.1
	4/23/2001	178	04:50	05:00	10	E	2	EBB	N	TO	S	5.0	9.6	16.0

CONSTRUCTION COMPLETED

Lido Key Beach Renourishment Project
FDEP Permit No. 0270032-001-JC
Water Quality Monitoring Summary
March 5 - March 11, 2009

Date	Beach Site				Dredge Site			
	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)
3/5/2009	18:00	2.42	2.65	0.23	18:00	2.38	2.85	0.47
3/6/2009	0:00	1.11	1.64	0.53	0:00	2.47	2.98	0.51
3/6/2009	6:00	2.80	3.15	0.35	6:00	2.35	3.10	0.75
3/6/2009	12:00	2.35	3.32	0.97	12:00	2.62	2.83	0.21
3/6/2009	18:00	1.82	2.67	0.85	18:00	1.28	1.59	0.31
3/7/2009	0:00	2.13	2.31	0.18	0:00	1.13	1.59	0.46
3/7/2009	12:00	1.56	1.90	0.34	12:00	1.46	1.57	0.11
3/7/2009	18:00	1.04	1.17	0.13	18:00	1.06	1.72	0.66
3/8/2009	0:00	1.47	1.27	-0.20	0:00	1.47	3.71	2.24
3/8/2009	6:00	1.38	1.82	0.44	6:00	1.43	2.53	1.10
3/8/2009	18:00	1.42	1.85	0.43	18:00	1.70	2.05	0.35
3/9/2008	0:00	1.01	1.83	0.82	0:00	1.16	1.63	0.47
3/9/2008	6:00	1.96	3.58	1.62	6:00	2.10	2.16	0.06
3/9/2008	12:00	1.64	2.02	0.38	12:00	0.72	2.07	1.35
3/9/2008	18:00	2.38	2.92	0.54	18:00	1.32	2.57	1.25
3/10/2009	0:00	1.72	1.96	0.24	0:00	0.93	1.77	0.84
3/10/2009	6:00	1.84	3.26	1.42	6:00	2.09	3.11	1.02
3/10/2009	12:00	2.48	2.71	0.23	12:00	1.58	1.81	0.23
3/11/2009	6:00	1.64	4.45	2.81	6:00	2.08	1.26	-0.82
3/11/2009	12:00	1.67	3.42	1.75	12:00	1.53	1.84	0.31
3/11/2009	18:00	1.89	3.37	1.48	18:00	0.89	1.79	0.90

Lido Key Beach Renourishment Project
 FDEP Permit No. 0270032-001-JC
 Water Quality Monitoring Summary
 March 5 - March 11, 2009

Monitoring Samples (Not for Compliance)		150 Meters			300 Meters		500 Meters		750 Meters		1000 Meters	
Date	Time	Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)
3/6/09	12:00	2.35	2.34	-0.01	2.86	0.51	4.89	2.54	4.78	2.43	2.48	0.13
3/7/09	12:00	1.56	3.91	2.35	1.32	-0.24	1.85	0.29	1.59	0.03	1.61	0.05
3/8/09	6:00	1.38	2.60	1.22	2.71	1.33	2.93	1.55	1.42	0.04	1.44	0.06
3/9/09	12:00	1.64	1.90	0.26	2.34	0.70	2.46	0.82	3.52	1.88	1.33	-0.31
3/10/09	12:00	2.48	5.13	2.65	6.62	4.14	6.01	3.53	5.18	2.70	2.30	-0.18
3/11/09	12:00	1.67	6.17	4.50	3.08	1.41	2.99	1.32	2.37	0.70	2.03	0.36

Lido Key Beach Renourishment Project
FDEP Permit No. 0270032-001-JC
Water Quality Monitoring Summary
March 12 - March 18, 2009

Date	Beach Site				Dredge Site			
	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)
3/12/2009	0:00	1.64	1.74	0.10	0:00	2.85	2.96	0.11
3/12/2009	6:00	1.81	3.50	1.69	6:00	1.74	2.03	0.29
3/12/2009	12:00	1.41	2.10	0.69	12:00	1.17	1.98	0.81
3/12/2009	18:00	1.21	3.25	2.04	18:00	2.07	2.16	0.09
3/13/2009	0:00	1.33	1.22	-0.11	0:00	1.21	1.87	0.66
3/13/2009	6:00	1.41	3.71	2.30	6:00	1.37	2.35	0.98
3/13/2009	12:00	1.49	2.20	0.71	12:00	0.46	1.54	1.08
3/13/2009	18:00	1.39	3.77	2.38	18:00	1.00	1.71	0.71
3/14/2009	0:00	2.04	2.77	0.73	0:00	1.03	1.13	0.10
3/14/2009	6:00	1.44	2.75	1.31	6:00	2.23	3.40	1.17
3/14/2009	12:00	0.96	2.51	1.55	12:00	0.82	3.89	3.07
3/14/2009	18:00	0.92	2.16	1.24	18:00	1.12	1.24	0.12
3/15/2009	0:00	2.94	3.24	0.30	0:00	1.14	1.43	0.29
3/15/2009	6:00	1.76	2.51	0.75	6:00	1.61	2.05	0.44
3/15/2009	18:00	1.16	3.11	1.95	18:00	1.45	1.47	0.02
3/16/2009	0:00	0.00	3.82	3.82	0:00	1.25	1.36	0.11
3/16/2009	6:00	1.91	2.23	0.32	6:00	1.54	2.05	0.51
3/16/2009	12:00	1.31	1.74	0.43	12:00	0.97	1.16	0.19
3/16/2009	18:00	0.86	6.53	5.67	18:00	1.29	1.44	0.15
3/17/2009	0:00	1.45	1.86	0.41	0:00	1.47	1.52	0.05
3/17/2009	6:00	1.21	2.82	1.61	6:00	1.04	1.49	0.45
3/17/2009	12:00	1.08	1.19	0.11	12:00	0.43	1.43	1.00
3/18/2009	0:00	1.47	6.85	5.38	0:00	1.41	1.55	0.14
3/18/2009	6:00	1.06	1.52	0.46	6:00	0.97	1.18	0.21
3/18/2009	12:00	1.43	1.54	0.11	12:00	0.90	3.14	2.24
3/18/2009	18:00	0.90	3.09	2.19	18:00	0.56	3.52	2.96

Lido Key Beach Renourishment Project
 FDEP Permit No. 0270032-001-JC
 Water Quality Monitoring Summary
 March 12 - March 18, 2009

Monitoring Samples (Not for Compliance)			150 Meters		300 Meters		500 Meters		750 Meters		1000 Meters	
Date	Time	Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)
3/12/09	12:00	1.41	2.85	1.44	6.28	4.87	3.31	1.90	3.60	2.19	2.23	0.82
3/13/09	12:00	1.49	1.42	-0.07	1.62	0.13	2.71	1.22	2.14	0.65	2.93	1.44
3/14/09	12:00	0.96	1.53	0.57	2.27	1.31	3.58	2.62	3.28	2.32	4.62	3.66
3/16/09	12:00	1.31	1.16	-0.15	1.64	0.33	1.80	0.49	2.28	0.97	2.38	1.07
3/17/09	12:00	1.08	1.88	0.80	1.07	-0.01	1.26	0.18	1.32	0.24	1.51	0.43
3/18/09	12:00	1.43	2.00	0.57	1.85	0.42	2.54	1.11	2.46	1.03	1.32	-0.11

Lido Key Beach Renourishment Project
FDEP Permit No. 0270032-001-JC
Water Quality Monitoring Summary
March 19 - March 25, 2009

Date	Beach Site				Dredge Site			
	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)
3/19/2009	0:00	0.68	4.73	4.05	0:00	2.36	2.73	0.37
3/19/2009	6:00	0.66	2.02	1.36	6:00	1.84	2.27	0.43
3/19/2009	12:00	0.52	0.52	0.00	12:00	1.87	6.73	4.86
3/20/2009	0:00	2.54	3.51	0.97	0:00	3.03	3.57	0.54
3/20/2009	6:00	1.14	4.49	3.35	6:00	1.25	3.53	2.28
3/20/2009	12:00	0.92	2.46	1.54	12:00	2.68	4.14	1.46
3/20/2009	18:00	2.87	3.82	0.95	18:00	1.13	1.86	0.73
3/21/2009	0:00	2.19	3.77	1.58	0:00	2.21	4.72	2.51
3/21/2009	6:00	1.34	3.80	2.46	6:00	1.88	3.17	1.29
3/21/2009	18:00	1.99	2.07	0.08	18:00	1.01	11.30	10.29
3/22/2009	0:00	1.19	2.40	1.21	0:00	5.83	7.70	1.87
3/22/2009	6:00	1.43	4.26	2.83	6:00	2.53	3.52	0.99
3/22/2009	12:00	0.81	1.12	0.31	12:00	4.81	19.60	14.79
3/22/2009	18:00	1.14	1.28	0.14	18:00	1.21	12.60	11.39
3/23/2009	0:00	1.89	3.09	1.20	0:00	1.15	3.46	2.31
3/23/2009	6:00	1.01	2.68	1.67	6:00	2.29	5.25	2.96
3/23/2009	12:00	0.71	1.29	0.58	12:00			0.00
3/23/2009	18:00	2.25	3.38	1.13	18:00	1.57	2.81	1.24
3/24/2009	0:00	1.30	2.00	0.70	0:00	0.74	1.22	0.48
3/24/2009	6:00	0.92	3.95	3.03	6:00	1.95	2.95	1.00
3/24/2009	12:00	1.24	3.14	1.90	12:00	1.78	2.80	1.02
3/24/2009	18:00	1.27	1.84	0.57	18:00	3.07	8.94	5.87
3/25/2009	0:00	1.05	1.13	0.08	0:00	0.77	1.81	1.04
3/25/2009	6:00	2.14	2.89	0.75	6:00	2.57	6.67	4.10
3/25/2009	12:00	1.71	2.18	0.47	12:00	1.31	1.97	0.66
3/25/2009	18:00	2.75	8.03	5.28	18:00	2.10	5.65	3.55

Lido Key Beach Renourishment Project
 FDEP Permit No. 0270032-001-JC
 Water Quality Monitoring Summary
 March 19 - March 25, 2009

Monitoring Samples (Not for Compliance)		150 Meters			300 Meters		500 Meters		750 Meters		1000 Meters	
Date	Time	Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)
3/19/09	12:00	0.52	0.91	0.39	1.19	0.67	0.91	0.39	0.93	0.41	0.75	0.23
3/20/09	12:00	0.92	4.40	3.48	3.47	2.55	3.47	2.55	4.18	3.26	2.99	2.07
3/22/09	12:00	0.81	1.11	0.30	1.95	1.14	1.44	0.63	1.12	0.31	1.43	0.62
3/23/09	12:00	0.71	0.70	-0.01	1.00	0.29	4.60	3.89	0.63	-0.08	1.40	0.69
3/24/09	12:00	1.24	1.69	0.45	1.62	0.38	1.43	0.19	1.96	0.72	3.19	1.95
3/25/09	12:00	1.71	3.36	1.65	2.00	0.29	1.70	-0.01	2.79	1.08	2.99	1.28

Lido Key Beach Renourishment Project
FDEP Permit No. 0270032-001-JC
Water Quality Monitoring Summary
March 26 - April 1, 2009

Date	Beach Site				Dredge Site			
	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)
3/26/2009	0:00	1.04	1.61	0.57	0:00	0.93	1.04	0.11
3/27/2009	Dredge Down Due to Weather							
3/28/2009	Dredge Down Due to Weather							
3/29/2009	Dredge Down Due to Weather							
3/30/2009	Dredge Down Due to Weather							
3/31/2009	18:00	3.44	5.06	1.62	18:00	3.47	12.10	8.63
4/1/2009	0:00	4.53	5.73	1.20	0:00	5.72	5.94	0.22
4/1/2009	6:00	5.64	5.92	0.28	6:00	3.28	5.51	2.23
4/1/2009	12:00	5.17	16.50	11.33	12:00	4.71	6.97	2.26

Lido Key Beach Renourishment Project
 FDEP Permit No. 0270032-001-JC
 Water Quality Monitoring Summary
 March 26 - April 1, 2009

Monitoring Samples (Not for Compliance)		150 Meters			300 Meters		500 Meters		750 Meters		1000 Meters	
Date	Time	Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)
3/26/09												
Dredge Down Due to Weather												
3/27/09												
Dredge Down Due to Weather												
3/28/09												
Dredge Down Due to Weather												
3/29/09												
Dredge Down Due to Weather												
3/30/09												
Dredge Down Due to Weather												
3/31/09												
Dredge Down Due to Weather												
4/1/09	12:00	5.17	7.18	2.01		2.01			41.10	35.93	27.50	22.33

Lido Key Beach Renourishment Project
FDEP Permit No. 0270032-001-JC
Water Quality Monitoring Summary
April 2 - April 8, 2009

Date	Beach Site				Dredge Site			
	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)
4/2/2009								Dredge Down Due to Weather
4/3/2009								Dredge Down Due to Weather
4/4/2009								Dredge Down Due to Weather
4/5/2009								Dredge Down Due to Weather
4/6/2009								Dredge Down Due to Weather
4/7/2009								Dredge Down Due to Weather
4/8/2009								Dredge Down Due to Weather

Lido Key Beach Renourishment Project
 FDEP Permit No. 0270032-001-JC
 Water Quality Monitoring Summary
 April 2 - April 8, 2009

Monitoring Samples (Not for Compliance)		150 Meters			300 Meters		500 Meters		750 Meters		1000 Meters	
Date	Time	Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)
4/2/09												
Dredge Down Due to Weather												
4/3/09												
Dredge Down Due to Weather												
4/4/09												
Dredge Down Due to Weather												
4/5/09												
Dredge Down Due to Weather												
4/6/09												
Dredge Down Due to Weather												
4/7/09												
Dredge Down Due to Weather												
4/8/09												
Dredge Down Due to Weather												

Lido Key Beach Renourishment Project
 FDEP Permit No. 0270032-001-JC
 Water Quality Monitoring Summary
 April 9 - April 13, 2009

Date	Time	Beach Site			Dredge Site			
		Background (NTU's)	Compliance (NTU's)	Difference (NTU's)	Time	Background (NTU's)	Compliance (NTU's)	Difference (NTU's)
4/9/2009	12:00	4.56	4.72	0.16	12:00	3.24	18.60	15.36
4/9/2009	18:00	4.05	7.40	3.35	18:00	2.90	7.36	4.46
4/10/2009	0:00	5.04	5.16	0.12	0:00	4.04	5.52	1.48
4/10/2009	6:00	4.87	5.07	0.20	6:00	No Sample Collected		
4/10/2009	12:00	5.05	11.50	6.45	12:00	7.25	12.20	4.95
4/10/2009	18:00	3.36	10.30	6.94	18:00	5.31	15.10	9.79
4/11/2009	0:00	3.90	14.50	10.60	0:00	5.62	9.08	3.46
4/11/2009	6:00	4.15	6.39	2.24	6:00	3.95	5.23	1.28
4/11/2009	12:00	2.67	4.67	2.00	12:00	3.12	14.40	11.28
4/11/2009	18:00	1.92	9.82	7.90	18:00	3.38	5.55	2.17
4/12/2009	0:00	3.96	6.13	2.17	0:00	2.50	19.70	17.20
4/12/2009	6:00	3.25	4.54	1.29	6:00	3.98	11.30	7.32
4/12/2009	12:00	2.57	7.21	4.64	12:00	2.57	10.90	8.33
4/12/2009	18:00	4.28	5.29	1.01	18:00	3.31	13.30	9.99
4/13/2009	0:00	3.85	4.68	0.83	0:00	2.60	4.45	1.85
4/13/2009	6:00	3.82	3.92	0.10	6:00	5.33	6.58	1.25
4/13/2009	12:00	3.11	4.91	1.80	12:00	2.54	4.54	2.00

Lido Key Beach Renourishment Project
 FDEP Permit No. 0270032-001-JC
 Water Quality Monitoring Summary
 April 9 - April 13, 2009

Monitoring Samples (Not for Compliance)		150 Meters			300 Meters		500 Meters		750 Meters		1000 Meters	
Date	Time	Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)	Sample (NTU's)	Difference from Background (NTU's)
4/9/09	12:00	4.56	6.25	1.69	5.91	1.35	6.24	1.68	6.28	1.72	5.88	1.32
4/10/09	12:00	5.05	11.00	5.95	10.80	5.75	No Sample		5.94	0.89	8.20	3.15
4/11/09	12:00	2.67	3.51	0.84	3.44	0.77	2.24	-0.43	7.46	4.79	3.10	0.43
4/12/09	12:00	2.57	4.19	1.62	9.02	6.45	8.57	6.00	4.07	1.50	10.40	7.83
4/13/09	12:00	3.11	6.72	3.61	7.45	4.34	7.77	4.66	4.11	1.00	5.02	1.91