

APPENDIX 'A'

Draft Environmental Monitoring Plans

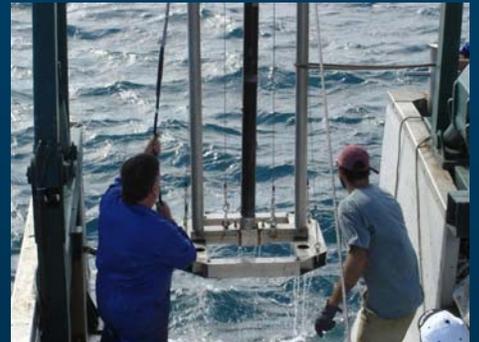
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moffatt & nichol



TECHNICAL ASSISTANCE FOR AUTHORIZATION PROCESS AND SPECIFIC STUDIES FOR MAINTENANCE
DREDGING OF ACCESS CHANNEL AND INNER HARBOR AT ROTA NAVAL STATION



ENVIRONMENTAL MONITORING PLAN OF THE DREDGING AT THE NORTH
AREA OF THE ACCESS CHANNEL TO THE PORT OF THE ROTA NAVAL STATION

19/01/2016



TECNOAMBIENTE

A TRADEBE COMPANY

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1. INTRODUCTION

The purpose of this report is to set forth the Environmental Monitoring Program (hereinafter EMP) anticipated to be enforced by the reviewing Agencies to be followed during the dredging operations of the aforementioned project.

2. ENVIRONMENTAL MONITORING PROGRAM

2.1. Development of the EMP

Anticipated control parameters during the transport and disposal operations have been set according to the provisions of article 45 of the “*Directrices para la Caracterización de Material Dragado y su reubicación en aguas del Dominio Público Marítimo Terrestre*” (DCMD thereafter).

This section shows the multiple verifications that are anticipated will be necessary to be carried out during the dredging operations.

2.1.1. Daily control in dredger by CONTRACTOR during the dredging operations

Description: visual inspection to be carried out by the Contractor, which shall include the following actions/measures:

1. Ensure (through the use of geo-localization systems) that dredging and disposal of dredged material takes place within the approved area, in accordance with the planned resources and within the approved schedule and deadlines.
2. Perform a visual inspection of the possible presence of marine debris along with materials of non-geological nature and proceed to the removal of these objects in case of detection, before disposal into the sea.
3. Suspend transport and disposal operations during adverse meteorological situations that do not allow to ensure the disposal of dredged material within the authorized area or cause overflow of materials within the limits of the SCI Cadiz Bay Seabed (LIC Fondos Marinos Bahía de Cadiz).

4. Ensure that the volume of dredged material in the dredger hopper is such that overflow will not occur during transport.
5. Ensure that there are no accidental discharges within the limits of the SCI Cadiz Bay Seabed (LIC Fondos Marinos Bahia de Cadiz).

Action: continuous control during the dredging operations and properly filling out of Control Sheets.

Effectiveness: To ensure the effectiveness of this control, for each transport and disposal operation a Control Sheet shall be completed. The Control Sheet shall reflect all the information shown in Annex 1.

Frequency: one per cycle of dredging, transport, and disposal of material.

2.1.2. Environmental Dredging Supervision by CONTRACTOR during dredging operations

Description: This control includes the execution by the Contractor team) of all of the activities described in the previous section as well as other additional ones, specifically:

1. Verify that there are not significant alterations produced to the SCI Bay of Cadiz Seabed, or of marine wildlife or bird life.
2. Collection and verification of control cards filled out by the Captain of the dredger.

Action: Routine inspections with periodic visits per block of six days of dredging, as well as completion of inspection sheets.

Effectiveness: To ensure the effectiveness of the control, each day of inspection shall be completed with an inspection form for each operation material dredging where all of the information generated from the controls will be collected as per Annex 2).

Frequency: One inspection every six days of dredging operations, not being necessary to maintain fixed frequency between visits.

2.1.3. Monitoring the water quality by CONTRACTOR

Description: Surveys will be carried out by the Contractor to characterize the structure of thermohaline of the water column during the disposal.

The variables will be recorded with multiparameter echosounder, equipped with the following sensors:

- Temperature.
- Salinity.
- pH.
- Dissolved oxygen.
- Turbidity.

The following table shows the specifications that should be met by the sensors to be used:

Table. 2. Specifications of the sensors

Parameter	Range	Accuracy	Resolution
Temperature	-5º a 50ºC	±0,10ºC	0,01ºC
Conductivity	0 a 100 mS/cm	±1% for reading ±0,001 mS/cm	4 digits
pH	0 a 14 unidades	±0,2 units	0,01 units
Dissolved oxygen	0 a 50 mg/L	±0,2mg/L	0,01mg/L
Depth /0-25m	0 a 25m	±0,08m	0,01m
Depth /0-100m	0 a 100m	±0,3m	0,1m
Depth /0-200m	0 a 200m	±0,6m	0,1m
Salinity	0 a 70 ppt	±0,2 ppt	0,01 ppt
Turbidity	0-1000 NTU	±5% within the range	0,1 ó 1 NTU

Parameters determined on site are useful as indicators of the conditions of the thermal stratification and/or saline and oxygenation of the water column.

Action: Sampling has to be conducted in stations at 5 these proposed locations:

Sampling stations coordinates (WGS84, Huso 29N)

Station	X	Y
CCA1	737989	4054116
CCA2	737538	4055690
CCA3 (reference)	740665	4053476
CCA4	740135	4054536
CCA5	738951	4054283

Frequency:

PERIODICITY	Before beginning work "0 state"
	Weekly, performing the first survey in the first week after starting the works
	15 days after the end of the construction phase

Reference Values and measures to be taken:

Limits of reference for hydrological quality control

LIMITS OF REFERENCE (measured in station CCA3)	
10% above the value set out in Annex II of <i>The Order of the Ministry of Environment, February 14, 1997</i>	Normal
Between 10% and 30% of the reference values established in the aforementioned Law	Alert Status
30% or above the reference values set out in the above order	Search for new corrective measures

2.1.4. Control of nektobenthonic communities

It is proposed to conduct a Side Scan Sonar survey, video recording and Van Veen sampling in 4 stations, all of them in the same area and points where pre-operational works have been carried out.

2.1.5. Control of archaeological heritage

To avoid any effect on the archaeological heritage, an archaeologist will survey the comprehensive dredging operations. The specialist will be on board of the dredge at all times (24/7) and will control both the extraction of the material and its disposal (this requirement will depend on the Culture Organism and its resolution).

2.1.6. Drafting of reports

During the execution of the works a series of dredging reports shall be submitted, which will collect all environmental incidents occurred. Additionally, the results of the studies listed above will be compiled into a Final Report. Therefore Contractor shall submit two different types of reports:

- Incidence reports: will be carried out in the case any anomalies occur that affects the normal development of the disposal execution, such as torrential rains, strong storms, loss of material during transport, accidental dumping, complaints, accidents, etc.
- Final report: will gather the environmental incidence parts, the deviation from the initial Work Plan, the evolution of the impacts, the detection of new impacts, changes in the corrective measures and the results of all the measures regarding parameters considered. It should be noted that a first progress report with the results obtained until the end of the year shall be presented, as indicated in article 43.2 of the DCMD, followed by the final report once the worked is completed.

3. SYSTEM OF ENVIRONMENTAL INDICATORS

As part of this EMP a program of environmental indicators is designed, which consist of a series of indexes to control the dredging/transport/disposal operations. It should be noted the flexible nature of these control indexes, in such a way that during the follow-up process to the EMP, these should be reviewed continuously to check its effectiveness and utility. In this sense, the EMP will have its own sufficient operational capacity to be able to rule out some indicators proven too complex, costly, or simply difficult to quantify, according to the characteristics of the context and information available, as well as propose new ones.

In the case of some of the indicators, the Contractor may propose, in the mandatory reports to the Environmental Reviewing Agency, the justified reasons for discarding and new indicators that will be used for tracking.

Data collection will be supervised by the Contractor's Environmental Technical Manager. The updating and revision of the indicator system will be subjected to the internal or external circumstances that alter initial conditions in which those were taken, previously justified.

The selected indicators in this EMP are as follows:

Table. 4. Environmental indicators

INDICATOR	UNIT
Water quality	
Environment turbidity control at the area of dredging in the channel	NTU
Presence of spills/ contaminants	Nº dredging cycles
Residues	
Presence of marine garbage or other debris in the container of the dredger before dumping	Kg/month
Dredging	
Dredging in Over Flow	Nº/day
Risks	
Days of storms	Nº days/month
Of accidents	Nº/month

4. ENVIRONMENTAL RESPONSIBILITIES

4.1. Special operations: dredging

This section defines the structure of environmental responsibilities within the Contractor team during the dredging operation given its special characteristics and whose control is key to avoid alterations of the environmental conditions.

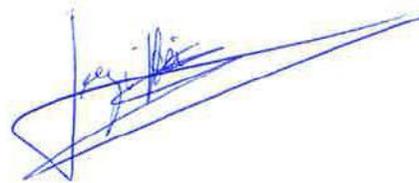
- The Captain of the Dredger shall be the Manager of Environmental Protection in relation to the operations of dredging
- In environmental matters, the Captain of the Dredger will be subjected to the instructions of the Technical Manager of the Environmental Technical Assistance hired by the Contractor
- The Captain of the Dredger shall ensure at all times that there are no contaminated substances dumped in the sea
- The Captain of the Dredger should verify and make sure there are no spills or leakage of liquids or sludge from the bilges, and oil tanks, fuel, etc.
- The Contractor shall ensure the hazardous waste generated onboard by maintenance just as paintings, cleaning of machines or machinery, spare auxiliary parts, etc., as well as from possible reparations of machines, equipment, and structure, will not be disposed of or discarded into the sea. Their disposal must be done through an authorized waste management company complying at all times with the MARPOL convention.

5. ENDNOTE SIGNATURES

The current EMP has been drafted in the Delegation of Tecnoambiente of Andalucía, located at C/Newton Business Park, nº 15, E, 11407 Jerez de la Frontera (Cadiz).

In Jerez de la Frontera, January 20th, 2016

Jurgi Areizaga Casares



Consulting and Projects Department

TECNOAMBIENTE, S.L

ANNEX I. CONTROL SHEET

DATE:

TIME:

INSPECTOR:

POSITION: Boss/ Captain of the Dredge

REFERENCE OF DREDGING/DUMPING:

SIGNATURE:

INSPECTION POINTS	OBSERVATIONS	COMMENTS
Accidental Discharges	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Presence of spills/contaminants	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Presence of marine garbage and others in the pitcher of the dredge before dumping	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Overflow of the dredge	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Control of dredging in its designated zone	Dredging Coordinates X: Y: Depth: Vol. (m ³):	
Stop of dredging because of adverse weather	YES <input type="checkbox"/> NO <input type="checkbox"/>	

SKETCHES AND OTHER NOTES

ANNEX I. INSPECTION SHEET

DATE:

TIME:

INSPECTOR:

POSITION: Technical Environmental Manager

REFERENCE OF DREDGING/DUMPING:

SIGNATURE

POINTS OF INSPECTION	OBSERVATIONS	COMMENTS
Accidental discharges	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Presence of spills/contaminants	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Presence of marine garbage and others in the pitcher of the dredge before dumping	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Overflow of the dredge	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Control of dredging in its designated zone	Dredging coordinates X: Y: Depth: Vol. (m ³):	
Stop dredging because of adverse weather	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Collection/Cross-check of Control Cards	YES <input type="checkbox"/> NO <input type="checkbox"/>	

SKETCHES AND OTHER NOTES



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TECHNICAL ASSISTANCE FOR AUTHORIZATION PROCESS AND SPECIFIC STUDIES FOR MAINTENANCE
DREDGING OF ACCESS CHANNEL AND INNER HARBOR AT ROTA NAVAL STATION



ENVIRONMENTAL MONITORING PLAN OF THE DISPOSAL OF THE DREDGED
MATERIAL AT THE PORT OF THE ROTA NAVAL STATION

05/10/2015



TECNOAMBIENTE

A TRADEBE COMPANY



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1. INTRODUCTION

The purpose of this report is to set forth the Environmental Monitoring Program (hereinafter EMP) anticipated to be enforced by the reviewing Agencies to be followed during the dredged material transport and disposal operations of the aforementioned project.

2. ENVIRONMENTAL MONITORING PROGRAM

2.1. Development of the EMP

2.1.1. Control parameters

Anticipated control parameters during the transport and disposal operations have been set according to the provisions of article 46 of the “*Directrices para la Caracterización de Material Dragado y su reubicación en aguas del Dominio Público Marítimo Terrestre*” (DCMD thereafter).

This section shows the multiple verifications that are anticipated will be necessary to be carried out during the transport and disposal operations.

2.1.2. Daily control in dredger by CONTRACTOR during dredging, transport, and disposal operations

Description: visual inspection to be carried out by the Contractor, which shall include the following actions/measures:

1. Ensure (through the use of geo-localization systems) that dredging and disposal of dredged material takes place within the approved area, in accordance with the planned resources and within the approved schedule and deadlines.
2. Perform a visual inspection of the possible presence of marine debris along with materials of non-geological nature and proceed to the removal of these objects in case of detection, before disposal into the sea.

3. Suspend transport and disposal operations during adverse meteorological situations that do not allow to ensure the disposal of dredged material within the authorized area or cause overflow of materials within the limits of the SCI Cadiz Bay Seabed (LIC Fondos Marinos Bahia de Cadiz).
4. Ensure that the volume of dredged material in the dredger hopper is such that overflow will not occur during transport.
5. Ensure that there are no accidental discharges within the limits of the SCI Cadiz Bay Seabed (LIC Fondos Marinos Bahia de Cadiz).

Action: continuous control during the disposal operations and properly filling out of Control Sheets.

Effectiveness: To ensure the effectiveness of this control, for each transport and disposal operation a Control Sheet shall be completed. The Control Sheet shall reflect all the information shown in Annex 1.

Frequency: one per cycle of dredging, transport, and disposal of material.

2.1.3. Environmental Dredging Supervision by CONTRACTOR during dredging, transport, and disposal operations

2.1.4.

Description: This control includes the execution by the Contractor team) of all of the activities described in the previous section as well as other additional ones, specifically:

1. Verify that there are not significant alterations produced to the SCI Bay of Cadiz Seabed, or of marine wildlife or bird life.
2. Collection and verification of control cards filled out by the Captain of the dredger.

Action: Routine inspections with periodic visits per block of six days of material disposal, as well as completion of inspection sheets.

Effectiveness: To ensure the effectiveness of the control, each day of inspection shall be completed with an inspection form for each operation of transport and disposal of material where all of the information generated from the controls will be collected as per Annex 2).

Frequency: One inspection every six days of transport and disposal operations, not being necessary to maintain fixed frequency between visits.

2.1.5. Monitoring the water quality by CONTRACTOR

Description: Surveys will be carried out by the Contractor to characterize the structure of thermohaline of the water column during the disposal.

The variables will be recorded with multiparameter echosounder, equipped with the following sensors:

- Temperature.
- Salinity.
- pH.
- Dissolved oxygen.
- Turbidity.

The following table shows the specifications that should be met by the sensors to be used:

Table. 2. Specifications of the sensors

Parameter	Range	Accuracy	Resolution
Temperature	-5º a 50°C	±0,10°C	0,01°C
Conductivity	0 a 100 mS/cm	±1% for reading ±0,001 mS/cm	4 digits
pH	0 a 14 unidades	±0,2 units	0,01 units
Dissolved oxygen	0 a 50 mg/L	±0,2mg/L	0,01mg/L
Depth /0-25m	0 a 25m	±0,08m	0,01m
Depth /0-100m	0 a 100m	±0,3m	0,1m
Depth /0-200m	0 a 200m	±0,6m	0,1m
Salinity	0 a 70 ppt	±0,2 ppt	0,01 ppt
Turbidity	0-1000 NTU	±5% within the range	0,1 ó 1 NTU

Parameters determined on site are useful as indicators of the conditions of the thermal stratification and/or saline and oxygenation of the water column.

Action: a vertical profile with multiparameter echosounder shall be executed at 5 points located at 200, 500, 1000, 2000, 3.500 meters from the disposal point in the direction of the stream and dispersion of the plume. These distances have been established after determining in the dispersion study that the sediment will not travel farther than 3 km from the disposal point.

Frequency: initially bi-weekly surveys during the execution of the disposal operation shall be conducted.. However, depending on the results of the first survey, if it is observed that the existence of the plume is not relevant and/or it has low impact in the alteration of turbidity on the natural conditions of the environment, NAVFAC Contractor Officer could revise the frequency of these surveys to a monthly periodicity, prior notice and approval by the reviewing environmental agencies.

Reference Values: in order to establish the allowed turbidity limits, a seventh control (white) station will be implemented. This shall be located 1000 meters from the disposal site and always facing the current. In this way, existing natural conditions will be known and can be compared with the values obtained in the area potentially affected by the disposal.

Adoptive Measures: If the measured values exceed the reference limits, mitigation measures must be set in place in order to revert to a normal condition. The following table shows the ranges or levels of action:

Table. 3. Reference limits for turbidity

Reference Limits	
Increase of up to 50% of the reference value in the station located at 2000 meters from the dumping	Normality
Increase of more than 50% of the reference value in the station located at 2000 meters from the dumping	Alert status

In the event that these are detected, during monitoring, linked to anomalous conditions or conditions of high turbidity, an action protocol will be activated, which aims on the one hand to avoid extending the anomalous condition in time and space, and on the other hand to implement water quality monitoring and determine, with precision, the real, both spatial and environmental, scope of the effects caused in the environment. Additional monitoring actions are as follows:

- a. Interrupt the execution of the work to reduce the measurement below 50% the turbidity value at the control or white station.
- b. The day after the anomalous condition a new measurement shall be taken in order to verify whether the turbidity value allows to continue with the course of work.

Once measured values return back to the acceptable range, the transport and disposal operations will resume.

2.1.6. Sediment mobility

For discharges greater than 250,000 m³, the potential mobility of disposed sediments will be assessed by performing a control bathymetry and/or surveying using side scan sonar at the disposal area, once a significant part of the operation (70%) has been completed.

2.1.7. Drafting of reports

During the execution of the works a series of dredging reports shall be submitted, which will collect all environmental incidents occurred. Additionally, the results of the studies listed above will be compiled into a Final Report. Therefore Contractor shall submit two different types of reports:

- Incidence reports: will be carried out in the case any anomalies occur that affects the normal development of the disposal execution, such as torrential rains, strong storms, loss of material during transport, accidental dumping, complaints, accidents, etc.
- Final report: will gather the environmental incidence parts, the deviation from the initial Work Plan, the evolution of the impacts, the detection of new impacts, changes in the corrective measures and the results of all the measures regarding parameters considered. It should be noted that a first progress report with the results obtained until the end of the year shall be presented, as indicated in article 43.2 of the DCMD, followed by the final report once the worked is completed.

3. SYSTEM OF ENVIRONMENTAL INDICATORS

As part of this EMP a program of environmental indicators is designed, which consist of a series of indexes to control the dredging/transport/disposal operations. It should be noted the flexible nature of these control indexes, in such a way that during the follow-up process to the EMP, these should be reviewed continuously to check its effectiveness and utility. In this sense, the EMP will have its own sufficient operational capacity to be able to rule out some indicators proven too complex, costly, or simply difficult to quantify, according to the characteristics of the context and information available, as well as propose new ones.

In the case of some of the indicators, the Contractor may propose, in the mandatory reports to the Environmental Reviewing Agency, the justified reasons for discarding and new indicators that will be used for tracking.

Data collection will be supervised by the Contractor's Environmental Technical Manager. The updating and revision of the indicator system will be subjected to the internal or external circumstances that alter initial conditions in which those were taken, previously justified.

The selected indicators in this EMP are as follows:

Table. 4. Environmental indicators

INDICATOR	UNIT
Water Quality	
Environment turbidity control at the area of dredging in the channel and in the area of dumping	NTU
Presence of spills/ contaminants	Nº dumping
Residues	
Presence of marine garbage or other debris in the container of the dredger before dumping	Kg/month
Transport and Disposal	
Dredging in Over Flow	Nº/day
Daily movements of the dredger in the dumping zone	Nº trips/day
Control of dumping in the area designed for this purpose	Nº dumping/day
Risks	
Days of storms	Nº days/month
Of accidents	Nº/month

4. ENVIRONMENTAL RESPONSIBILITIES

4.1. Special operations: disposal of material

This section defines the structure of environmental responsibilities within the Contractor team during the operation of transport and disposal given its special characteristics and whose control is key to avoid alterations of the environmental conditions.

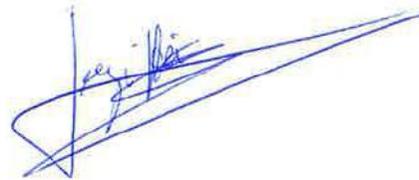
- The Captain of the Dredger shall be the Manager of Environmental Protection in relation to the operations of transport and disposal of dredged sediments. In environmental matters, the Boss or Captain of the Dredger will be subjected to the instructions of the Technical Manager of the Environmental Technical Assistance hired by the Contractor.
- The Captain of the Dredger shall ensure at all times that there are no contaminated substances dumped in the sea.
- The Captain of the Dredger should verify and make sure there are no spills or leakage of liquids or sludge from the bilges, and oil tanks, fuel, etc.
- The Contractor shall ensure the hazardous waste generated onboard by maintenance just as paintings, cleaning of machines or machinery, spare auxiliary parts, etc., as well as from possible reparations of machines, equipment, and structures, will not be disposed or discarded into the sea. Their disposal must be done through an authorized waste management company complying at all times with the MARPOL convention.

5. ENDNOTE SIGNATURES

The current EMP has been drafted in the Delegation of Tecnoambiente of Andalucía, located at C/Newton Business Park, nº 15, E, 11407 Jerez de la Frontera (Cadiz).

In Jerez de la Frontera, January 20th, 2016

Jurgi Areizaga Casares



Consulting and Projects Department

TECNOAMBIENTE, S.L

ANNEX I. CONTROL SHEET

DATE:

TIME:

INSPECTOR:

POSITION: Boss/ Captain of the Dredge

REFERENCE OF DREDGING/DUMPING:

SIGNATURE:

INSPECTION POINTS	OBSERVATIONS	COMMENTS
Accidental Discharges	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Presence of spills/contaminants	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Presence of marine garbage and others in the pitcher of the dredge before dumping	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Overflow of the dredge	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Control of dumping in its designated zone	Dumping Coordinates X: Y: Depth: Vol. (m ³):	
Stop of dumping because of adverse weather	YES <input type="checkbox"/> NO <input type="checkbox"/>	

SKETCHES AND OTHER NOTES

ANNEX I. INSPECTION SHEET

DATE:

TIME:

INSPECTOR:

POSITION: Technical Environmental Manager

REFERENCE OF DREDGING/DUMPING:

SIGNATURE

POINTS OF INSPECTION	OBSERVATIONS	COMMENTS
Accidental discharges	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Presence of spills/contaminants	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Presence of marine garbage and others in the pitcher of the dredge before dumping	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Overflow of the dredge	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Control of dumping in its designated zone	Coordinadas Vertido X: Y: Depth: Vol. (m ³):	
Stop dumping because of adverse weather	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Collection/Cross-check of Control Cards	YES <input type="checkbox"/> NO <input type="checkbox"/>	

SKETCHES AND OTHER NOTES