The Marin County Board of Supervisors encourages a respectful dialogue that supports freedom of speech and values diversity of opinion. Advisory Board members, staff and the public are expected to be polite and courteous, and refrain from questioning the character or motives of others. Please help create an atmosphere of respect by not booing, whistling or clapping; by adhering to speaking time limits; and by silencing your cell phone.

*The Advisory Board may elect to take formal action on any of the items listed below.*

**AGENDA**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Approval of Meeting Minutes for March 7, 2018</td>
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<td>2.</td>
<td>Open Time for Items Not on the Agenda</td>
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<td>3.</td>
<td>Consider Amending LAFCO Boundary Adjustment</td>
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<td>4.</td>
<td>Consider Changing 2019 Maintenance Dredging Construction Scope of Work</td>
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<td>5.</td>
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</tbody>
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**Questions about this meeting?**
Contact Scott McMorrow at 415-473-2918 or smcmorrow@marincounty.org

**GUIDELINES FOR TIME LIMITS ON PRESENTATION AND PUBLIC TESTIMONY**

The advisory board meeting procedure and time limit guidelines are as follows:
1. Staff report. 5 – 10 minutes
2. Advisory Board questions to staff. No defined limit
3. Public Testimony. 3 minutes per speaker

(Written Testimony is greatly appreciated [10 copies], and should be received no later than 9:00 a.m. on the Monday prior to the day of the hearing. Please send written testimony to the Marin County Department of Public Works, P.O. Box 4186, San Rafael, CA 94913. *(When written testimony is presented, it is not necessary to read the entire text into the minutes; it will automatically become part of the record.)*

4. Deliberation by the Advisory Board. No defined limit
5. Decision by Board. No defined limit

Agendas and related material can be viewed at the office of the Marin County Department of Public Works (Marin County Civic Center, Room 304, located at 3501 Civic Center Drive, San Rafael) Monday through Friday, between the hours of 8:00 a.m. and 4:30 p.m.

A copy of the agenda can be faxed or emailed upon request by calling (415) 473-6528. Agendas and related material are also available online via the County Calendar [http://www.marincounty.org/Main/Calendar](http://www.marincounty.org/Main/Calendar).

All public meetings and events sponsored or conducted by the County of Marin are held in accessible sites. Requests for accommodations may be made by calling (415) 473-4381 (Voice) 473-3232 (TDD/TTY) or by email at disabilityaccess@marincounty.org at least four work days in advance of the event. Copies of documents are available in alternative formats upon request.
STAFF REPORT

Item 1. Approval of Meeting Minutes for March 7, 2018

Recommended Action: Approve minutes.

Item 2. Open Time for Items Not on the Agenda
Comments will be heard from the public for items not on the agenda.
(Limited to three minutes per speaker)

Item 3. Consider Amending LAFCO Boundary Adjustment

On May 3, 2017, the CSA 29 Advisory Board (AB) recommended detaching six parcels from the CSA and annexing one parcel into the CSA. Staff has been working with Marin LAFCO on a boundary adjustment that would detach six parcels from CSA 29, and annex one parcel into the CSA. Currently, the six parcels being considered for detachment do not directly benefit from dredging, and are manually exempted from the annual property tax by staff each year. Also currently, the one parcel being considered for annexation does benefit from the dredge, and is manually included in the annual property tax by staff each year.

Part of the boundary adjustment process is to seek landowner consent, via a landowner consent form, from the landowners of the parcels involved. Staff has secured signed landowner consent forms from: the one parcel to be annexed into the CSA, and from five of the six parcels to be detached from the CSA. The landowner for APN 038-460-03 has been contacted several times by both staff and individual members of the AB, and said owner has been unwilling to agree to this parcel being detached from the CSA. Please see the map attached to this report that shows all of the parcels in question, and their landowner-consent status.

Recommended Action: Recommend that the Board of Supervisors approve a boundary adjustment for CSA 29 that annexes one parcel (APN 038-460-03) and detaches five parcels (APNs 038-460-12, 038-460-11, 038-460-10, 038-460-09, 038-460-08).

Item 4. Consider Changing 2019 Maintenance Dredging Construction Scope of Work

At the March 7, 2018 AB meeting, staff was asked to determine if the episodic permitting and construction could be combined into one contract. After consulting with County Counsel, it was determined that this type of “design-build” project would not be in compliance with public contracting requirements.

Staff was also asked at the March meeting to explore the possibility of going out to construction bid in 2018. The consultant selected (see below for details) for episodic design and permitting stated that this was not viable due to permitting timelines. Also, they stated that going out to bid in 2018 would not likely result in a cost savings due to the need for contractors to increase their 2018 bid amounts in order to compensate for unknown 2019 construction costs. They did state that it would be possible to go out to construction bidding early in 2019.

Also at the March meeting, staff was asked to explore the possibility of bidding on a cost-per-
cubic yard basis. Staff has determined that this is possible, and this concept will be explored in the design process and engineer’s estimate. Also, staff was asked to explore the possibility of dredging the south entrance channel to a depth of minus 9 MLLW plus one foot of over dredge. Staff inquired about this with the resource agencies and was told that dredging to minus 9 MLLW plus one foot of over dredge would not be feasible.

Staff released a Request for Proposals for design and permitting services for the 2019 episodic dredge. Five proposals were received, and a design review team evaluated the proposals and selected Haley & Aldrich, Inc. (H&A) to conduct the episodic design and permitting. The contract cost is $154,640. However, there could be a savings of up to $28,620 depending on the level of sampling and analysis required by the permitting agencies. For comparison, the last (2013-2014) dredging episode design and permitting contracts were for $122,760.

Staff has been pursuing the required 10-year permits from the Bay Conservation and Development Commission (BCDC) and the U.S. Army Corps of Engineers (USACE). To date, staff has received the approved BCDC 10-year permit, and staff is working with USACE to acquire their approval.

H&A has completed the initial condition survey and dredging quantities (both attached to this report). The survey shows that a majority of the channels and waterways require minimal dredging to reach design depth (minus 7 feet MLLW in the inner channels and waterways, and minus 8 feet MLLW in the south entrance channel, with one foot of over dredge allowed). The exception to this is the south entrance channel and south waterway. The total design dredge quantities are estimated to be 10,099 cubic yards, and the over dredge quantities are estimated to be 13,995 cubic yards.

Staff would like the AB to consider the following scenarios:

1) Complete a full dredge in 2019. This option could remove 24,094 cubic yards (design and over dredge).
2) Dredge only the south waterway and entrance channel in 2019, and consider dredging the remaining channels in 2020. This could remove 13,182 cubic yards (design and over dredge) in 2019. In 2020, another conditions survey could be conducted to determine the need to dredge the inner channels.

If the full dredge is postponed, there could be a long-term cost savings by dredging the inner channels when required. Episodic design and permitting costs would increase due to the need for an extra conditions survey to determine the need to dredge said inner channels. Other design and permitting considerations include:

- Sampling and Analysis: These test results will be needed for any dredging to occur, and the results are valid for three years from the date on analysis.
- Eel Grass Survey: This should be valid for three years.
- DMMO meetings: A partial dredge will require two DMMO meetings and attending costs. Future dredging will also require two DMMO meetings.

Staff recommends that the AB consider and recommend one of the above scenarios, or recommend an alternate scenario, based on local knowledge of the waterways and channels and the needs of the mariners utilizing said waterways and channels.

**Recommended Action:** Recommend a preferred dredging scenario of either a full 2019 dredging project, or a 2019 south entrance channel and waterway dredging project followed by
Marin County Department of Public Works

a 2020 north waterway and interior channels dredging project.

**Item 5. Schedule Next Meeting**

Staff recommends the next AB meeting occur in conjunction with the 2019-2020 budgeting process, and that this meeting take place in March 2019.
Chairperson Lyons began the Advisory Board (AB) meeting at 10:01 a.m.

**Item 1. Approval of Meeting Minutes: May 23, 2017**

**Action by Advisory Board:** Approve minutes.

*M/S: BC/GR, Ayes: All, Nay: None, Abstain: None*

Agenda items were taken up by the AB in the following order.

**Item 3. Engineer’s Report**

a) **Update on LAFCO Boundary Adjustment**

Staff recapped for the AB that there were seven parcels being considered in the proposed boundary adjustment. Six of the parcels are to be detached from CSA 29, and one parcel is to be annexed into CSA 29. Staff reported that six of seven landowner consent forms have been received to date. The one consent form yet to be received is for the submerged lot in the south channel that is to be detached. Staff then outlined the possible steps that could be taken to conduct the boundary adjustment. Barring all seven landowners providing written consent, Marin LAFCO would mail directly to all seven owners and inform them of the process and their right to protest the boundary adjustment. If a written protest is received by LAFCO, a protest hearing would be held by LAFCO. If at this hearing, 25% or more of the seven landowners or registered voters provide written protest, an election would need to be called by the Marin County Board of Supervisors. The AB discussed these options, and EL requested that as a first step, staff send him the landowner consent form for the subject parcel, and he will try and contact the owner for a signature. Staff agreed to send the form, and EL will follow up with staff regarding the outcome of his meeting with the landowner. Another option would be to exclude the submerged parcel from the boundary adjustment, which depending on cost, may be preferable to the LAFCO protest hearing.

b) **Update on 2019 Dredging Episode**

Staff updated the AB on plans for the 2019 dredging episode. Please see the staff...
report for details. BC asked if the contracting for this dredging episode could be separated as follows to allow for earlier bidding in 2018: one professional services contract for pre-dredge surveying and development of plans, and one contract for episode permitting and construction. Permitting would be a separate bid item. Also, staff was asked to explore bidding on a cost per cubic yard basis. Staff responded that staff will consult with counsel to determine if combining episodic permitting with construction under one contract is possible. Staff would obtain 10-year permits from USACE and BCDC. EL asked if the south entrance could be dredged one foot deeper, from minus 8 feet MLLW to minus 9 feet MLLW. Staff responded that staff will try to accomplish this with the resource agencies. BC asked if interim minor maintenance of the entrance could be permitted on an extended basis. EL asked if we could suction dredge at the entrances. The AB considered and made the following action.

**Action by Advisory Board:** Recommend that the Marin County Board of Supervisors combine episode permitting and construction in one contract.

*M/S: HB/GR, Ayes: All, Nay: None, Abstain: None*

**Item 2. Open Time for Items Not on the Agenda**
No one accepted the invitation to address the AB on items not on the agenda.

**Item 4. CSA 29 FY 2018-19 Budget Review**
Staff presented a draft FY 2018-19 CSA 29 budget to the AB. Please see the staff report for details. After some discussion, the AB recommended approval of the budget, and acknowledge that some professional services budget may be used for construction.

**Action by Advisory Board:** Recommend that the Board of Supervisors approve budget.

*M/S: HB/GR, Ayes: All, Nay: None, Abstain: None*

**Item 5. Schedule Next meeting**
The AB indicated that they would like to meet in June 2018. Staff will send out a poll to determine best date.

The meeting was adjourned at 11:05 a.m.
COUNTY OF MARIN
DEPARTMENT OF PUBLIC WORKS

PARADISE CAY - COUNTY SERVICE AREA NO. 29
2018 MAINTENANCE DREDGING
TIBURON, CALIFORNIA
PROJECT # 14-2018
PLAN # CSA 29-18-01

GENERAL NOTES
1. ALL WORK SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITIES OF MARIN COUNTY AND THE COUNTY OF MARIN IN EFFECT ON THE DATE THIS PLAN IS ISSUED AND ANY TECHNICAL STANDARDS, SPECIFICATIONS, DRAWINGS, OR LEGISLATION APPLICABLE TO THE SAME BUT NOT SPECIFIED IN THE DRAWINGS OR SPECIFICATIONS APPLIED, AS MODIFIED BY THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE PLAN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY LOCATION AND DEPTH. THIS INFORMATION SHALL BE COMPLIANT WITH THE CONTRACTOR'S CIVIL COMPANY CAL IF A.U.E. UNDERGROUND SERVICE ALERT FOR UTILITY LOCATION QUESTIONS AT LEAST 48 HOURS BEFORE DIGGING.
3. DREDGING LIMITS SHOWN ON THIS PLANS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH. THIS VERIFICATION SHALL BE IN ACCORDANCE WITH THE CIVIL ENGINEER'S DIRECTIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH. THIS VERIFICATION SHALL BE IN ACCORDANCE WITH THE CIVIL ENGINEER'S DIRECTIONS.
4. CONTRACTOR TO PROVIDE A 48-HOUR NOTICE TO PROPERTY OWNERS AND RESIDENTS PRIOR TO COMMENCING CONSTRUCTION WORK. NOTIFICATION TO BE IN WRITING AND SHALL BE APPROVED BY THE ENGINEER.
6. ALL DREDGING SAWS AND COORDINATE AREAS BASED ON THE CALIFORNIA STATE PLANE SYSTEM (NAD83) ARE APPROXIMATE.
7. CONSTRUCTION SURVEY MONUMENTS AND POSTED POSTS TO BE ACCORDANCE WITH THE UNIFORM CONSTRUCTION STANDARDS OF THE CITIES OF MARIN COUNTY, THE STATE STANDARD PLANS, AND THE 2010 STATE STANDARD SPECIFICATIONS, (INSOFAR AS THE SAME MAY APPLY) AS MODIFIED BY THE SPECIAL PROVISIONS FOR THIS PROJECT.
8. CONSTRUCTION SURVEY SHOWN ON THIS PLAN IS BASED ON THE DATUM OF MEAN LOWER LOW WATER (MLLW). CONDITION SURVEY HORIZONTAL POSITIONING DATA ACQUIRED BY TRIMBLE SP461 WITH USCG DIFFERENTIAL BEACON AND HEADING VIA TSS PS/MV WAVEMASTER. MANUAL SOUNDING LOCATIONS ARE APPROXIMATE.
9. LOCATIONS OF MEDIANS/CHANNEL BOTTOMS IS SHOWN ON PLAN SHEETS 2, 3, & 4.
10. GENERAL NOTES OF BEL ISSUES EXIST OUTSIDE OF THE WORK AREA EXTENTS SHOWN ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH. NOT PERMITTED TO EXCEED THE BEL ISSUES EXTENTS AS WELL AS DETAILS OF AND EXTENTS OF BEL ISSUES.
11. DREDGINGS MUST BE COMPLETED BY NOVEMBER 30, 2018.

NOTE:
THE CONTRACTOR SHALL POSSESS CLASS "A" LICENSE

CALL USA (UNDERGROUND SERVICE ALERT) AT LEAST 48 HRS IN ADVANCE OF WORK - 1-800-642-2444.

RAUL M. ROJAS
DIRECTOR OF PUBLIC WORKS

MICHAEL ANGIS, P.E.
ENGINEER OF RECORD: UE. C W 02

HALEY & BLUNCK
2033 N. Main St. Ste. 309
Walnut Creek, CA 94596-7260
Tel: 925.949.1012
Fax: 925.979.1456
www.haleyblunk.com
### Sounding Table

<table>
<thead>
<tr>
<th>Location</th>
<th>Depth (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA BELOW DESIGN DREDGE DEPTH</td>
<td>-9</td>
</tr>
<tr>
<td>TOP OF SLOPE/DAYLIGHT, TYP.</td>
<td>-8.5</td>
</tr>
<tr>
<td>SOUTH ENTRANCE CHANNEL (SEE DETAIL 2, SHEET 3)</td>
<td>-6.3</td>
</tr>
<tr>
<td>SOUTH CHANNEL (SEE DETAIL 1, SHEET 1)</td>
<td>-4.8</td>
</tr>
<tr>
<td>TRUE HEADING FOR ENTRANCE IS NORTH 90° EAST</td>
<td>-5.0</td>
</tr>
</tbody>
</table>

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**Matchline - See Sheet 3**

1. **Slope Toe, TYP.**
2. **Dredge Boundary, TYP.**
3. **Slope Dredge Transition From... to...**

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**Notes:**
2. Soundings are based on mean lower low water vertical datum.
3. Plane view coordinates and coordinates are based on the California Coordinate System, Lambert Conformal Projection, Zone 11.
4. Elevations are described in Special Publication No. 253 published by the National Ocean Survey.
5. Soundings were acquired by R2 Sonic 2024 Multibeam Transducer or manually with a pole sounder and are shown to the nearest tenth of a foot. Vertical control is to local datum, i.e., National Geodetic Survey datum.
6. Positions are approximate and shown relative to the SLOPE/TOWER and MATCHLINE.
7. Setback lines were derived from the back-drop of the MATCHLINE.
8. POS/MV WAVEMASTER. MANUAL SOUNDING LOCATIONS ARE APPROXIMATE.
9. PLANE GRID, BEARINGS AND COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III.
NOTES

1. BATHYMETRY SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC. ON JULY 30, 2018.
2. SOUNDINGS ARE BASED ON MEAN LOWER LOW WATER (MLLW) DATUM.
3. PLAN instructions AND COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, UMBERTO CONFORMAL PROJECTION, ZONE 3 (WGS-84), AS DESCRIBED IN SPECIAL PUBLICATION NO. 253, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
4. SOUNDINGS WERE ACQUIRED BY 2D SUB Bottom Imaging. 2D SUB Bottom Imaging data are shown as close to the ground as possible. SMALL SCALES ARE USED TO SHOW THE LOCATION OF THE 2D SUB Bottom Imaging areas.
5. MULTIBEAM DATA HORIZONTAL POSITIONING ACQUIRED BY TRIMBLE SPS461 WITH U.S. COAST GUARD DIFFERENTIAL BEACON AND HEADING VIA TSS POS/MV WAVEMASTER. MANUAL SOUNDING LOCATIONS AND APPEARANCES.
6. PLAN views ARE ACCURATE. PLAN views ARE SHOWN ON DRAWINGS WITH ITALICIZED TEXT.
7. THE BATHYMETRIC INFORMATION SHOWN ON THIS DRAWING IS BASED ON SURVEYS MADE ON THE DATE(S) INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.
8. THE SOUNDINGS ARE PROVIDED IN FEET BELOW MEAN LOWER LOW WATER (MLLW).
9. LOCATIONS OF PIERS, DOCKS, SHORELINE AND OTHER PLANIMETRICS ARE APPROXIMATE IN NATURE AND ARE BASED ON MAPS PROVIDED BY THE COUNTY OF MARIN.
### County of Marin DPW

**Condition Survey Dredging Quantities**

Paradise Cay – CSA No. 29  
Tiburon, California

August 21, 2018

<table>
<thead>
<tr>
<th>Dredge Unit</th>
<th>Grade El. (MLLW)</th>
<th>Overdepth El. (MLLW)</th>
<th>Available Volume Above Grade (CY)</th>
<th>Available Overdepth Volume (CY)</th>
<th>Total Volume (CY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel A</td>
<td>-7'</td>
<td>-7' to -8'</td>
<td>36</td>
<td>508</td>
<td>544</td>
</tr>
<tr>
<td>Channel B</td>
<td>-7'</td>
<td>-7' to -8'</td>
<td>248</td>
<td>790</td>
<td>1,038</td>
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<tr>
<td>Channel C</td>
<td>-7'</td>
<td>-7' to -8'</td>
<td>509</td>
<td>1,183</td>
<td>1,692</td>
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<tr>
<td>Channel D</td>
<td>-7'</td>
<td>-7' to -8'</td>
<td>808</td>
<td>2,414</td>
<td>3,222</td>
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<td>Channel E</td>
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<td>-7' to -8'</td>
<td>939</td>
<td>2,041</td>
<td>2,980</td>
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<tr>
<td>North Waterway</td>
<td>-7'</td>
<td>-7' to -8'</td>
<td>477</td>
<td>959</td>
<td>1,436</td>
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<tr>
<td>South Waterway</td>
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<td>-7' to -8'</td>
<td>3,859</td>
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<td>8,323</td>
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<td>South Entrance Channel</td>
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<td>-8' to -9'</td>
<td>3,223</td>
<td>1,636</td>
<td>4,859</td>
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<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>10,099</strong></td>
<td><strong>13,995</strong></td>
<td><strong>24,094</strong></td>
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**Notes:**

2. Design grades, dredging areas and geometry provided by Haley and Aldrich, Inc. and are as shown on the 2014 Paradise Cay Maintenance Dredging Plan drawing dated April 2014.
3. Overdepth assumptions for Inside Channels and Waterways: one-foot of overdepth is calculated between channel toes using the non-contour method; no overdepth on sideslopes; vertical prism at dock face and 2H:1V or transition prism at all other locations.
4. Overdepth assumptions for South Entrance Channel: one-foot of overdepth is calculated between channel toes using the non-contour method; one-foot of overdepth is calculated on the side slopes; 3H:1V prism.
5. Quantities were calculated using the surface differencing triangular irregular network (TIN) method.