

**San Diego Regional Stormwater Copermittees
Land Development Workgroup**

Meeting Notes

Date	Location	Agenda Summary
October 23, 2018 Start time: 9:03 a.m. End time: 11:30 a.m.	County of San Diego 5500 Overland Avenue, Room 370 San Diego, CA 92123	<ul style="list-style-type: none"> • Approval of June 26, 2018 Meeting Minutes • Announcements and Future Events • Non-Agenda Public Comment • Presentation: Capture and Use Project at the San Diego International Airport • Report of Waste Discharge • LDW Program Updates and Action Items <ul style="list-style-type: none"> ○ BMP Design Manual Task ○ Alternative Compliance Tools Task ○ Copermittee Expenditures

Meeting Attendance:

Number of Voting Copermittees Represented: 15

- | | | | |
|---|--|--|--|
| <input checked="" type="checkbox"/> City of Escondido
Mitchell Beacon | <input checked="" type="checkbox"/> City of Chula Vista
Christopher Bauer
Marisa Soriano | <input checked="" type="checkbox"/> City of Coronado
Jessie Powel | <input checked="" type="checkbox"/> City of Del Mar
Fiona McHenry-Crutchfield |
| <input checked="" type="checkbox"/> City of Santee
Scott Johnson | <input type="checkbox"/> City of Lemon Grove
Malik Tamimi | <input type="checkbox"/> City of San Marcos
Doug Dowden | <input checked="" type="checkbox"/> City of Poway
Tracy Beach |
| <input checked="" type="checkbox"/> Port of San Diego
Christian Braun | <input type="checkbox"/> City of Vista
Michael Hilker | <input checked="" type="checkbox"/> City of National City
Tad Nakatani | <input checked="" type="checkbox"/> City of El Cajon
Craig Bonner |
| <input checked="" type="checkbox"/> City of San Diego
Eric Mosolgo
Raymond Ngo
Justin Huynh | <input checked="" type="checkbox"/> City of Carlsbad
Kyrenne Chua | <input checked="" type="checkbox"/> City of Oceanside
Mike Strizic
Ryan Rodman | <input checked="" type="checkbox"/> County of San Diego
René Vidales
Nancy Richardson
Jon Van Rhyn
Sheri McPherson |
| <input type="checkbox"/> City of Encinitas
Jesse Owens | <input type="checkbox"/> City of Imperial Beach
Wbaldo Arellano | <input checked="" type="checkbox"/> SD Airport Authority
Richard Gilb | <input checked="" type="checkbox"/> City of Solana Beach
Fiona McHenry-Crutchfield |
| <input checked="" type="checkbox"/> Geosyntec*
Venkat Gummadi | <input type="checkbox"/> Wood*
Dylan Cawthorne | <input checked="" type="checkbox"/> Contech*
Noel Thurston | <input checked="" type="checkbox"/> Excel Engineering*
Samuel Bellomio |
| <input checked="" type="checkbox"/> Michael Baker Int'l*
Miguel Avalos
(Secretary) | | | |

One vote per Copermittee.

**Indicates non-voting representative*

4 **1. Introductions**

5 René Vidales (County of San Diego) provided printed handouts of the meeting materials and
6 began the meeting. Attendees introduced themselves.

7 **2. Approval of the Minutes for the June 26, 2018 meeting**

8 No edits proposed were proposed at the meeting. Richard Gilb (Airport Authority) later
9 requested that the asterisk be removed from the SD Airport Authority inadvertently included in
10 the meeting attendance.

11 *MOTION:* Approval of the June 26, 2018 meeting minutes as amended. **(APPROVED)**

- 12 ♦ Moved by: Eric Mosolgo (City of San Diego)
- 13 ♦ Seconded by: Mike Strizic (City of Oceanside)
- 14 ♦ Vote: 9-0 in favor, 0 abstentions (note that five voting representatives arrived after the
15 vote, including Fiona McHenry-Crutchfield representing both the City of Del Mar and the
16 City of Solana Beach).

17 **3. Announcements & Future Events**

18 A Public Workshop titled: “Incorporation of Integrated Planning Framework Approach into the
19 Regional MS4 Permit” will be held on Thursday, November 8, 10 am, at 2375 Northside Dr., San
20 Diego CA 92108. The County expects the workshop to start the discussion on permit reissuance;
21 Rene invited members to attend. The “Integrated Planning Framework” is a collective approach
22 to regulate municipal stormwater and wastewater intended to help municipalities meet their
23 Clean Water Act obligations, while optimizing their infrastructure investments through the
24 appropriate sequencing of work.

25 The County announced that a large portion of Escondido Creek is now exempt from
26 hydromodification requirements. The exemption analysis and revised watershed management
27 area analysis and maps were posted on Project Clean Water last week. René mentioned this is
28 now the second exemption, following the Otay River, and added that it was a worthwhile effort
29 for the municipalities concerned.

30 Eric Mosolgo (City of San Diego) briefly discussed his findings from the recent water quality
31 workshop with the City of San Diego Planning Commission held on September 13th. He noted the
32 issue of water quality credits allowed, as it is currently a hot discussion topic. When asked about
33 the meeting notes, Eric mentioned that they should already be published and that he can
34 provide them to anyone interested.

35 **4. Non-Agenda Public Comments**

36 No comments were made by members of the public.

37 **5. Presentation: Capture and Use Project at the San Diego International Airport**

38 Richard Gilb from the San Diego Regional Airport Authority presented on the San Diego
39 International Airport Capture and Use plans. He began with introductory facts about the airport
40 facility and the Airport Authority. The 661-acre site handles about 60,000 people daily. The
41 Airport Authority is a Special Agency without property tax revenue and yet totals approximately
42 \$250M of annual revenue, opposite of about \$175M in operating costs. The airport holds a
43 value of \$2B in assets, including the newly constructed Terminal 2 Parking Plaza.

44 The airport deals with very specific site constraints particularly related to the area's geography.
45 The airport site has approximately 90% impervious surfaces and less than 20 acres of
46 landscaping. Additionally, the flat land area is situated about 100 yards from the San Diego Bay
47 and lies above the same hydraulic fill of silt and clay prominent in the bay area. These issues,
48 explained Richard, make it particularly challenging to design and build any major structures.

49 Of the 15 outfalls on site, only two are owned entirely by the Airport Authority. Current issues
50 include water quality pollutants. Aircraft and vehicle brakes and tires are notorious for copper
51 and zinc pollutants, with the former listed as a 303-d pollutant within the adjacent basin water
52 bodies.

53 Richard explained how storm water permits are more stringent and performance based. Under
54 the Industrial General Permit, exceedance response actions include a Level 2 plan for copper
55 and Level 1 Plan for zinc. The Municipal Permit's Water Quality Improvement Plan requires the
56 Airport Authority to meet the State of California's Toxic Rule for Copper and Zinc with zero
57 exceedances by 2026.

58 Sediment toxicity is also a major issue, prompting a pending investigative order for the Laurel
59 Hawthorne Embayment. Richard covered several other regulatory actions currently underway,
60 including planned TMDLs and the Trash Amendments.

61 He continued with the MS4 Permit requirements, which includes new development
62 requirements effective in February 2016. At the top of the regulatory BMP hierarchy is harvest
63 and reuse, which Richard noted is not limited by the airport's site constraints. There are several
64 other advantages to harvest and reuse including eliminating discharge to the San Diego Bay and
65 associated pollutant concerns.

66 The Airport Authority is convinced that harvest and reuse is the winning strategy in solving its
67 current issues. This approach replaces potable water used for non-potable purposes including
68 HVAC cooling, washing, irrigation, and to a lesser extent, toilet use. Additionally, it provides
69 climate change resiliency related to flooding. Implementing this retention strategy would make
70 the Airport Authority a community leader in water stewardship and pollution prevention.

71 The first phase of integrating this strategy is the Terminal 2 Parking Plaza. Constructed during
72 spring and fall of 2016, the 11-acre site bolsters a design capture volume of 93,000 gallons and a
73 storage capacity of 107,000 gallons. The closed system has the potential to capture up to 2M
74 gallons, which is estimated at approximately \$10,000 in savings. Richard noted that low potable
75 water cost made the savings a difficult selling point for the project, noting that no permitting
76 agency wanted to approve the reuse development. Instead the Airport Authority advocated for
77 the water quality benefits.

78 The project was carried out under a design-build procurement process, which limited the design
79 engineers as the budget was finalized before the design was completed. Additionally, the design
80 team was not particularly interested in capturing a larger drainage area to “bank credits”,
81 despite advocacy from the Airport Authority. The final capture area (the building’s footprint)
82 totaled at 7.6 acres. Additional capture areas considered included approximately 2.7 acres of
83 adjacent parking lots and roads but were ultimately opted out due to existing utility conflicts.

84 The initial design proposed storage tanks; instead the final design upsized the storm drain pipes,
85 allowing for additional storage within the closed system. The storm water reuse treatment
86 system is comprised of a series of filters and UV disinfection chambers. Richard was happy to
87 report that the facility is currently in use and recently captured San Diego’s latest storm.

88 With the success of the parking terminal, Richard dived into the Airport’s upcoming
89 development plans. The Strategic Stormwater Master Plan, a study conducted by Michael Baker
90 International, analyzed 19 potential development alternatives. The master plan took hydrologic
91 and hydraulic models of the existing and future conditions (including climate change) of the
92 airport vicinity. The study reinforced capture and reuse as a long-term solution and provided a
93 conceptual design and a cost estimate of the preferred alternative.

94 The analysis of the 19 alternatives consisted of a capture area ranging from 200 to 840 acres.
95 The benefit cost ratio was based on the dollar value of reduced water purchased divided by
96 equivalent uniform annual costs. Alternative 19 for instance, was a large capacity storage tank
97 estimated at \$19M in costs. A more reasonable approach was based on a 400-acre capture area,
98 which maximized the drainage storage volume at 24M gallons. This concept was revised with a
99 smaller footprint and was highlighted as the optimal solution. The current plan includes
100 underground storage and minimal infiltration.

101 Richard closed his presentation with mention of Senate Bill No. 966. Signed into law on
102 September 2018, the bill requires the State Water Resources Control Board to establish
103 regulations for risk-based water quality standards for onsite non-potable water systems in multi-
104 family residential, commercial, and mixed-use buildings. He also noted that much of the
105 airport’s development concepts are inspired by San Francisco’s Non-potable Water Program.
106 With these influences, the Airport Authority expects an increased trend on the topic nationwide.

107 **6. Report of Waste Discharge**

108 During the June 26th meeting, the group previously agreed to condense the list of discussion
109 items to be presented to the Regional Board. After opening the discussion to Orange County,
110 there are 12 total comments. The group agreed that they should only be recommending the
111 highest priority items, which include the following items 4.4.1, 4.4.2, 4.4.3, 4.4.7, and 4.4.8. as
112 described in the meeting handouts.

113 The County wanted to discuss this topic as they expect it to be a central piece of the upcoming
114 public workshop. The group agreed that it was a good idea to revisit the items before finalizing
115 the proposed modifications. Additionally, Jon VanRhyn (County of San Diego) added that the
116 group should present these items to the Regional Board again. Eric Mosolgo (City of San Diego)
117 agreed and volunteered to accompany the County in the effort. The County of San Diego agreed
118 to coordinate a meeting with the Regional Board to present the final proposed modifications on
119 the ROWD.

120 **7. LDW Program Updates and Action Items**

121 *a. BMP Design Manual and Help Desk Task*

122 *i. Effective Date of Finalized Version*

123 The effective date of the finalized version is inadvertently listed as May 15, 2016 on the
124 introduction of the Model BMP Design Manual. The group decided to omit the date altogether
125 to avoid any confusion. Venkat Gummadi (Geosyntech) noted that the typo was included only in
126 the model version, and that the date should be revised by each jurisdiction upon adoption. Rene
127 added that an announcement clarifying the revision will be posted to Project Clean Water.

128 *ii. Survey on Copermittees Updating their Manuals*

129 Jurisdictions updating their manual include Carlsbad, Chula Vista, the County of San Diego, El
130 Cajon, Escondido, and Poway. The following copermittees will not be updating their manual: La
131 Mesa, Lemon Grove, National City, SD Regional Airport Authority, and City of San Diego. Eric
132 Mosolgo (City of San Diego) mentioned that the City of San Diego has already updated their
133 BMP Design Manual in the past and has worked to fully integrate the changes from the Model.
134 He noted there are still a few items left to be clarified. Scott Johnson (City of Santee) informed
135 the group that Santee will not be updating. Sheri McPherson (County of San Diego) recalled that
136 Encinitas had similar plans, but a representative was not present to speak on the matter. Mike
137 Strizic (City of Oceanside) explained that Oceanside is considering updating, with the possibility
138 of hiring a consultant for assistance. They will likely hold off until the permit reissuance.
139 Christian Braun with the Port of San Diego also noted that they will not be updating.

140 The County of San Diego clarified their anticipated adoption schedule. Although they intend to
141 complete the update early in December, the County will post the final effective version on New
142 Year's Day, January 1, 2019. The manual will be posted for public review on November 5th, to be
143 followed by a public workshop on November 13th.

144 *iii. White Paper on Bioretention Soil Media*

145 The group agreed to release the white paper on Bioretention Soil Media to Michael Trapp from
146 the Stormwater Monitoring Coalition (SMC). The white paper was conducted as part of the
147 analysis and investigation for the BMP Design Manual. Venkat mentioned that the group had
148 previously released white papers to other agencies, including to the Southern California Coastal
149 Water Research Project (SCCWRP). Rene will make the white paper available on Project Clean
150 Water and will notify Michael Trapp.

151 *iv. Aged Mulch and CalRecycle Requirement*

152 It was recently discovered that a certain aged mulch storage requirement within the County may
153 contradict state recycling legislation. Nancy Richardson (County of San Diego) clarified the issue.
154 Aged mulch consists of a non-homogenous mix of several materials. Most of the aged mulch in
155 San Diego comes from one specific facility. Based on Nancy's research, gorilla hair mulch,
156 although more expensive, is not necessarily considered aged and may therefore avoid the
157 conflict.

158 Not many copermittees have run into this issue. Scott Johnson spoke about Santee's practices,
159 explaining that they primarily use hardwood mulch, most notably the gorilla hair variety. Sheri
160 asked about the benefits of aged mulch, to which Nancy noted that it is considered to have
161 pathogen-killing properties. The group agreed that hardwood is likely the best option, despite
162 not being aged.

163 *v. 85th Percentile Map*

164 Per an inquiry from the Help Desk, a discrepancy on the 85th Percentile Isopluvial Map in the
165 BMP Design manual was brought to the group's attention. According to the question submitted,
166 there are multiple locations along the boundary of the model where it appears that there is
167 incorrect or incomplete data. After analyzing the current map and comparing it to the previous
168 map published in the County Hydrology Manual, the group concluded that the discrepancy was
169 likely due to a lack of topography data in the East-Otay Mesa area, and the odd representation
170 was due to an inaccurate interpolation. The discrepancy affects the development requirements
171 in that particularly area. Sheri noted that there may be an opportunity to resolve the issue when
172 the County Hydrology Manual is updated. Rene mentioned that despite County plans to
173 complete an update in the coming year, certain setbacks including a shortage of staff, further
174 prolong the expected date of the update.

175 *vi. Help Desk and Q&A Log*

176 Nancy provided an update on the Help Desk and Q&A Log. Two of the items were discussed with
177 the previous agenda items. The responses will be posted to PCW. Nancy also added that if the
178 task is to continue through June, there needs to be an increase in funds. Sheri agreed to revisit
179 the budget in the spring, in hopes of having a draft general permit to base a decision on.

180 *b. Alternative Compliance Tools Task*

181 *i. City of San Diego's Alternative Compliance Program*

182 Eric Mosolgo provided an update on the City of San Diego's Alternative Compliance Program,
183 including the workshop at the City of San Diego Planning Commission in September. The next
184 TAC meeting is scheduled in January, which is also around the same time the EIR is planned to
185 commence. The current plan is to have the Alternative Compliance Program ready by 2020.

186 *ii. Water Quality Equivalency Update & Technical Advisory Committee*

187 Sheri provided an update and noted the final update was submitted in June after a thorough
188 review with Erica Ryan from the Regional Board. The update was posted for public comment on
189 the regional board's website and will be open for review through November 10th. No major
190 comments are anticipated during the process.

191 *c. Copermittee Expenditures*

192 *i. FY 17-18 Fourth Quarter (Q4) Expenditures*

193 René presented an update on the group's expenses, including the FY 17-18 Fourth Quarter
194 expenditures which have been updated to include the final June invoices.

195 **MOTION:** Approve Fourth Quarter expenditures totaling in \$125,037.64 **(APPROVED)**

- 196 ♦ Moved by: Sheri McPherson (County of San Diego)
- 197 ♦ Seconded by: Christopher Bauer (City of Chula Vista)
- 198 ♦ Vote: 15 - 0 in favor, 0 abstention

199 *ii. FY 17-18 Carry Over*

200 During the last meeting, the group voted to roll over any remaining funds into the current fiscal
201 year (18-19). Although the vote has already been carried out, René presented the finalized
202 carry-over amount which totaled at \$43,902. This includes the June expenses that had yet to be
203 invoiced.

204 **MOTION:** Approve a carry-over of \$43,902 from FY 17-18 to FY 18-19. **(APPROVED)**

- 205 ♦ Moved by: Mike Strizic (City of Oceanside)

- 206 ♦ Seconded by: Tracy Beach (City of Poway)
207 ♦ Vote: 15 - 0 in favor, 0 abstention

208 *iii. Proposed FY 19-20 Budget*

209 The group discussed the proposed budget for the coming fiscal year (19-20). Sheri McPherson
210 (County of San Diego) thought it would be worthwhile to broaden the BMP Design Manual task
211 scope for added flexibility during the permit reissuance. The group agreed that was a good idea.
212 She clarified no additional funds would be added; only the scope would be broadened. Further
213 discussion on the topic is to come.

214 *MOTION:* Approve proposed FY 19-20 budget of \$300,000 **(APPROVED)**

- 215 ♦ Moved by: Eric Mosolgo (City of San Diego)
216 ♦ Seconded by: Kyrenne Chua (City of Chula Vista)
217 ♦ Vote: 15 - 0 in favor, 0 abstention

218 **8. Action Items**

Action Item	Responsible Party	Timeline
1. Eric Mosolgo to provide notes from September 13 th planning commission meeting.	Eric Mosolgo	ASAP
2. County of San Diego to coordinate meeting with the Regional Board to present the final proposed permit modifications.	County of San Diego	ASAP
3. Effective date of finalized BMP Design Manual stated in the final document to be removed. Announcement and redistribution to follow on Project Clean Water.	County of San Diego, Eric Mosolgo, Venkat Gummadi	ASAP
4. René Vidales to provide Michael Trapp (Stormwater Monitoring Coalition) with the requested white paper on bioretention soil media.	René Vidales	ASAP

219 **9. Next Meeting**

220 The next LDW meeting is tentatively scheduled for Tuesday, December 18, 2018 from 9:00 a.m.
221 to 12:00 p.m.