EXISTING INDEX CONTOUR (25-FT INTERVAL)
EXISTING INTERMEDIATE CONTOUR (5-FT INTERVAL)
PROPOSED INDEX CONTOUR (25-FT INTERVAL)
PROPOSED INTERMEDIATE CONTOUR (5-FT INTERVAL)
EXISTING EPHEMERAL DRAINAGE
PROPOSED CHANNEL ALIGNMENT
GAS PIPELINE ALIGNMENT
CHANNEL EXCAVATION BOUNDARY
SOIL REPOSITORY/ROAD BOUNDARY
ARIZONA STATE HIGHWAY 82
PROPERTY BOUNDARY
POND
SOIL REPOSITORY ID

RAIL X CONSTRUCTION VOLUMES & AREAS

<table>
<thead>
<tr>
<th>Design Feature</th>
<th>Area (ac)</th>
<th>Cut (C.Y.)</th>
<th>Fill (C.Y.)</th>
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</thead>
<tbody>
<tr>
<td>RX Channel</td>
<td>10.5</td>
<td>52,925</td>
<td>6</td>
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<tr>
<td>RX Repository 1</td>
<td>4.1</td>
<td>2,086</td>
<td>9,359</td>
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<tr>
<td>RX Channel Fill &amp; Repository 2</td>
<td>11.0</td>
<td>192</td>
<td>45,145</td>
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<td><strong>TOTAL</strong></td>
<td><strong>25.6</strong></td>
<td><strong>55,203</strong></td>
<td><strong>54,510</strong></td>
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SCR CONSTRUCTION VOLUMES & AREAS

<table>
<thead>
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<th>Design Feature</th>
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<th>Fill (C.Y.)</th>
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<tbody>
<tr>
<td>SCR Channel</td>
<td>59.6</td>
<td>367,885</td>
<td>2,962</td>
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<tr>
<td>Tributary W1</td>
<td>0.9</td>
<td>2,159</td>
<td>1,429</td>
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<tr>
<td>Tributary E1</td>
<td>0.8</td>
<td>3,227</td>
<td>64</td>
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<tr>
<td>Tributary E2</td>
<td>1.0</td>
<td>2,669</td>
<td>208</td>
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<tr>
<td>Tributary E3</td>
<td>1.5</td>
<td>6,948</td>
<td>1</td>
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<tr>
<td>Filling Sonora</td>
<td>20.6</td>
<td>819</td>
<td>129,767</td>
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<tr>
<td>SCR Repository 1</td>
<td>1.7</td>
<td>1,191</td>
<td>6,300</td>
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<td>SCR Repository 2</td>
<td>16.4</td>
<td>4,694</td>
<td>70,925</td>
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<tr>
<td>SCR Repository 3</td>
<td>8.4</td>
<td>1,191</td>
<td>64,024</td>
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<tr>
<td>SCR Repository 4</td>
<td>17.5</td>
<td>2,407</td>
<td>16,320</td>
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<tr>
<td>SCR Repository 5</td>
<td>8.4</td>
<td>1,723</td>
<td>53,633</td>
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<tr>
<td>SCR Repository 6</td>
<td>17.5</td>
<td>2,155</td>
<td>17,817</td>
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<tr>
<td>Sonoita Creek Bank Improvement</td>
<td>5.5</td>
<td>32,554</td>
<td>129</td>
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<td><strong>TOTAL</strong></td>
<td><strong>168.1</strong></td>
<td><strong>427,708</strong></td>
<td><strong>427,481</strong></td>
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</table>
SONOITA CREEK MITIGATION PROJECT

NOTES

1. PROFILES OF EXISTING GRADE AND FINAL GRADE CORRESPOND TO CHANNEL CENTERLINE ELEVATIONS.
2. PROPOSED SOIL REPOSITORY BOUNDARY TYPICAL RIGHT BEND CROSS SECTION.
3. CROSS SECTIONS ARE DRAWN FACING DOWNSTREAM.
4. ACTIVE CHANNEL IS ALWAYS CENTERED ON THE CHANNEL ALIGNMENT CENTERLINE.
5. SCR CHANNEL RIGHT AND LEFT CHANNEL TERRACE WIDTHS SHALL ALWAYS SUM TO TOTAL TERRACE WIDTH OF 100-FT.
6. SCR CHANNEL RIGHT BEND: MINIMUM LEFT TERRACE WIDTH IS 23.0-FT AND MAXIMUM RIGHT TERRACE WIDTH IS 77.0-FT.
7. SCR CHANNEL LEFT BEND: MAXIMUM LEFT TERRACE WIDTH IS 77.0-FT AND MINIMUM RIGHT TERRACE WIDTH IS 23.0-FT.
8. ACTIVE CHANNEL GRADUALLY MEANDERS WITHIN THE TOTAL TERRACE WIDTH.
9. TERRACE CONSTRUCTION ALONG THE LEFT BANK OF SONOITA CREEK WITH BEGIN AT THE CONFLUENCE WITH SCR CHANNEL (SEE WET 15).
10. WHERE IT BECOMES NECESSARY TO FILL GREATER THAN 1.5-FT DEEP WITHIN THE CHANNEL EXCAVATION BOUNDARY, THEN FILL SHALL BE COMPACTED IN LOOSE LIFTS NOT EXCEEDING 1-FT DEEP AND COMPACTED TO 95% OF A STANDARD PROCTOR (ASTM D698).

PREPARED BY:

WET 10

WET 10

09/08/17

SEAL

WET 10

WET 10
NOTES

1. PROFILES OF EXISTING GRADE AND FINAL GRADE CORRESPOND TO CHANNEL CENTERLINE ELEVATIONS.
2. PROPOSED PROFILE CORRESPONDS TO CHANNEL INVERT ELEVATION.
3. CROSS SECTIONS ARE DRAWN FACING DOWNSTREAM.
4. ACTIVE CHANNEL IS ALWAYS CENTERED ON THE CHANNEL ALIGNMENT CENTERLINE.
5. SCR CHANNEL, LEFT AND RIGHT CHANNEL TERRACE WIDTHS SHALL ALWAYS SUM TO TOTAL TERRACE WIDTH OF 100-FT.
6. SCR CHANNEL, RIGHT BEND: MINIMUM LEFT TERRACE WIDTH IS 23.0-FT AND MAXIMUM RIGHT TERRACE WIDTH IS 77.0-FT.
7. SCR CHANNEL, LEFT BEND: MAXIMUM LEFT TERRACE WIDTH IS 77.0-FT AND MINIMUM RIGHT TERRACE WIDTH IS 23.0-FT.
8. ACTIVE CHANNEL, GRADUALLY MEANDERS WITHIN THE TOTAL TERRACE WIDTH.
9. CHANNEL CONSTRUCTION ALONG THE LEFT BANK OF SONOITA CREEK WITH BEGIN AT THE CONFLUENCE WITH SCR CHANNEL (SEE WET 15).
10. WHERE IT BECOMES NECESSARY TO FILL GREATER THAN 1.5-FT DEEP WITHIN THE CHANNEL EXCAVATION BOUNDARY, THEN FILL SHALL BE COMPACTED IN LOOSE LIFTS NOT EXCEEDING 1-FT DEEP AND COMPACTED TO 95% OF A STANDARD PROCTOR (ASTM D698).
NOTES

1. PROFILES OF EXISTING GRADE AND FINAL GRADE CORRESPOND TO
CHANNEL CENTERLINE ELEVATIONS.
2. PROPOSED GRADE PROFILE CORRESPONDS TO CHANNEL INVERT
ELEVATION.
3. CROSS SECTIONS ARE DRAWN FACING DOWNSTREAM.
4. CHANNEL TERRACE IS ALWAYS CENTERED ON THE CHANNEL
ALIGNMENT CENTERLINE.
5. SCR CHANNEL, LEFT AND RIGHT CHANNEL TERRACE WIDTHS SHALL
ALWAYS SUM TO TOTAL TERRACE WIDTHS OF 100 FT.
6. SCR CHANNEL, RIGHT BEND MINIMUM LEFT TERRACE WIDTH IS
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7. SCR CHANNEL, LEFT BEND: MAXIMUM LEFT TERRACE WIDTH IS
77.0 FT AND MINIMUM RIGHT TERRACE WIDTH IS 23.0 FT.
8. ACTIVE CHANNEL, GRADUALLY MEANDERS WITHIN THE TOTAL
TERRACE WIDTH.
9. TERRACE CONSTRUCTION ALONG THE LEFT BANK OF SONOITA
CREEK WITH BEGIN AT THE CONFLUENCE WITH SCR CHANNEL (SEE
WET 15).
10. WHERE IT BECOMES NECESSARY TO FILL GREATER THAN 1.5 FT
DEEP WITHIN THE CHANNEL EXCAVATION BOUNDARY, THEN FILL
SHALL BE COMPACTED IN LOOSE LIFTS NOT EXCEEDING 1 FT DEEP
AND COMPACTED TO 95% OF A STANDARD PROCTOR (ASTM D698).

PREPARED BY: [Company Name]

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Fort Collins, CO 80524
(970) 225-6080
www.wetec.us
T21S, R16E, Portions of Sections 3, 4, 9, 16, 20, 21, 28, 29, 32, & 33.
Santa Cruz County, Arizona
Photo Source: 2015 USDA NAIP Orthophoto

Legend
- Sonota Creek Ranch
- Potential Waters of the United States

ROSEMONT COPPER COMPANY
Rosemont Project HMMP
September 12, 2017
SONOITA CREEK RANCH
EXISTING CONDITIONS
Figure 10
CORPS FILE NO. SPL-2008-00816-MB