

**[SUMMARY OF FINAL SUBMITTED VERSION]**

**PROGRESS REPORT BY PERMITTEE FOR 2016**

Primary Owner: CHINO BASIN WATERMASTER  
 Primary Contact:

Date Submitted: 03/30/2017

Application Number: A031369  
 Permit Number: 021225

Source(s) of Water	POD Parcel Number	County
DEER CREEK		Riverside
CUCAMONGA CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
DAY CREEK		San Bernardino
DEER CREEK		San Bernardino
CUCAMONGA CREEK		San Bernardino
CUCAMONGA CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
DAY CREEK		San Bernardino
EAST ETIWANDA CREEK		Los Angeles
SAN ANTONIO CREEK		San Bernardino
CUCAMONGA CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
EAST ETIWANDA CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		Riverside
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
DAY CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino

MAX Direct Diversion Rate: 0 GPD  
 MAX Collection to Storage: 68500 AC-FT  
 Face Value: 68500 AC-FT

Permitted Use(s)	Acres	Direct Diversion Season	Storage Season
Municipal	26887		01/01 to 12/31

<b>1. Permit Review</b>	
I have reviewed my water right permit	Yes
<b>2. Compliance with Permit Terms and Conditions</b>	
I am complying with all terms and conditions	Yes

Description of noncompliance with terms and conditions	
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<b>3. Changes to the Project</b>	
Intake location has been changed	
Description of intake location changes	
Type of use has changed	
Description of type of use changes	
Place of use has changed	
Description of place of use changes	
Other changes	
Description of other changes	

<b>4-6. Permitted Project Status</b>	
Project Status	Not Complete
6a. Construction work has commenced	Yes
6b. Construction is completed	No
6c. Beneficial uses of water has commenced	Yes
6d. Project will be completed within the time period specified in the permit	Yes
6e. Explanation of work remaining to be done	On October 9, 2008, Permit 21225 (A031369) was issued, allowing a period within which to make beneficial use through December 31, 2057. Petitions for Extension of Time, to the same date of December 31, 2057, are pending for Permits 19895 (A028473) and 20753 (A028996). In addition to annual operation and maintenance work at permitted diversions and storage facilities (groundwater recharge basins) and diversion points, CY 2016 work included the development of preliminary design reports, environmental documentation and final designs on nine recharge improvement projects as proposed in the 2013 Amendment to the 2010 Recharge Master Plan Update. These nine new recharge projects are, for the most part, expansions in recharge capacities at facilities; and, construction of these proposed recharge improvements is projected to be completed in 2020. The Chino Basin Watermaster and the Inland Empire Utilities Agency will update the recharge master plan in 2020 and every five years thereafter and they will subsequently construct additional recharge improvements to enhance diversion and recharge capacity within the quantities allowed under the three permits.
6f. Estimated date of completion	12/31/2057

<b>7. Purpose of Use</b>	
Irrigation	13000 Acres Mixed Crop Types
Industrial	Mixed Manufacturing
Municipal	860000
Power	640 MW

Stockwatering	89700 Cows, 4000 Other Livestock
Other	Commercial Supply and Landscape

### Special Use Categories

C1. Are you using any water diverted under this right for the cultivation of cannabis?	No
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### 8. Maximum Rate of Diversion for each Month

Month	Maximum Rate of Diversion (CFS)
January	946
February	227
March	411
April	76
May	219
June	1
July	1
August	1
September	2
October	95
November	169
December	665

### 9. Amount of Water Diverted and Used

Month	Amount directly diverted (Acre-Feet)	Amount diverted or collected to storage (Acre-Feet)	Amount used (Acre-Feet)
January	0	2398	2398
February	0	478	478
March	0	1476	1476
April	0	317	317
May	0	470	470
June	0	47	47
July	0	43	43
August	0	64	64
September	0	87	87
October	0	402	402
November	0	591	591
December	0	3389	3389
Total	0	9762	9762
Type of Diversion	Diversion to Storage Only		
Comments			

### Water Transfers

9d. Water transfered	No
9e. Quantity transfered (Acre-Feet)	
9f. Dates which transfer occurred	/ to /
9g. Transfer approved by	

### Water Supply Contracts

8h. Water supply contract	No
9i. Contract with	

9j. Other provider	
9k. Contract number	
9l. Source from which contract water was diverted	
9m. Point of diversion same as identified water right	
9n. Amount (Acre-Feet) authorized to divert under this contract	
9o. Amount (Acre-Feet) authorized to be diverted in 2016	
9p. Amount (Acre-Feet) projected for 2017	
9q. Exchange or settlement of prior rights	
9r. All monthly reported diversion claimed under the prior rights	
9s. Amount (Acre-Feet) of reported diversion solely under contract	

### 10. Water Diversion Measurement

a. Required to measure as of the date this report is submitted	Yes
b. Is diversion measured?	Yes
c. An alternative compliance plan was submitted to the division of water rights on	
d. A request for additional time was submitted to the division of water rights on	

Measurement ID number	M000438
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	College Heights West Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	03/01/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the

	<p>transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency	More frequent than hourly

of data recording	
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of College Heights West Basin.

Measurement ID number	M001340
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Upland Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2011
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.

M9. Approximate date the measuring device was last calibrated or the measurement method was updated	03/01/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system

M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Upland Basin.

Measurement ID number	M001425
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Montclair Basin 1 Transducer



M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	06/29/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	01/12/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods

of the individual	
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Montclair Basins 1-4

Measurement ID number	M001426
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Montclair Basin 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	04/12/2016
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/22/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>

M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on	Yes

the method I used to calculate the volume of water	
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Montclair Basins 1-4

Measurement ID number	M001427
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Montclair Basin 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/22/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply

	pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by	No

telemetry as of the date this report is submitted	
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Montclair Basins 1-4

Measurement ID number	M001428
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Montclair Basin 4 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	06/06/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/22/2017
M10. Estimated	0.1%

accuracy of measurement	
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A



M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Montclair Basins 1-4

Measurement ID number	M001429
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Brooks Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of	07/01/2013

installation	
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	04/28/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency

M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Brooks Basin
Measurement ID number	M001430
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the	Transducer

measurement device or method	
M2. Nickname	8th Street Basin Transducer (North Cell)
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	11/14/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	07/05/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org

M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached	Elevation-area-storage table of 8th Street Basin

to this water use report	
Measurement ID number	M001431
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	8th Street Basin Transducer (South Cell)
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	10/18/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	03/09/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B.</p>

	Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	

M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of 8th Street Basin

Measurement ID number	M001432
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	7th Street Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	07/05/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process



	<p>calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.

M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of 7th Street Basin

Measurement ID number	M001433
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Ely Basin 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	05/15/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the	07/05/2016

measurement method was updated	
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial	N/A

number	
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Ely Basins 1-3

Measurement ID number	M001434
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Ely Basin 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A

M6. Model number	Versaline VL 4513
M7. Approximate date of installation	06/01/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	07/05/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency

above and/or any other relevant explanation	
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Ely Basins 1-3
Measurement ID number	M001435
This Device/Method was used to measure water	Yes

during the current reporting period	
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Ely Basin 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	06/12/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	07/05/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	

M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents	Elevation-area-storage table of Ely Basins 1-3



related to this measurement device or method that are attached to this water use report	
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Measurement ID number	M001436
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Grove Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	03/18/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	03/03/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum

	pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my	

diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Grove Basin

Measurement ID number	M001449
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	07/16/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the

	<p>transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency	More frequent than hourly

of data recording	
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

Measurement ID number	M001450
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	04/21/2016
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.

M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system

M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins
Measurement ID number	M001455
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 3 Transducer

M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	02/25/2016
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods



of the individual	
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

Measurement ID number	M001456
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 4a Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	06/10/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>

M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on	Yes

the method I used to calculate the volume of water	
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

Measurement ID number	M001463
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 4b Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	06/11/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply

	pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by	No

telemetry as of the date this report is submitted	
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

Measurement ID number	M001464
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 4c Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	06/12/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated	0.1%

accuracy of measurement	
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A

M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

Measurement ID number	M001466
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Lower Day Basin Cell 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of	10/18/2016



installation	
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	10/18/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency

M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Lower Day Basin
Measurement ID number	M001467
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the	Transducer

measurement device or method	
M2. Nickname	Victoria Basin South Cell Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	11/15/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	01/25/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org

M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached	Elevation-area-storage table of Victoria Basin

to this water use report	
Measurement ID number	M001468
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Victoria Basin North Cell Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2013
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	01/25/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B.</p>

	Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	

M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Victoria Basin

Measurement ID number	M001469
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	San Sevaine Cell 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/27/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process

	<p>calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.



M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of San Sevaine Basins 1-5

Measurement ID number	M001470
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	San Sevaine Cell 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the	02/27/2017

measurement method was updated	
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mA on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial	N/A

number	
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of San Sevaine Basins 1-5

Measurement ID number	M001471
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	San Sevaine Cell 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A

M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/27/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency

above and/or any other relevant explanation	
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of San Sevaine Basins 1-5
Measurement ID number	M001472
This Device/Method was used to measure water	Yes

during the current reporting period	
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	San Sevaine Cell 5 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2013
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/27/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	

M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents	Elevation-area-storage table of San Sevaine Basins 1-5

related to this measurement device or method that are attached to this water use report	
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Measurement ID number	M001473
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Jurupa Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/27/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process Calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum



	pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my	

diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Jurupa Basin

Measurement ID number	M001474
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Banana Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2011
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/25/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the

	<p>transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency	More frequent than hourly

of data recording	
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Banana Basin

Measurement ID number	M001476
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Hickory Basin East Cell Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	12/15/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.

M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/24/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system

M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Hickory Basin
Measurement ID number	M001477
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Hickory Basin West Cell Transducer

M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	09/16/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/24/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods

of the individual	
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Hickory Basin



Measurement ID number	M001480
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 1a Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>

M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on	Yes

the method I used to calculate the volume of water	
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001481
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 1b Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	05/03/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply

	pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by	No

telemetry as of the date this report is submitted	
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001482
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	03/01/2016
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated	0.1%

accuracy of measurement	
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A

M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001483
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 3a Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of	04/14/2014

installation	
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency



M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins
Measurement ID number	M001484
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the	Transducer

measurement device or method	
M2. Nickname	RP-3 Cell 3b Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	04/20/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org

M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached	Elevation-area-storage table of the RP-3 Basins

to this water use report	
Measurement ID number	M001485
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 4a Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B.</p>

	Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	

M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001486
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 4b Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	12/28/2015
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process

	<p>calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.

M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001487
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Declez Basin Cell 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	11/28/2016
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the	11/28/2016



measurement method was updated	
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mA on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial	N/A

number	
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Declez Basin

Measurement ID number	M001488
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Declez Basin Cell 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A

M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency

above and/or any other relevant explanation	
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Declez Basin
Measurement ID number	M001490
This Device/Method was used to measure water	Yes

during the current reporting period	
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Declez Basin Cell 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2013
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	<p>1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	

M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents	Elevation-area-storage table of Declez Basin

related to this measurement device or method that are attached to this water use report	
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Measurement ID number	M001652
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Lower Day Basin Cell 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2011
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	05/01/2014
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum

	pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my	



diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table for the Lower Day Basin

Measurement ID number	M001812
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Lower Day Basin Cell 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2011
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	05/01/2014
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the

	<p>transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.</p>
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	A person under the supervision of a California-registered Professional Engineer and employed to install, operate, and maintain water measurement and reporting devices or methods
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency	More frequent than hourly

of data recording	
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table for the Lower Day Basin.

11. Storage					
Reservoir name	Spilled this year	Feet below spillway at maximum storage	Completely emptied	Feet below spillway at minimum storage	Method used to measure water level
Chino Groundwater Basin	No	0	No	0	Regional Groundwater Level Monitoring Network

Conservation of Water	
12. Are you now employing water conservation efforts?	Yes
Description of water conservation efforts	The over 200 Appropriative, Non-Agricultural, and Agricultural Chino Basin groundwater producers have instituted many water conservation measures, ranging from recycled water conservation to public education notices.
13. Amount of water conserved	

Water Quality and Wastewater Reclamation	
14. During the period covered by this Report, did you use reclaimed water from a wastewater treatment facility, water from a desalination facility, or water polluted by waste to a degree which unreasonably affects the water for other beneficial uses?	Yes
15. Amount of reclaimed, desalinated, or polluted water used	

### Conjunctive Use of Groundwater and Surface Water

16. During the period covered by this Report, were you using groundwater in lieu of available surface water authorized under your permit?	No
17. Amounts of groundwater used	

### Additional Remarks

The Chino Basin Watermaster holds three permitted rights for diversion and recharge of stormwater within the Santa Ana River Watershed. Permit 19895 covers the Day Creek Project Facilities and allows the diversion of 15,000 acre-feet annually, from November 1 through April 30 of the succeeding year, to underground storage through recharge basins and spreading grounds along Day Creek. Permit 20753 covers the East Etiwanda Creek and San Sevaine Creek Facilities and allows the diversion of 27,000 acre-feet annually, from October 1 through May 1 of the succeeding year, to underground storage through recharge basins and spreading grounds along East Etiwanda and San Sevaine Creeks. Permit 21225 allows the annual diversion of 68,500 acre-feet, from January 1 to December 31, to underground storage through recharge basins and spreading grounds along Deer, Day, Etiwanda, San Sevaine, Chino, San Antonio, and Cucamonga Creeks. (For clarity, the notice listed Deer Creek as being in Riverside County, but it is located entirely within San Bernardino County.) Some facilities covered under Permits 19895 and 20753 are additionally permitted for additional recharge under Permit 21225. Chino Basin Watermaster conjunctively manages spreading ground and basin recharge pursuant to the three permits and believes the permits are best managed conjunctively. While several phases of groundwater recharge facility construction have been completed, pursuant to these three permits, the Chino Basin Stakeholders continue to implement additional improvements contemplated in the Recharge Master Plan and Optimum Basin Management Program. Furthermore, since precipitation within the Chino Basin watershed is both flashy and subject to extreme variations in annual rainfall volumes (droughty), it is anticipated that diversion to storage may also vary dramatically and infrequently reach full permitted volumes. Pursuant to Permit 21225, Watermaster has through the year 2057 to make full beneficial use of the allowed storage volume, and similar time extensions are currently pending for permits 19895 and 20753, to facilitate conjunctive implementation and operation of the diversion and recharge basin and spreading ground network. With respect to Question 7, Watermaster's permits allow use for Industrial, Irrigation and Municipal purposes (and, in the case of Permit 21225, Stockwatering). During the calendar year, the total volume of groundwater extracted from the Chino Basin was approximately 148,724 acre-feet: including 99,490 acre-feet for municipal (Appropriators) use, 17,641 acre-feet for Agricultural (Crops and Stockwatering/Dairy), 28,249 acre-feet by Chino Basin Desalter Authority (24,448 acre-feet of which was made available for municipal use), 3,165 acre-feet for Non-Agricultural Overlying (Industrial) use and 178 acre-feet for energy production. With respect to Question 9, these volumes reflect the quantities of recharge diverted to underground storage pursuant to Permits 19895, 20753, and 21225, as Chino Basin Watermaster conjunctively manages all diversions to the recharge basin and spreading ground network. With respect to Question 8, the daily volume of water diverted at each facility was measured using pressure transducers and physical configurations, converted into an average 24-hour flow rate, summed, and the maximum for each month reported. With respect to Question 14, during the calendar year, the Chino Desalters extracted 28,249 acre-feet of contaminated stored groundwater (degraded by TDS, nitrate, and TCE), producing 24,448 acre-feet of (reclaimed) product water. Additionally, 34,424 acre-feet of reclaimed (recycled) water were used of which 14,310 acre-feet were recharged and 20,114 acre-feet were directly used.

### Attachments

File Name	Description	Size
<a href="#">2016 Annual Streamflow Monitoring Report for Permit 21225.pdf</a>	Annual Streamflow Monitoring Report for Water Rights Permit 21225, Fiscal 2015/2016 with transmittal letter included.	3 MB
<a href="#">EAS - 2017.zip</a>	Elevation-area-storage tables for recharge facilities in the Chino Basin	1 MB

### Contact Information of the Person Submitting the Form

First Name	Garrett
Last Name	Rapp
Relation to Water Right	Other: Engineer for the Chino Basin Watermaster
Has read the form and agrees the information in the report is true to the best of his/her knowledge and belief	Yes