

SAMPLE INSPECTION REPORT

REPORT ON 2016-17 INSPECTION OF  
LACDPW SCRDS FACILITIES

CONTRACT:STORMWATER CAPTURE RUBBER DAM  
MAINTENANCE SERVICES (2014-IT001)

AUGUST 20, 2018

VERIFICATION STATEMENT:

To the best of my knowledge, the following information presented in this inspection report is certified to be true and correct.

SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

RUBBER DAM INSPECTION REPORT

CONTRACT: STORMWATER CAPTURE RUBBER DAM MAINTENANCE SERVICES (2014-IT001)

## EXECUTIVE SUMMARY FOR 2017-18 SCRDS FACILITY INSPECTIONS

### INSPECTION OBJECTIVES

The inspection of the 22 LADPW SCRDS facilities were conducted by J. in May 2018. Under the direction of LADPW the inspections were to focus on looking for changes from previous inspections:

- 1) Provide detailed inspection of system functionality, mechanical equipment, telemetry equipment and Rubber Dam body at each site to detect significant changes from the 2016-17 inspections.
- 2) Identify critical maintenance items and propose solutions.
- 3) Identify preventative measures to reduce the chance of component failure.

### INSPECTION METHODS

At each site a detailed inspection was made including the following:

- 1) Photos of the Rubber body deflated and inflated from upstream, above and downstream.
- 2) Detailed visual inspection of the deflated and inflated Rubber Dam.
- 3) Photos of any changes to control room equipment.
- 4) Detailed photos of areas needing maintenance or further investigation.
- 5) Comparison of inflation time, voltage and amperage to 2016-17 data.

### ONGOING INSPECTION PRIORITIES

- 1) The area where the Rubber Dam fin meets the body is an area where deterioration and separation of layers is likely to occur. Observations are made regularly to monitor occurrence and/or progression of damage. Reduction of fin height should be investigated.
- 2) All areas of small radius bending are observed carefully on ceramic cover Rubber Dams to look for the occurrence of damage such as was found at Santa Fe Rubber Dam.

### NOTES ON MAINTENANCE AND REPAIR

- 1) Any Rubber Dam repair beyond a simple (Type A) puncture repair must be accomplished in cooperation with a company with specific proven experience with the repair of Rubber Dams made of EPDM rubber such as Canada Conveyor Belt Ltd of Surrey, BC. Substitution of a conveyor belt repair company without EPDM Rubber Dam experience could have disastrous and dangerous results.
- 2) The Rubber Dam PLC based control and telemetry system is a complex and integrated network. The same variables that are used by the PLC controller to operate the Rubber Dam are used in the local screen display and the operator interface at LADPW headquarters. Any change to components or programming must be undertaken with extreme caution as the change to a single variable in the PLC can have significant and potentially adverse results.

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## RUBBER DAM INSPECTION REPORT

### CONTRACT: STORMWATER CAPTURE RUBBER DAM MAINTENANCE SERVICES (2014-IT001)

#### SUMMARY OF RECOMMENDED SCRDS FACILITY REPAIRS AND PRIORITIES <sup>1</sup>

The inspection of the 21 LADPW SCRDS facilities were conducted by J. \_\_\_\_\_ in May 2018. The completed inspection has been used to quantify needed repair work at all 22 facilities. This professional opinion of needed work is offered so that LADPW can determine how best to allocate limited contract funds. Table RS-2 shows the top three categories for prioritized work at all the facilities.

TABLE RS-2 : Work prioritized 1 through 3.

Priority	Facility	Description
1	SAN GABRIEL RIVER @ SANTA FE DAM	Rubber Dam body is severely deteriorated and requires replacement.
1	SAN GABRIEL RIVER @ SANTA FE DAM	Replace UPS and tie in to PLC Programming & Alarms.
1	SAN GABRIEL RIVER @ VALLEY BLVD. #1	Remove and replace Class D repair at right abutment.
1	SAN GABRIEL RIVER @ VALLEY BLVD. #1	Replace UPS and tie in to PLC Programming & Alarms.
1	SAN GABRIEL RIVER @ VALLEY BLVD. #2	Replace UPS and tie in to PLC Programming & Alarms.
1	SAN GABRIEL RIVER @ VALLEY BLVD. #2	Monitor under fin bubbles
1	SAN GABRIEL RIVER @ VALLEY BLVD. #2	Cut fin to normal height
1	SAN GABRIEL RIVER @ VALLEY BLVD. #3	Replace UPS and tie in to PLC Programming & Alarms
1	SAN GABRIEL RIVER @ VALLEY BLVD. #3	Cut fin to normal height
1	SAN GABRIEL RIVER @ BEVERLY BLVD #1	Make 6 Class A repairs
1	SAN GABRIEL RIVER @ BEVERLY BLVD #1	Move radio antenna up 10-15 ft to top of pole.
1	SAN GABRIEL RIVER @ BEVERLY BLVD #1	Replace UPS and tie in to PLC Programming & Alarms
1	SAN GABRIEL RIVER @ WHITTIER BLVD. #2	Replace UPS and tie in to PLC Programming & Alarms
1	SAN GABRIEL RIVER @ WHITTIER BLVD. #2	Develop method for monitoring of separation at lower edge of fin
1	SAN GABRIEL RIVER @ WHITTIER BLVD. #2	Move radio antenna to top of pole at right abutment.
1	SAN GABRIEL RIVER @ WASHINGTON BLVD. #3	Replace UPS and tie in to PLC Programming & Alarms
1	SAN GABRIEL RIVER @ SLAUSON BLVD. #4	Repair surface cracking
1	SAN GABRIEL RIVER NEAR TELEGRAPH AVE. #5	Replace Rubber Dam.
1	SAN GABRIEL RIVER NEAR TELEGRAPH AVE. #5	Replace bolt at right abutment.
1	SAN GABRIEL RIVER NEAR TELEGRAPH AVE. #5	Replace UPS and tie in to PLC Programming & Alarms
1	SAN GABRIEL RIVER @ FIRESTONE BLVD. #7	Rubber dam needs two Class A repairs at seam downstream
1	LIVE OAK SPREADING GROUNDS	Investigate Upstream Level Transmitter Out-of-Range alarm
1	LIVE OAK SPREADING GROUNDS	Investigate Upstream Level Below Sensor Minimum alarm
1	EATON @ EATON SPREADING GROUNDS	Investigate UPS battery fault
1	EATON @ EATON SPREADING GROUNDS	Investigate Pressure sensor fault
1	EATON @ EATON SPREADING GROUNDS	Investigate water level sensor fault
1	EATON @ EATON SPREADING GROUNDS	Investigate high temperature fault
1	HANSEN SPREADING GROUNDS	Repair or replace compressor.
1	HANSEN SPREADING GROUNDS	Recalibrate or replace inclinometer
2	SAN GABRIEL RIVER @ VALLEY BLVD. #1	Repair and test building alarm
2	SAN GABRIEL RIVER @ VALLEY BLVD. #2	Repair and test building alarm.
2	SAN GABRIEL RIVER @ VALLEY BLVD. #3	Repair and test building alarm.
2	SAN GABRIEL RIVER @ VALLEY BLVD. #2	Monitor under fin bubbles.
2	HANSEN SPREADING GROUNDS	Move water level sensor down stilling well intake pipe to base of channel wall
3	SAN GABRIEL RIVER @ VALLEY BLVD. #1	Re-wire and test slide gate panels
3	SAN GABRIEL RIVER @ VALLEY BLVD. #2	Investigate cause of slide gate failure to operate

#### NOTES:

1. This list is an estimate of needed maintenance and repair. It should be used for planning purposes only. Quantification and prioritization of needed work does not necessarily imply that deterioration of any part of the system will occur sequentially as listed. Unforeseen events or circumstances which occur over any given period of time could potentially cause components of the system to break down out of order or unexpectedly.

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INTRODUCTION

**CONTRACT:STORMWATER CAPTURE RUBBER DAM MAINTENANCE SERVICES  
(2014-IT001)****INTRODUCTION FOR 2017-18 SCRDS FACILITY INSPECTIONS**

The LADPW Contract STORMWATER CAPTURE RUBBER DAM MAINTENANCE SERVICES (SCRDS) was awarded in early August of 2014 to \_\_\_\_\_ The intention of the contract is to provide inspection and maintenance services for the 15 operational LADPW Bridgestone Dams, the Hansen, Eaton and Live Oak Obermeyer Gates and the four telemetry repeater stations that comprise the 22 SCRDS facilities. Inspections of all facilities were conducted by \_\_\_\_\_ in May 2018.

Objectives of the inspection work were as follows:

- 1) Provide detailed inspection of system functionality, mechanical equipment, telemetry equipment and Rubber Dam body at each site to detect significant changes from the 2016 inspections.
- 2) Identify critical maintenance items and propose solutions.
- 3) Identify preventative measures to reduce the chance of component failure.

Each of the 15 Bridgestone Rubber Dam systems inspected consists of an inflatable rubber bladder and associated mechanical, telemetry and control equipment. The Obermeyer gates at Hansen, Eaton and Live Oak consist of rubber bladders which raise a set of steel plates which create the upstream impoundment along with associated mechanical and control equipment. In general the rubber component at each of the 18 gate sites was found to be in good condition including repairs made in previous years. The 2013 and 2016 Santa Fe seam repairs were unchanged. The cover rubber separation at the underside of the fin area at San Gabriel #2 at Whittier Blvd did not appear to have changed since the previous inspection. This kind of damage will continue to require close monitoring at each of the sites where it occurs.

The telemetry repeater sites at Rio Hondo Headworks, Rose Hills, LACDPW Headquarters and Flint Peak serve to connect the SCRDS facilities by a licensed frequency radio network. The network includes a central control and monitoring base station at LADPW headquarters. The LACDPW Headquarters base station has a Virtual Server Wonderware / Intouch operator interface and data logging capabilities. The headquarters base station is being designed to allow control and monitoring of any SCRDS gate site from any PC with appropriate password permission connected to the LADPW intranet. Stations at San Gabriel 1-7 are already connected over the radio network to LACDPW Headquarters through the Flint Peak Repeater. The balance of the gate stations are being brought online through Flint Peak Repeater in 2018-19.

Detailed information including the results of mechanical and control testing are available in the inspection reports for each individual site. Inspections for 2017-18 were conducted to refer back to the baseline data collected in 2009-2012 in order to estimate the stability of the systems and to help to establish annual and long term component replacement priorities.

## RUBBER DAM INSPECTION REPORT

### 1) SAN GABRIEL RIVER @ SANTA FE DAM: TG568-D6

## RUBBER DAM INSPECTION REPORT

Project Name	Santa Fe @ I 210	No. TG 568-D6	SF FINAL RO
Size	6.0' H x 575' L x 1V to 1.0 H	Inspection Date	MAY 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 1995		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:  
 Rubber Body - Rubber Dam body is severley deteriorated and requires replacement.  
 Mechanical Equipment - No significant damage observed.  
 Electrical Equipment - UPS needs replacement.  
 Radio, Antenna & Antenna Mast - No significant damage observed.

Locally the system is functioning satisfactorily.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction

**SITE SPECIFIC COMMENTS**

- 1) Rubber Dam body is severley deteriorated and requires replacement.
- 2) UPS needs replacement.

**CRITICAL MAINTENANCE PRIORITIES**

- 1) Rubber Dam body is severley deteriorated and requires replacement.
- 2) Replace UPS and tie in to PLC Programming & Alarms.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

- 1) Investigate the addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 SANTA FE

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	MAY 2018		
ID	SF		
SITE	SANTA FE RUBBER DAM		
LOCATION	NEAR I 605 & I 210		
R/D LENGTH	575 FT		
R/D HEIGHT	6.0 FT	Installed 1995	
R/D SIDE SLOPES	1/0.5 H		
RUBBER DAM THICKNESS	~1.0 IN		
FIN DIMENSIONS	~4 IN / ~8 IN		
FIN CURL (IN)	~8 IN (~8 IN 2010)		
VOLTAGE	480 VAC		
BLOWER	ROTRON DR14DW72W	Serial#	KE 44737
VALVE	RCS Sure 49		
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI
UPS	APC 1500 VA		
BYPASS GATE	LIMITORQUE/HYDRO GATE Qty 4		

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	No anomalies noted
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

PHOTO 7 CONTROL PANEL EXTERIOR VIEW



PHOTO 8 CONTROL PANEL INTERIOR VIEW



PHOTO 9                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 10                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 13 ANTENNA MAST



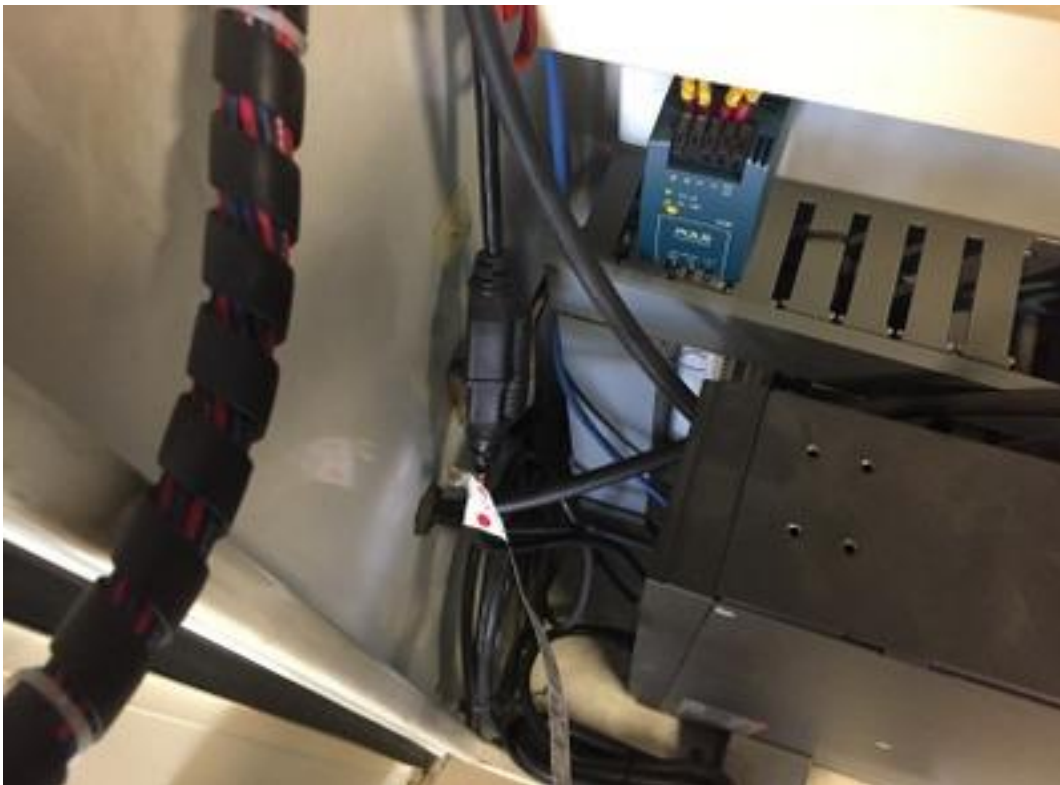
PHOTO 14 ANTENNA DETAIL



PHOTO 15                      REPAIRED AREA RIGHT ABUTMENT



PHOTO 16                      DAMAGED UPS



## RUBBER DAM INSPECTION REPORT

### 2) SAN GABRIEL RIVER @ VALLEY BLVD. #1: TG637-G3

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	Valley # 1 @ Valley Blvd.	No. TG 637-G3	V-1 FINAL RO
Size	10.0' H x ~450' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 1999		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

## (1) INSPECTION RESULT

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:  
 Rubber Body - Class D Repair at right abutment needs removal and replacement.  
 Mechanical Equipment - Motor Valve lacks proportional feedback as included at Valley 2 & 3.  
 Electrical Equipment - UPS needs replacement, Building alarm not working.  
 Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is performing satisfactorily.

## (2) CONTROL EQUIPMENT AND OPERATING CONDITIONS

### CONTROL EQUIPMENT

System 6X

### OPERATING CONDITIONS

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

## (3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES

### GENERAL COMMENTS

Refer to Executive Summary and Introduction

### SITE SPECIFIC COMMENTS

- 1) Motor Valve lacks proportional feedback as included at Valley 2 & 3.
- 2) Motor Valve exhausts the Rubber Dam significantly faster than the Blower can reinflate the Rubber Dam
- 3) UPS needs replacement.
- 4) Building alarm not working.
- 5) Slide gate panels wiring missing.

### CRITICAL MAINTENANCE PRIORITIES

- 1) Remove and replace Class D repair at right abutment.
- 2) Replace UPS and tie in to PLC Programming & Alarms.
- 3) Repair and test building alarm.
- 4) Re-wire and test slide gate panels.

### ITEMS FOR FURTHER INVESTIGATION AND MONITORING

- 1) Investigate addition of proportional feedback to Motor Valve to allow better Valve /Blower balance in order to reduce the probability erratic operation and the possibility of high flows downstream.
- 2) Investigate the addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 VALLEY 1

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018			
ID	V-1			
SITE	VALLEY RUBBER DAM #1			
LOCATION	NEAR I 605 & VALLEY BLVD			
R/D LENGTH	~450 FT			
R/D HEIGHT	10.0 FT	Installed 1999		
R/D SIDE SLOPES	1/0.5 H			
RUBBER DAM THICKNESS	~1.5 IN			
FIN DIMENSIONS	~5 IN / ~11 IN			
FIN CURL (IN)	~8-9 IN (2012~9.5 IN, 2010 ~7 IN)			
VOLTAGE	480 VAC			
BLOWER	ROTRON DRS15BQ72 Serial No.	AG 72498		
VALVE	RCS Sure 49			
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-10 PSI	
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI	
UPS	APC SMART UPS 1500 VA (Needs replacement)			
BYPASS GATE	LIMITORQUE (See page 2-5)			

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	No anomalies noted
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



LADPW M1 VALLEY 1 PHOTOS (CONT.)

PHOTO 3                      INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 4                      INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 5 INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



LADPW M1 VALLEY 1 PHOTOS (CONT.)

PHOTO 7            INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 8            INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



PHOTO 9

CONTROL PANEL



PHOTO 10

CONTROL PANEL DETAIL



LADPW M1 VALLEY 1 PHOTOS (CONT.)

PHOTO 11          ANTENNA MAST



PHOTO 12          ANTENNA DETAIL



PHOTO 13

DETERIORATED CLASS D REPAIR



PHOTO 14

DETERIORATED CLASS D REPAIR



LADPW M1 VALLEY 1 PHOTOS (CONT.)

PHOTO 15

ALARM PANEL



PHOTO 16

SLIDE GATE PANELS



## RUBBER DAM INSPECTION REPORT

### 3) SAN GABRIEL RIVER @ VALLEY BLVD. #2: TG637-F4

## RUBBER DAM INSPECTION REPORT

Project Name	Valley # 2 @ Valley Blvd.	No. TG 637-F4	V-2 FINAL R0
Size	8.0' H x ~450' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 2003		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage observed.

Mechanical Equipment - Slide gate not operational.

Electrical Equipment - No significant damage observed, UPS needs replacement, Alarm not working.

Radio, Antenna & Antenna Mast - No significant damage observed.

Locally the system is functioning satisfactorily

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction

**SITE SPECIFIC COMMENTS**

- 1) UPS needs replacement.
- 2) Indication of beginnings of bubbles under fin.
- 3) Fin unusually high increasing chances of fin bubbles & de-lamination.
- 4) Slide gate not operational.

**CRITICAL MAINTENANCE PRIORITIES**

- 1) Repair building alarm.
- 2) Replace UPS and tie in to PLC Programming & Alarms.
- 3) Monitor under fin bubbles.
- 4) Cut fin to normal height.
- 5) Investigate cause of slide gate failure to operate.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

- 1) Monitor valve & blower balance and open valve > 20% as necessary.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 VALLEY 2

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018		
ID	V-2		
SITE	VALLEY RUBBER DAM #2		
LOCATION	NEAR I 605 & VALLEY BLVD		
R/D LENGTH	~450 FT		
R/D HEIGHT	8.0 FT	Installed 2003	
R/D SIDE SLOPES	1/0.5 H		
RUBBER DAM THICKNESS	~1.5 IN		
FIN DIMENSIONS	~5 IN / ~11 IN		
FIN CURL (IN)	~1 IN (2012 ~1 IN, 2010 ~1 IN)		
VOLTAGE	480 VAC		
BLOWER	ROTRON DRP15BQ72C	Serial#	
VALVE	RCS Sure 49		
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI
UPS	APC SMART UPS 1500 VA		
BYPASS GATE	None		

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	Not operational
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1 INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2 INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3

DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 4

DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 5 INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



LADPW M1 VALLEY 2 PHOTOS (CONT.)

PHOTO 7

INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 8

INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



## RUBBER DAM INSPECTION REPORT

### 4) SAN GABRIEL RIVER @ VALLEY BLVD. #3: TG637-E5

## RUBBER DAM INSPECTION REPORT

Project Name	Valley # 3 @ Valley Blvd.	No. TG 637-E5	V-3_FINAL_RO
Size	8.0' H x ~450' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 2003		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage observed.

Mechanical Equipment - No significant damage observed

Electrical Equipment - UPS needs replacement, fix building alarm.

Radio, Antenna & Antenna Mast - No significant damage observed,

Alarm not working.

Locally the system is functioning satisfactorily.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction

**SITE SPECIFIC COMMENTS**

- 1) UPS needs replacement.
- 2) Fin unusually high increasing chances of fin bubbles & de-lamination.

**CRITICAL MAINTENANCE PRIORITIES**

- 1) Replace UPS and tie in to PLC Programming & Alarms.
- 2) Cut fin to normal height.
- 3) Fix building alarm.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

- 1) Monitor valve & blower balance and open valve > 20% as necessary.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 VALLEY 3

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018		
ID	V-3		
SITE	VALLEY RUBBER DAM #3		
LOCATION	NEAR I 605 & VALLEY BLVD		
R/D LENGTH	~450 FT		
R/D HEIGHT	8.0 FT	Installed 2003	
R/D SIDE SLOPES	1/0.5 H		
RUBBER DAM THICKNESS	~1.5 IN		
FIN DIMENSIONS	~5 IN / ~11 IN		
FIN CURL (IN)	~1 IN (2010 ~1 IN)		
VOLTAGE	480 VAC		
BLOWER	ROTRON DRP15BQ72C	Serial#	
VALVE	RCS Sure 49		
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI
UPS	APC SMART UPS 1500 VA		
BYPASS GATE	LIMITORQUE		

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	Gate sticks at 48% open
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3                      INFLATED RUBBER DAM UPSTREAM VIEW (2017)



PHOTO 4                      INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 5 INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



PHOTO 7                      INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT (2017)



PHOTO 8                      INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



PHOTO 9

CONTROL PANEL EXTERIOR VIEW (2017)



PHOTO 10

CONTROL PANEL INTERIOR VIEW (2017)

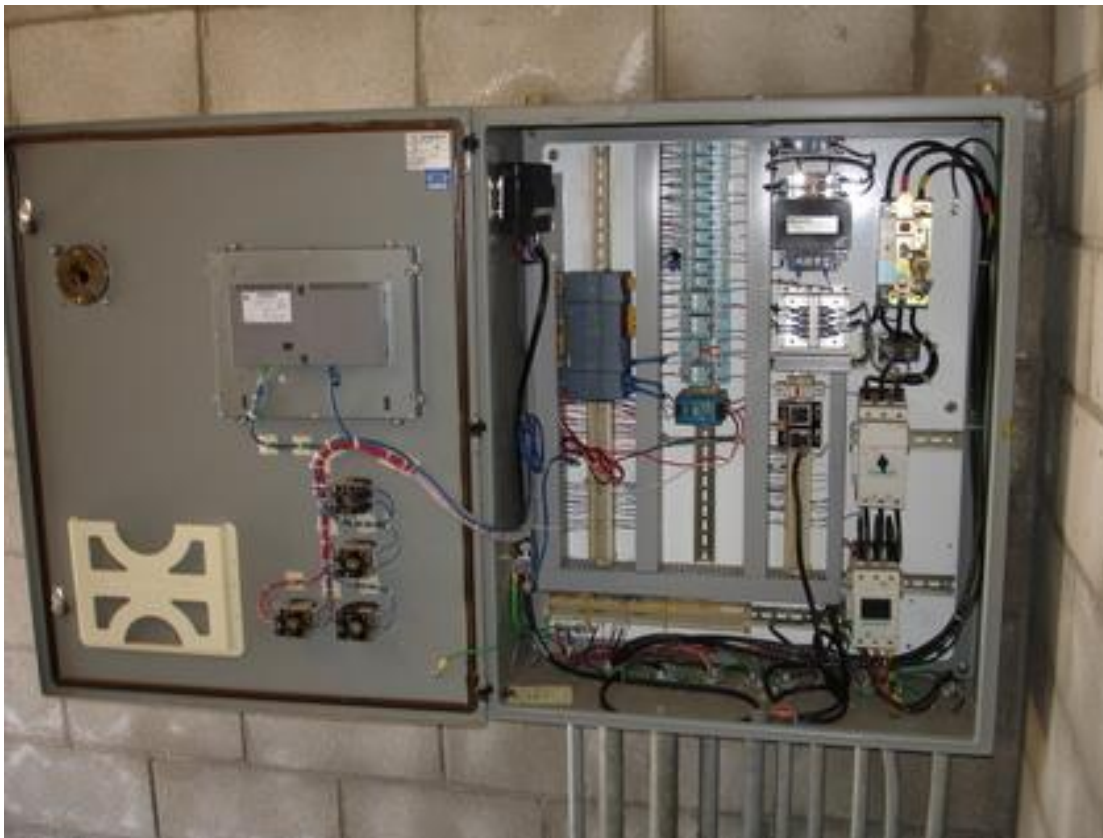


PHOTO 11

ANTENNA MAST



PHOTO 12

ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

5) SAN GABRIEL RIVER @ BEVERLY BLVD. #1: TG676-J3

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	San Gabriel #1 @ Beverly Blvd.	No. TG676-J3	SG-1_FINAL_R0
Size	5.5' H x 200' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	1999		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

## (1) INSPECTION RESULT

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - Found damaged areas requiring 6 Class A repairs.

Mechanical Equipment - No significant damage observed

Electrical Equipment - No significant damage observed, UPS needs replacement.

Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily. Remote connection through Flint Peak Repeater is satisfactory.

## (2) CONTROL EQUIPMENT AND OPERATING CONDITIONS

### CONTROL EQUIPMENT

System 6X

### OPERATING CONDITIONS

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

## (3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES

### GENERAL COMMENTS

Refer to Executive Summary and Introduction.

### SITE SPECIFIC COMMENTS

- 1) UPS needs replacement.
- 2) Antenna mounted on light pole is too low and causes network problems.

### CRITICAL MAINTENANCE PRIORITIES

- 1) Make 6 Class A repairs.
- 2) Replace UPS and tie in to PLC Programming & Alarms.
- 3) Move radio antenna up 10-15 ft to top of pole.

### ITEMS FOR FURTHER INVESTIGATION AND MONITORING

- 1) Investigate the addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	'MAY 2016		
ID	SG-1		
SITE	SAN GABRIEL RUBBER DAM #1		
LOCATION	NEAR I 605 & BEVERLY BLVD		
R/D LENGTH	200 FT		
R/D HEIGHT	5.5 FT		
R/D SIDE SLOPES	1/0.5 H		
RUBBER DAM THICKNESS	1.25 IN		
FIN DIMENSIONS	4 IN / 8 IN		
FIN CURL (IN)	~5 IN LEFT , ~8 IN RIGHT (2010 ~ 4 IN LEFT & RIGHT)		
VOLTAGE	230 VAC		
BLOWER VALVE	FUJI VFC904A-7W RCS SURE 49	Serial No.	60257373
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI
UPS	APC 1500 VA		
BYPASS GATE	Not installed		

## RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

## OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3

INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 4

INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 5 INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



PHOTO 7

INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 8

INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



PHOTO 9 CONTROL PANEL EXTERIOR VIEW



PHOTO 10 CONTROL PANEL INTERIOR VIEW



PHOTO 11

ANTENNA MAST



PHOTO 12

ANTENNA DETAIL



PHOTO 13 RADIO EQUIPMENT



PHOTO 14 RADIO EQUIPMENT DETAIL



PHOTO 15

CLASS A REPAIR TYPICAL



PHOTO 16

CLASS A REPAIR TYPICAL



## RUBBER DAM INSPECTION REPORT

**6) SAN GABRIEL RIVER @ WHITTIER BLVD. #2: TG676-H4**

## RUBBER DAM INSPECTION REPORT

Project Name	San Gabriel # 2 @ Whittier Blvd	No. TG 676-H4	SG-2_FINAL_RO
Size	7.66' H x 200' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	1999		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage noted.

Mechanical Equipment - Motor Valve failed (replaced June 2018).

Electrical Equipment - No significant damage observed, UPS needs replacement.

Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily. Remote connection through Flint Peak Repeater is satisfactory.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

- 1) No change noted to cover rubber separation at fin area.
- 2) UPS needs replacement.
- 3) Motor valve needed replacement & was replaced June 2018.
- 4) Antenna mounted at 10' above building roof is too low and causes network problems.

**CRITICAL MAINTENANCE PRIORITIES**

- 1) Develop method for monitoring of separation at lower edge of fin.
- 2) Replace UPS and tie in to PLC Programming & Alarms.
- 3) Move radio antenna to top of pole at right abutment.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

- 1) Monitor unbalance in blower amp use between 3 phases
- 2) Investigate the addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## RUBBER DAM GENERAL INFORMATION

INSPECTION DATE May 2018  
ID SG-2  
SITE SAN GABRIEL RUBBER DAM #2  
LOCATION NEAR I 605 & WHITTIER BLVD

R/D LENGTH 200 FT  
R/D HEIGHT 7.66 FT  
R/D SIDE SLOPES 1/0.5 H  
RUBBER DAM THICKNESS 1.375 IN

FIN DIMENSIONS 3 IN / 5 IN  
FIN CURL (IN) ~10 IN (2010 ~8 IN)

VOLTAGE 480 VAC

BLOWER FUJI VFC904A-7W Serial No.  
VALVE RCS SURE 49

PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI

UPS APC 1500 VA

BYPASS GATE Not installed

## RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

## OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1 INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2 INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3 INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 4 INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



PHOTO 5                      INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT DETAIL



PHOTO 6                      INFLATED RUBBER TOP VIEW LEFT ABUTMENT



PHOTO 7

DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 8

DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 9 CONTROL PANEL EXTERIOR VIEW



PHOTO 10 CONTROL PANEL INTERIOR VIEW



PHOTO 11

ANTENNA MAST



PHOTO 12

ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

7) SAN GABRIEL RIVER @ WASHINGTON BLVD. #3: 676-G7

Project Name	San Gabriel # 3 @ Washington Blvd	No. 676-G7	SG-3_FINAL_RO
Size	6.0' H x 200' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Replaced 1998		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage was observed

Mechanical Equipment - No significant damage was observed

Electrical Equipment - No significant damage was observed, UPS needs replacement.

Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily. Remote connection through Flint Peak Repeater is satisfactory.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

- 1) Cover missing on transmitter cable conduit fitting at top of right abutment.
- 2) UPS needs replacement.

**CRITICAL MAINTENANCE PRIORITIES**

- 1) Replace cover on transmitter cable conduit fitting at top of right abutment.
- 2) Replace UPS and tie in to PLC Programming & Alarms.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

- 1) Investigate addition of PRV to protect against over pressure and addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.
- 2) Monitor debris buildup at upstream left abutment

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 SAN GABRIEL 3

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018			
ID	SG-3			
SITE	SAN GABRIEL RUBBER DAM #3			
LOCATION	NEAR I 605 & WASHINGTON BLVD			
R/D LENGTH	200 FT			
R/D HEIGHT	6.0 FT			
R/D SIDE SLOPES	1/0.5 H			
RUBBER DAM THICKNESS	1.125 IN			
FIN DIMENSIONS	2.5 IN / 4 IN			
FIN CURL (IN)	~8 IN (2010 ~7 IN)			
VOLTAGE	240 VAC			
BLOWER VALVE	FUJI VFC903A-7W JAMESBURY	Serial No.	46957879Y 14	
PRESSURE TRANSMITTER		DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER		DRUCK	PTX 1830	0-5 PSI
UPS	APC 1500 VA			
BYPASS GATE	Not installed			

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal / Bridgestone paint test site

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3 INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 4 INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 5 INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



PHOTO 7 INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 8 INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



PHOTO 9 CONTROL PANEL EXTERIOR VIEW



PHOTO 10 CONTROL PANEL INTERIOR VIEW



PHOTO 11 RADIO EQUIPMENT



PHOTO 12 RADIO EQUIPMENT DETAIL



PHOTO 13

ANTENNA MAST



PHOTO 14

ANTENNA DETAIL



PHOTO 15

NO PHOTO

PHOTO 16

NO PHOTO

## RUBBER DAM INSPECTION REPORT

8) SAN GABRIEL RIVER @ SLAUSON AVE. #4: 706-G1

Project Name	San Gabriel # 4 @ Slauson Ave.	No. 706-G1	SG-4_FINAL_RO
Size	7.66' H x 200' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Replaced after March 2004		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:  
 Rubber Body - Rubber Dam replaced in Fall 2017. New dam shows surface cracks.  
 Mechanical Equipment - No significant damage observed  
 Electrical Equipment - No significant damage observed  
 Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily. Remote connection through Flint Peak Repeater is satisfactory.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

1) Surface cracking downstream needs repair.

**CRITICAL MAINTENANCE PRIORITIES**

1) Repair surface cracking.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

1) Investigate addition of PRV to protect against over pressure and addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 SAN GABRIEL 4

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018			
ID	SG-4			
SITE	SAN GABRIEL RUBBER DAM #4			
LOCATION	NEAR I 605 & SLAUSON AVE			
R/D LENGTH	200 FT			
R/D HEIGHT	7.66 FT	Replaced 6.0 ft Rubber Dam		
R/D SIDE SLOPES	1/0.5 H			
RUBBER DAM THICKNESS	1.25 IN			
FIN DIMENSIONS	~4 IN / ~6 IN			
FIN CURL (IN)	~5 IN (2010 1.5 IN)			
VOLTAGE	240 VAC			
BLOWER VALVE	FUJI VFC903A-7W JAMESBURY	Serial No.	77157273V 08	
PRESSURE TRANSMITTER		DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER		DRUCK	PTX 1830	0-5 PSI
UPS	APC 1500 VA			
BYPASS GATE	Not installed			

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Moderate
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3

INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 4

INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 5 RIGHT ABUTMENT UNDER FIN



PHOTO 6 RIGHT ABUTMENT ON TOP



PHOTO 7 LEFT ABUTMENT UNDER FIN



PHOTO 8 LEFT ABUTMENT ON TOP



PHOTO 9 CONTROL PANEL EXTERIOR VIEW



PHOTO 10 CONTROL PANEL INTERIOR VIEW



PHOTO 11 RADIO EQUIPMENT



PHOTO 12 RADIO EQUIPMENT DETAIL



PHOTO 13

RADIO ANTENNA



PHOTO 14

ANTENNA DETAIL



PHOTO 15

DOWNSTREAM CRACKING



PHOTO 16

DOWNSTREAM CRACKING



## RUBBER DAM INSPECTION REPORT

### 9) SAN GABRIEL RIVER NEAR TELEGRAPH AVE. #5: 676-F3

Project Name	San Gabriel # 5 @ Telegraph Rd.	No. 675-F3	SG-5_FINAL_RO
Size	6.0' H x 200' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Replaced 1999		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:  
 Rubber Body - 3 ft x 3 ft fire damage at left abutment. Bolt missing at right abutment.  
 Mechanical Equipment - No significant damage observed  
 Electrical Equipment - UPS needs replacement.  
 Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily. Remote connection through Flint Peak Repeater is satisfactory.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

1) Rubber dam needs replacement.

**CRITICAL MAINTENANCE PRIORITIES**

- 1) Replace Rubber Dam.
- 2) Replace UPS.
- 3) Replace bolt at right abutment.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

- 1) Investigate addition of PRV to protect against over pressure and addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 SAN GABRIEL 5

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018			
ID	SG-5			
SITE	SAN GABRIEL RUBBER DAM #5			
LOCATION	NEAR I 605 & TELEGRAPH RD			
R/D LENGTH	200 FT			
R/D HEIGHT	6.0 FT	Replaced 1999		
R/D SIDE SLOPES	1/0.5 H			
RUBBER DAM THICKNESS	1.375 IN			
FIN DIMENSIONS	~4 IN / ~9 IN			
FIN CURL (IN)	10 IN (2010 ~5 IN)			
VOLTAGE	240 VAC			
BLOWER VALVE	FUJI VFC903A-7W JAMESBURY	Serial No.	40957273 Y 05	
PRESSURE TRANSMITTER		DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER		DRUCK	PTX 1830	0-5 PSI
UPS	APC 1500 VA			
BYPASS GATE	Not installed			

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	Bolts, washers and nuts missing
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Moderate
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1 INFLATED RUBBER DAM UPSTREAM VIEW (2017)



PHOTO 2 INFLATED RUBBER DAM DOWNSTREAM VIEW (2017)



RUBBER DAM INSPECTION REPORT

LADPW M1 SAN GABRIEL 5 PHOTOS (CONT.)

Exhibit J Cont

PHOTO 3                      INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT

Rubber Dam could not be inflated.

PHOTO 4                      INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT

Rubber Dam could not be inflated.

PHOTO 5                      INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT

Rubber Dam could not be inflated.

PHOTO 6                      INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT

Rubber Dam could not be inflated.

PHOTO 7 CONTROL PANEL EXTERIOR VIEW



PHOTO 8 CONTROL PANEL INTERIOR VIEW



PHOTO 9 LEFT ABUTMENT BURNED AREA



PHOTO 10 LEFT ABUTMENT BURNED AREA



PHOTO 11 MISSING BOLT RIGHT AUTMENT



PHOTO 12 MISSING BOLT RIGHT AUTMENT DETAIL



## RUBBER DAM INSPECTION REPORT

10) SAN GABRIEL RIVER@ GOLDEN STATE FWY (I-5). #6: 706-F4

Project Name	San Gabriel # 6 @ Florence Ave.	No. 706-F4	SG-6_FINAL_RO
Size	6.0' H x 200' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Replaced 1999		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:  
 Rubber Body - No significant damage observed  
 Mechanical Equipment - No significant damage observed  
 Electrical Equipment - No significant damage observed, UPS needs replacement.  
 Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

1) UPS needs replacement.

**CRITICAL MAINTENANCE PRIORITIES**

1) Replace UPS and tie in to PLC Programming & Alarms.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

1) Investigate addition of PRV to protect against over pressure and addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 SAN GABRIEL 6

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018
ID	SG-6
SITE	SAN GABRIEL RUBBER DAM #6
LOCATION	NEAR I 605 & FLORENCE AVE

R/D LENGTH	200 FT	
R/D HEIGHT	6.0 FT	Replaced 1999
R/D SIDE SLOPES	1/0.5 H	
RUBBER DAM THICKNESS	1.25 IN	

FIN DIMENSIONS	~2.5 IN / ~7 IN
FIN CURL (IN)	~10 IN (2010 ~5 IN)

VOLTAGE	240 VAC
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BLOWER	FUJI VFC903A-7W	Serial No.
VALVE	JAMESBURY	

PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI

UPS	APC 1500 VA
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BYPASS GATE	Not installed
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### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Severe
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1                      DEFLATED DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED DAM DOWNSTREAM VIEW



PHOTO 3 INFLATED DAM UPSTREAM VIEW



PHOTO 4 INFLATED DAM DOWNSTREAM VIEW



PHOTO 5 INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



PHOTO 7 INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 8 INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



PHOTO 9 CONTROL PANEL EXTERIOR VIEW (2017)



PHOTO 10 CONTROL PANEL INTERIOR VIEW (2017)



PHOTO 11

ANTENNA MAST



PHOTO 12

ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

1 1) SAN GABRIEL RIVER@ FIRESTONE BLVD. #7: 706-D6

Project Name	San Gabriel # 7 @ Firestone Blvd.	No. 706-D6	SG-7_FINAL_RO
Size	6.0' H x 200' L x 1 V to 0.5 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Replaced 1998		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:  
 Rubber Body - Separation at seam found downstream.  
 Mechanical Equipment - No significant damage observed  
 Electrical Equipment - No significant damage observed, UPS needs replacement.  
 Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily. Remote connection through Flint Peak Repeater is satisfactory.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

System 6X

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

1) UPS needs replacement.

**CRITICAL MAINTENANCE PRIORITIES**

- 1) Replace UPS and tie in to PLC Programming & Alarms.
- 2) Rubber dam needs two Class A repairs at seam downstream.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

- 1) Investigate addition of PRV to protect against over pressure and addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.
- 2) Sediment buildup at clamping line should be removed to prevent sharp debris from damaging rubber body
- 3) Monitor upper surface of fin for any progression of separation.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 SAN GABRIEL 7

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018			
ID	SG-7			
SITE	SAN GABRIEL RUBBER DAM #7			
LOCATION	NEAR I 605 & FIRESTONE BLVD			
R/D LENGTH	200 FT			
R/D HEIGHT	6.0 FT	Replaced 1998		
R/D SIDE SLOPES	1/0.5 H			
RUBBER DAM THICKNESS	1.125 IN			
FIN DIMENSIONS	~2 IN / ~4 IN			
FIN CURL (IN)	~9 IN (2010 ~4 IN)			
VOLTAGE	240 VAC			
BLOWER	FUJI VFC903A-7W	Serial No.	71152273Y 09	
VALVE	JAMESBURY			
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI	
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI	

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Severe
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3

INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 4

INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 5

INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 6

INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



PHOTO 7 INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 8 INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



PHOTO 9 CONTROL PANEL EXTERIOR VIEW



PHOTO 10 CONTROL PANEL INTERIOR VIEW



PHOTO 11

SEAM SEPERATION DOWNSTREAM



PHOTO 12

SEAM SEPERATION DOWNSTREAM



## RUBBER DAM INSPECTION REPORT

### 12) LIVE OAK @ LIVE OAK SPREADING GROUNDS

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	Live Oak @ Live Oak SG	No. 676-C7	LIVE_OAK_FINAL_RO
Size	6.0' H x 25' L x 1 V to 0.0 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 2015		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

## (1) INSPECTION RESULT

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage observed

Mechanical Equipment - No significant damage observed

Electrical Equipment - No significant damage observed, no building alarm,

Radio, Antenna & Antenna Mast - No significant damage observed, radio not installed.

## (2) CONTROL EQUIPMENT AND OPERATING CONDITIONS

### CONTROL EQUIPMENT

System 6X

### OPERATING CONDITIONS

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

## (3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES

### GENERAL COMMENTS

Refer to Executive Summary and Introduction.

### SITE SPECIFIC COMMENTS

None

### CRITICAL MAINTENANCE PRIORITIES

- 1) Investigate Upstream Level Transmitter Out-of-Range alarm
- 2) Investigate Upstream Level Below Sensor Minimum alarm

### ITEMS FOR FURTHER INVESTIGATION AND MONITORING

- 1) Investigate installation of Telemetry Panel with Radio and connection to SCRDS network.

## RUBBER DAM INSPECTION REPORT

Exhibit J Cont

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018	
ID	DDI-23	
SITE	DDI-23 RUBBER DAM	
LOCATION	RIO HONDO SPREADING GROUNDS NEAR I 605 & WHITTIER	
R/D LENGTH	25 FT	
R/D HEIGHT	6.0 FT	Installed 1999
R/D SIDE SLOPES	1/0.0 H	
RUBBER DAM THICKNESS	~0.625 IN	
FIN DIMENSIONS	~2.5 IN / ~4 IN	
FIN CURL (IN)	~0 IN	
VOLTAGE	220 VAC 1 Phase	
BLOWER	FUJI VFC 504P 2T	Serial# #####
VALVE	RCS Sure 24	
PRESSURE TRANSMITTER	DRUCK	PTX 520 0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830 0-5 PSI
UPS	None installed	
BYPASS GATE	EIM CONTROLS	

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connectiouns	No power to building at time of inspection
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	Some rust developing
Bypass gates	No anomalies noted
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3

INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 4

INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 5

PLC PANEL



PHOTO 6

PLC PANEL INTERIOR



PHOTO 7

VALVE PANEL (2017)



PHOTO 8

VALVE PANEL INTERIOR (2017)



PHOTO 9

PRESSURE RELIEF PANEL



PHOTO 10

PRESSURE RELIEF PANEL INTERIOR



PHOTO 11

ANTENNA MAST



PHOTO 12

ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

### 13) CITRUS SPREADING GROUNDS: 599-B2

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	Citrus @ Citrus SG	No. 599-B2	CI_FINAL_RO
Size	6.0' H x 30' L x 1' V to 0.0' H	Inspection Date	May 2018
Owner	LADPW	Inspector	
Installation Date	Replaced after 3/2004		
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

## (1) INSPECTION RESULT

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:  
 Rubber Body - No significant damage observed.  
 Mechanical Equipment - No significant damage observed.  
 Electrical Equipment - No significant damage observed, UPS needs replacement.  
 Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily.

## (2) CONTROL EQUIPMENT AND OPERATING CONDITIONS

### CONTROL EQUIPMENT

System 6X

### OPERATING CONDITIONS

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

## (3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES

### GENERAL COMMENTS

Refer to Executive Summary and Introduction.

### SITE SPECIFIC COMMENTS

1) UPS needs replacement.

### CRITICAL MAINTENANCE PRIORITIES

1) Replace UPS and tie in to PLC Programming & Alarms.

### ITEMS FOR FURTHER INVESTIGATION AND MONITORING

1) Investigate addition of PRV to protect against over pressure and addition of a larger manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018		
ID	CI		
SITE	CITRUS RUBBER DAM		
LOCATION	CITRUS SPREADING GROUNDS NEAR WEST COVINA		
R/D LENGTH	30 FT		
R/D HEIGHT	6.0 FT	Replaced after 3/2004	
R/D SIDE SLOPES	1/0.0 H		
RUBBER DAM THICKNESS	~1.25 IN		
FIN DIMENSIONS	~2.5 IN / ~6 IN		
FIN CURL (IN)	~0 IN (2010 ~0 IN)		
VOLTAGE	480 VAC		
BLOWER	FUJI VFC 703A-7W	Serial#	411572717 23
VALVE	Jamesbury		
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI
UPS	APC 1500 VA		
BYPASS GATE	None installed		

## RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

## OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

LADPW M1 CITRUS PHOTOS

PHOTO 1 INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2 INFLATED RUBBER DAM DOWNSTREAM VIEW



LADPW M1 CITRUS PHOTOS (CONT.)

PHOTO 3

INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 4

INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



LADPW M1 CITRUS PHOTOS (CONT.)

PHOTO 5 INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



LADPW M1 CITRUS PHOTOS (CONT.)

PHOTO 7 CONTROL PANEL EXTERIOR VIEW



PHOTO 8 CONTROL PANEL INTERIOR VIEW



LADPW M1 CITRUS PHOTOS (CONT.)

PHOTO 9 RADIO EQUIPMENT



PHOTO 10 RADIO EQUIPMENT DETAIL



LADPW M1 CITRUS

PHOTO 10

ANTENNA MAST



PHOTO 12

ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

### 14) BEN LOMOND SPREADING GROUNDS: 599-C3

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	Ben Lomond @ Ben Lomond SG	No. 599-C3	BL_FINAL_RO
Size	6.0' H x 25' L x 1 V to 0.0 H	Inspection Date	May 2018
Owner	LADPW	Inspector	
Installation Date	Installed 1999		
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

## (1) INSPECTION RESULT

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage observed.

Mechanical Equipment - No significant damage observed.

Electrical Equipment - Water level transmitter failed.

Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily.

## (2) CONTROL EQUIPMENT AND OPERATING CONDITIONS

### CONTROL EQUIPMENT

System 6X

### OPERATING CONDITIONS

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

## (3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES

### GENERAL COMMENTS

Refer to Executive Summary and Introduction.

### SITE SPECIFIC COMMENTS

None

### CRITICAL MAINTENANCE PRIORITIES

1) Replace failed water level transmitter.

### ITEMS FOR FURTHER INVESTIGATION AND MONITORING

1) Addition of a manual valve and a fitting for a portable compressor air line.

LADPW M1 BEN LOMOND

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018	
ID	BL	
SITE	BEN LOMOND	
LOCATION	BEN LOMOND SPREADING GROUNDS NEAR WEST COVINA	
R/D LENGTH	25 FT	
R/D HEIGHT	6.0 FT	Installed 1999
R/D SIDE SLOPES	1/0.0 H	
RUBBER DAM THICKNESS	~1.25 IN	
FIN DIMENSIONS	~2.5 IN / ~6 IN	
FIN CURL (IN)	~0 IN (2010 ~ 0 IN)	
VOLTAGE	240 VAC	
BLOWER	FUJI VFC 804A-7W	Serial# 667272
VALVE	RCS Sure 24 (new 9/2009)	
PRESSURE TRANSMITTER	DRUCK	PTX 520 0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830 0-5 PSI
UPS	APC 1500 VA	
BYPASS GATE	None installed	

## RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

## OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	Operational 10 PSI installed should be 5 PSI
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

LADPW M1 BEN LOMOND PHOTOS

PHOTO 1 INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2 INFLATED RUBBER DAM DOWNSTREAM VIEW



LADPW M1 BEN LOMOND PHOTOS (CONT.)

PHOTO 3

INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 4

INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



LADPW M1 BEN LOMOND PHOTOS (CONT.)

PHOTO 5 INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT

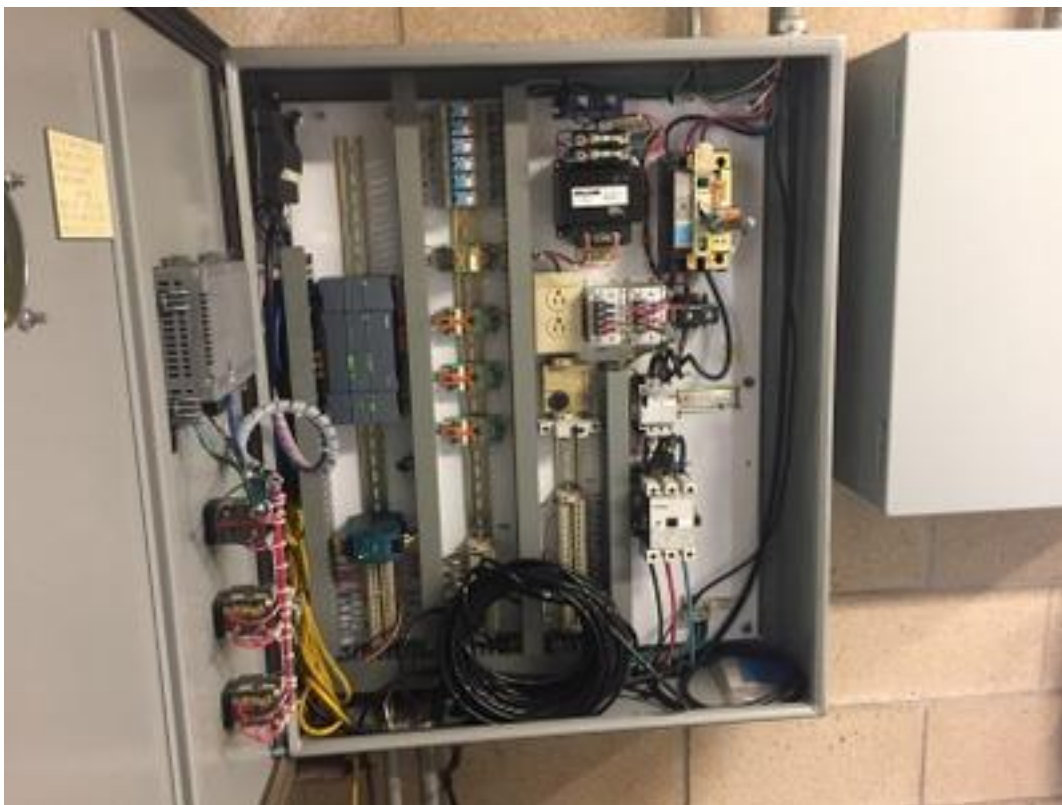


LADPW M1 BEN LOMOND PHOTOS (CONT.)

PHOTO 7 CONTROL PANEL EXTERIOR



PHOTO 8 CONTROL PANEL INTERIOR



LADPW M1 BEN LOMOND PHOTOS (CONT.)

PHOTO 9 RADIO EQUIPMENT



PHOTO 10 RADIO EQUIPMENT DETAIL



LADPW M1 BEN LOMOND

PHOTO 11

ANTENNA MAST



PHOTO 12

ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

### 15) FORBES SPREADING GROUNDS: 599-H1

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	Forbes @ Forbes SG	No. 599-H1	FORBES_FINAL_RO
Size	6.83' H x L x 1 V to 0.0 H	Inspection Date	May 2018
Owner	LADPW	Inspector	
Installation Date	Installed		
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

## (1) INSPECTION RESULT

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage observed

Mechanical Equipment - No significant damage observed.

Electrical Equipment - No significant damage observed, no building alarm.

Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily.

## (2) CONTROL EQUIPMENT AND OPERATING CONDITIONS

### CONTROL EQUIPMENT

System 6X

### OPERATING CONDITIONS

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

## (3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES

### GENERAL COMMENTS

Refer to Executive Summary and Introduction.

### SITE SPECIFIC COMMENTS

None.

### CRITICAL MAINTENANCE PRIORITIES

None.

### ITEMS FOR FURTHER INVESTIGATION AND MONITORING

- 1) Investigate addition of a manual valve and a fitting for a portable compressor air line. to allow for Rubber Dam inflation on loss of site power.
- 2) Investigate addition of building alarm.

LADPW M1 FORBESRUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018
ID	FORBES
SITE	FORBES RUBBER DAM
LOCATION	FORBES SPREADING GROUND NEAR I 210

R/D LENGTH		
R/D HEIGHT	6.83 FT	Installed
R/D SIDE SLOPES	1/0.0 H	
RUBBER DAM THICKNESS	~0.75 IN	

FIN DIMENSIONS	~2.5 IN / ~4 IN
FIN CURL (IN)	~0 IN (2010 ~0 IN)

VOLTAGE	220 VAC 1 PHASE
---------	-----------------

BLOWER	ROTRON DR513R58	Serial#
VALVE	RCS SURE 24	

PRESSURE TRANSMITTER	DRUCK	PTX 52C0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830-5 PSI

UPS	None installed
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BYPASS GATE	None installed
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RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	Stuck open - needs repair
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

LADPW M1 FORBES PHOTOS

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



LADPW M1 FORBES PHOTOS (CONT.)

PHOTO 3                      INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 4                      INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



LADPW M1 FORBES PHOTOS (CONT.)

PHOTO 5 INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



LADPW M1 FORBES PHOTOS (CONT.)

PHOTO 7 CONTROL PANEL EXTERIOR VIEW



PHOTO 8 CONTROL PANEL INTERIOR VIEW



LADPW M1 FORBES PHOTOS (CONT.)

PHOTO 9 RADIO EQUIPMENT

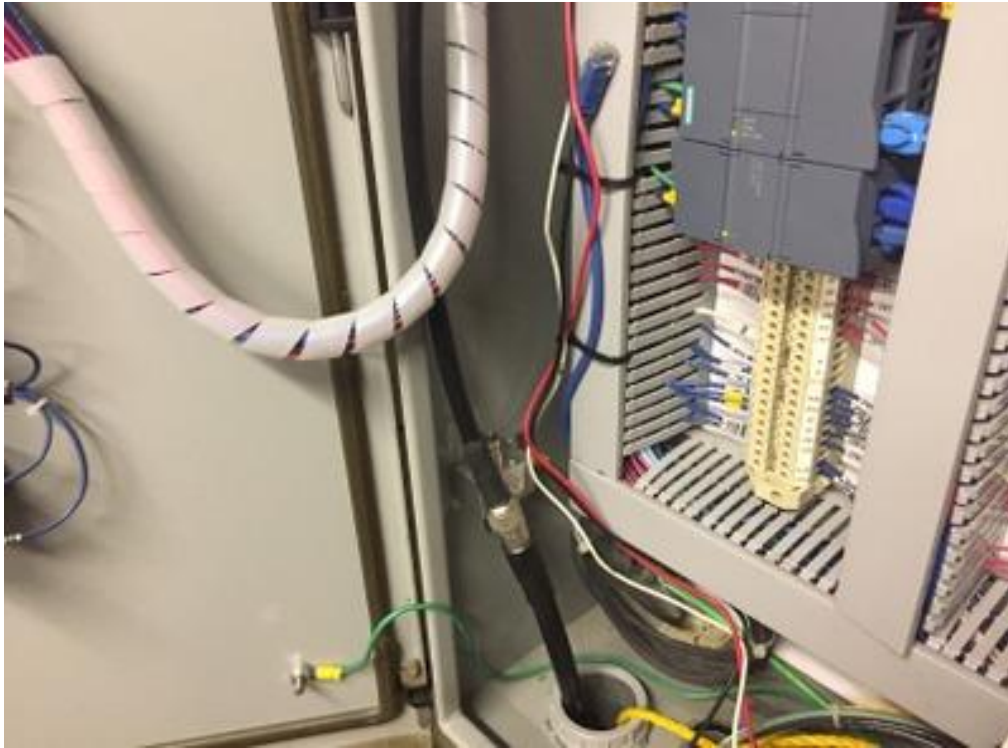


PHOTO 10 RADIO EQUIPMENT DETAIL

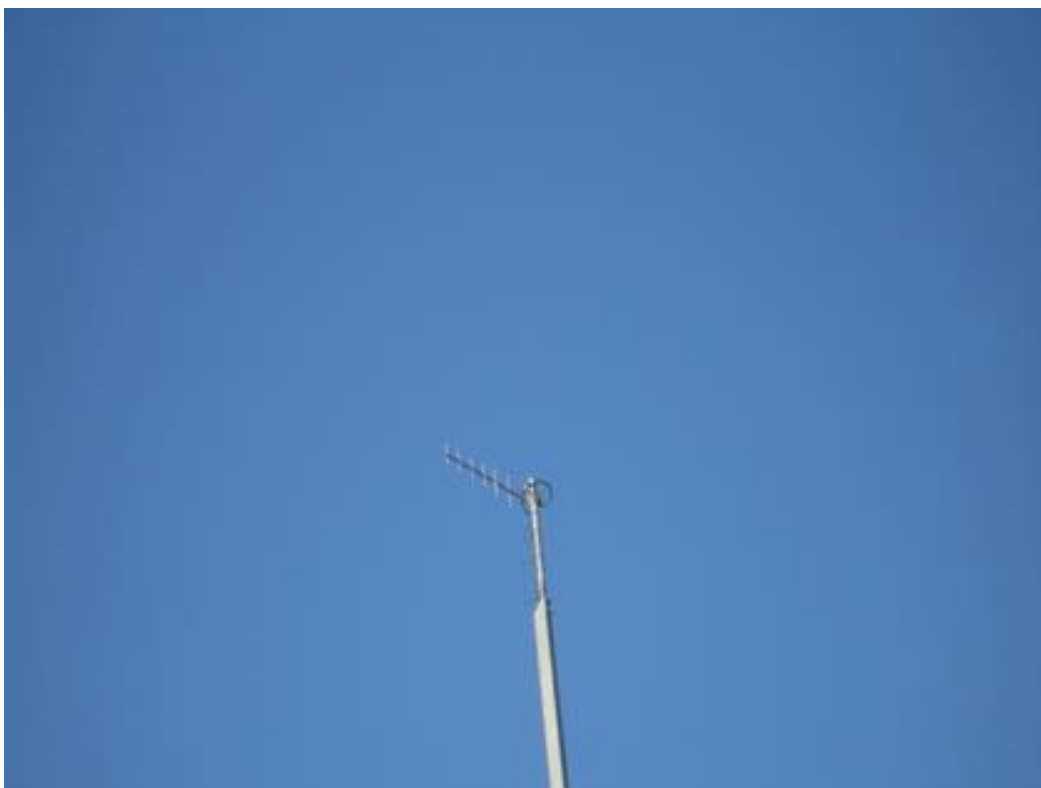


LADPW M1 FORBES PHOTOS (CONT.)

PHOTO 11          ANTENNA MAST



PHOTO 12          ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

### 16) WALNUT CREEK SPREADING GROUNDS: 599-D7

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	Walnut Creek @ WC SG	No. 599-D7	WC_FINAL_RO
Size	2.5' H x 25' L x 1' V to 0.0 H	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 1999		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

## (1) INSPECTION RESULT

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:  
 Rubber Body - No significant damage observed.  
 Mechanical Equipment - No significant damage observed  
 Electrical Equipment - No significant damage observed, no building alarm installed.  
 Radio, Antenna & Antenna Mast - No significant damage observed

Locally the system is functioning satisfactorily.

## (2) CONTROL EQUIPMENT AND OPERATING CONDITIONS

### CONTROL EQUIPMENT

System 6X

### OPERATING CONDITIONS

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

## (3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES

### GENERAL COMMENTS

Refer to Executive Summary and Introduction.

### SITE SPECIFIC COMMENTS

None

### CRITICAL MAINTENANCE PRIORITIES

None

### ITEMS FOR FURTHER INVESTIGATION AND MONITORING

- 1) Investigate addition of a manual valve and a fitting for a portable compressor air line to allow for Rubber Dam inflation on loss of site power.
- 2) Investigate addition of a building alarm.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LADPW M1 WALNUT CREEK RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	'May 2016		
ID	WALNUT CREEK		
SITE	WALNUT CREEK RUBBER DAM		
LOCATION	WALNUT CREEK SPREADING GROUNDS NEAR I 10		
R/D LENGTH	25 FT		
R/D HEIGHT	2.5 FT	Installed 1999	
R/D SIDE SLOPES	1/0.0 H		
RUBBER DAM THICKNESS	~0.75 IN		
FIN DIMENSIONS	~2.5 IN / ~4 IN		
FIN CURL (IN)	~0 IN (2010 ~0 IN)		
VOLTAGE	220 VAC 1 PHASE		
BLOWER	FUJI VFC 309P-5T	Serial#	
VALVE	RCS SURE 24		
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-5 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI
UPS	None installed		
BYPASS GATE	None installed		

## RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Water Level Mode	No anomalies noted

## OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Graffiti	Minimal
Radio, antenna & antenna mast	No anomalies noted

PHOTO 1 INFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2 INFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3                      DEFLATED RUBBER DAM UPSTREAM VIEW (2017)



PHOTO 4                      DEFLATED RUBBER DAM DOWNSTREAM VIEW (2017)



PHOTO 5 INFLATED RUBBER DAM UNDER FIN RIGHT ABUTMENT



PHOTO 6 INFLATED RUBBER DAM TOP VIEW RIGHT ABUTMENT



PHOTO 7

INFLATED RUBBER DAM UNDER FIN LEFT ABUTMENT



PHOTO 8

INFLATED RUBBER DAM TOP VIEW LEFT ABUTMENT



PHOTO 9 CONTROL PANEL



PHOTO 10 CONTROL PANEL DETAIL

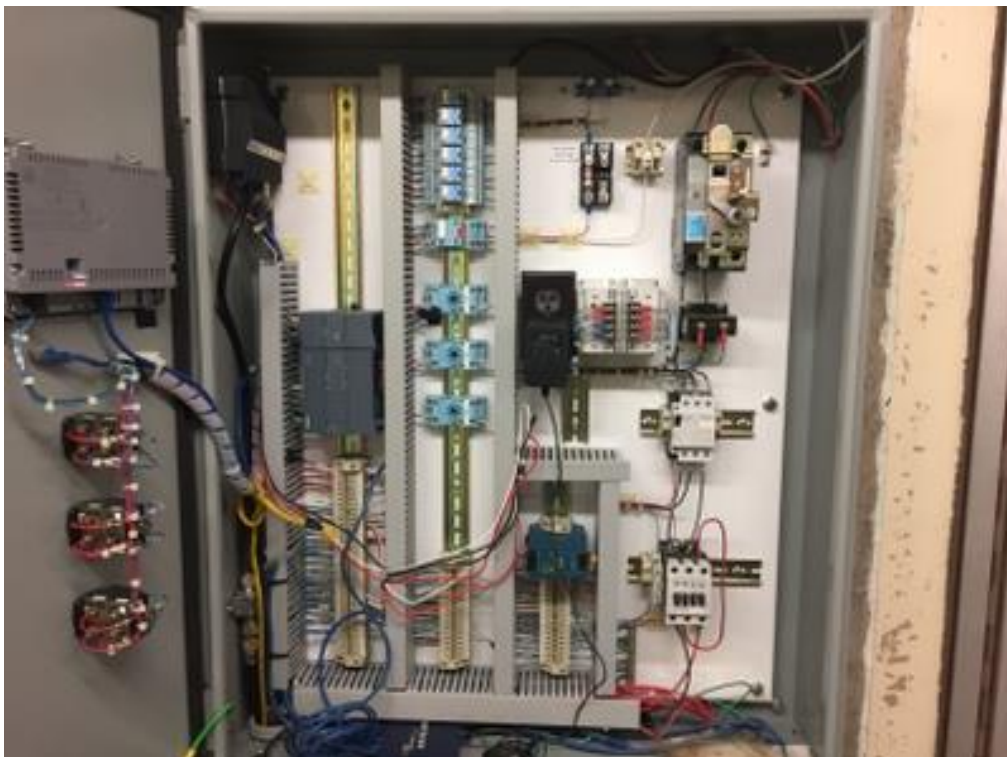


PHOTO 11

ANTENNA MAST



PHOTO 12

ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

### 17) HANSEN SPREADING GROUNDS:

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	Hansen @ Hansen Spreading Grounds	No. TG	HANSEN FINAL R
Size	~ 7' H x ~60' L x VERTICAL WALLS	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 2012		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

## (1) INSPECTION RESULT

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage was observed.

Mechanical Equipment - Compressor failed.

Electrical Equipment - Touchscreen shows inclinometer fault.

Radio, Antenna & Antenna Mast - None installed

Locally the system is functioning satisfactorily. Remote communications to LACDPW HQ by T1 line

## (2) CONTROL EQUIPMENT AND OPERATING CONDITIONS

### CONTROL EQUIPMENT

Obermeyer level and flow control system.

### OPERATING CONDITIONS

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

## (3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES

### GENERAL COMMENTS

Refer to Executive Summary and Introduction

### SITE SPECIFIC COMMENTS

- 1) Water level sensor is set at 1.85 ft above channel invert preventing flow calculations below that level.
- 2) Touchscreen shows inclinometer fault.

### CRITICAL MAINTENANCE PRIORITIES

- 1) Repair or replace compressor.
- 2) Move water level sensor down stilling well intake pipe to base of channel wall at 0 -0.5 ft above invert of channel.
- 3) Recalibrate or replace inclinometer.

### ITEMS FOR FURTHER INVESTIGATION AND MONITORING

None.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

LACDPW M1 HANSEN

## RUBBER DAM GENERAL INFORMATION

INSPECTION DATE	May 2018		
ID	HANSEN		
SITE	HANSEN SPREADING GROUNDS		
LOCATION	NEAR HANSEN DAM		
R/D LENGTH	~60 FT		
R/D HEIGHT	~7 FT	Installed 2012	
R/D SIDE SLOPES	VERTICAL		
RUBBER DAM THICKNESS	~ 0.45 IN		
FIN DIMENSIONS	N/A		
FIN CURL (IN)	N//A		
VOLTAGE	480 VAC		
BLOWER	INGERSOL RAND COM Serial No.		
VALVE	SOLENOID TYPE		
PRESSURE TRANSMITTER	DRUCK	PTX 520	0-50 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI
UPS	SOLA		
BYPASS GATE	N/A		

## RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Flow Mode	No anomalies noted

## OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	Base @ 1.85 ft above channel invert
Pressure sensor	No anomalies noted
Pressure Regulating valve	No anomalies noted
Radio, antenna & antenna mast	None installed. T1 communications to LACDPW HQ OK.

PHOTO 1

DEFLATED RUBBER DAM UPSTREAM VIEW (2016)



PHOTO 2

DEFLATED RUBBER DAM DOWNSTREAM VIEW (2016)



PHOTO 3

INFLATED RUBBER DAM UPSTREAM VIEW (2017)



PHOTO 4

INFLATED RUBBER DAM DOWNSTREAM VIEW (2017)



PHOTO 5

PLC CONTROL PANEL EXTERIOR VIEW



PHOTO 6

PLC CONTROL PANEL INTERIOR VIEW



PHOTO 7

PRESSURE REGULATION CONTROL PANEL EXTERIOR VIEW



PHOTO 8

PRESSURE REGULATION CONTROL PANEL INTERIOR VIEW



PHOTO 9

OVERPRESSURE RELIEF CONTROL PANEL EXTERIOR VIEW



PHOTO 10

OVERPRESSURE RELIEF CONTROL PANEL INTERIOR VIEW



PHOTO 9

PRESSURE REGULATING VALVE DETAIL



PHOTO 10

INGERSOLL RAND COMPRESSOR



## RUBBER DAM INSPECTION REPORT

### 18) ROSE HILLS REPEATER:

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	LACDPW Rose Hills Repeater		RHR FINAL RO
Size	NA	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 2008		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Repeater site for Rubber Dam Telemetry Network		

## (1) TELEMTRY INSPECTION RESULT

- 1) Overall condition of telemetry equipment at site:  
 Radio - No problems noted.  
 Antennas - No problems noted.  
 Antenna mast - No problems noted.  
 Cabling - No problems noted.

## 2) Control Equipment System 6X

## 3) Operating conditions

This repeater site operates year-round

## GENERAL COMMENTS

Refer to Executive Summary and Introduction.

## SITE SPECIFIC COMMENTS

- 1) This site is being maintained as a backup site for use with sites that do not have a clear path to the Flint Peak Repeater Site

## CRITICAL MAINTENANCE PRIORITIES

None

## ITEMS FOR FURTHER INVESTIGATION AND MONITORING

None

LADPW M2 ROSE HILLS REPEATER PHOTOS

PHOTO 1 CONTROL CABINET EXTERIOR



PHOTO 2 CONTROL CABINET INTERIOR



LADPW M2 ROSE HILLS REPEATER PHOTOS (CONT.)

PHOTO 3                      ANTENNA MAST



PHOTO 4                      ANTENNA DETAIL



## RUBBER DAM INSPECTION REPORT

### 19) RIO HONDO HEADWORKS REPEATER:

## RUBBER DAM INSPECTION REPORT

Exhibit J Cont

Project Name	LACDPW Rio Hondo Headworks Repeater		RHHR FINAL RO
Size	NA	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 2008		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Repeater site for Rubber Dam Telemetry Network		

**(1) TELEMETRY INSPECTION RESULT**

1) Overall condition of telemetry equipment at site:

Radio - None installed

PLC - None installed

Antenna - 450 MHz 10 Db Omni.

Antenna mast - No problems noted

Cabling - No problems noted

**2) Control Equipment    System 6X**

3) Operating conditions

This control/repeater site operates year-round.

**GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

1) This site is being maintained as a backup site for use with sites that do not have a clear path to the Flint Peak Repeater Site

**CRITICAL MAINTENANCE PRIORITIES**

None

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

None

PHOTO 1            ANTENNA MAST



PHOTO 2            ANTENNA DETAIL



PHOTO 3 RADIO EQUIPMENT CABINET



PHOTO 4 RADIO EQUIPMENT CABINET



## RUBBER DAM INSPECTION REPORT

### 20) LACDPW HEADQUARTERS REPEATER:

Project Name	LACDPW Headquarters Repeater Station		HQ_FINAL_RO
Size	NA	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 2008		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Repeater Station for Rubber Dam Telemetry Network		

**(1) TELEMETRY INSPECTION RESULT****1) Overall condition of telemetry equipment at site:**

Radio - No problems noted.

Antennas - To be upgraded to 405-415 MHz Omni in 2017-18.

Antenna mast - No problems noted with either mast.

Cabling - No problems noted.

**2) Control Equipment      System 6X****3) Operating conditions**

This base station site operates year-round.

**GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

1) This site is being maintained as a backup site for use with sites that do not have a clear path to The Fint Peak Repeater Site

**CRITICAL MAINTENANCE PRIORITIES**

None

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

None

PHOTO 1 COMMUNICATIONS EQUIPMENT IN 12TH FLOOR PENTHOUSE



PHOTO 2 RADIO DETAIL



PHOTO 3 ANTENNA MAST



PHOTO 4 ANTENNA MAST DETAIL



## RUBBER DAM INSPECTION REPORT

### 21) FLINT PEAK REPEATER:

Project Name	LACDPW Flint Peak Repeater Station		HQ_FINAL_RO
Size	NA	Inspection Date	May 2018
Owner	LADPW	Inspector	J. Parent
Installation Date	Installed 2014		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Base Station for Rubber Dam Telemetry Network		

**(1) TELEMETRY INSPECTION RESULT**

1) Overall condition of telemetry equipment at site:

Radio - No problems noted.

PLC - No problems noted.

Antenna - No problems noted.

Antenna mast - No problems noted

Cabling - No problems noted.

2) Control Equipment      System 6X

3) Operating conditions

This base station site operates year around.

**GENERAL COMMENTS**

Refer to Executive Summary and Introduction.

**SITE SPECIFIC COMMENTS**

1) This site is the primary repeater for the Rubber Dam Telemetry network.

**CRITICAL MAINTENANCE PRIORITIES**

None

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

None

PHOTO 1 COMMUNICATIONS EQUIPMENT



PHOTO 2 COMMUNICATIONS EQUIPMENT



PHOTO 3

COMMUNICATIONS EQUIPMENT



PHOTO 4

VIEW FROM FLINT PEAK REPEATER (2017)



## RUBBER DAM INSPECTION REPORT

### 22) EATON SPREADING GROUNDS:

## RUBBER DAM INSPECTION REPORT

Project Name	EATON	No. TG	EATON FINAL R0
Size	~ 3' H x ~4' L x VERTICAL WALLS	Inspection Date	May 2018
Owner	LACDPW	Inspector	J. Parent
Installation Date	Installed 2012		A Thousand Hills
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		

**(1) INSPECTION RESULT**

1) Overall condition of Rubber Dam, Mechanical and Electrical equipment at site:

Rubber Body - No significant damage was observed.

Mechanical Equipment - No significant damage was observed.

Electrical Equipment - Faults in UPS battery, pressure sensor, water level sensor. High temp alarm.

Radio, Antenna & Antenna Mast - None installed

Locally the system is functioning satisfactorily.

**(2) CONTROL EQUIPMENT AND OPERATING CONDITIONS****CONTROL EQUIPMENT**

Obermeyer level and flow control system.

**OPERATING CONDITIONS**

This Rubber Dam is inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dam is operated occasionally during the remainder of the year outside of the storm season.

**(3) COMMENTS AND DETAILS FOR MAINTENANCE PRIORITIES****GENERAL COMMENTS**

Refer to Executive Summary and Introduction

**SITE SPECIFIC COMMENTS**

1) UPS battery fault alarm noted.

**CRITICAL MAINTENANCE PRIORITIES**

- 1) Investigate UPS battery fault.
- 2) Investigate Pressure sensor fault.
- 3) Investigate water level sensor fault.
- 4) Investigate high temp alarm.

**ITEMS FOR FURTHER INVESTIGATION AND MONITORING**

None.

# RUBBER DAM INSPECTION REPORT

Exhibit J Cont

## LACDPW M3 EATON

### RUBBER DAM GENERAL INFORMATION

INSPECTION DATE May 2018  
ID EATON  
SITE EATON SPREADING GROUNDS  
LOCATION

R/D LENGTH ~4 FT  
R/D HEIGHT ~3 FT Installed 2012  
R/D SIDE SLOPES VERTICAL  
RUBBER DAM THICKNESS ~ 0.45 IN

FIN DIMENSIONS N/A  
FIN CURL (IN) N/A

VOLTAGE 480 VAC

BLOWER INGERSOL RAND COI Serial No.  
VALVE SOLENOID TYPE

PRESSURE TRANSMITTER	DRUCK	PTX 520	0-50 PSI
WATER LEVEL TRANSMITTER	DRUCK	PTX 1830	0-5 PSI

UPS SOLA

BYPASS GATE N/A

### RUBBER DAM CONTROL TESTING

Manual Mode	No anomalies noted
Air Pressure Mode	No anomalies noted
Flow Mode	No anomalies noted

### OTHER INSPECTION ITEMS

Building power connections	No anomalies noted
Sensor wiring	No anomalies noted
Existing lighting	No anomalies noted
Facility doors and locks	No anomalies noted
Manhole covers and floor hatches	No anomalies noted
Inflation, deflation and drain piping	No anomalies noted
Rubber Dam clamping bolts	No anomalies noted
Bypass gates	N/A
Mechanical Auto Deflation system	No anomalies noted
Deflation valve and actuator	No anomalies noted
Water level sensor	No anomalies noted
Pressure sensor	No anomalies noted
Pressure Regulating valve	No anomalies noted
Radio, antenna & antenna mast	None installed.

PHOTO 1                      DEFLATED RUBBER DAM UPSTREAM VIEW



PHOTO 2                      DEFLATED RUBBER DAM DOWNSTREAM VIEW



PHOTO 3                      INFLATED RUBBER DAM UPSTREAM VIEW (2017)



PHOTO 4                      INFLATED RUBBER DAM DOWNSTREAM VIEW (2017)



PHOTO 5

PLC CONTROL PANEL EXTERIOR VIEW



PHOTO 6

PLC CONTROL PANEL INTERIOR VIEW



PHOTO 7

HMI ALARMS



PHOTO 8

HIGH TEMP ALARM

