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**APPENDIX A2**

**Construction Inspection Report  
Granular Activated Carbon Vessels**

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**Construction Inspection Report  
for  
Newmark OU Remedial Action  
Newmark Groundwater Contamination Superfund Site  
North and South Plants  
Granular Activated Carbon Vessels**

**DRAFT**

**Prepared for:**

**Contract No. 68-W-98-225 / WA No. 015-RARA-09J5  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105**

**Prepared by:**

**URS Group, Inc.  
2520 Ventura Oaks Way, Suite 250  
Sacramento, California 95833**

**February 2002**

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Appendix A Concrete Test Results

## 1.0 INTRODUCTION

This report is a summary of field inspections performed during the fabrication and installation of the Newmark North and South Water Treatment Plants granular activated carbon (GAC) vessels.

The construction inspection was performed by URS Group, Inc. (URSG) for the United States Environmental Protection Agency (USEPA). URSG performed the inspection under contract number 68-W9-0054 and work assignment number 54-47-9NJ5.

### 1.1 JOB DESCRIPTION

The Newmark Groundwater Contamination Superfund Site, North and South Plants, consists of two granular activated carbon (GAC) water treatment plants. The plants remove organic contaminants from groundwater that is pumped to the plants through a system of pipelines. The North Plant treats water that is pumped from the source of contamination, and the South Plant treats water that is at the leading edge of the contaminated groundwater plume.

The North Plant is located at 1265 Reservoir Drive. It includes fourteen 20,000-pound GAC vessels, with a total design flow rate of 4,875 gallons per minute (gpm). The vessels operate as seven serial pairs in parallel.

The South Plant is located on Waterman Avenue, one block north of the Route 30 Freeway. It includes sixteen 20,000-pound GAC vessels, with a total design flow rate of 5,610 gpm. The vessels operate as eight serial pairs in parallel.

The scope of work included the fabrication and installation of all the GAC vessels at both the North and South Plants.

Northwestern Carbon, Inc. (Northwestern) was procured and contracted by URSG to complete the fabrication and installation of the GAC vessels.

## **2.0 CONSTRUCTION SUMMARY**

### **2.1 TASKS COMPLETED**

- The Notice to Proceed was dated June 27, 1997.

#### **September 1997**

- URSG visited the Northwestern Carbon fabrication facility in Red Bluff, CA to inspect interior and exterior coatings on a portion of the vessels on September 20.

#### **March 1998**

- Northwestern arrived at the North Plant and started setting vessels on March 16. This was completed on March 18.
- On March 19, Northwestern continued to assemble vessel fittings and pipes.
- On March 20, Northwestern finished bolting the vessels to the pads

#### **April 1998**

- Northwestern set the first 14 vessels at the North Plant on April 3.
- Northwestern completed setting the vessels setting on April 5.

#### **May 1998**

- The second set of 16 vessels were set at the South Plant on May 18.

#### **September 1998**

- Carbon was placed in the vessels during the week of September 14.

### **2.2 PROBLEMS ENCOUNTERED AND RESPECTIVE SOLUTIONS**

- Seismic calculations submitted by vessel manufacturers included inconsistent seismic values for the skid design. This was resolved by having each manufacturer perform recalculations with a consistent set of seismic values.

## **2.3 QUALITY ASSURANCE TEST SUMMARY**

### **2.3.1 Hydrostatic Testing**

The hydrostatic tests were performed according to The City of San Bernardino Municipal Water Department (SBMWD) Specification No. 1292, Section 6-1.1. During the plant start-up, several pipes started to leak due to under-tightened bolts in pipe joints. The bolts were tightened to eliminate the leaks. The vessel pipelines were retested and passed the hydrostatic test.

## **2.4 AGENCY INVOLVEMENT**

SBMWD was responsible for carbon vessel inspection and material approvals during the installation of the North and South Water Treatment Plants GAC vessels.

## **2.5 CHANGE ORDER SUMMARY**

One change order was issued to amend the dates of performance.

## **2.6 COMPACTION TEST RESULTS**

Compaction test results were not needed for this part of the work.

## **2.7 PUNCH LIST ITEMS**

A punch list was not issued during the performance of this contract.

## **2.8 CONCLUSION**

The scope of work associated with the construction of the North and South Water Treatment Plants GAC vessels was completed according to the plans and specifications. The vessels are currently operational.

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**Appendix A**  
**Construction Inspection Report**  
**North and South Plants**  
**Granular Activated Carbon Vessels**  
**Concrete Test Results**

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RECD MAY 21 1998



C.H.J.

INCORPORATED

P.O. Box 231 • 1355 E. Cooley Drive, Colton, CA 92324 • Phone (909) 824-7210

CONCRETE TEST CYLINDER DATA

IDENTIFICATION DATA

Project: ARCS - Newmark RA
Client: URS Grenier, Inc. - California
2710 Gateway Oaks, Suite 250 North
Sacramento, CA 95833
Contractor: Ralph Hernandez
Inspector: Frank Dubois

Job No. 97722-5
Report No. 15
Structure Vessel Pad
Location North Pad

MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock
Batch Plant Inspection No X Yes
Cement Content Sk/Cu-Yd 5.7
Compressive Strength Required: 7 Day

Mix No. CHJ-98040
Ticket No. 217040
Admixtures: WRDA-79
28 Day 3500

FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 69 F°
Slump: 4 inches Air Content: percent Size: 6x12
Date Received 5/11/98 Cylinder Markings Set 3
Date Cast 5/8/98 Cast by: Kevin Horn

SPECIMEN TEST DATA

Table with 5 columns: CYLINDER NO., DATE TESTED, AGE TESTED, TOTAL LOAD, COMPRESSIVE STRENGTH, P. S. I.
Rows include specimens 15A (86172), 15B (86173), and 15C (86174).

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

DISTRIBUTION:

URS Grenier, Inc. (3)
Fourth Street Rock (1)

DCN 03600 File 13.10.a1
Project No. 00470
CC:
PM PA/SCM SM File

CERTIFIED:

Handwritten signature of William J. Lin



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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: ARCS - Newmark RA Job No. 97722-5  
 Client: URS Grenier, Inc. - California Report No. 14  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 217037  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 66 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 2  
 Date Cast 5/8/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
14A (86168)	05/15/98	7 days	103,640	3670
14B (86169)	06/05/98	28 days		
14C (86170)	06/05/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

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 Fourth Street Rock (1)

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: ARCS - Newmark RA Job No. 97722-5  
 Client: URS Grenier, Inc. - California Report No. 13  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 217030  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 67 F°  
 Slump: 4 3/4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 1  
 Date Cast 5/8/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

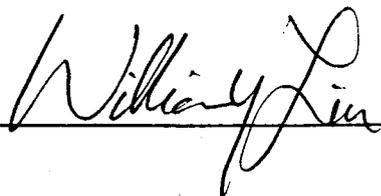
CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
13A (86164)	05/15/98	7 days	91,160	3220
13B (86165)	06/05/98	28 days		
13C (86166)	06/05/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

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 Fourth Street Rock (1)

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CONCRETE TEST CYLINDER DATA

IDENTIFICATION DATA

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 Client: URS Grenier, Inc. - California Report No. 15  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No.  Yes \_\_\_\_\_ Ticket No. 217040  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 69 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 3  
 Date Cast 5/8/98 Cast by: Kevin Horn

SPECIMEN TEST DATA

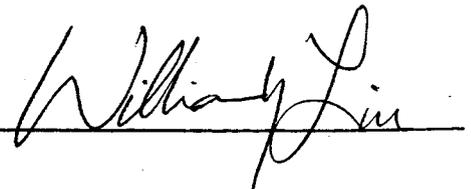
CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
15A (86172)	05/15/98	7 days	92,730	3280
15B (86173)	06/05/98	28 days		
15C (86174)	06/05/98	28 days		

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Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 217037  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day 28 Day 3500

### FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 66 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 2  
 Date Cast 5/8/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

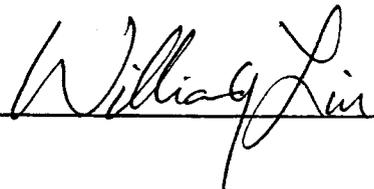
CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
14A (86168)	05/15/98	7 days	103,640	3670
14B (86169)	06/05/98	28 days		
14C (86170)	06/05/98	28 days		

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 Batch Plant Inspection No.  Yes \_\_\_\_\_ Ticket No. 217030  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 67 F°  
 Slump: 4 3/4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 1  
 Date Cast 5/8/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

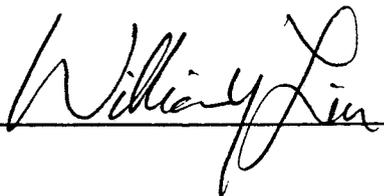
CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
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13B (86165)	06/05/98	28 days		
13C (86166)	06/05/98	28 days		

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 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
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 Date Cast 5/8/98 Cast by: Kevin Horn

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15C (86174)	06/05/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

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 Project No. 602470  
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 PM PA/SCM SM File

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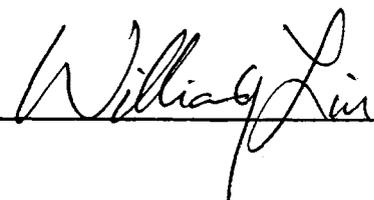
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 Inspector: Frank Dubois

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 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

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 Slump: 4 3/4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 1  
 Date Cast 5/8/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

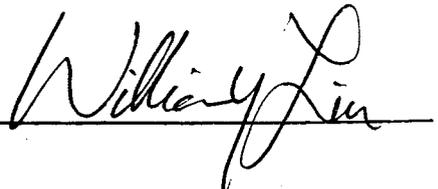
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13B (86165)	06/05/98	28 days		
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#### DISTRIBUTION:

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: ARCS - Newmark RA Job No. 97722-5  
 Client: URS Greiner, Inc. - California Report No. 15  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
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 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

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 Date Cast 5/8/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
15A (86172)	05/15/98	7 days	92,730	3280
15B (86173)	06/05/98	28 days	154,730	5470
15C (86174)	06/05/98	28 days	161,150	5700

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Greiner, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

DCN 0357 File 13.10.a1  
 Project No. 102470  
 CC: \_\_\_\_\_  
 PM  PA/SCM  SM  File \_\_\_\_\_



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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

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 Client: URS Greiner, Inc. - California Report No. 15  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
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 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No. X Yes \_\_\_\_\_ Ticket No. 217040  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 69 F°  
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 Fourth Street Rock (1)

#### CERTIFIED:



REC'D JUN 10 1998



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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: <u>ARCS - Newmark RA</u>	Job No. <u>97722-5</u>
Client: <u>URS Greiner, Inc. - California</u>	Report No. <u>15</u>
<u>2710 Gateway Oaks, Suite 250 North</u>	Structure <u>Vessel Pad</u>
<u>Sacramento, CA 95833</u>	
Contractor: <u>Ralph Hernandez</u>	Location <u>North Pad</u>
Inspector: <u>Frank Dubois</u>	

### MATERIALS AND MIX DATA

Concrete Supplier: <u>Fourth Street Rock</u>	Mix No. <u>CHJ-98040</u>
Batch Plant Inspection No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>	Ticket No. <u>217040</u>
Cement Content <u>Sk/Cu-Yd 5.7</u>	Admixtures: <u>WRDA-79</u>
Compressive Strength Required: <u>7 Day</u>	<u>28 Day 3500</u>

### FIELD TEST DATA

Air Temperature: <u>60</u> F°	Concrete Temperature <u>69</u> F°
Slump: <u>4</u> inches	Air Content: _____ percent
Date Received <u>5/11/98</u>	Size: <u>6x12</u>
Date Cast <u>5/8/98</u>	Cylinder Markings <u>Set 3</u>
	Cast by: <u>Kevin Horn</u>

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
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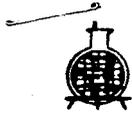
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#### DISTRIBUTION:

URS Greiner, Inc. (3)  
Fourth Street Rock (1)

#### CERTIFIED:

*William J. Lin*



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**INCORPORATED**

P.O. Box 231 • 1355 E. Cooley Drive, Colton, CA 92324 • Phone (909) 824-7210

**CONCRETE TEST CYLINDER DATA**

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Project: ARCS - Newmark RA Job No. 97722-5  
 Client: URS Greiner, Inc. - California Report No. 14  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

**MATERIALS AND MIX DATA**

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No.  Yes \_\_\_\_\_ Ticket No. 217037  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

**FIELD TEST DATA**

Air Temperature: 60 F° Concrete Temperature 66 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 2  
 Date Cast 5/8/98 Cast by: Kevin Horn

**SPECIMEN TEST DATA**

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
14A (86168)	05/15/98	7 days	103,640	3670
14B (86169)	06/05/98	28 days	157,030	5550
14C (86170)	06/05/98	28 days	156,840	5550

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

**DISTRIBUTION:**

URS Greiner, Inc. (3)  
 Fourth Street Rock (1)

**CERTIFIED:**

*William J. Lin*



# C.H.J. INCORPORATED

REC'D JUN 10 1998

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: ARCS - Newmark RA Job No. 97722-5  
 Client: URS Greiner, Inc. - California Report No. 14  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 217037  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 66 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 2  
 Date Cast 5/8/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

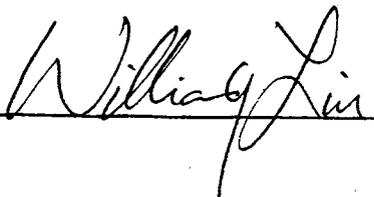
CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
14A (86168)	05/15/98	7 days	103,640	3670
14B (86169)	06/05/98	28 days	157,030	5550
14C (86170)	06/05/98	28 days	156,840	5550

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Greiner, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

  
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# C.H.J.

# INCORPORATED

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: ARCS - Newmark RA Job No. 97722-5  
 Client: URS Greiner, Inc. - California Report No. 14  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 217037  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day 28 Day 3500

### FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 66 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 2  
 Date Cast 5/8/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
14A (86168)	05/15/98	7 days	103,640	3670
14B (86169)	06/05/98	28 days	157,030	5550
14C (86170)	06/05/98	28 days	156,840	5550

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Greiner, Inc. (3)  
 Fourth Street Rock (1)

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: <u>ARCS - Newmark RA</u>	Job No. <u>97722-5</u>
Client: <u>URS Greiner Inc. - California</u>	Report No. <u>13</u>
<u>2710 Gateway Oaks, Suite 250 North</u>	Structure <u>Vessel Pad</u>
<u>Sacramento, CA 95833</u>	
Contractor: <u>Ralph Hernandez</u>	Location <u>North Pad</u>
Inspector: <u>Frank Dubois</u>	

### MATERIALS AND MIX DATA

Concrete Supplier: <u>Fourth Street Rock</u>	Mix No. <u>CHJ-98040</u>
Batch Plant Inspection    No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>	Ticket No. <u>217030</u>
Cement Content    Sk/Cu-Yd <u>5.7</u>	Admixtures: <u>WRDA-79</u>
Compressive Strength Required:    7 Day _____	28 Day <u>3500</u>

### FIELD TEST DATA

Air Temperature: <u>60</u> F°	Concrete Temperature <u>67</u> F°
Slump: <u>4 3/4</u> inches	Air Content: _____ percent    Size: <u>6x12</u>
Date Received <u>5/11/98</u>	Cylinder Markings <u>Set 1</u>
Date Cast <u>5/8/98</u>	Cast by: <u>Kevin Horn</u>

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
13A (86164)	05/15/98	7 days	91,160	3220
13B (86165)	06/05/98	28 days	147,550	5220
13C (86166)	06/05/98	28 days	145,960	5160

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

**DISTRIBUTION:**

URS Greiner, Inc.                    (3)  
 Fourth Street Rock                (1)

**CERTIFIED:**

*William Lin*



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**CONCRETE TEST CYLINDER DATA**

**IDENTIFICATION DATA**

Project: ARCS - Newmark RA Job No. 97722-5  
 Client: URS Greiner Inc. - California Report No. 13  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

**MATERIALS AND MIX DATA**

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 217030  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day 28 Day 3500

**FIELD TEST DATA**

Air Temperature: 60 F° Concrete Temperature 67 F°  
 Slump: 4 3/4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 1  
 Date Cast 5/8/98 Cast by: Kevin Horn

**SPECIMEN TEST DATA**

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
13A (86164)	05/15/98	7 days	91,160	3220
13B (86165)	06/05/98	28 days	147,550	5220
13C (86166)	06/05/98	28 days	145,960	5160

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

**DISTRIBUTION:**

URS Greiner, Inc. (3)  
 Fourth Street Rock (1)

**CERTIFIED:**

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CONCRETE TEST CYLINDER DATA

IDENTIFICATION DATA

Project: ARCS - Newmark RA Job No. 97722-5  
 Client: URS Greiner Inc. - California Report No. 13  
2710 Gateway Oaks, Suite 250 North Structure Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Pad  
 Inspector: Frank Dubois

MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 217030  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day 28 Day 3500

FIELD TEST DATA

Air Temperature: 60 F° Concrete Temperature 67 F°  
 Slump: 4 3/4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 5/11/98 Cylinder Markings Set 1  
 Date Cast 5/8/98 Cast by: Kevin Horn

SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
13A (86164)	05/15/98	7 days	91,160	3220
13B (86165)	06/05/98	28 days	147,550	5220
13C (86166)	06/05/98	28 days	145,960	5160

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

DISTRIBUTION:

URS Greiner, Inc. (3)  
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CERTIFIED:

*William Lin*

REC'D APR 23 1998



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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 9  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No. X Yes \_\_\_\_\_ Ticket No. 215706  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 62 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 1 2 3 4  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
9A (85469)	04/20/98	7 days	99,707	3530
9B (85470)	05/11/98	28 days		
9C (85471)	05/11/98	28 days		

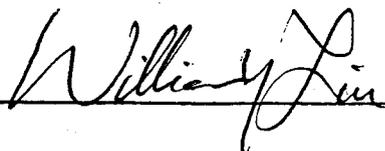
Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

DCN 0351 File 13.10.a1  
 Project No. 02470  
 CC: \_\_\_\_\_  
 PM PA/SCM SM File





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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 10  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215713  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 3 1/2 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 5 6 7 8  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
10A (85473)	04/20/98	7 days	106.660	3600
10B (85474)	05/11/98	28 days		
10C (85475)	05/11/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

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 Fourth Street Rock (1)

#### CERTIFIED:





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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 11  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215719  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 9 10 11 12  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
11A (85477)	04/20/98	7 days	91,322	3230
11B (85478)	05/11/98	28 days		
11C (85479)	05/11/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

DISTRIBUTION:

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 9  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location: West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215706  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 62 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 1 2 3 4  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
9A (85469)	04/20/98	7 days	99,707	3530
9B (85470)	05/11/98	28 days		
9C (85471)	05/11/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:





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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 10  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215713  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 3 1/2 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 5 6 7 8  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
10A (85473)	04/20/98	7 days	106,660	3600
10B (85474)	05/11/98	28 days		
10C (85475)	05/11/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 11  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215719  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day                      28 Day 3500

### FIELD TEST DATA

Air Temperature:                      F° Concrete Temperature 64 F°  
 Slump: 4 inches Air Content:                      percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 9 10 11 12  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
11A (85477)	04/20/98	7 days	91,322	3230
11B (85478)	05/11/98	28 days		
11C (85479)	05/11/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

DISTRIBUTION:

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 Fourth Street Rock (1)

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 9  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215706  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 62 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 1 2 3 4  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
9A (85469)	04/20/98	7 days	99,707	3530
9B (85470)	05/11/98	28 days		
9C (85471)	05/11/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

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 Fourth Street Rock (1)

#### CERTIFIED:





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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 10  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHI-98040  
 Batch Plant Inspection No. X Yes \_\_\_\_\_ Ticket No. 215713  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 3 1/2 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 5 6 7 8  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
10A (85473)	04/20/98	7 days	106,660	3600
10B (85474)	05/11/98	28 days		
10C (85475)	05/11/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

  
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ECT) MAY 15 1998

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 9  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215706  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 62 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 1 2 3 4  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
9A (85469)	04/20/98	7 days	99,707	3530
9B (85470)	05/11/98	28 days	165,910	5870
9C (85471)	05/11/98	28 days	161,050	5700

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

*William Y. Lin*

DCN 02101 File 13.10.01  
 Project No. 602470  
 CC: \_\_\_\_\_  
 PM \_\_\_\_\_ PA/SCM \_\_\_\_\_ SM \_\_\_\_\_ File \_\_\_\_\_



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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 10  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215713  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 3 1/2 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 5 6 7 8  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

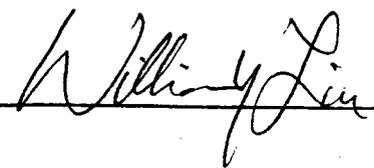
CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
10A (85473)	04/20/98	7 days	106,660	3600
10B (85474)	05/11/98	28 days	165,910	5870
10C (85475)	05/11/98	28 days	161,050	5700

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:





# C.H.J. INCORPORATED

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site  
 Client: URS Grenier, Inc.  
2710 Gateway Oaks Drive, Suite 250 North  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction  
 Inspector: Frank Dubois

Job No. 97722-5  
 Report No. 11  
 Structure Vessel Slab  
 Location West Slab

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock  
 Batch Plant Inspection No.  Yes   
 Cement Content Sk/Cu-Yd 5.7  
 Compressive Strength Required: 7 Day

Mix No. CHJ-98040  
 Ticket No. 215719  
 Admixtures: WRDA-79  
 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 9 10 11 12  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
11A (85477)	04/20/98	7 days	91,322	3230
11B (85478)	05/11/98	28 days	155,500	5500
11C (85479)	05/11/98	28 days	153,630	5430

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:



REC'D MAY 15 1998

# CHJ INCORPORATED

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 9  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215706  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 62 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 1 2 3 4  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
9A (85469)	04/20/98	7 days	99,707	3530
9B (85470)	05/11/98	28 days	165,910	5870
9C (85471)	05/11/98	28 days	161,050	5700

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

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 Fourth Street Rock (1)

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 10  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215713  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 3 1/2 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 5 6 7 8  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

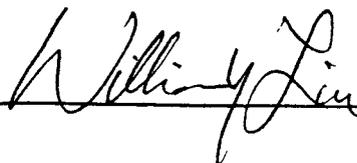
CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
10A (85473)	04/20/98	7 days	106,660	3600
10B (85474)	05/11/98	28 days	165,910	5870
10C (85475)	05/11/98	28 days	161,050	5700

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site  
 Client: URS Grenier, Inc.  
2710 Gateway Oaks Drive, Suite 250 North  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction  
 Inspector: Frank Dubois

Job No. 97722-5  
 Report No. 11  
 Structure Vessel Slab  
 Location West Slab

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock  
 Batch Plant Inspection No.  Yes   
 Cement Content Sk/Cu-Yd 5.7  
 Compressive Strength Required: 7 Day

Mix No. CHJ-98040  
 Ticket No. 215719  
 Admixtures: WRDA-79  
 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 9 10 11 12  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
11A (85477)	04/20/98	7 days	91,322	3230
11B (85478)	05/11/98	28 days	155,500	5500
11C (85479)	05/11/98	28 days	153,630	5430

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

*William Lin*

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**CONCRETE TEST CYLINDER DATA**

**IDENTIFICATION DATA**

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 9  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

**MATERIALS AND MIX DATA**

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215706  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

**FIELD TEST DATA**

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 62 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 1 2 3 4  
 Date Cast 4/13/98 Cast by: Kevin Horn

**SPECIMEN TEST DATA**

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
9A (85469)	04/20/98	7 days	99,707	3530
9B (85470)	05/11/98	28 days	165,910	5870
9C (85471)	05/11/98	28 days	161,050	5700

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

**DISTRIBUTION:**

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

**CERTIFIED:**

*William Y. Lin*



# C.H.J.

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 10  
2710 Gateway Oaks Drive, Suite 250 North Structure Vessel Slab  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction Location West Slab  
 Inspector: Frank Dubois

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-98040  
 Batch Plant Inspection No  Yes  Ticket No. 215713  
 Cement Content Sk/Cu-Yd 5.7 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 3 1/2 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 5 6 7 8  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

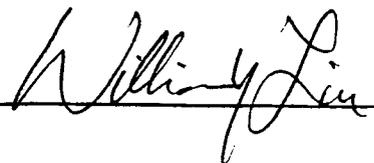
CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
10A (85473)	04/20/98	7 days	106,660	3600
10B (85474)	05/11/98	28 days	165,910	5870
10C (85475)	05/11/98	28 days	161,050	5700

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site  
 Client: URS Grenier, Inc.  
2710 Gateway Oaks Drive, Suite 250 North  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Construction  
 Inspector: Frank Dubois

Job No. 97722-5  
 Report No. 11  
 Structure Vessel Slab  
 Location West Slab

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock  
 Batch Plant Inspection No.  Yes   
 Cement Content Sk/Cu-Yd 5.7  
 Compressive Strength Required: 7 Day

Mix No. CHJ-98040  
 Ticket No. 215719  
 Admixtures: WRDA-79  
 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 64 F°  
 Slump: 4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/14/98 Cylinder Markings 9 10 11 12  
 Date Cast 4/13/98 Cast by: Kevin Horn

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
11A (85477)	04/20/98	7 days	91,322	3230
11B (85478)	05/11/98	28 days	155,500	5500
11C (85479)	05/11/98	28 days	153,630	5430

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
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CONCRETE TEST CYLINDER DATA

IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site
Client: URS Grenier, Inc.
Contractor: Ralph Hernandez
Job No. 97722-5
Report No. 8
Structure Drain Channel Floor
Location West Slab

MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock
Batch Plant Inspection No X Yes
Cement Content Sk/Cu-Yd 6.2
Compressive Strength Required: 7 Day 28 Day 3000

FIELD TEST DATA

Air Temperature: F Concrete Temperature 58 F
Slump: 3 inches Air Content: percent Size: 6x12
Date Received 4/1/98 Cylinder Markings 1 2 3 4
Date Cast 3/31/98 Cast by: Fernando Flores

SPECIMEN TEST DATA

Table with 5 columns: CYLINDER NO., DATE TESTED, AGE TESTED, TOTAL LOAD, COMPRESSIVE STRENGTH, P. S. I. Rows include 8A (85061), 8B (85062), and 8C (85063).

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

DISTRIBUTION:

URS Grenier, Inc. (3)
Fourth Street Rock (1)

CERTIFIED:

Handwritten signature of J. P. Joffe

DCN 03102 File 13.10.01
Project No. 102470
CC:
PM PA/SCM SM File

REC'D MAY. 01 1998



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**CONCRETE TEST CYLINDER DATA**

**IDENTIFICATION DATA**

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 8  
2710 Gateway Oaks Drive Structure Drain Channel Floor  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location West Slab  
 Inspector: \_\_\_\_\_

**MATERIALS AND MIX DATA**

Concrete Supplier: Fourth Street Rock Mix No. CHJ-97147  
 Batch Plant Inspection No.  Yes \_\_\_\_\_ Ticket No. \_\_\_\_\_  
 Cement Content Sk/Cu-Yd 6.2 Admixtures: \_\_\_\_\_  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3000

**FIELD TEST DATA**

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 58 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/1/98 Cylinder Markings 1 2 3 4  
 Date Cast 3/31/98 Cast by: Fernando Flores

**SPECIMEN TEST DATA**

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
8A (85061)	04/07/98	7 days	114,570	4050
8B (85062)	04/28/98	28 days	172,750	6110
8C (85063)	04/28/98	28 days	164,520	5820

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

**DISTRIBUTION:**

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 Fourth Street Rock (1)

**CERTIFIED:**



4162470.13.10.01

REC'D MAY 01 1998



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CONCRETE TEST CYLINDER DATA

IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site
Client: URS Grenier, Inc.
2710 Gateway Oaks Drive
Sacramento, CA 95833
Contractor: Ralph Hernandez
Inspector:

Job No. 97722-5
Report No. 8
Structure Drain Channel Floor
Location West Slab

MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock
Batch Plant Inspection No X Yes
Cement Content Sk/Cu-Yd 6.2
Compressive Strength Required: 7 Day 28 Day 3000

Mix No. CHJ-97147
Ticket No.
Admixtures:

FIELD TEST DATA

Air Temperature: F Concrete Temperature 58 F
Slump: 3 inches Air Content: percent Size: 6x12
Date Received 4/1/98 Cylinder Markings 1 2 3 4
Date Cast 3/31/98 Cast by: Fernando Flores

SPECIMEN TEST DATA

Table with 5 columns: CYLINDER NO., DATE TESTED, AGE TESTED, TOTAL LOAD, COMPRESSIVE STRENGTH, P. S. I.
Rows include 8A (85061), 8B (85062), 8C (85063) with corresponding test results.

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

DISTRIBUTION:

URS Grenier, Inc. (3)
Fourth Street Rock (1)

CERTIFIED:

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REC'D APR 10 1998



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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 8  
2710 Gateway Oaks Drive Structure Drain Channel Floor  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location West Slab  
 Inspector: \_\_\_\_\_

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-97147  
 Batch Plant Inspection No  Yes \_\_\_\_\_ Ticket No. \_\_\_\_\_  
 Cement Content Sk/Cu-Yd 6.2 Admixtures: \_\_\_\_\_  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3000

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 58 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/1/98 Cylinder Markings 1 2 3 4  
 Date Cast 3/31/98 Cast by: Fernando Flores

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
8A (85061)	04/07/98	7 days	114,570	4050
8B (85062)	04/28/98	28 days		
8C (85063)	04/28/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:





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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 8  
2710 Gateway Oaks Drive Structure Drain Channel Floor  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location West Slab  
 Inspector: \_\_\_\_\_

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-97147  
 Batch Plant Inspection No  Yes \_\_\_\_\_ Ticket No. \_\_\_\_\_  
 Cement Content Sk/Cu-Yd 6.2 Admixtures: \_\_\_\_\_  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3000

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 58 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/1/98 Cylinder Markings 1 2 3 4  
 Date Cast 3/31/98 Cast by: Fernando Flores

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
8A (85061)	04/07/98	7 days	114,570	4050
8B (85062)	04/28/98	28 days		
8C (85063)	04/28/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:





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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: URS Grenier, Inc. Report No. 8  
2710 Gateway Oaks Drive Structure Drain Channel Floor  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location West Slab  
 Inspector: \_\_\_\_\_

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-97147  
 Batch Plant Inspection No.  Yes \_\_\_\_\_ Ticket No. \_\_\_\_\_  
 Cement Content Sk/Cu-Yd 6.2 Admixtures: \_\_\_\_\_  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3000

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 58 F°  
 Slump: 3 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 4/1/98 Cylinder Markings 1 2 3 4  
 Date Cast 3/31/98 Cast by: Fernando Flores

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
8A (85061)	04/07/98	7 days	114,570	4050
8B (85062)	04/28/98	28 days		
8C (85063)	04/28/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

URS Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

  
 \_\_\_\_\_



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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: U R S Grenier, Inc. Report No. 5  
2710 Gateway Oaks Drive, Suite 250 North Structure South Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Plant 20' from  
 Inspector: \_\_\_\_\_ East End of Pad

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-97147  
 Batch Plant Inspection No  Yes \_\_\_\_\_ Ticket No. \_\_\_\_\_  
 Cement Content Sk/Cu-Yd 6.2 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 56 F°  
 Slump: 3 3/4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 3/10/98 Cylinder Markings 1 2 3  
 Date Cast 3/9/98 Cast by: Fernando Flores

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
5A (84702)	03/16/98	7 days	83,155	2940
5B (84703)	04/06/98	28 days		
5C (84704)	04/06/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

U R S Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

DCN 03103 File 13.10.a1  
 Project No. 02470  
 CC: \_\_\_\_\_  
 PM PA/SCM SM \_\_\_\_\_ File \_\_\_\_\_



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## CONCRETE TEST CYLINDER DATA

### IDENTIFICATION DATA

Project: New Mark Groundwater Contamination Superfund Site Job No. 97722-5  
 Client: U R S Grenier, Inc. Report No. 5  
2710 Gateway Oaks Drive, Suite 250 North Structure South Vessel Pad  
Sacramento, CA 95833  
 Contractor: Ralph Hernandez Location North Plant 20' from  
 Inspector: \_\_\_\_\_ East End of Pad

### MATERIALS AND MIX DATA

Concrete Supplier: Fourth Street Rock Mix No. CHJ-97147  
 Batch Plant Inspection No.  Yes \_\_\_\_\_ Ticket No. \_\_\_\_\_  
 Cement Content Sk/Cu-Yd 6.2 Admixtures: WRDA-79  
 Compressive Strength Required: 7 Day \_\_\_\_\_ 28 Day 3500

### FIELD TEST DATA

Air Temperature: \_\_\_\_\_ F° Concrete Temperature 56 F°  
 Slump: 3 3/4 inches Air Content: \_\_\_\_\_ percent Size: 6x12  
 Date Received 3/10/98 Cylinder Markings 1 2 3  
 Date Cast 3/9/98 Cast by: Fernando Flores

### SPECIMEN TEST DATA

CYLINDER NO.	DATE TESTED	AGE TESTED	TOTAL LOAD	COMPRESSIVE STRENGTH, P. S. I.
5A (84702)	03/16/98	7 days	83,155	2940
5B (84703)	04/06/98	28 days		
5C (84704)	04/06/98	28 days		

Tests by laboratory personnel are in accordance with applicable ASTM methods unless otherwise noted.

#### DISTRIBUTION:

U R S Grenier, Inc. (3)  
 Fourth Street Rock (1)

#### CERTIFIED:

