

**QUARTERLY MONITORING REPORT
JULY 2003**

**City of Patterson Wastewater Treatment Plant
Groundwater Monitoring Program**

Conducted in Accordance with
Waste Discharge Requirements Order No. 5-00-146

Prepared by:



LEE & RO, Inc.
11060 White Rock Road, Suite 100
Rancho Cordova, California 95670-6046

Prepared for:

City of Patterson
Department of Public Works
33 South Del Puerto Avenue
Patterson, CA 95363

July 2003

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Patterson, CA 95363

July 2003

**FIELD WORK CONDUCTED UNDER THE SUPERVISION OF AND REPORT
PREPARED BY:**

Tambrey Tosk 8-22-03

Tambrey A. Tosk (DATE)
Registered Geologist California No. 5848
Certified Hydrogeologist California No. HG 439
Registered Civil Engineer California No. C63813

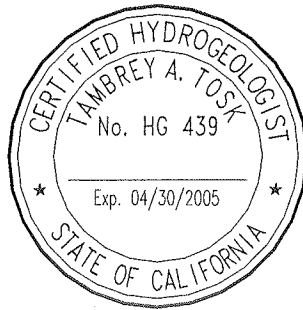
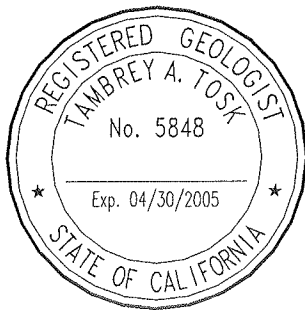


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1. INTRODUCTION

This Quarterly Groundwater Monitoring Report has been prepared in accordance with the Waste Discharge Requirements for the City of Patterson Wastewater Treatment Plant in the City of Patterson, Stanislaus County, California. The wells were installed as part of the groundwater monitoring program developed to determine if groundwater has been, or has the potential to be, adversely impacted by wastewater treatment and disposal operations. The monitoring program will include an assessment of background conditions and a determination if there has been any impact from wastewater disposal. The groundwater monitoring program consists of the construction and quarterly sampling of five monitoring wells.

The wells were constructed in March 2001 and samples have been collected on a quarterly basis since April 2001. This report presents the results of the quarterly samples collected July 9, 2003.

2. GROUNDWATER MONITORING WELLS

Two upgradient wells (MW-1 and MW-2) and three downgradient wells (MW-3, MW-4, and MW-5) are located at the plant site.

The wells have 15 feet of screen per well. The total depths range from 28 to 30 feet below ground surface (bgs). A summary of well characteristics is provided in **Table 1**.

Table 1
Well Construction Summary

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>
Well Depth (ft)	28	29	28	30	29
Completion Type	Below	Above	Above	Above	Above
Slot Size (inch)	0.01	0.02	0.02	0.01	0.02
Elevation of Slab Surface	55.58	57.93	52.18	56.99	53.79
Elevation of Top of Casing	54.93	59.68	53.80	58.58	55.21
Northing	63170.83	65646.16	63426.28	64632.54	65640.07
Easting	27600.60	26971.88	29651.79	28630.20	28819.87

3. GROUNDWATER ELEVATIONS

Groundwater elevations measured to date are summarized in **Figure 1** along with the surface water elevations in the San Joaquin River for the same time period. Groundwater elevations measured in 2003 are presented in **Table 2** and contoured on the maps presented in **Figures 2A and 2B**.

Table 2
2003 Groundwater Elevations
Patterson WWTP Monitoring Wells

	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>
Water Elevation 2/18/03 (ft msl)	37.22	42.99	35.05	35.87	34.50
Water Elevation 7/9/03 (ft msl)	37.48	42.23	32.58	33.97	33.83

4. MONITORING WELL SAMPLING

The wells were purged and sampled according to the procedures specified in the workplan each quarter. Purge logs are presented in **Appendix A**.

5. GROUNDWATER QUALITY RESULTS

Laboratory reports for the July 2003 quarterly samples are presented in **Appendix B**. Analytical results for the 2003 quarterly samples are presented in **Tables 3A and 3B**.

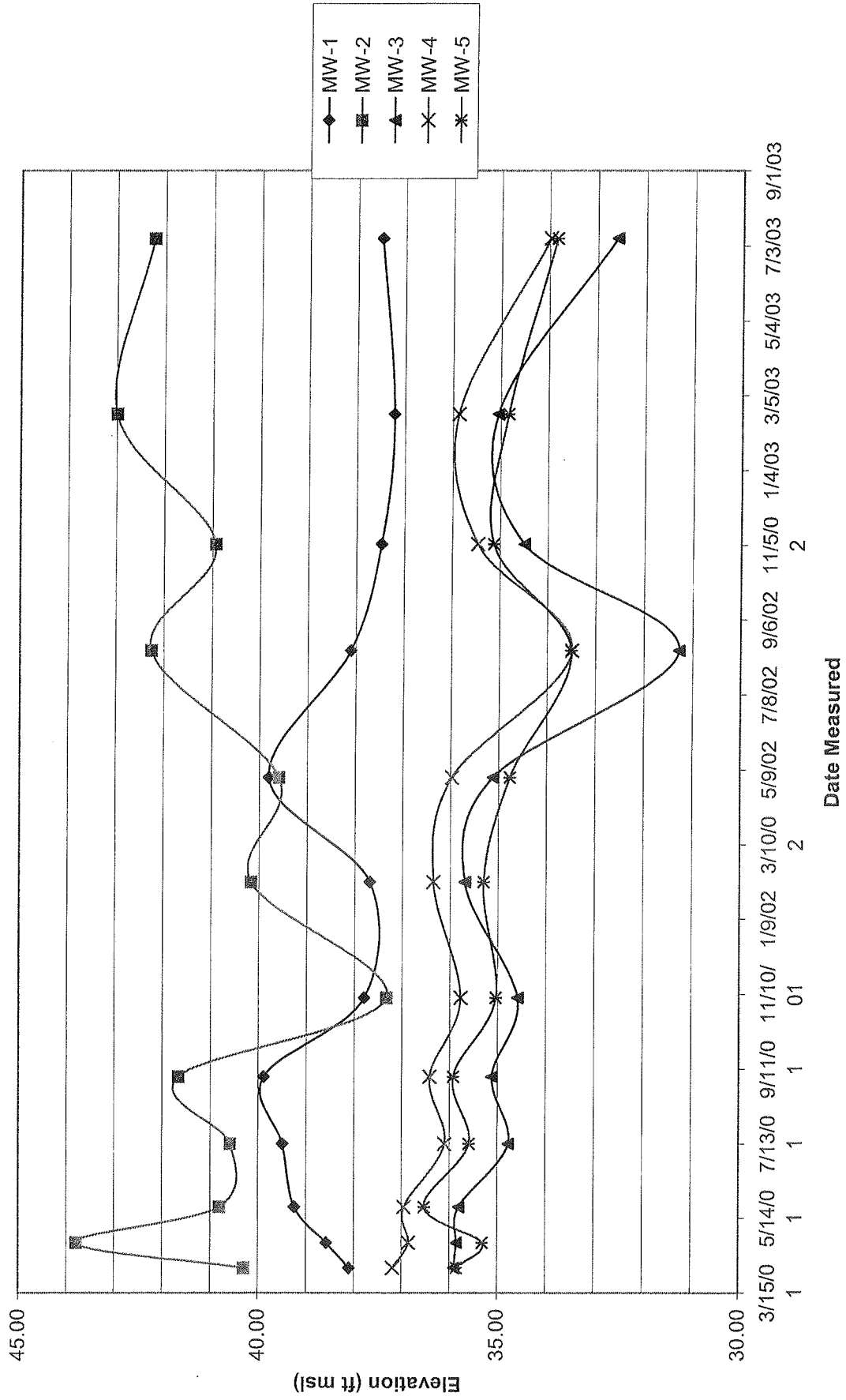
Table 3A
Groundwater Analytical Results
February 2003

	<u>Unit</u>	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>
pH	Unit	7.6	7.3	7.3	7.1	7.1
Electrical Conductivity	uS/cm	3,650	4,100	4,280	1,960	323
Total Dissolved Solids	mg/L	1,950	1,580	2,360	1,120	1,570
Nitrate as Nitrogen	mg/L	23	8.8	16	0.58	6.8
Total Coliform Organisms	MPN/100 mL	2	<2	2	<2	<2
Fecal Coliform Organisms	MPN/100 mL	<2	<2	<2	<2	<2

Table 3B
Groundwater Analytical Results
July 2003

	<u>Unit</u>	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>
pH	Unit	7.3	7.2	7.1	6.9	6.7
Electrical Conductivity	uS/cm	2,950	3,720	4,500	3,280	2,800
Total Dissolved Solids	mg/L	1,410	1,690	2,290	1,540	1,270
Nitrate as Nitrogen	mg/L	13	7.1	13	0.31	6.5
Total Coliform Organisms	MPN/100 mL	<2	<2	<2	<2	<2
Fecal Coliform Organisms	MPN/100 mL	<2	<2	<2	<2	<2

Figure 1
Groundwater Elevations in Patterson WWTP Monitoring Wells





SCALE: 1"=400'

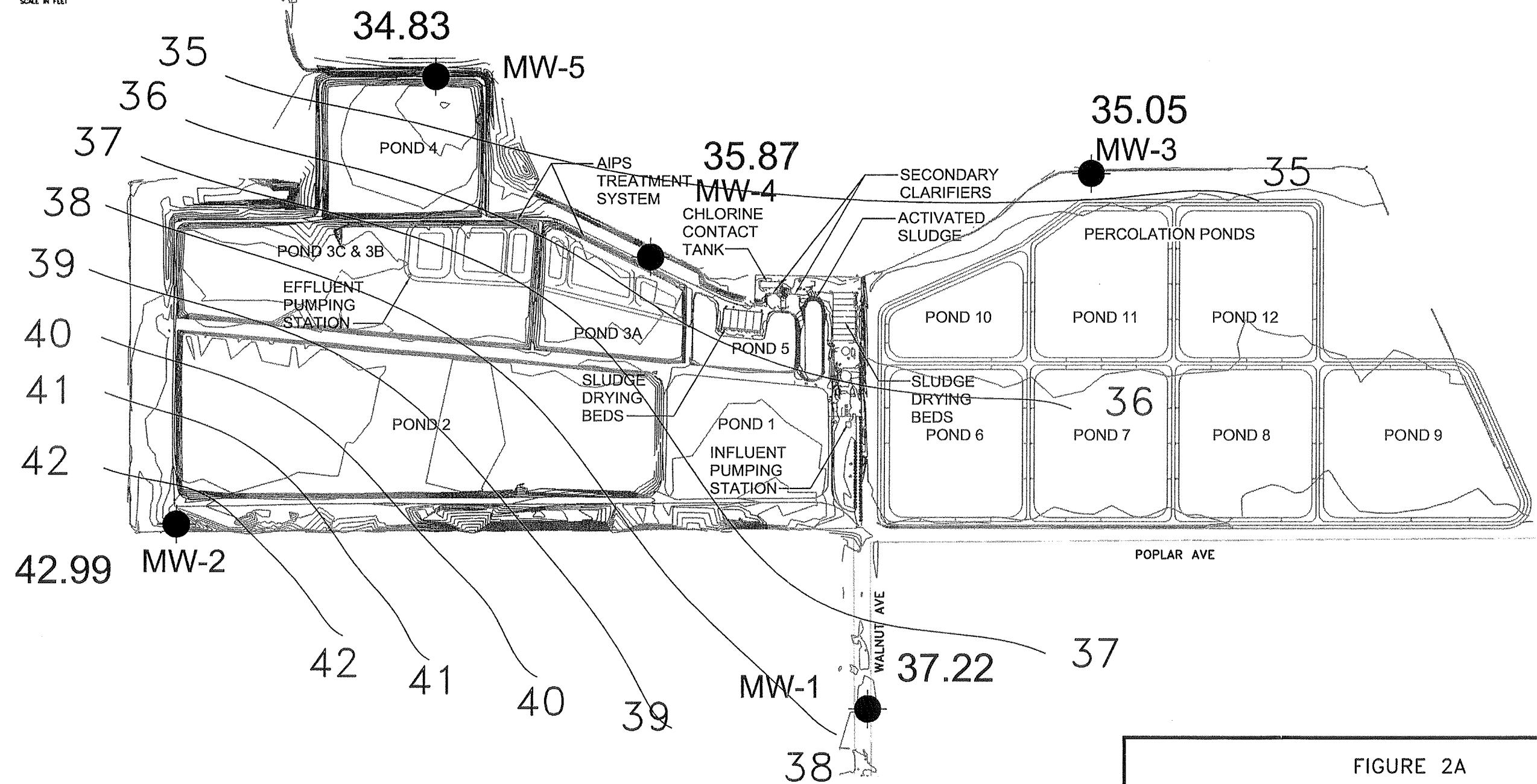
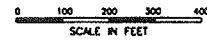


FIGURE 2A
GROUNDWATER ELEVATION MAP
FEBRUARY 18, 2003



SCALE: 1"=400'

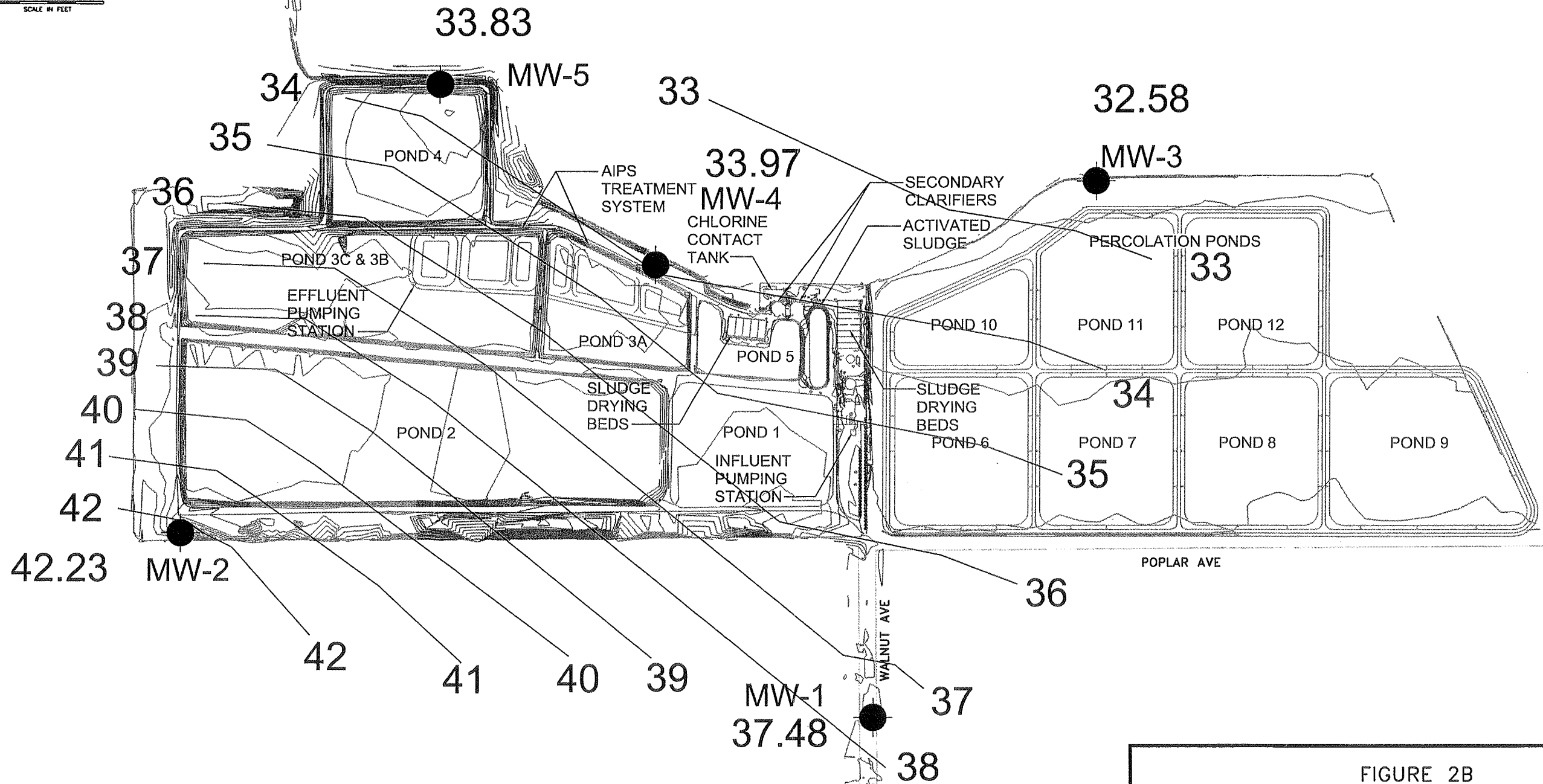
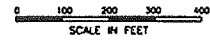


FIGURE 2B
GROUNDWATER ELEVATION MAP
July 9, 2003

**APPENDIX A
PURGE LOGS**

Report # P190-05 Field Log / Groundwater Sampling Form Date 7/19/03
 Client City of Patterson Well Name MW-1
 Project Name Quarterly Groundwater Monitoring Well Type: Monitor Extraction Other
 Consultant _____
 Proj. Manager Joel Cockrell Sampler Ray Azevedo/Rich Chron

WELL PURGING

Purge Method
 Bailer - Type _____
 Pump - Type 2"
 Other _____

Purge Volume
 Well Casing Diameter 2 - inch
 4 - inch
 other _____

Well Volume Purged
 3 volumes
 4 volumes
 other _____

Multiplier	
Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
<u>4.0</u>	0.6527
6.0	1.4686

Total Well Depth 27.5
 Depth to Water 17.45
 Water Column Length 10.05

10.05 x 0.6527 x 3 = 19.75
 Water column length Multiplier No. Volumes CALCULATED Purge Vol.

19.75 / 2.5 = 7.87
 Purge Vol Purge Rate TOTAL PURGE TIME

7.87 / 3 = 2.62
 Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values

Purge Time / Vol. 3
 X
 No. Volumes 3
 =
 Total Purge Time 9
 X
 Purge Rate 2.5
 =
 Actual Purge Vol. 22.5

GROUNDWATER ANALYSIS SAMPLES

	Time	Gallons	pH	Conductivity µmhos/cm	Temp. <input type="checkbox"/> deg C <input type="checkbox"/> deg F	Turbidity NTU	Color / Odor
Start	8:00	-	-	-	-	-	-
Vol 1	8:03	7.5	8.0	1845	22.2	-	-
Vol 2	8:06	15	7.7	1805	22.3	-	clear.
Vol 3	8:09	22.5	7.6	1827	21.9	-	"
Vol 4							
Vol 5							

Meter Type IQ Scientific Purge Water Storage / Disposal
 Drummed onsite
 Onsite Treatment System
 Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method
 Bailer - Type _____
 Pump - Type _____
 Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
8:09	MW-1						2	4degrees C

COMMENTS/sampling: _____

Report # P190-05 Field Log / Groundwater Sampling Form Date 7/19/03
 Client City of Patterson Well Name MW-2
 Project Name Quarterly Groundwater Monitoring Well Type: Monitor Extraction Other
 Consultant _____
 Proj. Manager Joel Cockrell Sampler Ray Azevedo/Rich Chron

WELL PURGING

Purge Method
 Bailer - Type _____
 Pump - Type 2"
 Other _____

Purge Volume
 Well Casing Diameter 2 - inch 4 - inch other _____
 Well Volume Purged 3 volumes 4 volumes other _____

Multiplier
 Well Casing I.D. (in.) Gal./Ft.
 2.8 0.1632
 4.0 0.6527
 6.0 1.4686

Total Well Depth 31.0
 Depth to Water 17.45
 Water Column Length 13.55

13.55 x 0.6527 x 3 = 26.53
 Water column length Multiplier No. Volumes CALCULATED Purge Vol.

26.53 / 2.5 = 10.61
 Purge Vol Purge Rate TOTAL PURGE TIME

10.61 / 3 = 3.53
 Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values
 Purge Time /Vol. 4
 No. Volumes 3
 Total Purge Time 12
 Purge Rate 2.5
 Actual Purge Vol. 30

GROUNDWATER PARAMETER MEASUREMENTS

Time	Gallons	pH	Conductivity µmhos/cm	Temp. <input type="checkbox"/> deg C <input checked="" type="checkbox"/> deg F	Turbidity NTU	Color / Odor
Start	9:25	-	-	-	-	-
Vol 1	9:29	10	7.2	19.97 us	21.9	Clear
Vol 2	9:33	20	7.1	19.83	20.6	"
Vol 3	9:37	30	7.0	19.80	21.1	"
Vol 4						
Vol 5						

Meter Type IQ Scientific Purge Water Storage / Disposal
 Drummed onsite
 Onsite Treatment System
 Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method
 Bailer - Type _____
 Pump - Type _____
 Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
9:37	MW-2						2	4degrees C

COMMENTS/sampling: _____

Report # P190-05

Field Log / Groundwater Sampling Form

Date / /02

Client City of Patterson

Well Name MW 3

Project Name Quarterly Groundwater Monitoring

Well Type: Monitor Extraction Other

Consultant _____

Proj. Manager Joel Cockrell

Sampler Ray Azevedo/Rich Chron

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Purge Volume

Well Casing Diameter _____

Well Volume Purged _____

- 2 - inch
- 4 - inch
- other _____

- 3 volumes
- 4 volumes
- other _____

Multiplier

Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
<u>4.0</u>	0.6527
6.0	1.4686

Total Well Depth 31.0

Depth to Water 21.22

Water Column Length 9.78

$$\frac{9.78}{\text{Water column length}} \times \frac{0.6527}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{19.15}{\text{CALCULATED Purge Vol.}}$$

$$\frac{19.15}{\text{Purge Vol}} \times \frac{2.5}{\text{Purge Rate}} = \frac{7.67}{\text{TOTAL PURGE TIME}}$$

$$\frac{7.67}{\text{Total Purge Time}} \times \frac{3}{\text{\# Volumes}} = \frac{2.55}{\text{PURGE TIME/VOL.}}$$

Actual Values

Purge Time /Vol.	<u>3</u>
X	
No. Volumes	<u>3</u>
=	
Total Purge Time	<u>9</u>
X	
Purge Rate	<u>2.5</u>
=	
Actual Purge Vol.	<u>22.5</u>

GROUNDWATER ANALYSIS MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp. <input checked="" type="checkbox"/> deg C <input type="checkbox"/> deg F	Turbidity NTU	Color / Odor
Start	8:37	-	-	-	-	-	-
Vol 1	8:40	7.5	7.1	1 MS	21.1		
Vol 2	8:43	15.0	7.0	1 MS	20.0		
Vol 3	8:46	22.5	7.2	1 MS	19.9		
Vol 4							
Vol 5							

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
8:46	MW 3						2	4degrees C

COMMENTS/sampling: _____

Report # P190-05

Field Log / Groundwater Sampling Form

Date 7/19/03

Client City of Patterson

Well Name MW 4

Project Name Quarterly Groundwater Monitoring

Well Type: Monitor Extraction Other

Consultant _____

Proj. Manager Joel Cockrell

Sampler Ray Azevedo/Rich Chrun

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Multiplier

Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
<u>4.0</u>	0.6527
6.0	1.4686

Purge Volume

Well Casing Diameter

- 2 - inch
- 4 - inch
- other _____

Well Volume Purged

- 3 volumes
- 4 volumes
- other _____

Total Well Depth 310

Depth to Water 24.61

Water Column Length 6.39

6.39 x 0.6527 x 3 = 12.51
 Water column length Multiplier No. Volumes CALCULATED Purge Vol.

12.51 / 2.5 = 5.00
 Purge Vol Purge Rate TOTAL PURGE TIME

5.00 / 3 = 1.67
 Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values

Purge Time /Vol.	<u>1.67</u>
X	
No. Volumes	<u>3</u>
=	
Total Purge Time	<u>5.00</u>
X	
Purge Rate	<u>2.5</u>
=	
Actual Purge Vol.	<u>12.51</u>

GROUNDWATER ANALYSIS RESULTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp. <input type="checkbox"/> deg C <input type="checkbox"/> deg F	Turbidity NTU	Color / Odor
Start	<u>8:55</u>	-	-	-	-	-	-
Vol 1	<u>8:57</u>	<u>5</u>	<u>7.0</u>	<u>1745</u>	<u>23.2</u>		
Vol 2	<u>8:59</u>	<u>10</u>	<u>7.0</u>	<u>1897</u>	<u>21.7</u>		<u>clear</u>
Vol 3	<u>9:01</u>	<u>15</u>	<u>6.9</u>	<u>1928</u>	<u>21.2</u>		
Vol 4							
Vol 5							

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
<u>9:01</u>	<u>MW 4</u>						<u>2</u>	<u>4degrees C</u>

COMMENTS/sampling: _____

Report # P190-05 Field Log / Groundwater Sampling Form Date 7/9/03
 Client City of Patterson Well Name MW5
 Project Name Quarterly Groundwater Monitoring Well Type: Monitor Extraction Other
 Consultant _____
 Proj. Manager Joel Cockrell Sampler Ray Azevedo/Rich Chrun

WELL PURGING

Purge Method
 Bailer - Type _____
 Pump - Type 2"
 Other _____

Purge Volume
 Well Casing Diameter 2 - inch
 4 - inch
 other _____

Well Volume Purged
 3 volumes
 4 volumes
 other _____

Multiplier
 Well Casing I.D. (in.) Gal/Ft.
 2.0 0.1632
4.0 0.6527
 6.0 1.4686

Total Well Depth 31.0
 Depth to Water 21.38
 Water Column Length 9.62

9.62 x 0.6527 x 3 = 18.37
 Water column length Multiplier No. Volumes CALCULATED, Purge Vol.

18.37 / 2.5 = 7.53
 Purge Vol Purge Rate TOTAL PURGE TIME

7.53 / 3 = 2.51
 Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values

Purge Time /Vol. 3
 X
 No. Volumes 3
 =
 Total Purge Time 9
 X
 Purge Rate 2.5
 =
 Actual Purge Vol. 22.5

GROUNDWATER ANALYSIS SYSTEM

Time	Gallons	pH	Conductivity µmhos/cm	Temp. <input type="checkbox"/> deg C <input type="checkbox"/> deg F	Turbidity NTU	Color / Odor
Start	9:10	-	-	-	-	-
Vol 1	9:13	7.5	6.9	1470	23.2	-
Vol 2	9:16	15	6.8	1786	22.0	CLEAR
Vol 3	9:19	22.5	6.7	1808	21.4	"
Vol 4						"
Vol 5						

Meter Type IQ Scientific Purge Water Storage / Disposal
 Drummed onsite
 Onsite Treatment System
 Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method
 Bailer - Type _____
 Pump - Type _____
 Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
9:19	MW5						2	4degrees C

COMMENTS/sampling: _____

APPENDIX B
LABORATORY ANALYTICAL REPORT

GeoAnalytical Laboratories, Inc.
1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # P190-05

Date: 7/15/03

City of Patterson
33 So. Del Puerto Ave.
Patterson CA 95363

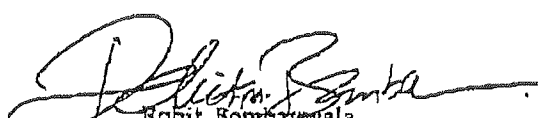
Project Quarterly - Monitoring Wells

Date Rec'd: 7/09/03
Date Started: 7/10/03
Date Completed: 7/14/03

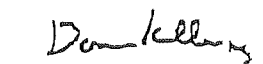
PO#

Date Sampled: 7/09/03
Time:
Sampler: R. Chun (Geo)

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
MW - 1	P306460	NA	150.1	pH	7.3	Std. Units
		1.0	120.1	Specific Conductance (EC)	2950	µmhos/cm
		10	160.1	TDS (Filterable Residue)	1410	mg/L
		0.25	300.0	Nitrate as N	13	mg/L
MW - 2	P306461	NA	150.1	pH	7.2	Std. Units
		1.0	120.1	Specific Conductance (EC)	3220	µmhos/cm
		10	160.1	TDS (Filterable Residue)	1690	mg/L
		0.25	300.0	Nitrate as N	7.1	mg/L
MW - 3	P306462	NA	150.1	pH	7.1	Std. Units
		1.0	120.1	Specific Conductance (EC)	4500	µmhos/cm
		10	160.1	TDS (Filterable Residue)	2290	mg/L
		0.25	300.0	Nitrate as N	13	mg/L
MW - 4	P306463	NA	150.1	pH	6.9	Std. Units
		1.0	120.1	Specific Conductance (EC)	3280	µmhos/cm
		10	160.1	TDS (Filterable Residue)	1540	mg/L
		0.25	300.0	Nitrate as N	0.31	mg/L
MW - 5	P306464	NA	150.1	pH	6.7	Std. Units
		1.0	120.1	Specific Conductance (EC)	2800	µmhos/cm
		10	160.1	TDS (Filterable Residue)	1270	mg/L
		0.25	300.0	Nitrate as N	6.5	mg/L


Rohit Somanywala
Inorganic Supervisor

Certification # 1157


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report# P190-05

Date: 7/14/03

City of Patterson
33 So. Del Puerto Ave.
Patterson

CA 95363

Project Quarterly - Monitoring Wells

PO#

Date Rec'd: 7/09/03
Date Started: 7/09/03
Date Completed: 7/11/03

Date Sampled: 7/09/03
Time:
Sampler: R. Chuan (Geo)

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
MW - 1	P306460	2	9221B,C	Total Coliform	<2	MPN/100ml
MW - 2	P306461	2	9221B,C	Total Coliform	<2	MPN/100ml
MW - 3	P306462	2	9221B,C	Total Coliform	<2	MPN/100ml
MW - 4	P306463	2	9221B,C	Total Coliform	<2	MPN/100ml
MW - 5	P306464	2	9221B,C	Total Coliform	<2	MPN/100ml

Kanti Gandhi
Chemist

Certification # 1157

Donna Keller
Laboratory Director

Report# P190-05

GeoAnalytical Laboratories, Inc.
1405 Kansas Avenue Modesto, CA 95351
Phone (209) 572-0900 Fax (209) 572-0916

QC REPORT

City of Patterson
33 So. Del Puerto Ave.
Patterson CA 95363

Analyte	Method	Batch #	Dates Analyzed	Orig.	Dupl.	MS %Rec	MSD %Rec	RPD	LCS %Rec	Blank	Comments
dal Cobaltom	9218C	B00377	7/09/03-7/11/03	2	2			0.0		2	

GEO

2095720916

*LCS/LCSD (see comments)

Karthi Gandhi
Chemist

Certification # 1157

Dorina Keller
Laboratory Director

Report# P190-05

City of Patterson
 33 So. Del Puerto Ave.
 Patterson CA 95363

GeoAnalytical Laboratories, Inc.
 1405 Kansas Avenue Modesto, CA 95351
 Phone (209) 572-0900 Fax (209) 572-0916

QC REPORT

Analyte	Method	Batch #	Dates Analyzed	Orig.	Dupl.	MS %Rec	MSD %Rec	RPD %Rec	LCS %Rec	Blank	Comments
Hardness as CaCO ₃	150.1	104601	7/09/03	7.3	7.3	84.9	85.9	0.0	0.0	NA	Sample analyzed concentration too high to spike.
Specific Conductance (EC)	123.1	104554	7/10/03	7.0	7.0			0.0	0.0	ND	
DS (Filterable Residue)	160.1	104549	7/10/03-7/11/03	14.0	14.0			0.7	0.7	ND	
Hardness as CaCO ₃	300.0	104609	7/10/03-7/11/03							ND	

* LCS/LCSD (see comments)

Robert M. Bonbrava
 Robert M. Bonbrava
 Inorganic Supervisor

Certification # 1157

Donna Keller
 Donna Keller
 Laboratory Director



GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue, Suite "A"
Modesto, CA 95351
Phone: (209) 572-0900
Fax: (209) 572-0916

Lab Report # P190-05
Regulatory Yes No CC: Yes No
Regulator:

Phone: () 892-8886
Fax: ()
Original To: Ignacio Lopez

CHAIN OF CUSTODY

Client: City of Patterson
Address: P.O. Box 667
City: Patterson, CA Zip: 95363

Date	Time	Sampled By	Sample type		Mats	Sample ID	Container		No. of Containers	ANALYSIS	Lab Use Only
			Grab	Comp			Type	Size			
7-9-03	8:05	<u>Richard Chrus</u>	X		KW	MR-1	P/g	ASOIL	2		Remarks: <u>P306460</u>
	9:57		X		KW	MR-2	P/g	ASOIL	2		<u>P306461</u>
	8:46		X		KW	MW-3	P/g	ABOIL	2		<u>P306462</u>
	9:01		X		KW	MW-4	P/g	ABOIL	2		<u>P306463</u>
	9:19		X		KW	MW-5	P/g	ASOIL	2		<u>P306464</u>

ON EQ. TDS ANALYSIS
MATERIALS (MVA)

Remarks: NO BATTERIES - NO BATTERIES

Received by (Signature): Richard Chrus Date: 7-9-03 Time: 8:30
Received by (Signature): Ignacio Lopez Date: 7/9/03 Time: 10:50

Site Time: 0-4°C HCL NaOH Na₂SO₄ HNO₃ H₂SO₄ Other Matrix
Site Start: 08/19/2003 Drinking Water Waste Water Hazardous Waste (Water) Soil/Solid
Turnaround Time: 0 Field Lab Other 5 HRS
Site Hours: 8:00 AM - 5:00 PM Site Arrival: 8:00 AM Mileage: 37
Approved By: Ignacio Lopez

