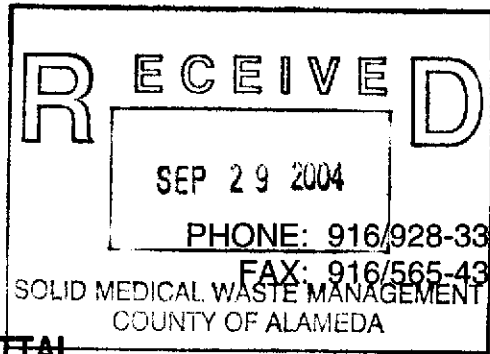




Shaw™ Shaw Environmental, Inc.
 1326 N. Market Boulevard
 Sacramento, California 95834-1943



TRANSMITTAL

To: Ms. Jeanne M. Zolezzi **DATE:** SEPTEMBER 23, 2004
 Herum, Crabtree, Dyer, Zolezzi & Terpstra, LLP **PROJECT No.:** 792775.00005
 2291 West March Lane, Suite B100
 Stockton, California 95207

FROM: David W. Herzog

RE: Submittal of Third Quarter 2004 Monitoring Report, McLemore Trust/Hard Chrome Engineering

QUANTITY:	DESCRIPTION:
1	Third Quarter 2004 Monitoring Report, McLemore Trust/Hard Chrome Engineering

FOR YOUR:	SENT BY:
<input checked="" type="checkbox"/> USE	<input checked="" type="checkbox"/> REGULAR MAIL
<input type="checkbox"/> APPROVAL	<input type="checkbox"/> OVERNIGHT
<input type="checkbox"/> REVIEW/COMMENTS	<input type="checkbox"/> UPS
<input type="checkbox"/> INFORMATION	<input type="checkbox"/> COURIER
<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER


cc: Ms. Cheryl McLemore, 4790 Caughlin Parkway, #429, Reno, Nevada 89509
 Mr. Tom Peacock, Alameda County Environmental Health
 Mr. Mark Piros, Department of Toxic Substances Control (California)
 Ms. Sumadhu Arigala, Regional Water Quality Control Board
 (San Francisco Bay Area)

SHAW ENVIRONMENTAL, INC.

**SEMI-ANNUAL
THIRD QUARTER 2004 MONITORING REPORT
HARD CHROME ENGINEERING
OAKLAND, CALIFORNIA**

Prepared for:
McLemore Trust
September 23, 2004

Prepared by:


Shaw™ Shaw Environmental, Inc.
1326 North Market Boulevard
Sacramento, California 95834

Project No.: 792775.00005000

Semi-Annual
Third Quarter 2004 Monitoring Report
Hard Chrome Engineering
Oakland, California

The material and data in this report were prepared under the supervision and direction of the undersigned.



A handwritten signature in cursive script, appearing to read "D. Herzog", is written over a horizontal line.

David W. Herzog, R.G.
Project Manager



SHAW ENVIRONMENTAL, INC.

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APPENDIX B	FIELD REPORT AND FIELD DATA SHEETS
APPENDIX C	CERTIFIED ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY REPORTS

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- 1 Groundwater Analytical Data

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- 1 Site Location Map
- 2 Site Map
- 3 Groundwater Contour Map, September 1, 2004

INTRODUCTION

The following report documents the semi-annual third quarter 2004 monitoring event conducted by Shaw Environmental, Inc. (Shaw) at the Hard Chrome Engineering facility, located at 750 107th Avenue, Oakland, California (see Figure 1). The site currently operates as a chrome plating facility and occupies approximately 27,500 square feet. Groundwater monitoring consists of collecting groundwater samples for laboratory analyses from each monitoring well, measuring groundwater elevation in each monitoring well, and evaluating groundwater gradient and direction of groundwater flow beneath the site.

Background

Based on the Preliminary Environmental Characterization, BSK & Associates, September 29, 1992, Summary and Evaluation of Environmental Conditions, Soil and Groundwater Investigation, March 24, 1998, EMCON, and Recommendations for Future Actions, Levine Fricke, July 2, 1996, it appears that groundwater and, to a lesser extent, soil beneath the site is impacted with chromium. As part of the previous investigations, soil borings SB-1 through SB-17 were drilled, and groundwater monitoring wells MW-1 and MW-1B through MW-6 were installed at the site. Site soil and groundwater impacted with chromium appears to be primarily located near a concrete-lined pit within the Hard Chrome facility (see Figure 2).

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SAMPLING AND ANALYSIS PROGRAM

Groundwater monitoring wells MW-1 through MW-6 were monitored and sampled consistent with the protocol presented in Appendix A. Shaw measured groundwater levels in each well on site using an electronic sounding device and reported the data on the monitoring well data forms included in Appendix B. Groundwater samples collected on September 1, 2004, were filtered in the field, and then submitted for chemical analysis.

Groundwater samples collected from wells MW-1 through MW-6 were submitted to California Laboratory Services (CLS) (a state-certified laboratory, ELAP No. 1233) and analyzed for the CAM 17 listed dissolved metals using U. S. Environmental Protection Agency (EPA) Methods 200.7/200.8, for dissolved hexavalent chromium using EPA Method 7196A, and for dissolved mercury by EPA Method 245.1. See Appendix C for certified analytical results and chain-of-custody reports.

RESULTS

Groundwater Flow and Gradient

Groundwater during the third quarter 2004 monitoring event was measured, and groundwater elevations were calculated in each well and used to construct a groundwater contour map (see Figure 3). During the third quarter 2004 monitoring event, groundwater flowed to the west with a gradient of approximately 0.0026. These flow conditions are generally similar to those previously reported and generally agree with assumed regional flow patterns.

Quality Control Results

Laboratory Quality Control (QC) data were evaluated to assess the acceptability of the analytical data, and therefore, their usefulness in interpreting groundwater quality. Laboratory QC results are included with the analytical reports in Appendix C. The QC evaluation is summarized below.

- All analyses were performed within EPA-recommended holding times.
- The results of the daily laboratory method blanks were acceptable.
- Matrix spike and matrix spike duplicates (MS/MSD) were performed by the laboratory. MS and MSD recoveries, and the relative percent difference (RPD) between duplicate results were within acceptance limits.
- The laboratory reported the results of laboratory control samples (LCS). Results were within acceptance limits except for cadmium and silver, but were determined to be acceptable based on MS/MSD recoveries and RPD's.
- Routine reporting limits were used to quantify and report the analytical results.

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The laboratory QC results indicate that the groundwater analytical data are of acceptable quality and can be used to evaluate groundwater quality.

Groundwater Analytical Results

Antimony was reported in well MW-2 at a concentration of 0.45 milligrams per liter (mg/L). Barium was reported in all wells at concentrations ranging between 0.067 and 0.34 mg/L. Chromium was reported in all wells except MW-1 and MW-6 at concentrations ranging between 0.045 and 450 mg/L. Hexavalent chromium was reported in wells MW-1B, MW-2, MW-3, MW-5, and MW-6 at concentrations ranging between 0.019 and 450 mg/L. Copper was reported in well MW-2 at a concentration of 1.4 mg/L. Mercury was reported in wells MW-1 and MW-2 at concentrations of 0.00024 and 0.00034 mg/L, respectively. Molybdenum was reported in well MW-2 at a concentration of 0.024 mg/L. Nickel was reported in wells MW-1 and MW-2 at concentrations of 0.034 and 0.4 mg/L, respectively. Zinc was reported in wells MW-2 and MW-5 at concentrations of 0.34 and 0.02 mg/L, respectively. Table 2 summarizes the groundwater analytical results.

SUMMARY AND CONCLUSIONS

Based on analytical results of samples collected from wells MW-1 through MW-6 on September 1, 2004, metals reported include antimony, barium, chromium, hexavalent chromium, copper, lead, mercury, molybdenum, nickel, and zinc. Impacted water extends from the existing sump (well MW-2) west (hydraulically downgradient) toward the locations of wells MW-5 and MW-1B. The lateral extent of impacted groundwater beneath the site appears to be defined to the north by monitoring well MW-4, and to the south and southwest by wells MW-1, MW-3, and MW-6. The lateral extent of impacted groundwater has not been defined to the east or northwest of the site; however, concentrations of total chromium and hexavalent chromium have generally declined in wells MW-1B, MW-2, and MW-5. Vertically, the extent of impacted groundwater has not been defined.

During the September 2004 monitoring event, the monitoring well exhibiting the greatest chromium impact was well MW-2, located adjacent to and hydraulically downgradient from the sump.

Concentrations of total chromium in wells MW-1B, MW-2, MW-3, and MW-5 currently exceed the maximum contaminant level (MCL) for this compound (.05 mg/L). Overall, concentration trends in these wells have declined with respect to historical levels. Total and hexavalent chromium concentrations in downgradient wells MW-1B and MW-5 show declining trends. Historical analytical results are summarized in Table 2.

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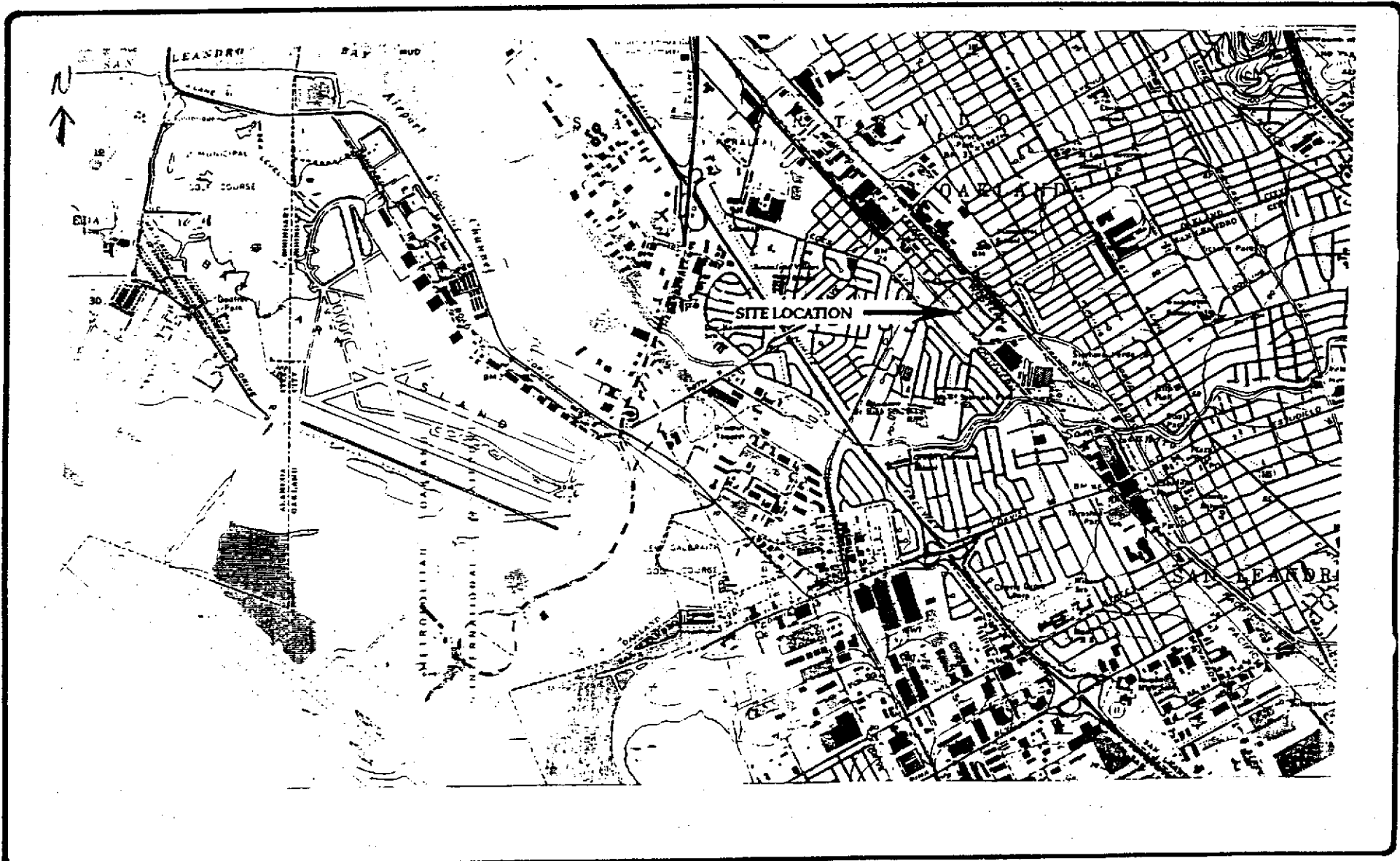
LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

Table 1
Groundwater Analytical Data
McLemore Trust
Hard Chrome Engineering Inc.
750 107th Avenue, Oakland, California

Well ID / Elevation (feet SSD)	Sampling Date	Depth to Water (feet bvec)	Groundwater Elevation (feet SSD)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	pH (units)
MCL				0.006	0.05	1	0.004	0.005	0.05	***	--	1.0**	--	0.002	--	0.1	0.05	0.1**	0.002	--	5.0**	--
<p>Note: Samples collected on 06/26/97 and 06/27/97 were unfiltered and analyzed for total metals; all other samples were field filtered and analyzed for dissolved metals. Concentrations in milligrams per liter (mg/L) NA = Not analyzed. NM = Not monitored * Total dissolved solids and total suspended solids were analyzed and detected at concentrations of 5,200 and 13,000 mg/L. MCL = California primary maximum contaminant level (MCL). ** = Secondary MCL. *** = Primary MCL to be adopted by January 1, 2004. --- = MCL not established.</p>																						

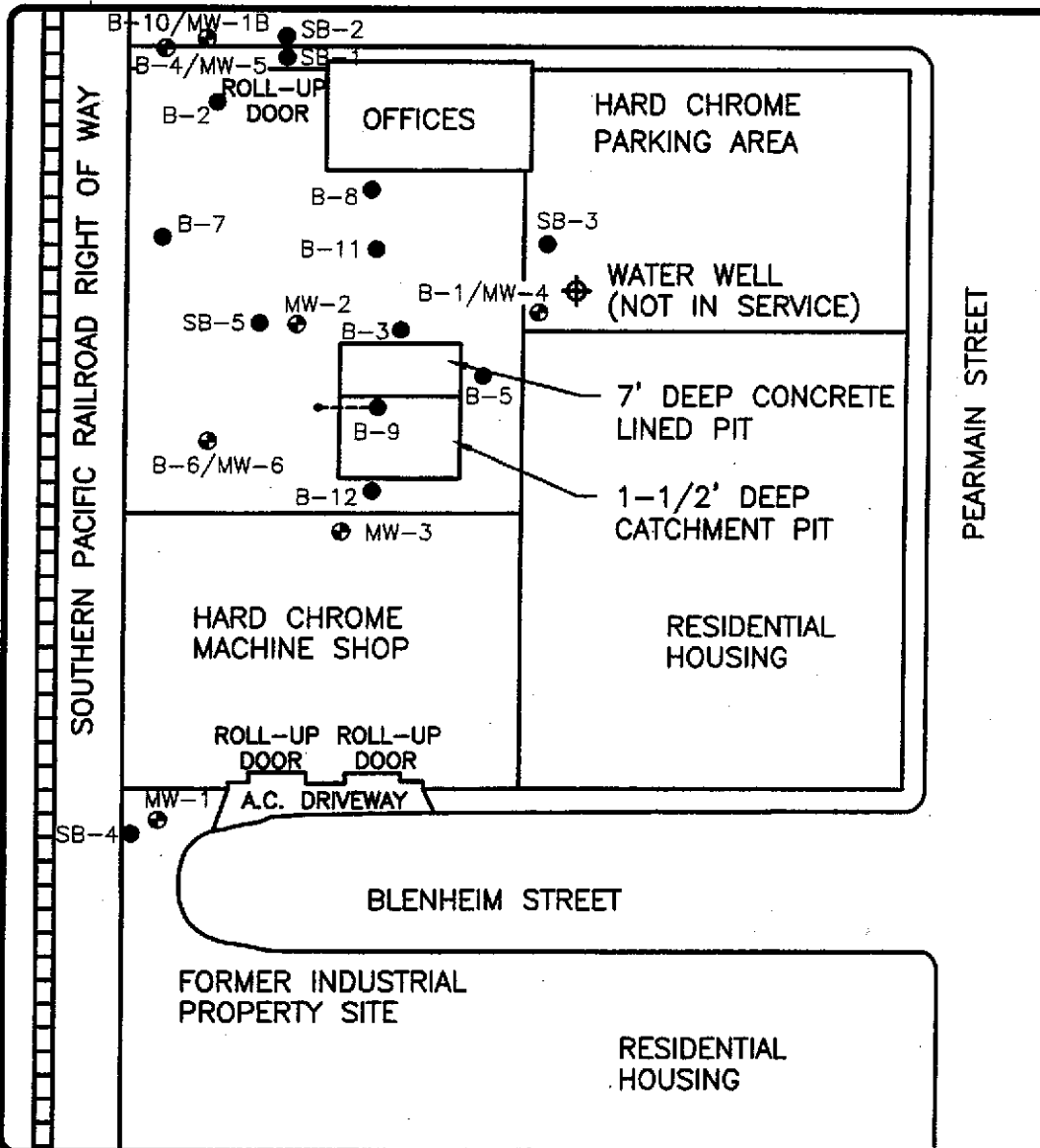


McLEMORE TRUST
HARD CHROME ENG. INC.,
750 1107th AVENUE, OAKLAND, CALIFORNIA

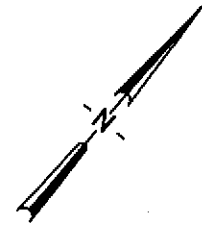
SITE LOCATION MAP

FIGURE
1
PROJECT NO.
22619-100.001

2-17-88
I:\DWG\2819\1\SITE\MAP.DWG



PEARMAIN STREET



LEGEND

- RESIDENTIAL HOUSING ● APPROXIMATE LOCATION OF SOIL BORINGS
- - - APPROXIMATE LOCATION OF ANGLED SOIL BORING
- ⊕ GROUNDWATER MONITORING WELLS

SCALE: 1" = 50'

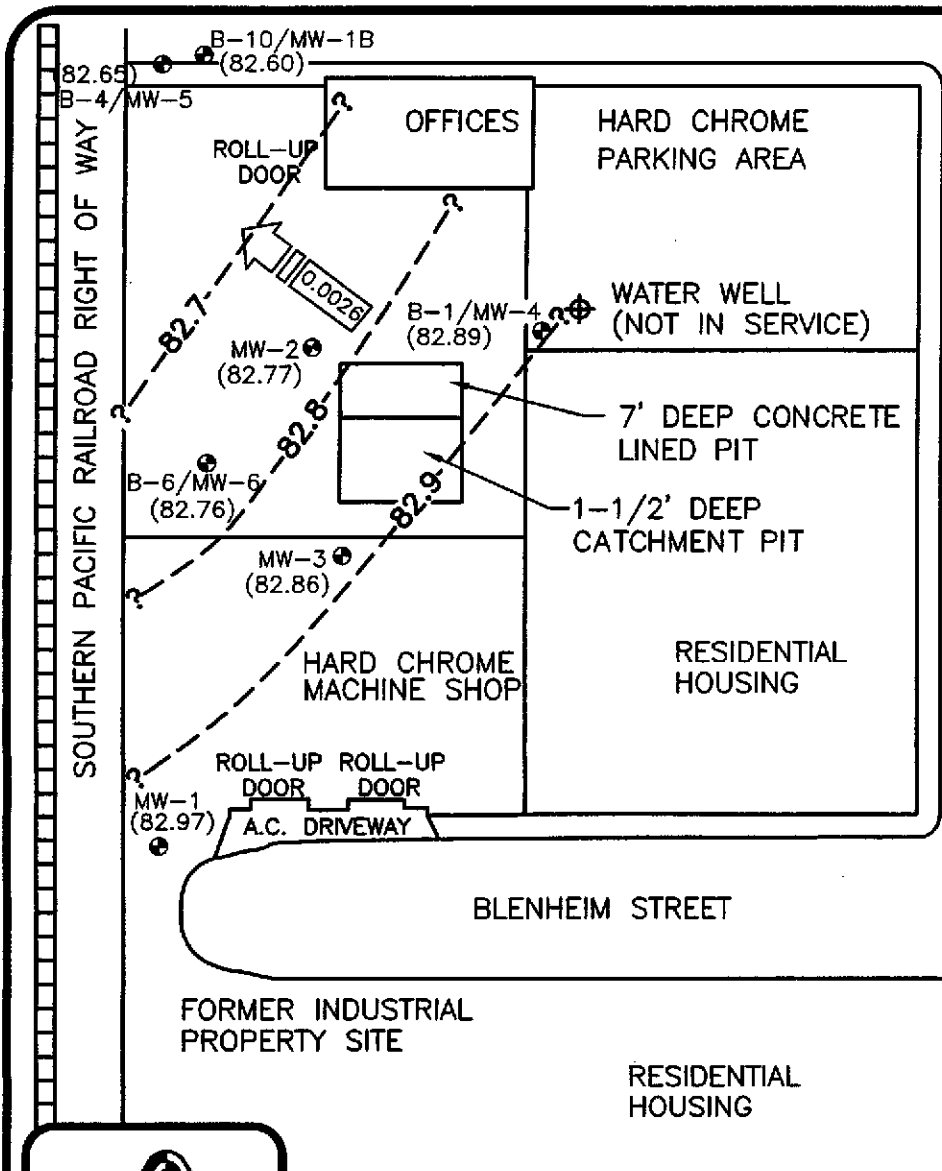
0 50' 100'

APPROXIMATE SCALE IN FEET

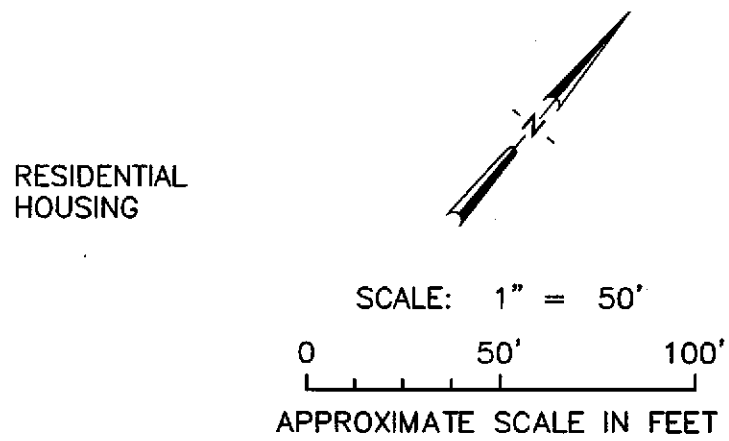


MCLEMORE TRUST
 HARD CHROME ENG. INC.,
 750 107TH AVENUE
 OAKLAND, CALIFORNIA
 SITE MAP

FIGURE
 2
 PROJECT NO.
 792775



- LEGEND**
- GROUNDWATER MONITORING WELLS
 - (82.97) GROUNDWATER ELEVATION (FEET)
 - - - GROUNDWATER CONTOURS
 - 0.0026 → GROUNDWATER FLOW DIRECTION



DATE Sep 04
 DWN CBD
 APP _____
 REV 0
 PROJECT NO. 792775

FIGURE 3
 MCLEMORE TRUST
 HARDCHROME ENG. INC.,
 750 107TH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP
 SEPTEMBER 1, 2004

APPENDIX A
SAMPLING AND ANALYSIS PROCEDURES

APPENDIX A

SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures for the water quality monitoring program at the site are contained in this appendix. The procedures are provided to ensure consistent and reproducible sampling methods, proper application of analytical methods, and accurate and precise analytical results. Finally, these procedures provide guidelines so that the overall objectives of the monitoring program are achieved.

The following documents have been used as guidelines for developing these procedures:

- Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities, Environmental Protection Agency (EPA)-530/SW-611, August 1977
- Resource Conservation and Recovery Act (RCRA) Groundwater Monitoring Technical Enforcement Guidance Document, Office of Solid Waste and Emergency Response (OSWER) 9950.1, September 1986
- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, 3rd edition, November 1986
- Methods for Organic Chemical Analysis of Municipal and Industrial Waste Water, EPA-600/4-82-057, July 1982
- Methods for Organic Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1983
- Leaking Underground Fuel Tank (LUFT) Field Manual, California State Water Resources Control Board, revised October 1989

Sample Collection

Sample collection procedures include equipment cleaning, water level and total well depth measurements, and well purging and sampling.

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Equipment Cleaning

Equipment used to sample groundwater is cleaned with detergent water and then rinsed with deionized water prior to sampling. Equipment surfaces that are placed in the well or that come into contact with groundwater during field sampling are steam cleaned with deionized water before the next well is purged or sampled.

Water Level, Floating Hydrocarbon, and Total Well Depth Measurements

Depth to water, floating hydrocarbon thickness (if any), and the total well depth are measured using an oil/water interface measuring system before purging and sampling occurs. The oil/water interface measuring system consists of a probe that emits a continuous audible tone when immersed in a nonconductive fluid, such as oil or gasoline, and an intermittent tone when immersed in a conductive fluid, such as water. The floating hydrocarbon thickness and water level are measured by lowering the probe into the well. Liquid levels are recorded relative to the tone emitted at the groundwater surface. The sonic probe is decontaminated by rinsing with deionized water or steam cleaned after each use. Bottom-filling, clear Teflon[®] bailer is used to verify floating hydrocarbon thickness measurements (if any) of less than 0.02 foot. Alternatively, an electric sounder and a bottom-filling Teflon bailer may be used to record floating hydrocarbon thickness and depth to water.

The electric sounder is a transistorized instrument that uses a reel-mounted, two-conductor, coaxial cable that connects the control panel to the sensor. Cable markings are stamped at 1-foot intervals. The water level is measured by lowering the sensor into the monitoring well. A low-current circuit is completed when the sensor contacts the water, which serves as an electrolyte. The current is amplified and fed into an indicator light and audible buzzer, signaling when water is contacted. A sensitivity control compensates for highly saline or conductive water. The electric sounder is decontaminated by being rinsed with deionized water after each use. The bailer is lowered to a point just below the liquid level, retrieved, and observed for floating hydrocarbon.

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Liquid measurements are recorded to the nearest 0.01 foot on the water sample field data sheet. The groundwater elevation at each monitoring well is calculated by subtracting the measured depth to water from the surveyed elevation of the top of the well casing. (Every attempt is made to measure depth to water for all wells on the same day.) Total well depth is measured by lowering the sensor to the bottom of the well. Total well depth, used to calculate purge volumes and to determine whether the well casing has sediment in it, is recorded to the nearest 0.1 foot on the water sample field data sheet.

Well Purging

Prior to sampling, a polyvinyl chloride (PVC) bailer, centrifugal pump, low-flow submersible pump, or Teflon bailer is used to purge standing water in the well casing and gravel pack from the monitoring well. Monitoring wells are purged according to the protocol presented in Figure A-1. In most monitoring wells, the amount of water purged before sampling is greater than or equal to three casing volumes. Some monitoring wells may be evacuated to dryness after removing fewer than three casing volumes. These low-yield monitoring wells are allowed to recharge for up to 24 hours. Samples are obtained as soon as the monitoring wells recharged to a level sufficient for sample collection. If insufficient water recharges after 24 hours, the monitoring well is recorded as dry for the sampling event.

Groundwater purged from the monitoring wells is stored on site in 55-gallon drums. Shaw arranges for transport and disposal of the purged groundwater through Delta Oil Field Services, Inc.

Field measurements of pH, specific conductance, and temperature are recorded on the water sample field data sheet. Figure A-2 shows an example of the water sample field data sheet on which field data are recorded. Field data sheets are reviewed for completeness by the sampling coordinator after the sampling event is completed.

The pH, specific conductance, and temperature meter are calibrated each day before field activities begin. The calibration is checked once each day to verify meter performance. Field meter calibrations are recorded on the water sample field data sheet.

Well Sampling

After the wells have been purged and have recharged sufficiently, groundwater samples are collected using a Teflon or disposable bailer. The color of the sampled groundwater is noted on the field data sheet. As a standard health and safety practice, the sampler does not smell the samples for odor. If the sampler notices an odor emanating from the sample without purposefully attempting to smell the sample, then the sampler will note the presence of odor in the remarks section of the water sample field data sheet. Problems encountered in the field during sampling, as well as maintenance and repair issues, are also noted in the comments section of the water sample field data sheet.

Sample Preservation and Handling

The following section specifies sample containers, preservation methods, and sample handling procedures.

Sample Containers and Preservation

Sample containers vary with each type of analytical parameter. Container types and materials are selected to be nonreactive with the particular analytical parameter tested.

Sample Handling

Sample containers are labeled immediately prior to sample collection. Samples are kept cool in an ice-chilled cooler until received by the laboratory. At the time of sampling, each sample is logged on a Shaw chain-of-custody record that accompanies the sample to the laboratory.

Samples that require overnight storage prior to shipping to the laboratory are kept cool (4°C) in a refrigerator. The refrigerator is kept in a warehouse, which is locked when not occupied by an Shaw employee. A sample/refrigerator log is kept to record the date and time that samples are placed into and removed from the refrigerator.

Samples are transferred from Shaw to a California State-approved laboratory by courier or taken directly to the laboratory by the environmental sampler. Sample shipments from

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Shaw to laboratories performing the selected analyses routinely occur within 24 hours of sample collection.

Sample Documentation

The following procedures are used during sampling and analysis to provide chain-of-custody control during sample handling from collection through storage. Sample documentation includes the use of the following:

- Water sample field data sheets to document sampling activities in the field
- Labels to identify individual samples
- Groundwater sampling and analysis request form documenting analyses requested by the project manager
- Chain-of-custody/laboratory analysis request form for documenting possession and transfer of samples and analyses to be performed

Field Logbook

In the field, the sampler records the following information on the water sample field data sheet (Figure A-2) for each sample collected:

- Project number
- Client's name
- Location
- Name of sampler
- Date and time
- Well accessibility and integrity
- Pertinent well data (e.g., casing diameter, depth to water, well depth)
- Calculated and actual purge volumes
- Purging equipment used
- Sampling equipment used
- Appearance of each sample (e.g., color, turbidity, sediment)
- Results of field analyses (temperature, pH, specific conductance)
- General comments

The water sample field data sheet is signed by the sampler and reviewed by the sampling coordinator.

Labels

Sample labels contain the following information:

- Project number
- Sample number (i.e., well designation)
- Sample depth
- Sampler's initials
- Date and time of collection
- Type of preservation used (if any)

Groundwater Sampling and Analysis Request Form

A groundwater sampling and analysis request form (Figure A-3) is used to communicate to the environmental sampler the requirements of the monitoring event. At a minimum, the groundwater sampling and analysis request form includes the following information:

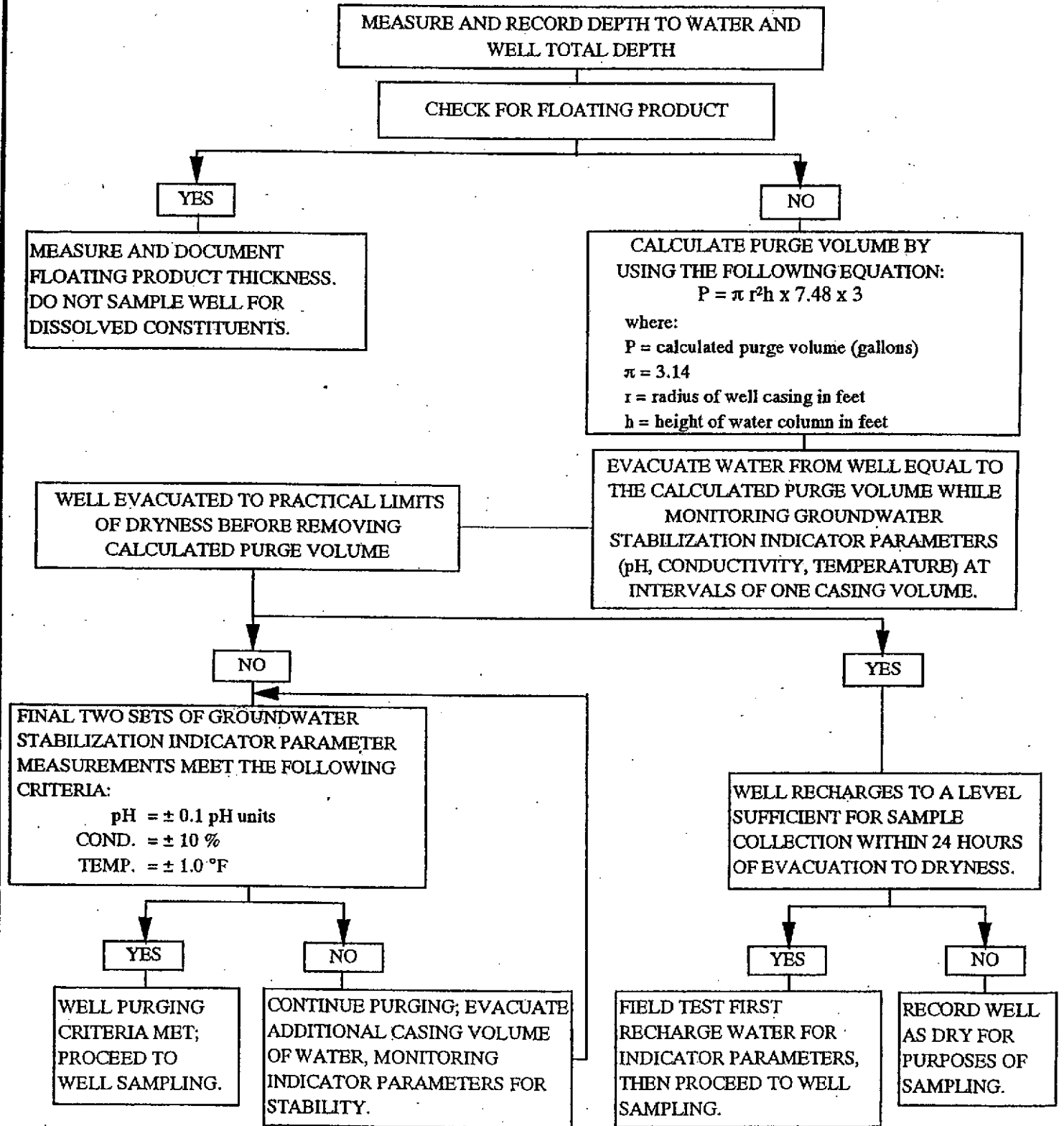
- Date scheduled
- Site-specific instructions
- Specific analyses requested
- Well number
- Well specifications (expected total depth, depth of water, and product thickness)

Sampling and Analysis Chain-of-Custody Record

The chain-of-custody record initiated at the time of sampling contains, at a minimum, the sample designation (including the depth at which the sample was collected), sample type, analytical request, date of sampling, and the name of the sampler. The record sheet is signed, timed, and dated by the sampler when transferring samples. The number of custodians in the chain of possession is minimized. A copy of the chain-of-custody record is returned to Shaw with the laboratory analytical results.

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MONITORING WELL PURGING PROTOCOL



WATER SAMPLE FIELD DATA SHEET

Rev. 5/96

PROJECT NO: _____ SAMPLE ID: _____
 PURGED BY: _____ CLIENT NAME: _____
 SAMPLED BY: _____ LOCATION: _____

TYPE: Groundwater _____ Surface Water _____ Leachate _____ Other _____

CASING DIAMETER (inches): 2 _____ 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): _____ VOLUME IN CASING (gal.): _____
 DEPTH OF WELL (feet): _____ CALCULATED PURGE (gal.): _____
 DEPTH OF WATER (feet): _____ ACTUAL PURGE VOL. (gal.): _____

DATE PURGED: _____ END PURGE: _____
 DATE SAMPLED: _____ SAMPLING TIME: _____

TIME (2400 HR)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm@25°C)	TEMPERATURE (°F)	TURBIDITY (visual/NTU)	TIME (2400 HR)

OTHER: _____ ODOR: _____
(COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT	SAMPLING EQUIPMENT
_____ 2" Bladder Pump _____ Centrifugal Pump _____ Submersible Pump _____ Well Wizard™ Other: _____	_____ Bailer (Teflon) _____ Bailer (PVC) _____ Bailer (Stainless Steel) _____ Dedicated _____ 2" Bladder Pump _____ Bomb Sampler _____ Dipper _____ Well Wizard™ _____ Bailer (Teflon) _____ Bailer (Stainless Steel) _____ Submersible Pump _____ Dedicated Other: _____

WELL INTEGRITY: _____ LOCK: _____

REMARKS: _____

pH, E.C., Temp. Meter Calibration: Date: _____ Time: _____ Meter Serial No.: _____
 E.C. 1000 _____ / _____ pH 7 _____ / _____ pH 10 _____ / _____ pH 4 _____ / _____
 Temperature °F _____

SIGNATURE: _____ REVIEWED BY: _____ PAGE _____ OF _____



WATER SAMPLE FIELD DATA SHEET

FIGURE
A-2

**IT/EMCON - SACRAMENTO
GROUNDWATER SAMPLING AND ANALYSIS REQUEST FORM**

PROJECT NAME :

SCHEDULED DATE :

SPECIAL INSTRUCTIONS / CONSIDERATIONS :

Project Authorization: _____
 Project No.: _____
 Task Code: _____
 Originals To: _____
 cc: _____

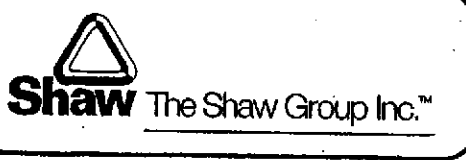
Well Lock Number (s)

CHECK BOX TO AUTHORIZE DATA ENTRY

Site Contact: _____ Name _____ Phone # _____

Well Number or Source	Casing Diameter (inches)	Casing Length (feet)	Depth to Water (feet)	ANAYSES REQUESTED

Laboratory and Lab QC Instructions:



SAMPLING AND ANALYSIS REQUEST FORM

**FIGURE
A-3**

APPENDIX B

FIELD REPORT AND FIELD DATA SHEETS

**FIELD REPORT
WATER LEVEL / FLOATING PRODUCT
SURVEY**

Shaw Environmental & Infrastructure, Inc.
1326 North Market Boulevard
Sacramento, California 95834
(916) 928-3300

PROJECT NO : 792775 / 00002000

LOCATION : 750 107th Avenue, Oakland

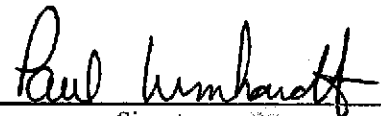
DATE: 9-1-04

CLIENT : Hard Chrome Engineering

SAMPLER : Paul Weinhardt

WELL ID	CASING ELEVATION (Feet, MSL)	TOTAL DEPTH (Feet)	PREVIOUS DEPTH TO WATER 2/24/2004	DEPTH TO WATER (Feet)	FLOATING PRODUCT THICKNESS (Feet)	COMMENTS
MW-1		24.40	14.63	17.26		
MW-2		23.90	15.16	17.61		
MW-3		23.50	15.09	17.51		
MW-4		22.90	15.00	17.41		
MW-5		23.20	14.19	16.64		
MW-6		22.70	15.27	17.72		
MW-1B		30.00	14.08	16.41		

Comments :



 Signature

WATER SAMPLE FIELD DATA SHEET

Rev. 1/87

PROJECT NO : 792775 / 00002000
 PURGED BY : Paul Weinhardt
 SAMPLED BY : Paul Weinhardt

SAMPLE ID : M601
 CLIENT NAME : Hard Chrome Engineering
 LOCATION : 750 107th Avenue, Oakland

TYPE: Groundwater Surface Water _____ Leachate _____ Other _____
 CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL) : _____ VOLUME IN CASING (gal.) : 1.16
 DEPTH OF WELL (feet) : 24.40 CALCULATED PURGE (gal.) : 349
 DEPTH TO WATER (feet) : 17.26 ACTUAL PURGE VOL. (gal.) : 375

DATE PURGED : 9-1-04 END PURGE : 910
 DATE SAMPLED : 9-1-04 SAMPLING TIME : 916

TIME (2400 HR)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm@25°C)	TEMPERATURE (°C)	COLOR (visual)	TURBIDITY (visual)
<u>904</u>	<u>1.25</u>	<u>703</u>	<u>513</u>	<u>19.2°</u>	<u>Cloudy</u>	<u>MOD</u>
<u>907</u>	<u>2.50</u>	<u>701</u>	<u>525</u>	<u>19.3°</u>	<u>Cloudy</u>	<u>MOD</u>
<u>910</u>	<u>3.75</u>	<u>701</u>	<u>526</u>	<u>19.10</u>	<u>Cloudy</u>	<u>MOD</u>

OTHER: _____ ODOR: _____
 (COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

<u>PURGING EQUIPMENT</u>		<u>SAMPLING EQUIPMENT</u>	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Bomb Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: G1000 LOCK: 0464

REMARKS: _____

pH, E.C., Temp. Meter Calibration: Date: _____ Time: _____ Meter Serial No.: _____
 E.C. 1000 _____ / _____ pH 7 _____ / _____ pH 10 _____ / _____ pH 4 _____ / _____
 Temperature °C _____

SIGNATURE: Paul Weinhardt REVIEWED BY: [Signature] PAGE 1 OF 7

WATER SAMPLE FIELD DATA SHEET

Rev. 1/97

PROJECT NO : 792775 / 00002000
 PURGED BY : Paul Weinhardt
 SAMPLED BY : Paul Weinhardt

SAMPLE ID : MW1B
 CLIENT NAME : Hard Chrome Engineering
 LOCATION : 750 107th Avenue, Oakland

TYPE: Groundwater Surface Water _____ Leachate _____ Other _____
 CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL) : _____ VOLUME IN CASING (gal.) : 221
 DEPTH OF WELL (feet) : 30.0 CALCULATED PURGE (gal.) : 664
 DEPTH TO WATER (feet) : 16.41 ACTUAL PURGE VOL. (gal.) : 675

DATE PURGED : 9.1.04 END PURGE : 1200
 DATE SAMPLED : 9.1.04 SAMPLING TIME : 1206

TIME (2400 HR)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm@25°C)	TEMPERATURE (°C)	COLOR (visual)	TURBIDITY (visual)
<u>1148</u>	<u>2.25</u>	<u>7.08</u>	<u>694</u>	<u>20.10</u>	<u>yellow</u>	<u>MOD</u>
<u>1154</u>	<u>4.50</u>	<u>7.01</u>	<u>674</u>	<u>19.80</u>	<u>yellow</u>	<u>MOD</u>
<u>1200</u>	<u>6.75</u>	<u>6.96</u>	<u>668</u>	<u>19.60</u>	<u>yellow</u>	<u>MOD</u>

OTHER: _____ ODOR: _____
 (COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Bomb Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: Good LOCK: 0464

REMARKS: _____

pH, E.C., Temp. Meter Calibration: Date: _____ Time: _____ Meter Serial No.: _____
 E.C. 1000 _____ / pH 7 _____ / pH 10 _____ / pH 4 _____ /
 Temperature °C _____
 SIGNATURE: Paul Weinhardt REVIEWED BY: [Signature] PAGE 2 OF 7

WATER SAMPLE FIELD DATA SHEET

Rev. 1/97

PROJECT NO: 792775 / 00002000
 PURGED BY: Paul Weinhardt
 SAMPLED BY: Paul Weinhardt

SAMPLE ID: MW2
 CLIENT NAME: Hard Chrome Engineering
 LOCATION: 750 107th Avenue, Oakland

TYPE: Groundwater Surface Water _____ Leachate _____ Other _____
 CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): _____ VOLUME IN CASING (gal.): 1.02
 DEPTH OF WELL (feet): 23.90 CALCULATED PURGE (gal.): 3.07
 DEPTH TO WATER (feet): 17.61 ACTUAL PURGE VOL. (gal.): 3.00

DATE PURGED: 9.1.04 END PURGE: 10.4
 DATE SAMPLED: 9.1.04 SAMPLING TIME: 10.19

TIME (2400 HR)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm@25°C)	TEMPERATURE (°C)	COLOR (visual)	TURBIDITY (visual)
<u>1008</u>	<u>1.0</u>	<u>7.02</u>	<u>1092</u>	<u>19.4°</u>	<u>yellow</u>	<u>MOD</u>
<u>1011</u>	<u>2.0</u>	<u>7.01</u>	<u>1140</u>	<u>18.9°</u>	<u>yellow</u>	<u>MOD</u>
<u>1014</u>	<u>3.0</u>	<u>7.01</u>	<u>1186</u>	<u>19.0°</u>	<u>yellow</u>	<u>MOD</u>

OTHER: _____ ODOR: _____
 (COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Bomb Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: Good LOCK: 0464

REMARKS: _____

pH, E.C., Temp. Meter Calibration: Date: _____ Time: _____ Meter Serial No.: _____
 E.C. 1000 _____ / _____ pH 7 _____ / _____ pH 10 _____ / _____ pH 4 _____ / _____
 Temperature °C _____

SIGNATURE: Paul Weinhardt REVIEWED BY: [Signature] PAGE 3 OF 7

WATER SAMPLE FIELD DATA SHEET

Rev. 1/97

PROJECT NO : 792775 / 00002000

SAMPLE ID : MW3

PURGED BY : Paul Weinhardt

CLIENT NAME : Hard Chrome Engineering

SAMPLED BY : Paul Weinhardt

LOCATION : 750 107th Avenue, Oakland

TYPE: Groundwater Surface Water _____ Leachate _____ Other _____

CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL) : _____ VOLUME IN CASING (gal.) : .97
 DEPTH OF WELL (feet) : 2350 CALCULATED PURGE (gal.) : 2.92
 DEPTH TO WATER (feet) : 17.51 ACTUAL PURGE VOL. (gal.) : 3.00

DATE PURGED : 9.11.04 END PURGE : 1116
 DATE SAMPLED : 9.11.04 SAMPLING TIME : 1122

TIME (2400 HR)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm@25°C)	TEMPERATURE (°C)	COLOR (visual)	TURBIDITY (visual)
<u>1110</u>	<u>1.0</u>	<u>7.06</u>	<u>375</u>	<u>19.10</u>	<u>Brown</u>	<u>Any</u>
<u>1113</u>	<u>2.0</u>	<u>7.01</u>	<u>417</u>	<u>19.20</u>	<u>Brown</u>	<u>Any</u>
<u>1116</u>	<u>3.0</u>	<u>7.00</u>	<u>424</u>	<u>19.10</u>	<u>Brown</u>	<u>Any</u>

OTHER: _____ ODOR: _____
(COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1) : _____

PURGING EQUIPMENT

SAMPLING EQUIPMENT

<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Bomb Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated

Other: _____ Other: _____

WELL INTEGRITY: Good LOCK: 0464

REMARKS: _____

pH, E.C., Temp. Meter Calibration: Date: _____ Time: _____ Meter Serial No.: _____
 E.C. 1000 _____ / _____ pH 7 _____ / _____ pH 10 _____ / _____ pH 4 _____ / _____

Temperature °C _____
 SIGNATURE: Paul Weinhardt REVIEWED BY: [Signature] PAGE 4 OF 7

WATER SAMPLE FIELD DATA SHEET

Rev: 1/97

PROJECT NO : 792775 / 00002000
 PURGED BY : Paul Weinhardt
 SAMPLED BY : Paul Weinhardt

SAMPLE ID : MW4
 CLIENT NAME : Hard Chrome Engineering
 LOCATION : 750 107th Avenue, Oakland

TYPE: Groundwater Surface Water _____ Leachate _____ Other _____
 CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL) : _____ VOLUME IN CASING (gal.) : .89
 DEPTH OF WELL (feet) : 22.90 CALCULATED PURGE (gal.) : 2.68
 DEPTH TO WATER (feet) : 17.41 ACTUAL PURGE VOL. (gal.) : 3.00

DATE PURGED : 9-1-04 END PURGE : 946
 DATE SAMPLED : 9-1-04 SAMPLING TIME : 952

TIME (2400 HR)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm@25°C)	TEMPERATURE (°C)	COLOR (visual)	TURBIDITY (visual)
<u>940</u>	<u>1.0</u>	<u>7.04</u>	<u>439</u>	<u>20.6°</u>	<u>cloudy</u>	<u>MOD</u>
<u>943</u>	<u>2.0</u>	<u>7.01</u>	<u>426</u>	<u>19.9°</u>	<u>cloudy</u>	<u>MOD</u>
<u>946</u>	<u>3.0</u>	<u>6.96</u>	<u>426</u>	<u>19.7°</u>	<u>cloudy</u>	<u>MOD</u>

OTHER: _____ ODOR: _____
(COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Bomb Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: Good LOCK: 0464

REMARKS: _____

pH, E.C., Temp. Meter Calibration: Date: _____ Time: _____ Meter Serial No.: _____
 E.C. 1000 _____ / _____ pH 7 _____ / _____ pH 10 _____ / _____ pH 4 _____ / _____
 Temperature °C _____

SIGNATURE: Paul Weinhardt REVIEWED BY: [Signature] PAGE 5 OF 7

WATER SAMPLE FIELD DATA SHEET

Rev. 1/97

PROJECT NO: 792775 / 00002000
 PURGED BY: Paul Weinhardt
 SAMPLED BY: Paul Weinhardt

SAMPLE ID: MW35
 CLIENT NAME: Hard Chrome Engineering
 LOCATION: 750 107th Avenue, Oakland

TYPE: Groundwater Surface Water _____ Leachate _____ Other _____
 CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): _____	VOLUME IN CASING (gal.): <u>1.06</u>
DEPTH OF WELL (feet): <u>23.20</u>	CALCULATED PURGE (gal.): <u>3.20</u>
DEPTH TO WATER (feet): <u>16.64</u>	ACTUAL PURGE VOL. (gal.): <u>3.00</u>

DATE PURGED: 9-1-04 END PURGE: 1225
 DATE SAMPLED: 9-1-04 SAMPLING TIME: 1232

TIME (2400 HR)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm@25°C)	TEMPERATURE (°C)	COLOR (visual)	TURBIDITY (visual)
<u>1217</u>	<u>1.0</u>	<u>7.06</u>	<u>584</u>	<u>19.9°</u>	<u>Brown</u>	<u>Any</u>
<u>1221</u>	<u>2.0</u>	<u>7.01</u>	<u>573</u>	<u>19.6°</u>	<u>Brown</u>	<u>Any</u>
<u>1225</u>	<u>3.0</u>	<u>6.94</u>	<u>564</u>	<u>19.5°</u>	<u>Brown</u>	<u>Any</u>

OTHER: _____ ODOR: _____
(COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Bomb Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: Good LOCK: 0464

REMARKS: _____

pH, E.C., Temp. Meter Calibration: Date: _____ Time: _____ Meter Serial No.: _____
 E.C. 1000 _____ / pH 7 _____ / pH 10 _____ / pH 4 _____ /
 Temperature °C _____

SIGNATURE: Paul Weinhardt REVIEWED BY: [Signature] PAGE 6 OF 7

WATER SAMPLE FIELD DATA SHEET

Rev. 1/97

PROJECT NO : 792775 / 00002000
 PURGED BY : Paul Weinhardt
 SAMPLED BY : Paul Weinhardt

SAMPLE ID : Mw6
 CLIENT NAME : Hard Chrome Engineering
 LOCATION : 750 107th Avenue, Oakland

TYPE: Groundwater Surface Water _____ Leachate _____ Other _____
 CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL) : _____ VOLUME IN CASING (gal.) : 1.81
 DEPTH OF WELL (feet) : 22.70 CALCULATED PURGE (gal.) : 2.43
 DEPTH TO WATER (feet) : 17.2 ACTUAL PURGE VOL. (gal.) : 3.00

DATE PURGED : 9-1-04 END PURGE : 1048
 DATE SAMPLED : 9-1-04 SAMPLING TIME : 1056

TIME (2400 HR)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm@25°C)	TEMPERATURE (°C)	COLOR (visual)	TURBIDITY (visual)
<u>1042</u>	<u>1.0</u>	<u>7.0</u>	<u>415</u>	<u>18.90</u>	<u>Brown</u>	<u>Hazy</u>
<u>1045</u>	<u>2.0</u>	<u>7.02</u>	<u>362</u>	<u>18.90</u>	<u>Brown</u>	<u>Hazy</u>
<u>1048</u>	<u>3.0</u>	<u>7.03</u>	<u>351</u>	<u>18.8</u>	<u>Brown</u>	<u>Hazy</u>

OTHER: _____ ODOR: _____
(COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1) : _____

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Bomb Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Disposal Bailer	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: Good LOCK: _____

REMARKS: _____

pH, E.C., Temp. Meter Calibration: Date: _____ Time: _____ Meter Serial No.: _____
 E.C. 1000 _____ / _____ pH 7 _____ / _____ pH 10 _____ / _____ pH 4 _____ / _____
 Temperature °C _____

SIGNATURE: Paul Weinhardt REVIEWED BY: [Signature] PAGE 7 OF 7

APPENDIX C

CERTIFIED ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY REPORTS

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 09, 2004

CLS Work Order #: CNI0018
COC #: None

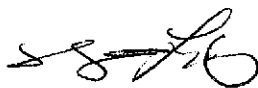
David Herzog
Shaw E & I, Inc.
4005 Port Chicago Highway
Concord, CA 945201120

Project Name: Hard Chrome Engineering

Enclosed are the results of analyses for samples received by the laboratory on 09/01/04 14:15. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

09/09/04 13:27

Shaw E & I, Inc.
4005 Port Chicago Highway
Concord CA, 945201120

Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

CAM 17 Metals (Dissolved Metals)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (CNI0018-01) Water Sampled: 09/01/04 09:16 Received: 09/01/04 14:15									
Antimony	ND	50	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Barium	110	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	ND	20	"	"	"	"	"	"	
Copper	ND	20	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	34	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	ND	20	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	CN06791	09/02/04	09/02/04	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	0.24	0.20	"	"	CN06781	09/02/04	09/02/04	EPA 245.1	
MW-2 (CNI0018-02) Water Sampled: 09/01/04 10:19 Received: 09/01/04 14:15									
Antimony	450	50	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Barium	340	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	450000	100	"	5	"	"	"	"	
Copper	1400	20	"	1	"	"	"	"	
Molybdenum	24	20	"	"	"	"	"	"	
Nickel	400	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	340	20	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	CN06791	09/02/04	09/02/04	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	0.34	0.20	"	"	CN06781	09/02/04	09/02/04	EPA 245.1	
MW-3 (CNI0018-03) Water Sampled: 09/01/04 11:22 Received: 09/01/04 14:15									
Antimony	ND	50	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Barium	76	20	"	"	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

09/09/04 13:27

Shaw E & I, Inc.
4005 Port Chicago Highway
Concord CA, 945201120

Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

CAM 17 Metals (Dissolved Metals)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (CNI0018-03) Water Sampled: 09/01/04 11:22 Received: 09/01/04 14:15									
Beryllium	ND	5.0	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	190	20	"	"	"	"	"	"	
Copper	ND	20	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	ND	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	ND	20	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	CN06791	09/02/04	09/02/04	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	ND	0.20	"	"	CN06781	09/02/04	09/02/04	EPA 245.1	
MW-4 (CNI0018-04) Water Sampled: 09/01/04 09:52 Received: 09/01/04 14:15									
Antimony	ND	50	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Barium	79	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	45	20	"	"	"	"	"	"	
Copper	ND	20	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	ND	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	ND	20	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	CN06791	09/02/04	09/02/04	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	ND	0.20	"	"	CN06781	09/02/04	09/02/04	EPA 245.1	
MW-5 (CNI0018-05) Water Sampled: 09/01/04 12:32 Received: 09/01/04 14:15									
Antimony	ND	50	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Barium	110	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

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916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

09/09/04 13:27

Shaw E & I, Inc.
4005 Port Chicago Highway
Concord CA, 945201120

Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

CAM 17 Metals (Dissolved Metals)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (CNI0018-05) Water Sampled: 09/01/04 12:32 Received: 09/01/04 14:15									
Cobalt	ND	20	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Chromium	15000	20	"	"	"	"	"	"	
Copper	ND	20	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	ND	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	ND	20	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	CN06791	09/02/04	09/02/04	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	ND	0.20	"	"	CN06781	09/02/04	09/02/04	EPA 245.1	
MW-6 (CNI0018-06) Water Sampled: 09/01/04 10:56 Received: 09/01/04 14:15									
Antimony	ND	50	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Barium	67	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	ND	20	"	"	"	"	"	"	
Copper	ND	20	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	ND	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	20	20	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	CN06791	09/02/04	09/02/04	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	ND	0.20	"	"	CN06781	09/02/04	09/02/04	EPA 245.1	
MW-1B (CNI0018-07) Water Sampled: 09/01/04 12:06 Received: 09/01/04 14:15									
Antimony	ND	50	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Barium	68	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	23000	20	"	"	"	"	"	"	

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CALIFORNIA LABORATORY SERVICES

09/09/04 13:27

Shaw E & I, Inc.
4005 Port Chicago Highway
Concord CA, 945201120

Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

CAM 17 Metals (Dissolved Metals)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1B (CNI0018-07) Water Sampled: 09/01/04 12:06 Received: 09/01/04 14:15									
Copper	ND	20	µg/L	1	CN06792	09/02/04	09/02/04	EPA 200.7	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	ND	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	ND	20	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	CN06791	09/02/04	09/02/04	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	ND	0.20	"	"	CN06781	09/02/04	09/02/04	EPA 245.1	

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4005 Port Chicago Highway
Concord CA, 945201120

Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (CNI0018-01) Water	Sampled: 09/01/04 09:16 Received: 09/01/04 14:15								
Hexavalent Chromium	ND	10	µg/L	1	CN06774	09/01/04	09/01/04	EPA 7196A	
MW-2 (CNI0018-02) Water	Sampled: 09/01/04 10:19 Received: 09/01/04 14:15								
Hexavalent Chromium	450000	10000	µg/L	1000	CN06774	09/01/04	09/01/04	EPA 7196A	
MW-3 (CNI0018-03) Water	Sampled: 09/01/04 11:22 Received: 09/01/04 14:15								
Hexavalent Chromium	19	10	µg/L	1	CN06774	09/01/04	09/01/04	EPA 7196A	
MW-4 (CNI0018-04) Water	Sampled: 09/01/04 09:52 Received: 09/01/04 14:15								
Hexavalent Chromium	ND	10	µg/L	1	CN06774	09/01/04	09/01/04	EPA 7196A	
MW-5 (CNI0018-05) Water	Sampled: 09/01/04 12:32 Received: 09/01/04 14:15								
Hexavalent Chromium	6900	1000	µg/L	100	CN06774	09/01/04	09/01/04	EPA 7196A	
MW-6 (CNI0018-06) Water	Sampled: 09/01/04 10:56 Received: 09/01/04 14:15								
Hexavalent Chromium	19	10	µg/L	1	CN06774	09/01/04	09/01/04	EPA 7196A	
MW-1B (CNI0018-07) Water	Sampled: 09/01/04 12:06 Received: 09/01/04 14:15								
Hexavalent Chromium	10000	1000	µg/L	100	CN06774	09/01/04	09/01/04	EPA 7196A	

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Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

CAM 17 Metals (Dissolved Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CN06781 - EPA 7470A										
Blank (CN06781-BLK1)										
Prepared & Analyzed: 09/02/04										
Mercury	ND	0.20	µg/L							
LCS (CN06781-BS1)										
Prepared & Analyzed: 09/02/04										
Mercury	5.03	0.20	µg/L	5.00		101	75-125			
LCS Dup (CN06781-BSD1)										
Prepared & Analyzed: 09/02/04										
Mercury	5.20	0.20	µg/L	5.00		104	75-125	3.32	25	
Matrix Spike (CN06781-MS1)										
Source: CNI0006-11 Prepared & Analyzed: 09/02/04										
Mercury	5.14	0.20	µg/L	5.00	0.025	102	75-125			
Matrix Spike Dup (CN06781-MSD1)										
Source: CNI0006-11 Prepared & Analyzed: 09/02/04										
Mercury	4.86	0.20	µg/L	5.00	0.025	96.7	75-125	5.60	25	
Batch CN06791 - EPA 3020A										
Blank (CN06791-BLK1)										
Prepared & Analyzed: 09/02/04										
Arsenic	ND	5.0	µg/L							
Lead	ND	5.0	"							
Selenium	ND	5.0	"							
Thallium	ND	10	"							
LCS (CN06791-BS1)										
Prepared & Analyzed: 09/02/04										
Arsenic	97.0	5.0	µg/L	100		97.0	80-120			
Lead	86.4	5.0	"	100		86.4	80-120			
Selenium	90.3	5.0	"	100		90.3	80-120			
Thallium	91.6	10	"	100		91.6	80-120			

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Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

CAM 17 Metals (Dissolved Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CN06791 - EPA 3020A

LCS Dup (CN06791-BSD1)

Prepared & Analyzed: 09/02/04

Arsenic	97.5	5.0	µg/L	100		97.5	80-120	0.514	20	
Lead	88.0	5.0	"	100		88.0	80-120	1.83	20	
Selenium	90.5	5.0	"	100		90.5	80-120	0.221	20	
Thallium	93.5	10	"	100		93.5	80-120	2.05	20	

Matrix Spike (CN06791-MS1)

Source: CNI0018-01

Prepared & Analyzed: 09/02/04

Arsenic	101	5.0	µg/L	100	0.80	100	75-125			
Lead	88.0	5.0	"	100	ND	88.0	75-125			
Selenium	93.6	5.0	"	100	ND	93.6	75-125			
Thallium	95.5	10	"	100	ND	95.5	75-125			

Matrix Spike Dup (CN06791-MSD1)

Source: CNI0018-01

Prepared & Analyzed: 09/02/04

Arsenic	101	5.0	µg/L	100	0.80	100	75-125	0.00	25	
Lead	86.4	5.0	"	100	ND	86.4	75-125	1.83	25	
Selenium	92.3	5.0	"	100	ND	92.3	75-125	1.40	25	
Thallium	92.4	10	"	100	ND	92.4	75-125	3.30	25	

Batch CN06792 - EPA 3010A

Blank (CN06792-BLK1)

Prepared & Analyzed: 09/02/04

Antimony	ND	50	µg/L							
Barium	ND	20	"							
Beryllium	ND	5.0	"							
Cadmium	ND	10	"							
Cobalt	ND	20	"							
Chromium	ND	20	"							
Copper	ND	20	"							
Molybdenum	ND	20	"							
Nickel	ND	20	"							
Silver	ND	10	"							
Vanadium	ND	20	"							
Zinc	ND	20	"							

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Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018

COC #: None

CAM 17 Metals (Dissolved Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CN06792 - EPA 3010A

LCS (CN06792-BS1)

Prepared & Analyzed: 09/02/04

Antimony	466	50	µg/L	500		93.2	80-120			
Barium	2080	20	"	2000		104	80-120			
Beryllium	52.4	5.0	"	50.0		105	80-120			
Cadmium	44.4	10	"	50.0		88.8	80-120			
Cobalt	517	20	"	500		103	80-120			
Chromium	224	20	"	200		112	80-120			
Copper	257	20	"	250		103	80-120			
Molybdenum	487	20	"	500		97.4	80-120			
Nickel	509	20	"	500		102	80-120			
Silver	58.4	10	"	50.0		117	80-120			
Vanadium	524	20	"	500		105	80-120			
Zinc	519	20	"	500		104	80-120			

LCS Dup (CN06792-BS1)

Prepared & Analyzed: 09/02/04

Antimony	473	50	µg/L	500		94.6	80-120	1.49	20	
Barium	2060	20	"	2000		103	80-120	0.966	20	
Beryllium	51.8	5.0	"	50.0		104	80-120	1.15	20	
Cadmium	41.2	10	"	50.0		82.4	80-120	7.48	20	
Cobalt	510	20	"	500		102	80-120	1.36	20	
Chromium	215	20	"	200		108	80-120	4.10	20	
Copper	258	20	"	250		103	80-120	0.388	20	
Molybdenum	482	20	"	500		96.4	80-120	1.03	20	
Nickel	504	20	"	500		101	80-120	0.987	20	
Silver	59.0	10	"	50.0		118	80-120	1.02	20	
Vanadium	518	20	"	500		104	80-120	1.15	20	
Zinc	493	20	"	500		98.6	80-120	5.14	20	

Matrix Spike (CN06792-MS1)

Source: CNI0018-01

Prepared & Analyzed: 09/02/04

Antimony	459	50	µg/L	500	ND	91.8	75-125			
Barium	2130	20	"	2000	110	101	75-125			
Beryllium	51.8	5.0	"	50.0	ND	104	75-125			
Cadmium	40.7	10	"	50.0	2.0	77.4	75-125			
Cobalt	490	20	"	500	ND	98.0	75-125			
Chromium	212	20	"	200	ND	106	75-125			
Copper	248	20	"	250	ND	99.2	75-125			
Molybdenum	468	20	"	500	ND	93.6	75-125			
Nickel	509	20	"	500	34	95.0	75-125			

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Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

CAM 17 Metals (Dissolved Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CN06792 - EPA 3010A

Matrix Spike (CN06792-MS1)

Source: CNI0018-01

Prepared & Analyzed: 09/02/04

Silver	61.7	10	µg/L	50.0	ND	123	75-125			
Vanadium	510	20	"	500	2.2	102	75-125			
Zinc	481	20	"	500	4.5	95.3	75-125			

Matrix Spike Dup (CN06792-MSD1)

Source: CNI0018-01

Prepared & Analyzed: 09/02/04

Antimony	462	50	µg/L	500	ND	92.4	75-125	0.651	25	
Barium	2150	20	"	2000	110	102	75-125	0.935	25	
Beryllium	52.6	5.0	"	50.0	ND	105	75-125	1.53	25	
Cadmium	40.6	10	"	50.0	2.0	77.2	75-125	0.246	25	
Cobalt	498	20	"	500	ND	99.6	75-125	1.62	25	
Chromium	214	20	"	200	ND	107	75-125	0.939	25	
Copper	254	20	"	250	ND	102	75-125	2.39	25	
Molybdenum	476	20	"	500	ND	95.2	75-125	1.69	25	
Nickel	519	20	"	500	34	97.0	75-125	1.95	25	
Silver	58.1	10	"	50.0	ND	116	75-125	6.01	25	
Vanadium	515	20	"	500	2.2	103	75-125	0.976	25	
Zinc	485	20	"	500	4.5	96.1	75-125	0.828	25	

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4005 Port Chicago Highway
Concord CA, 945201120

Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018
COC #: None

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CN06774 - General Preparation

Blank (CN06774-BLK1)				Prepared & Analyzed: 09/01/04						
Hexavalent Chromium	ND	10	µg/L							
LCS (CN06774-BS1)				Prepared & Analyzed: 09/01/04						
Hexavalent Chromium	241	10	µg/L	250		96.4	85-115			
LCS Dup (CN06774-BSD1)				Prepared & Analyzed: 09/01/04						
Hexavalent Chromium	239	10	µg/L	250		95.6	85-115	0.833	20	
Matrix Spike (CN06774-MS1)				Source: CNI0018-04 Prepared & Analyzed: 09/01/04						
Hexavalent Chromium	255	10	µg/L	250	9.0	98.4	85-115			
Matrix Spike Dup (CN06774-MSD1)				Source: CNI0018-04 Prepared & Analyzed: 09/01/04						
Hexavalent Chromium	258	10	µg/L	250	9.0	99.6	85-115	1.17	20	

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Project: Hard Chrome Engineering
Project Number: 792775/00002000
Project Manager: David Herzog

CLS Work Order #: CNI0018

COC #: None

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

