

D.C. - 7440

# California Regional Water Quality Control Board

## Los Angeles Region

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**M. Rooney**  
Secretary for  
Environmental  
Protection

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**Pete Wilson**  
Governor

August 10, 1998

Mr. Albert Galen  
The Estate of Albert Levinson, dba Brea Cañon Oil Co.  
1345 East Center Court Drive  
Covina, CA 91724

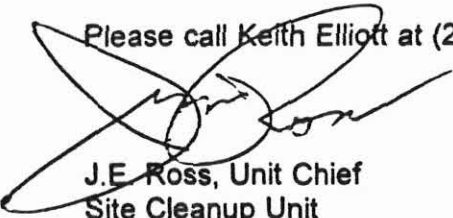
### THE ESTATE OF ALBERT LEVINSON, DBA BREA CAÑON OIL COMPANY - REVISED WASTE DISCHARGE REQUIREMENTS (FILE NO. 92-32)

Reference is made to our letter dated July 7, 1998, transmitting amended tentative Revised Waste Discharge Requirements (WDRs) for the subject site.

Pursuant to Section 13263 of the California Code of Regulations, this Regional Board at a public meeting held on August 3, 1998, reviewed the tentative Revised Waste Discharge Requirements, considered all factors in the case, and adopted Revised Waste Discharge Requirements Order No. 98-064 and a Revised Monitoring and Reporting Program No. CI 7440 (copy attached) relative to the discharge.

The "Monitoring and Reporting Program" requires you to implement the monitoring program and submit your first monitoring report under this program by the fifteenth of January 1999. Please reference all technical and monitoring reports to our Compliance File number CI 7440. We would appreciate it if you would not combine other reports, such as progress or technical, with your monitoring reports but would submit each type of report as a separate document. All monitoring reports should be sent to the Regional Board, ATTN: Technical Support Unit.

Please call Keith Elliott at (213) 266-7614 if you have any questions.



J.E. Ross, Unit Chief  
Site Cleanup Unit

cc: See Mailing List

Enclosures

**California Environmental Protection Agency**

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*Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.*

MAILING LIST

cc: Jorge Leon, State Water Resources Control Board, Office of Chief Counsel  
John Youngerman, State Water Resources Control Board, Division of Water Quality  
Hamid Saebfar, Department of Toxic Substance Control, Region 3 - Glendale  
Department of Interior, U. S. Fish and Wildlife Service  
Department of Fish and Game, Region 5  
Tom Klinger, Los Angeles County, Fire Department - Health Hazardous Materials Division  
South Coast Air Quality Management District  
City of Carson, Department of Environmental Affairs  
Gwen Tellegan, The Estate of Albert Levinson  
Mark Shifflett, QST Environmental Inc.  
Maureen Bright, Bright & Brown

***California Environmental Protection Agency***

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State of California  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION

ORDER NO. 98-064  
REVISED WASTE DISCHARGE REQUIREMENTS  
FOR  
THE ESTATE OF ALBERT LEVINSON  
DBA BREA CAÑON OIL COMPANY  
(Dominguez Hills and Wilmington Oil Fields,  
Los Angeles County, California)

(FILE NO. 92-032)

The California Regional Water Quality Control Board, Los Angeles Region, finds:

1. The Estate of Albert Levinson, doing business as Brea Cañon Oil Company, hereinafter called the Discharger, operates the Callender Lease (about 633 acres) and the Hellman Lease (about 810 acres) in the Dominguez Oil Field (see Attachment A) which is an active oil and gas producing field. Also, the Discharger operates the Joughin Lease (about 814 acres) and South Torrance Lease (about 176 acres) in the Wilmington Oil Field (see Attachment B). These oil fields are active oil and gas producing fields, in operation since the 1920's. The Callender Lease is located at 17810 Central Avenue, and the Hellman Lease is located at 1441 East Victoria Street, in the City of Carson. The Joughin Lease is located at 23903 South Normandie and the Torrance Lease is located at 630 West Lomita Boulevard in the City of Los Angeles (portions of these leases are in the unincorporated section of Los Angeles County).
2. The Discharger proposes to sell the Callender and Helman Leases (Tracts 52103, 51770 and Parcel Map No. 24971) for development consistent with a Specific Plan prepared for the City of Carson dated September 1995. The Discharger proposes to remediate and sell portions of the Joughin and South Torrance Leases for development.
3. On September 26, 1994, this Regional Board adopted Waste Discharge Requirements Order No. 94-104 and Monitoring and Reporting Program No. CI 7440 for land treatment, at the Dominguez Hills Oil Field Callender and Hellman Leases, of 100,000 cubic yards of petroleum contaminated soils and production solids from the Dominguez Hills and Wilmington Oil Fields. The purpose for this activity is to clean up contaminated soil resulting from previous oil production operations and develop the site for residential housing. On May 12, 1997, this Regional Board adopted Revised Waste Discharge Requirements Order No. 97-065 and a Revised Monitoring and Reporting Program to increase the volume discharge to 200,000 cubic yards.
4. The Discharger has complied with the requirements of Orders No. 94-104 and No. 97-065 and has treated approximately 170,000 cubic yards of material to date in three land

September 26, 1994  
Revised May 12, 1997  
Revised August 3, 1998

- treatment units located on the Callender Lease. The latest compliance inspection at the site was in June 1998.
5. On January 29, 1998, the Discharger informed staff that mercury and hydrazine were identified in soils at the site. The mercury was found in an area less than 25 square feet and collected in drums for off-site disposal at a licensed disposal site. The hydrazine was found in surface soil samples across the western half of the site. The Discharger has amended the remedial work plan for the subject project and filed a Report of Waste Discharge for a material change of character of waste discharged in accordance with Section 13260 of the California Water Code and to increase the volume of material to be treated to 300,000 cubic yards. Only low concentrations of hydrazine have been identified in site soils at the Callender Lease outside the former Deep Water Iodide source area, and the Discharger has requested cleanup levels for this compound in treated soils.
  6. Land treatment is the primary treatment methodology utilized for treatment of petroleum-hydrocarbon contamination and has been proven to be an efficient and economical means of mitigation. The land treatment process, consisting primarily of nutrient and/or bacterial addition to soil, and soil aeration. Other treatment technologies including, low temperature thermal desorption, bio-piles, and vapor extraction could also be utilized without threat to water quality.
  7. The soil discharge limits in these Waste Discharge Requirements are below applicable U.S. EPA-IX Residential Preliminary Remediation Goals and are protective of human health and the environment for residential re-use. Site soils investigations indicated that no significant ground water quality impacts have occurred from soil contamination at the subject sites.
  8. Ground water is at about 135 feet below ground surface (bgs) at the Callender Lease, 196 feet bgs at the adjacent Hellman Lease, and about 77 feet bgs at the Joughin and Torrance Leases. Ground water flow direction is generally to the west beneath the Callender, Hellman, and Torrance leases and to the southwest beneath the Joughin lease.
  9. The Callender and Hellman Leases are believed to be underlain by the Silverado aquifer. The other subject leases are believed to be underlain by the Gage, Lynwood, and Silverado aquifers. The Bellflower Aquiclude is also found beneath the subject leases overlying the Gage Aquifer. This aquiclude is found approximately 35 to 115 feet below grade. The Gage aquifer is found at about 145 feet bgs and extends to about 225 feet bgs.
  10. The Regional Board adopted a revised Water Quality Control Plan for the Los Angeles Region on June 13, 1994. This Water Quality Control Plan designates beneficial uses

and establishes water quality objectives for all ground water within the Region. Existing or potential beneficial uses for ground water in the Los Angeles - San Gabriel River Hydrologic Unit, Coastal Plain Hydrologic Area, where the sites are located, are municipal and domestic supply, agricultural supply, and industrial service and process supply. The requirements contained in this Order, as they are met, will be in conformance with the Objectives of the Water Quality Control Plan.

11. Section 2532(b)(5) of Chapter 15, Division 3, Title 23 of the California Code of Regulations, requires Regional Boards to specify, in Waste Discharge Requirements, the elements of land treatment programs by dischargers who treat or dispose of wastes in land treatment waste management units. The requirements contained in this Order, as they are met, will be in conformance with the goals of Chapter 15 regulations for land treatment units.
12. The City of Carson has prepared a "Final Environmental Impact Report (EIR) for the Dominguez Hills Village Specific Plan" dated September 18, 1995, in accordance with the California Environmental Quality Act (Public Resources Code, Section 21000, et. seq.) and State Guidelines. Significant unavoidable project impacts in the areas of air quality and noise were identified in the EIR. In the area of air quality, construction and operations emissions would exceed South Coast Air Quality Management District significance thresholds, even with feasible mitigation measures. In the area of noise impacts, existing sensitive receptors would be impacted by cumulative traffic impacts.

The Regional Board has notified the Discharger and interested agencies and persons of its intent to issue Revised Waste Discharge Requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge and to the tentative requirements.

IT IS HEREBY ORDERED that the Estate of Albert Levinson DBA Brea Cañon Oil Company, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Waste discharge requirements:

1. Wastes discharged at the Callender and Hellman leases for biodegradation by a land treatment process shall be limited to petroleum-hydrocarbon, volatile organic compound, semi-volatile organic compounds, including base neutral fractions and polynuclear aromatic hydrocarbons, and hydrazine contaminated soils and non-hazardous oil/water separator solids from the Callender, Hellman, Joughin, and Torrance leases, as proposed. The land treatment process, which includes

nutrients and/or bacterial addition to soil, and soil aeration, shall be conducted in such a way that no contaminants are added to surface water or ground waters.

2. Neither the disposal nor any handling of waste shall cause pollution, or nuisance odor at the individual lease boundaries. In addition, when closure of individual phases first occurs then neither the disposal nor any handling of waste shall cause pollution, or nuisance odor at the individual phase boundaries where treatment is occurring.
3. No other off-site soils shall be imported for treatment at this site unless specifically approved by the Executive Officer. Treated soils may be reused at the Callender and Hellman leases, after achieving specified cleanup values, or at other specific locations following prior written approval by the Executive Officer and in accordance with requirements that have been established by a California Regional Water Quality Control Board.
4. Any excavated hazardous waste shall be transported off-site to a legal point of disposal. For the purposes of this requirement, a legal point of disposal is one for which the requirements have been established by a California Regional Water Quality Control Board or the Department of Toxic Substances Control.
5. All soils suitable for reuse on-site, shall have contaminant concentrations less than the limits tabulated below:

<u>Parameter</u>	<u>Limit</u> (mg/kg)
Hydrazine (Total)	0.15
Total Petroleum Hydrocarbons (EPA Method 8015 - Total Extractable)	1,000
(EPA Method 8015 - Total Purgable)	100
Aromatic Volatile Organic Compounds (VOCs)	
Benzene	0.30
Toluene	1.22
Ethylbenzene	0.84
Xylenes (Total)	0.49
Semi-Volatile Organic Compounds	Non-detect <sup>1</sup>

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<sup>1</sup> Non-detect at the method detection limits for each compound specified in EPA Method 8270 as contained in SW846 Third Edition, December 1996.

6. Site soils within the upper two feet of the site surface shall also contain less than 1,000 mg/kg Total Petroleum Hydrocarbons when tested by EPA Method 418.1.
7. The following additional cleanup limits shall apply for backfill of treated oil/water separator solids (production solids):

<u>Parameter</u>	<u>Limit</u> (mg/kg)
CAM Metals	
Arsenic	50
Chromium (Total)	560
Chromium VI	5
Lead	50
Mercury	20
Nickel	134
Selenium	100
Zinc	250

8. Adequate facilities shall be provided to divert away from the treatment area all storm water run-on and run-off.
9. The treatment area shall be bermed in such a way that storm water falling directly on the treatment area will be contained. Standing water within the contained treatment area shall be pumped down and removed to treatment facilities on site or disposed of at a legal disposal site. For the purpose of this requirement, a legal point of disposal is defined as one for which waste discharge requirements have been established by a California Regional Water Quality Control Board and which is in full compliance therewith.

B. Provisions:

1. This Order includes "Standard Provisions Applicable to Waste Discharge Requirements". If there is any conflict between provisions stated herein and the "Standard Provisions Applicable to Waste Discharge Requirements", these provisions stated herein will prevail.
2. A copy of these requirements shall be maintained at the Discharger's on-site office and be available at all times to operating personnel.
3. In the event of any change in name, ownership, or control of these facilities, the Discharger shall notify this Board in writing and shall notify the succeeding owner or operator of the existence of this order by letter, a copy of which shall be forwarded to the Board.

4. The Discharger must notify this Board by telephone within 24 hours, followed by written notification within one week, in the event they are unable to comply with any of the conditions of this Order due to:
  - a. Breakdown of waste treatment equipment,
  - b. Accidents caused by human error or negligence,
  - c. Other causes such as acts of nature, or
  - d. Oil Lease operations.
5. The Discharger may request closure on less than 100 percent of the subject Leases by submitting a closure package for individual phases and where applicable individual lots, if the conditions of the EIR mitigation measures Section 5.4-1a are met: "Project construction activities shall, to the extent feasible, be concentrated away from adjacent residential areas. Equipment storage and soil stockpiling shall be at least 100 feet from adjacent residential property lines [containing occupied dwellings]."
6. At least 180 days prior to closure of the waste management units the Discharger shall submit operation plans for precipitation and drainage controls, any required cover, a closure and post-closure maintenance plan acceptable to the Executive Officer as set forth in Article 5 and Sections 2581, 2594 through 2597 of Chapter 15, Title 23, California Code of Regulations.
7. In accordance with Section 13260 of the California Water Code, the Discharger shall file a report with this Regional Board of any material change or proposed change in the character, location or volume of the discharge.
8. In accordance with Section 13267 of the California Water Code, the Discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer. The specifications are subject to periodic revisions as may be warranted.
9. The Regional Board and other authorized representative shall be allowed:
  - a. Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;
  - b. Access to copy any records that are kept under the conditions of this order;

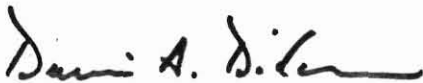


Revised Waste Discharge Requirements for  
The Estate of Albert Levinson dba Brea Cañon Oil Company  
(Dominguez Hills and Wilmington Oil Fields, Los Angeles County, California)

Order 98-064  
File No. 92-032

- c. To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this order; and
  - d. To photograph, sample, and monitor for the purpose of assuring compliance with this Order, or as otherwise authorized by the California Water Code.
10. In accordance with Section 13263 of the California Water Code, these waste discharge requirements are subject to periodic review and revision by this Regional Board.
11. These requirements do not exempt the Discharger from compliance with any other laws, regulations, or ordinances which may be applicable. They do not legalize these waste treatment and disposal facilities and they leave unaffected any further restraints on those facilities that may be contained in other statutes or required by other agencies.
12. Order No. 94-104, adopted on September 26, 1994, and Order No. 97-065, adopted on May 12, 1997, are hereby rescinded.

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on August 3, 1998.



DENNIS A. DICKERSON  
Executive Officer

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ATTACHMENT A  
DOMINGUEZ OIL FIELD

0000120



ATTACHMENT B  
WILMINGTON OIL FIELD  
0000121

STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION

REVISED MONITORING AND REPORTING PROGRAM NO. CI 7440

FOR  
THE ESTATE OF ALBERT LEVINSON  
DBA BREA CAÑON OIL COMPANY  
(Dominguez Hills and Wilmington Oil Fields,  
Los Angeles County, California)

(FILE NO. 92-032)

The Estate of Albert Levinson dba Brea Cañon Oil Company shall implement this Monitoring and Reporting Program on the date of issuance of the Revised Waste Discharge Requirements.

The first monitoring report under this revised program is due on January 15, 1999, for the second half of 1998. Subsequent semi-annual progress and monitoring reports shall be submitted by the date in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January - June	July 15
July - December	January 15

I. GROUND WATER MONITORING

The land treatment activity specified in these waste discharge requirements are not expected to impact the quality of ground water identified at least 135 feet below ground surface. Therefore, ground water monitoring is not a part of these waste discharge requirements.

II. LAND TREATMENT FACILITY SOIL MONITORING

- A. A soil sampling grid shall be established for the land treatment units (LTUs) and the sampling locations shall be located where representative soil samples can be obtained. Soil samples shall be collected and analyzed for the parameters in Table 1, below:

TABLE 1

<u>Parameter</u>	<u>Unit</u>	<u>Frequency<sup>1</sup></u>
Bacteria Plate Count	Colonies/gm	Quarterly
Soil Moisture content	%	Quarterly
Total Petroleum Hydrocarbons (EPA Methods 418.1 & 8015-C <sub>4</sub> to C <sub>28</sub> Hydrocarbon Scan)	mg/kg	Quarterly

- B. Final verification samples shall be collected at the end of treatment and just prior to removal and reuse and analyzed as described in Table 2, below:

TABLE 2

<u>Parameter</u>	<u>Unit</u>	<u>Frequency</u>
<b>LAND TREATMENT UNITS A, B and C</b>		
Hydrazine (ASTM Method D1385-88)	mg/kg	Once per 1,000 CY <sup>2</sup>
Total Petroleum Hydrocarbons (EPA Method 8015 Modified-Extractable & 8015 Modified-Purgable)	mg/kg	Once per 1,000 CY <sup>2</sup>
Total Petroleum Hydrocarbons (EPA Methods 418.1)	mg/kg	Once per 5,000 CY <sup>3</sup>
<b>Priority Pollutants</b>		
<b>Volatile Organic Compounds</b> (EPA Method 8240B or Method 8260A or EPA Methods 8010/8020 or Methods 8010/8021)		
	µg/kg	Once per 5,000 CY
<b>Semi-volatile Organic compounds</b> (EPA Method 8270)		
	mg/kg	Once per 5,000 CY
CAM Metals	mg/kg	Once per 5,000 CY
<b>LINED TREATMENT CELL FOR PRODUCED SOLIDS</b>		
Total Petroleum Hydrocarbons (EPA Methods 418.1, 8015 Modified-Extractable & 8015 Modified-Purgable)	mg/kg	Once per 1,000 CY
<b>Priority Pollutants</b>		
<b>Volatile Organic Compounds</b> (EPA Method 8240B or Method 8260A or Methods 8010/8020 or Methods 8010/8021)		
	µg/kg	Once per 1,000 CY
<b>Semi-volatile Organic Compounds</b> (EPA Method 8270)		
	mg/kg	Once per 500 CY
CAM Metals	mg/kg	Once per 500 CY

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- 1 In the event the land treatment of a lift is completed prior to the due date of the first monitoring report, then final verification samples for the lift shall be collected and analyzed in lieu of the sampling frequency of this Order.
  - 2 A minimum of three (3) verification samples must be collected from each lift.
  - 3 EPA Method 418.1 shall be ran every 5,000 cubic yards during the first year. The sampling frequency may then be modified upon written approval of the Executive Officer.

- C. Treated soils that exceed the Waste Discharge Limits are to be re-treated and re-sampled to verify that treated soils are below discharge limitations prior to re-use.

### III. GENERAL PROVISIONS FOR SAMPLING AND ANALYSIS

- A. All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services, or approved by the Executive Officer. No changes shall be made in sampling points without prior approval of the Executive Officer.
- C. All verification sampling require 72 hours written and verbal notice to the Board in order for staff to participate in the sampling.

### IV. SPECIFIC REPORTING REQUIREMENTS

- A. The following technical reports shall be filed with the Regional Board:
  - 1. A "Contamination Removal Report", shall be submitted within 30 days of removal of contaminated soil from each specific development phase, verifying that all contaminated soil has been removed for land treatment, and including all soil verification data supporting the nature and extent of removed soil and nature and extent of contaminated soils to remain in place.
  - 2. The second semi-annual report of each year, beginning on January 15, 1999, shall also serve as an annual report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the year. In addition, The discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.
  - 3. A "Land Treatment Completion Report" shall be submitted within 30 days of completing land treatment of soils from each specific development phase, verifying that biodegradation is complete for the land treatment zone. The report shall include all data collected to date verifying that cleanup levels have been met.
  - 4. A "Final Closure Report" shall be submitted within 30 days of completing all treatment in the land treatment units. This report shall include analyses of soil samples underlying the treatment cells documenting that any contaminants that may have been released during its life have been remediated.
- B. All technical reports submitted shall contain the following minimum information:
  - 1. Quantity of waste material treated during the reporting period.
  - 2. Analytical results, from:

Revised Monitoring and Reporting Program For  
The Estate of Albert Levinson dba Brea Cañon Oil Company  
(Dominguez Hills and Wilmington Oil Fields, Los Angeles County, California)

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- a. Land treatment zone soil sampling,
  - b. Soil monitoring in the excavated areas, and
  - c. If a lift was removed, all data collected during the reporting period verifying that cleanup levels set by the Executive Officer have been met.
3. Estimated time until completion of the next lift in each LTU and final disposition of any soils removed from the treatment cells during the reporting period.
  4. A statement certifying that storm water runoff was prevented from entering the land treatment area, other than rainfall directly on the LTUs, and that no wastes material was carried away from the land treatment area by rainfall runoff.
- C. All technical reports prepared for submittal to the Regional Board shall be signed by either a California Registered Civil Engineer, a Registered Geologist, or Certified Engineering Geologist.
- D. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the data, the constituents, and the concentrations are readily discernible. The data shall be summarized to determine compliance with waste discharge requirements and, where applicable, shall include receiving ground water observations. In addition, monitoring reports shall describe the facility name, location, and location at the facility where any contaminated soil originated (including a site map), verify that all contaminated soil has been removed for land treatment or document the contaminants remaining, and including all soil verification data supporting the nature and extent of removed soil and nature and extent of contaminated soils to remain in place. In addition, the report shall state the volume of contaminated soils placed into each treatment cell.
- E. For every item where the requirements are not met the discharger shall submit a statement of the actions undertaken or proposed, together with a timetable, to bring the discharge back into full compliance with the requirements at the earliest time.
- F. Monitoring reports submitted to the Regional Board shall be signed by:
1. In the case of a corporation, the principal executive officer, at least of the level of Vice President or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
  2. In case of a partnership, a general partner;
  3. In case of a sole proprietorship, the proprietor;

Revised Monitoring and Reporting Program For  
The Estate of Albert Levinson dba Brea Cañon Oil Company  
(Dominguez Hills and Wilmington Oil Fields, Los Angeles County, California)

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4. In the case of a municipal, state or public facility, either a principal executive officer, ranking elected official, or other duly authorized employee.

Each report shall contain the following completed declaration:

" I declare under penalty of perjury that the foregoing is true and correct.

Executed on the day of \_\_\_\_\_ at \_\_\_\_\_

\_\_\_\_\_ (Signature)

\_\_\_\_\_ (Title)"

Ordered by *Dennis A. Dickerson*  
DENNIS A. DICKERSON  
Executive Officer

Date: August 3, 1998

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