



July 6, 1993

Mr. Ted Klink  
City of Pleasanton Fire Department  
P.O. Box 320  
Pleasanton, California 94566-0802

30-0065-10

Subject: Quarterly Ground Water Monitoring and Sampling Report  
Former Mobil Station 04-H6J  
1024 Main Street  
Pleasanton, California

Dear Mr. Klink:

The enclosed report presents the results of quarterly ground water monitoring and sampling performed April 5, 1993, by Alton Geoscience at former Mobil Station 04-H6J, 1024 Main Street, Pleasanton, California.

Please call if you have questions or comments regarding this report.

Sincerely,

**ALTON GEOSCIENCE**

A handwritten signature in dark ink, appearing to read 'Eric R. Schaper', is written over the typed name.

Eric R. Schaper  
Project Hydrogeologist

cc: Ms. Cherine Foutch - Mobil Oil Corporation  
Mr. Lester Feldman - RWQCB - San Francisco Bay Region  
Mr. Barton and Mrs. Bonnie Yates - Property Owner  
Mr. Joe Ramia - Adjacent Property Owner

m:\...mobil\04-h6j\q2.93

**QUARTERLY PROGRESS REPORT,  
APRIL THROUGH JUNE 1993**

June 1, 1993

**FORMER MOBIL STATION 04-H6J  
1024 Main Street  
Pleasanton, California**

Alton Project No. 30-0065

Prepared For:

**MOBIL OIL CORPORATION  
2063 Main Street, #501  
Oakley, California 94561**

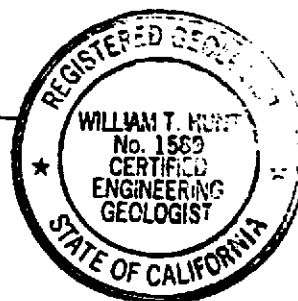
By:



Eric R. Schaper  
Project Hydrogeologist



William T. Hunt, RG, CEG  
Vice President, Operations



**ALTON GEOSCIENCE  
5870 Stoneridge Drive, Suite 6  
Pleasanton, California 94588**

June 1, 1993

Mobil Oil Corporation  
2063 Main Street, #501  
Oakley, California 94561

30-0065-10

ATTN: MS. CHERINE FOUTCH

SITE: FORMER MOBIL STATION 04-H6J  
1024 Main Street  
Pleasanton, California

RE: QUARTERLY PROGRESS REPORT, APRIL THROUGH JUNE 1993

Dear Ms. Foutch:

This quarterly progress report presents the results of fluid-level monitoring and ground water sampling for former Mobil Station 04-H6J, located at 1024 Main Street in Pleasanton, California (Figure 1). The work at this site is performed in accordance with the Alameda County Flood Control and Water Conservation District and the Regional Water Quality Control Board, San Francisco Bay Region requirements.

This report is presented in the following sections:

- 1.0: Site Description
- 2.0: Fluid-Level Monitoring
- 3.0: Ground Water Sampling
- 4.0: Fluid Disposal
- 5.0: Findings and Conclusions
- 6.0: List of Attachments

Rev: 05/29/93

## 1.0 SITE DESCRIPTION

The site is former Mobil Station 04-H6J which is presently a fenced vacant lot. Currently, 9 onsite and 1 offsite ground water monitoring wells are present at the site (Figure 2).

## 2.0 FLUID-LEVEL MONITORING

Fluid-level monitoring is performed quarterly from monitoring wells located onsite. See Table 1 for fluid-level monitoring data collected from April 12, 1990 through April 5, 1993. See Figure 3 for the ground water elevation contour map developed from the April 5, 1993, fluid-level monitoring data. Refer to Appendix A for a description of fluid-level monitoring procedures.

## 3.0 GROUND WATER SAMPLING

On April 5, 1993, ground water samples were collected at the site from wells which did not contain free product in accordance with standard regulatory protocol (Appendix A). Ground water samples were submitted to a state-certified laboratory and analyzed for total petroleum hydrocarbons as gasoline (TPH-G) using EPA Methods 5030 and 8015 and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Methods 5030 and 8020. The results of ground water sample analyses are listed in Table 1 and are shown in Figure 4. Refer to Appendix B for a description of the analytical methods, and copies of the official Laboratory Reports and Chain of Custody Records.

## 4.0 FLUID DISPOSAL

Fluids recovered during ground water sampling activities are stored onsite in Department of Transportation (DOT)-approved drums, then transported by vacuum truck to a Mobil-approved disposal/recycling facility.

## 5.0 FINDINGS AND CONCLUSIONS

- The average depth to ground water at the site is 34.6 feet below grade. The local ground water gradient varies from northwest to southeast and on April 5, 1993, was approximately 0.14 foot per foot to the east-southeast. The ground water gradient appears to be locally affected by fluid discharge into the Arroyo Valle by sand and gravel pit operations to the east of the site. The ground water depth and gradient during this reporting period are consistent with previous results.
- A sheen of free product was present in onsite Monitoring Well MW-2.

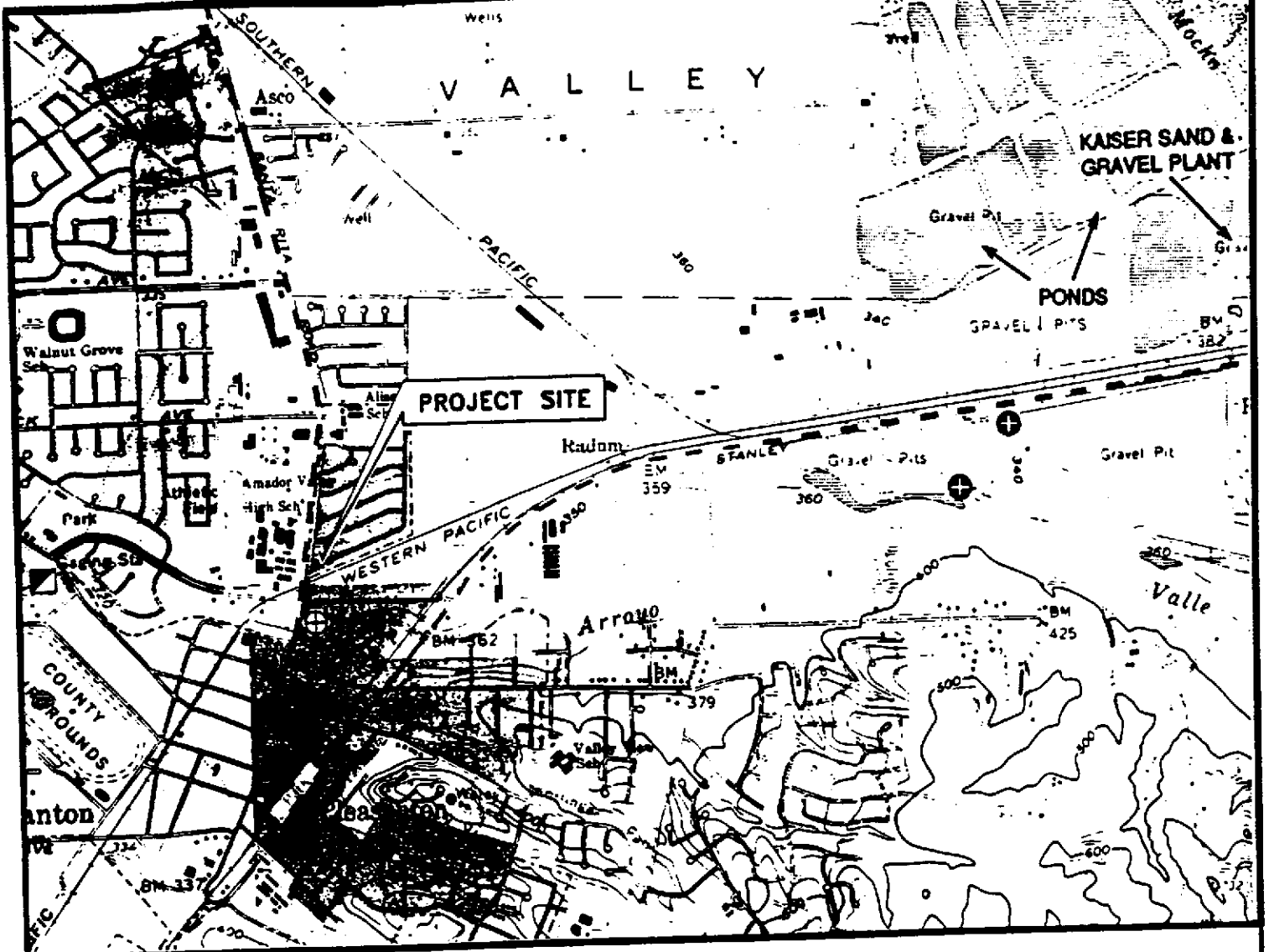
- Dissolved-phase TPH-G and BTEX concentrations were detected in Monitoring Wells MW-1, MW-4, MW-6, and MW-9 (a maximum TPH-G concentration of 7,900 parts per billion [ppb] in MW-9). Compared to previous results, dissolved-phase hydrocarbon concentrations remained relatively unchanged in Monitoring Well MW-6, increased in MW-9 and MW-1, and decreased in MW-4. The lateral extent of dissolved-phase hydrocarbons are not characterized.

## 6.0 LIST OF ATTACHMENTS

- Figure 1: Site Vicinity Map
- Figure 2: Site Plan
- Figure 3: Ground Water Elevation Contour Map, April 5, 1993
- Figure 4: Dissolved-Phase Hydrocarbon Concentrations, April 5, 1993
- Table 1: Summary of Ground Water Sampling and Analyses
- Appendix A: General Field Procedures
- Appendix B: Official Laboratory Reports and Chain of Custody Records

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The ongoing project services summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. The findings and conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.



Source: U.S.G.S. Map  
Dublin/Livermore  
Quadrangles  
California  
7.5 Minute Series



**LEGEND**

- ▣ U.S.G.S. Gauging Station
- ⊕ City of Pleasanton Monitoring Well
- ⊕ Kaiser Discharge to Arroyo Valle

**SITE VICINITY MAP**

Former Mobil Station 04-H6J  
1024 Main Street  
Pleasanton, California

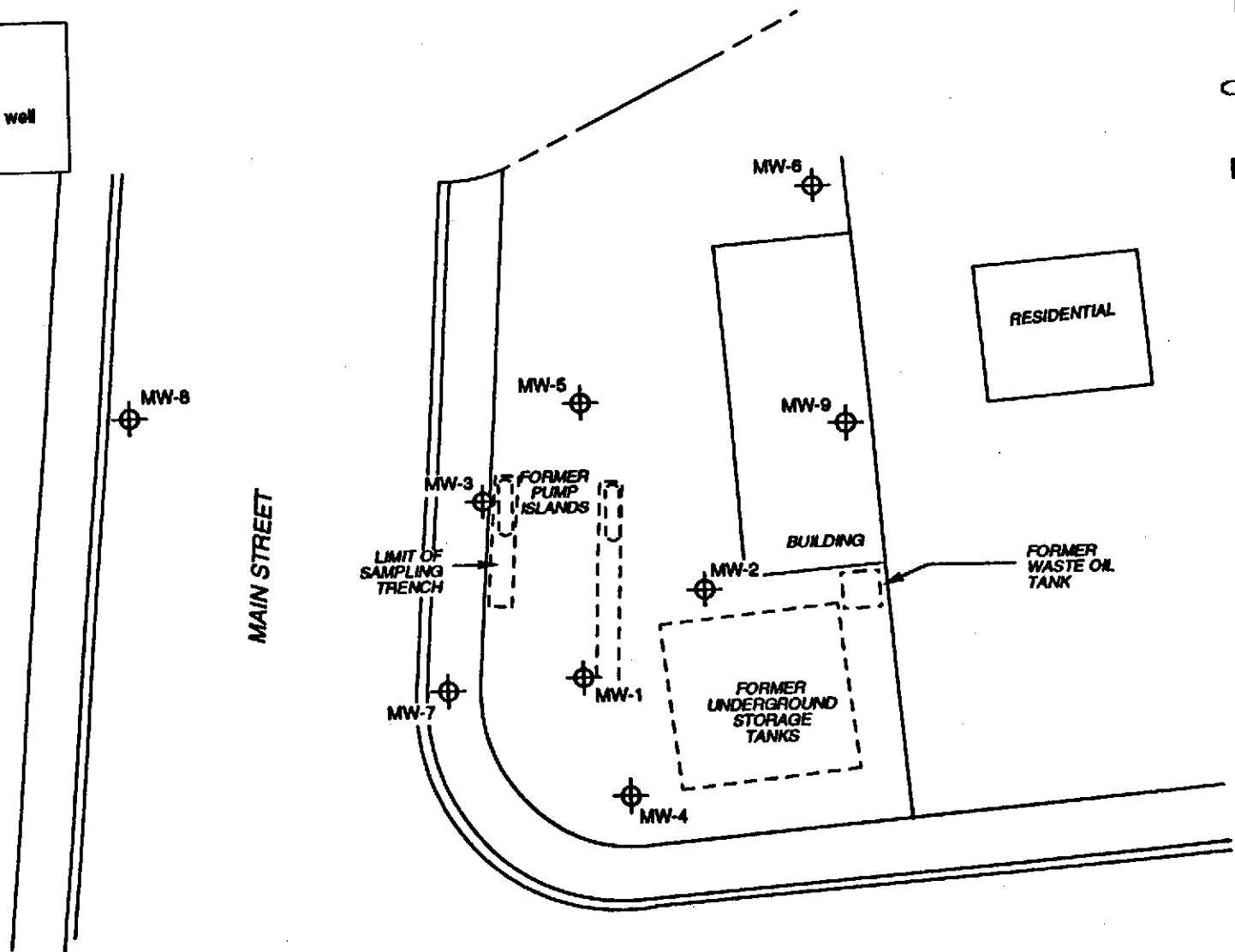
**FIGURE 1**

**ALTON GEOSCIENCE**  
Pleasanton, California

Project No. 31-0065

**LEGEND**

⊕ MW-3 Ground water monitoring well

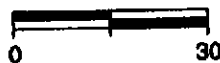


**SITE PLAN**

Former Mobil Station 04-H6J  
1024 Main Street  
Pleasanton, California




**FIGURE 2**

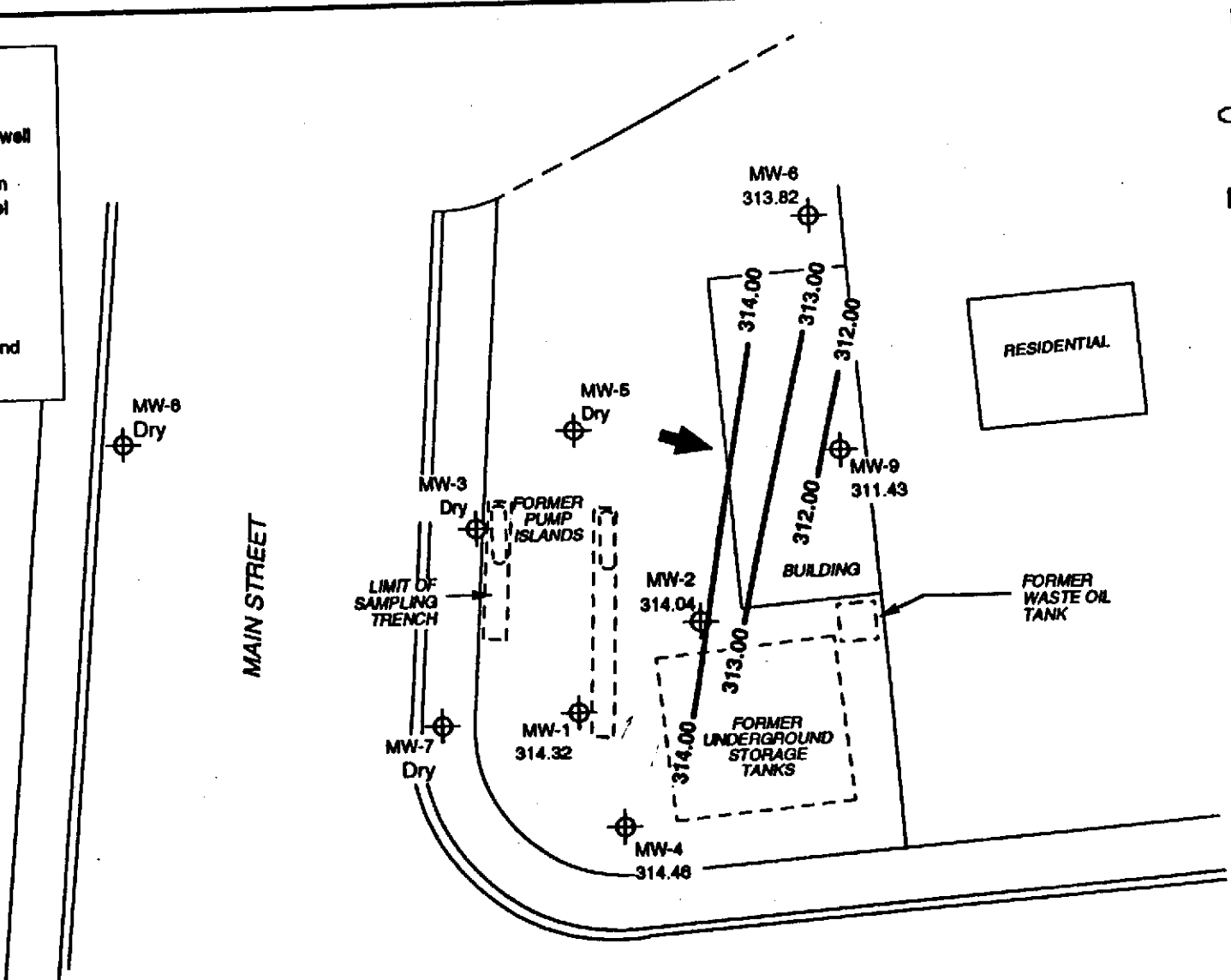
SCALE (FEET)



**ALTON  
GEOSCIENCE**  
Pleasanton, California

**LEGEND**

-  MW-0 Ground water monitoring well
- 311.43 Ground water elevation, in feet above mean sea level [NGVD-1929]
-  Ground water elevation contour line
-  General direction of ground water gradient



**NOTES:**  
 Contour lines are interpretive based on fluid level measurements collected April 5, 1993.  
 Contour interval = 1.0 foot.

**GROUND WATER ELEVATION CONTOUR MAP**  
 April 5, 1993

Former Mobil Station 04-H6J  
 1024 Main Street  
 Pleasanton, California

**FIGURE 3**


**ALTON GEOSCIENCE**  
 Pleasanton, California





**LEGEND**

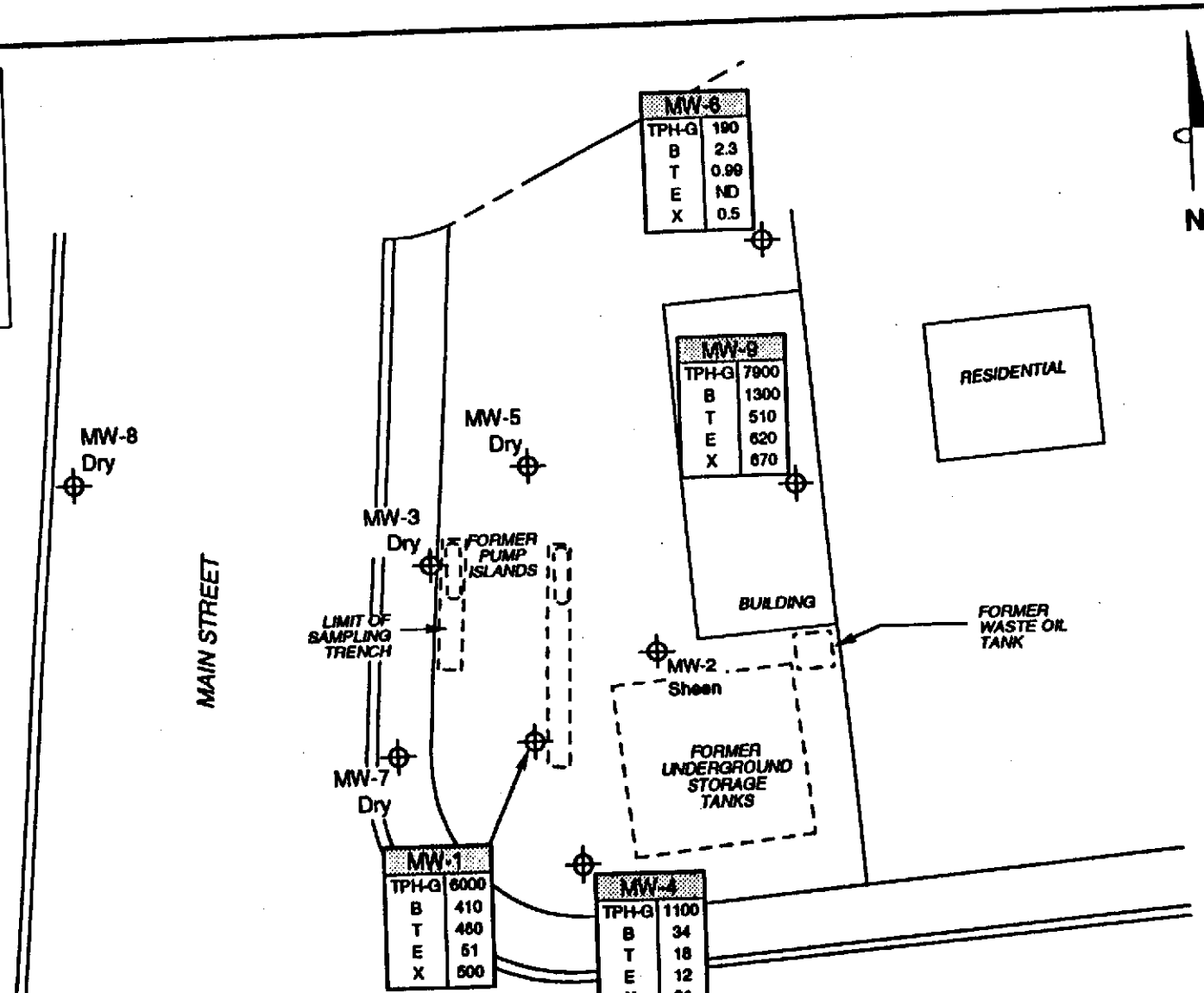
 MW-8 Ground water monitoring well

 Dissolved-phase hydrocarbon concentrations (ppb)

MW-8
TPH-G
B
T
E
X



**NOTES:**  
 Hydrocarbon concentrations are based on results of laboratory analysis of ground water samples collected April 5, 1993.  
 ND = not detected at detection limits stated in official Laboratory Reports.  
 TPH-G= total petroleum hydrocarbons as gasoline; B = benzene; T = toluene; E = ethylbenzene; X = total xylenes; ppb = parts per billion.



**DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS**  
 April 5, 1993  
 Former Mobil Station 04-H6J  
 1024 Main Street  
 Pleasanton, California

**FIGURE 4**

**Table 1**  
**Summary of Ground Water Sampling and Analyses**  
Former Mobil Station 04-H6J  
1024 Main Street  
Pleasanton, California

Well ID	Date of Sampling	Casing Elevation (feet)	Free Product (feet)	Depth to Water (feet)	Ground Water Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)	Lab
MW-1	04/12/90	348.03	0.00	43.57	304.46	3,600	—	73	13	3	180	45	ND<10	—	SAL
	10/18/90		0.00	43.18	304.85	5,000	ND<1000	700	360	170	480	54	—	—	SAL
	06/06/91		0.00	38.65	309.38	2,600	—	310	340	110	340	ND<25	—	ND<5.0	SAL
	01/08/92		0.00	38.68	309.35	2,400	—	270	370	18	340	14	ND<50	—	SAL
	04/30/92		0.00	39.93	308.10	1,300	—	150	120	12	160	4.3	—	—	SEQ
	07/31/92		0.00	43.05	304.98	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	SEQ
	10/27/92		0.00	42.86	305.17	2,700	—	320	310	84	310	—	—	—	SEQ
	01/22/93		0.00	34.88	313.15	2,800	—	190	340	87	320	—	—	—	SEQ
	04/05/93		0.00	33.71	314.32	6,000	—	410	460	51	500	—	—	—	SEQ
	MW-2		04/12/90	348.45	0.00	44.14	304.31	64,000	—	5,500	7,600	1,900	7,800	200	ND<10
10/18/90		0.00	43.18		305.27	83,000	10,000	6,800	9,100	2,400	11,000	460	—	—	SAL
08/08/91		0.00	39.19		309.28	180,000	—	16,000	25,000	4,300	19,000	330	—	330	SEQ
01/08/92		0.02	39.40		309.07	—	—	—	—	—	—	—	—	—	SEQ
04/30/92		0.00	40.50		307.95	71,000	—	9,200	19,000	3,700	15,000	420	—	—	—
07/31/92		0.15	43.64		304.93	—	—	—	—	—	—	—	—	—	—
10/27/92		Sheen	43.53		304.92	—	—	—	—	—	—	—	—	—	—
01/22/93		Sheen	35.55		312.90	—	—	—	—	—	—	—	—	—	—
04/05/93		Sheen	34.41		314.04	—	—	—	—	—	—	—	—	—	—
MW-3	04/12/90	347.97	0.00	23.18	324.79	2,100	—	32	56	31	170	117	ND<10	—	SAL
	10/18/90		0.00	14.28	333.69	110	ND<1000	3	3	1	5	2	—	—	SAL
	06/06/91		—	Dry	—	—	—	—	—	—	—	—	—	—	—
	01/08/92		0.00	32.38	315.61	680	—	8.9	28	6.5	72	5.7	—	—	SEQ
	04/30/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—	—	—	SEQ
	01/22/93		0.00	27.30	320.67	2,600	—	240	300	170	440	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—	—	—	—

NOTES: ppb = parts per billion (µg/l)  
TPH-G = total petroleum hydrocarbons as gasoline  
TPH-D = total petroleum hydrocarbons as diesel  
ND = not detected at detection limits stated in official laboratory reports  
— = not measured/not analyzed/not applicable  
1,2-DCE = 1,2-Dichloroethane  
\* = reported by laboratory as non-gasoline mixture  
\*\* = well inaccessible

SAL = Superior Analytical Laboratories  
SEQ = Sequoia Analytical  
Casing and ground water elevations are in feet above mean sea level (NGVD-1929).

**Table 1**  
**Summary of Ground Water Sampling and Analyses**  
Former Mobil Station 04-H6J  
1024 Main Street  
Pleasanton, California

Well ID	Date of Sampling	Casing Elevation (feet)	Free Product (feet)	Depth to Water (feet)	Ground Water Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)	Lab
MW-4	10/18/90	348.07	0.00	43.18	304.91	9,600	2,000	180	500	200	1,200	9	—	—	SAL
	08/08/91		0.00	38.65	309.42	8,600	—	320	420	220	650	ND<25	—	ND<5.0	SEQ
	01/08/92		0.00	38.65	309.42	3,400	—	600	880	220	1,100	9.2	ND<50	—	SEQ
	04/30/92		0.00	39.88	308.19	7,200	—	650	1,200	210	1,200	ND<50	—	—	SEQ
	07/31/92		0.00	43.07	305.00	3,800	—	320	340	120	360	—	—	—	SEQ
	10/27/92		0.00	42.78	305.29	9,000	—	440	760	190	900	—	—	—	SEQ
	01/22/93		0.00	34.76	313.31	12,000	—	540	1,200	320	1,900	—	—	—	SEQ
	04/05/93		0.00	33.61	314.46	1,100	—	34	18	12	31	—	—	—	—
MW-5	10/18/90	347.97	—	**	—	—	—	—	—	—	—	—	—	—	—
	08/08/91		—	34.25	313.72	—	—	—	—	—	—	—	—	—	—
	01/08/92		—	34.22	313.75	—	—	—	—	—	—	—	—	—	—
	04/30/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—	—	—	—	—
MW-6	10/18/90	348.23	0.00	43.60	304.63	3,000	ND<1000	1,300	150	120	65	140	—	—	SAL
	08/08/91		0.00	39.07	309.16	1,600	—	220	10	5.2	14	8.3	—	ND<5.0	SEQ
	01/08/92		0.00	39.18	309.05	370	—	81	3.9	4.5	2.9	5.4	ND<50	—	SEQ
	04/30/92		0.00	40.46	307.77	610	—	180	8.4	6.8	3.3	7.0	—	—	SEQ
	07/31/92		0.00	43.61	304.62	9,400	—	1,500	1,500	370	1,100	—	—	—	SEQ
	10/27/92		0.00	43.68	304.55	850	—	27	ND<0.5	6	10	—	—	—	SEQ
	01/22/93		0.00	35.66	312.57	250	—	12	2.4	1.4	1.9	—	—	—	SEQ
	04/05/93		0.00	34.41	313.62	190	—	2.3	0.99	ND<0.5	0.5	—	—	—	SEQ

NOTES: ppb = parts per billion (µg/l)  
TPH-G = total petroleum hydrocarbons as gasoline  
TPH-D = total petroleum hydrocarbons as diesel  
ND = not detected at detection limits stated in official laboratory reports  
— = not measured/not analyzed/not applicable  
1,2-DCE = 1,2-Dichloroethane  
. = reported by laboratory as non-gasoline mixture  
\*\* = well inaccessible

SAL = Superior Analytical Laboratories  
SEQ = Sequoia Analytical  
Casing and ground water elevations are in feet above mean sea level (NGVD-1929).

**Table 1**  
**Summary of Ground Water Sampling and Analyses**  
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1024 Main Street  
Pleasanton, California

Well ID	Date of Sampling	Casing Elevation (feet)	Free Product (feet)	Depth to Water (feet)	Ground Water Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)	Lab	
MW-7	10/18/90	347.90	0.00	9.26	338.64	ND<50	ND<1000	0.3	0.5	ND<0.3	0.8	ND<0.5	—	—	SAL	
	08/06/91		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	01/08/92		0.00	23.79	324.11	220	—	7.8	1.7	ND<0.3	0.55	—	—	—	—	SEQ
	04/30/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
MW-8	10/18/90	346.90	0.00	11.30	337.60	900	ND<1000	3	5	7	62	ND<0.5	—	—	SAL	
	08/06/91		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	01/08/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	04/30/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	07/31/92		0.00	12.04	336.66	270*	—	ND<0.5	ND<0.5	ND<0.5	1.3	—	—	—	—	SEQ
	10/27/92		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—	—	—	—	—
MW-9	02/04/92	346.53	0.00	43.54	304.99	16,000	—	3,000	740	1,200	2,500	68	—	ND<5.0	SEQ	
	04/30/92		0.00	42.83	305.70	5,600	—	1,000	120	410	350	ND<50	—	—	SEQ	
	07/31/92		0.00	47.36	301.17	9,300	—	1,800	1,900	620	940	—	—	—	SEQ	
	10/27/92		0.00	48.32	300.21	13,000	—	2,400	1,600	680	1,100	—	—	—	SEQ	
	01/22/93		0.00	39.11	309.42	5,600	—	1,200	200	510	350	—	—	—	SEQ	
	04/05/93		0.00	37.1	311.43	7,900	—	1,300	510	620	670	—	—	—	SEQ	
	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTES: ppb = parts per billion (µg/l)  
TPH-G = total petroleum hydrocarbons as gasoline  
TPH-D = total petroleum hydrocarbons as diesel  
ND = not detected at detection limits stated in official laboratory reports  
— = not measured/not analyzed/not applicable  
1,2-DCE = 1,2-Dichloroethane  
\* = reported by laboratory as non-gasoline mixture  
\*\* = well inaccessible

SAL = Superior Analytical Laboratories  
SEQ = Sequoia Analytical  
Casing and ground water elevations are in feet above mean sea level (NGVD-1929).

**APPENDIX A**  
**GENERAL FIELD PROCEDURES**

## APPENDIX A

### GENERAL FIELD PROCEDURES

General field procedures used during fluid level monitoring and ground water sampling activities are described below.

#### FLUID LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

#### GROUND WATER SAMPLING

Ground water monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of ground water prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Ground water samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

**APPENDIX B**  
**OFFICIAL LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS**



# SEQUIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

APR 14 1993

H6T

Alton Geoscience  
5870 Stoneridge Drive, Suite 6  
Pleasanton, CA 94588  
Attention: Eric Schaper

Client Project ID: Mobil #04-~~1115~~ / #300065  
Sample Matrix: Water  
Analysis Method: EPA 5030/8015/8020  
First Sample #: 304-0233

Sampled: Apr 5, 1993  
Received: Apr 8, 1993  
Reported: Apr 12, 1993

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 304-0233 TBLB	Sample I.D. 304-0234 MW-1	Sample I.D. 304-0235 MW-4	Sample I.D. 304-0236 MW-6	Sample I.D. 304-0237 MW-9
Purgeable Hydrocarbons	50	N.D.	6,000	1,100	190	7,900
Benzene	0.5	N.D.	410	34	2.3	1,300
Toluene	0.5	N.D.	460	18	0.99	510
Ethyl Benzene	0.5	N.D.	51	12	N.D.	620
Total Xylenes	0.5	N.D.	500	31	0.50	670
Chromatogram Pattern:		--	Gasoline	Gasoline	Gasoline	Gasoline

### Quality Control Data

Report Limit Multiplication Factor:	1.0	10	1.0	1.0	10
Date Analyzed:	4/8/93	4/8/93	4/8/93	4/9/93	4/8/93
Instrument Identification:	HP-2	HP-2	HP-2	HP-4	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	105	118	89	103	116

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUIA ANALYTICAL

Scott A. Chieffo  
Project Manager





APR 14 1993

Alton Geoscience  
 5870 Stoneridge Drive, Suite 6  
 Pleasanton, CA 94588  
 Attention: Eric Schaper

Client Project ID: Mobil #04-1785 / #300065  
 Matric: Water

QC Sample Group 3040233-237

Reported: Apr 12, 1993

**QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.F.	J.F.	J.F.	J.F.
Conc. Spiked:	20	20	20	80
Units:	µg/L	µg/L	µg/L	µg/L
LCS Batch#:	1LCS040893	1LCS040893	1LCS040893	1LCS040893
Date Prepared:	4/8/93	4/8/93	4/8/93	4/8/93
Date Analyzed:	4/8/93	4/8/93	4/8/93	4/8/93
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	120	122	112	116
Control Limits:	70-130%	70-130%	70-130%	70-130%

MS/MSD Batch #:	3040223	3040223	3040223	3040223
Date Prepared:	4/8/93	4/8/93	4/8/93	4/8/93
Date Analyzed:	4/8/93	4/8/93	4/8/93	4/8/93
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Matrix Spike % Recovery:	115	110	110	112
Matrix Spike Duplicate % Recovery:	115	110	105	110
Relative % Difference:	0.0	0.0	4.7	1.5

SEQUOIA ANALYTICAL

*Scott A. Chieffo*  
 Scott A. Chieffo  
 Project Manager

Please Note:  
 The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.

# Mobil Chain of Custody



**SEQUOIA ANALYTICAL**

Redwood City: (415) 364-9600  
 Concord: (510) 686-9600  
 Sacramento: (916) 921-9600

APR 14 1993

Consulting Firm Name: <u>Alton GeoScience</u>		Site SS #: <u>04-1165</u>		Phase of Work:	
Address: <u>5870 Stoneridge Dr Ste #10</u>		Mobil Site Address: <u>1074 Main St Newark</u>		<input type="checkbox"/> A. Emrg. Response	
City: <u>Pleasanton</u>	State: <u>CA</u>	Zip Code: <u>94588</u>	Mobil Engineer: <u>Shear Fatch</u>	<input type="checkbox"/> B. Site Assessment	
Telephone: <u>734-8134</u>		FAX #: <u>734-8120</u>		<input type="checkbox"/> C. Remediation	
Project Contact: <u>ES</u>		Sampled by: <u>J.S</u>		<input checked="" type="checkbox"/> D. Monitoring	
		Sequoia's Work Order Release #:		<input type="checkbox"/> E. OGC/Claims	

Turnaround Time:  Standard TAT (5 - 10 Working Days)  
 Other \_\_\_\_\_

Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #	Analyses Requested					Comments	
					TPH Gas/BTEX	TPH Diesel	TPPH by I.R. EPA #18.1	Oil & Grease EPA #13.2			
1. TBLB	4/5	W	1		X						3040233
2. MW-1	4/5 12:50	W	2		X						234AB
3. MW-4	4/5 12:00	W	2		X						235AB
4. MW-6	4/5 11:30	W	2		X						236AB
5. MW-9	4/5 1:30	W	2		X						237AB
6.											
7.											
8.											
9.											
10.											

Relinquished By: <u>[Signature]</u>	Date: <u>4-5-93</u>	Time: <u>4:30</u>	Received By: <u>[Signature]</u>	Date: <u>4/6/93</u>	Time: <u>1:35</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Method of Shipment \_\_\_\_\_