HYDRO ANALYSIS, INC.
Environmental & Water Resources Engineering
Groundwater Consultants

August 20, 2009

Paresh Khatri
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RE: Matheson Trucking, 2500 poplar Street, Oakland, CA
ACEH Fuel Leak Case No. RO0000365

Dear Mr. Khatri:

On behalf of RB Matheson, please find enclosed a copy of the "*Semi-Annual Groundwater Monitoring Report, Matheson Trucking, 2500 Poplar Street, Oakland, CA*" by Hydro Analysis, Inc., dated August 20, 2009.

Please call me at (510)620-0891 if you have any questions.

Sincerely,

Gary Aguiar
Principal Engineer

11100 SAN PABLO AVE., SUITE 200-A, EL CERRITO, CALIFORNIA 94530 • TEL 510-620-0891 • FAX 510-620-0894
www.HydroAnalysis.com

HYDRO ANALYSIS, INC.
Environmental & Water Resources Engineering
Groundwater Consultants

SEMI-ANNUAL

GROUNDWATER MONITORING REPORT

Third Quarter 2009

(sampled on August 6, 2009)

MATHESON TRUCKING

2500 Poplar Street
Oakland, California

August 20, 2009

11100 SAN PABLO AVE., SUITE 200-A, EL CERRITO, CALIFORNIA 94530 • TEL 510-620-0891 • FAX 510-620-0894
www.HydroAnalysis.com

TABLE OF CONTENTS

I. INTRODUCTION

The subject site is the Matheson Trucking facility located at 2500 Poplar Street in Oakland, California. It has been maintained as a truck maintenance, fueling, and dispatch facility for a number of years. The location of the site is shown in Figure 1. The current layout of the site, along with the locations of the previous underground storage tanks, is shown in Figure 2.

This report presents the results of semi-annual groundwater sampling that was conducted on August 6, 2009. Semi-annual groundwater monitoring is being conducted in accordance with requirements of Alameda County Environmental Health (ACEH) and the California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region. Recent correspondence from ACEH is provided in Attachment A.

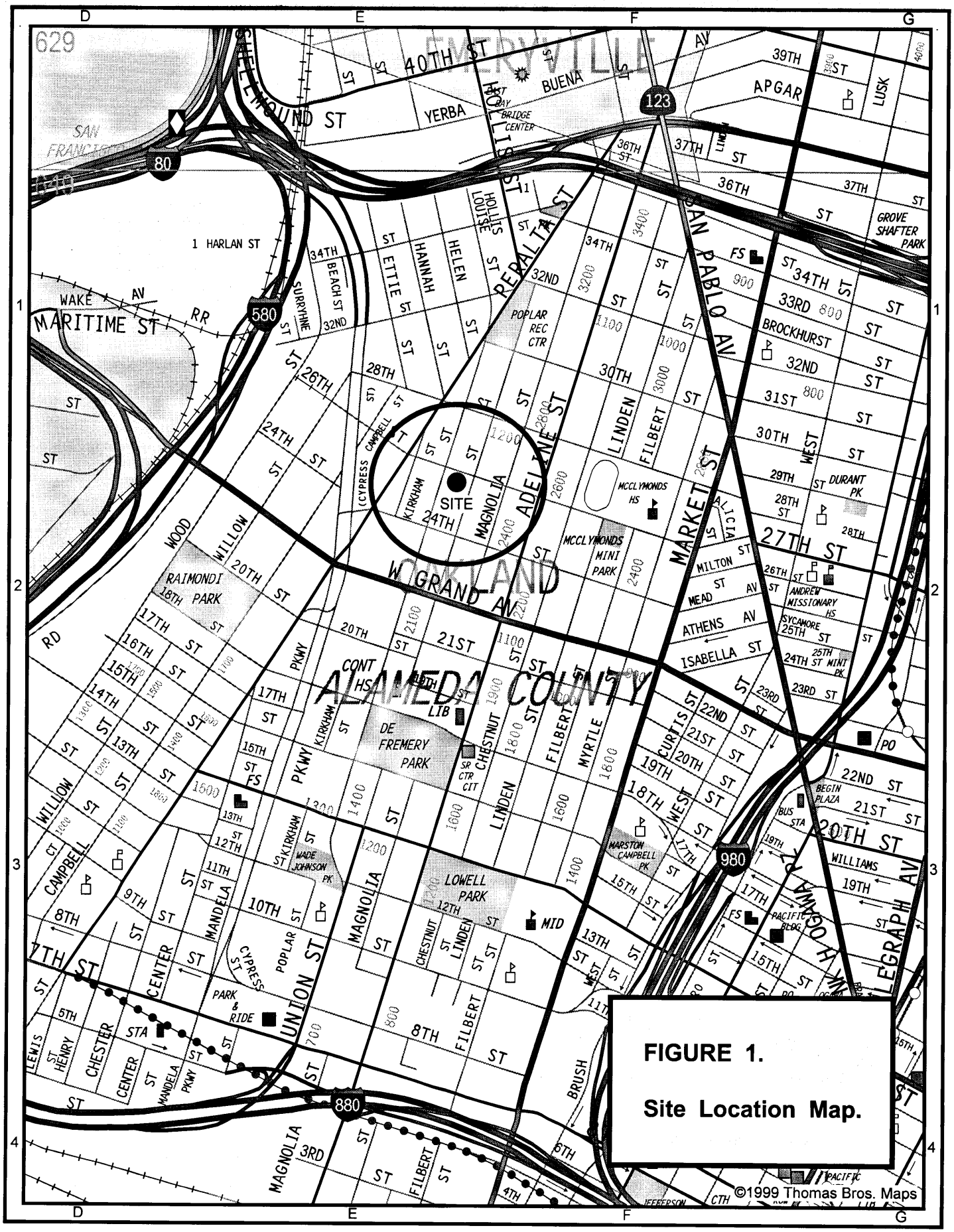

FIGURE 1.

Site Location Map.

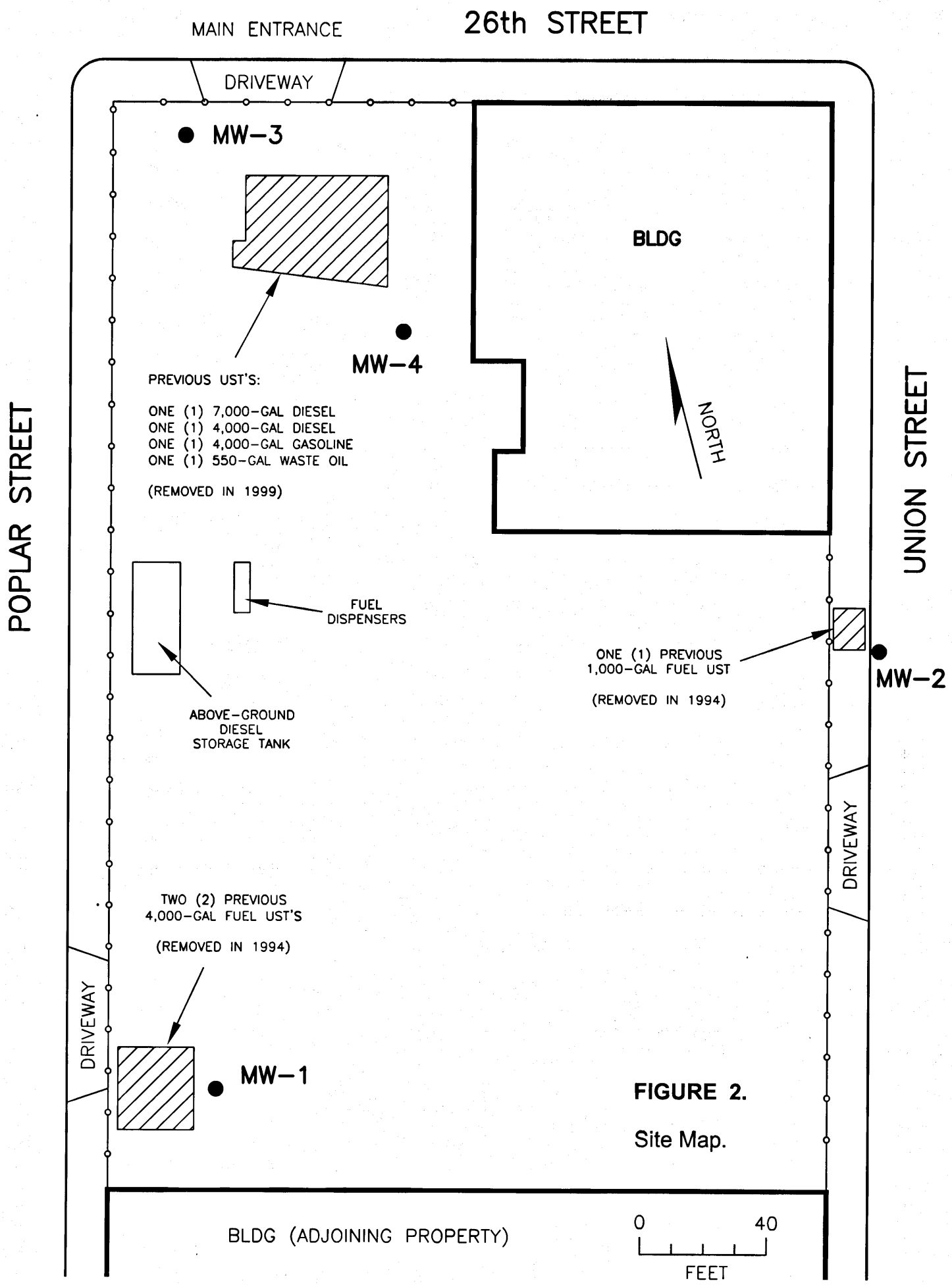

FIGURE 2.

Site Map.

II. FIELD WORK

Monitoring Well Sampling

On August 6, 2009, groundwater samples were collected from shallow groundwater monitoring wells MW-1, MW-2, MW-3 and MW-4. Prior to sampling, several casing volumes were removed from each well using a new disposable sampling bailer. Field conductivity, temperature, and pH meters were present on-site during the monitoring well sampling. As the purging process proceeded, the three parameters were monitored. Purging continued until readings appeared to have reasonably stabilized. The groundwater samples were placed inside appropriate 40 ml VOA vials free of any headspace and 1 liter amber bottles. The samples were immediately placed on crushed ice, then transported under chain-of-custody to the laboratory at the conclusion of the field work.

At the time each monitoring well was sampled, the following information was recorded in the field: 1) depth-to-water prior to purging, using an electrical well sounding tape, 2) identification of any floating product, sheen, or odor prior to purging, using a clear bailer, 3) sample pH, 4) sample temperature, and 5) specific conductance of the sample.

Copies of the well sampling logs are provided in Attachment B.

III. RESULTS OF WATER LEVEL MEASUREMENTS

Shallow Groundwater Flow Direction

The shallow water table elevations were measured by Hydro Analysis, Inc., on August 6, 2009. These measurements are shown in Table 1. Figure 3 presents a contour map for the shallow groundwater table beneath the site. As shown in this figure, the shallow groundwater beneath the site appeared to be flowing in an northeasterly direction at the time of this groundwater sampling event.

Shallow Water Table Hydraulic Gradient

As shown in Figure 3, the shallow groundwater table beneath the major portion of the site has a calculated hydraulic gradient of dH/dL = 0.6'/195' = 0.0031 ft/ft.

Historical Water Level Measurements

The results of all water level measurements collected between May 1, 2000, and the present time are provided in Table 2.

TABLE 1.

Shallow Water Table Elevations
August 6, 2009

Well	Top of Casing Elevation (feet)	Depth to Water (feet)	Product Thickness (inch)	Elevation Adjustment (feet)	Water Table Elevation (feet)
MW-1	9.19	5.70	0	0.00	3.49
MW-2	8.03	5.30	0	0.00	2.73
MW-3	8.82	7.11	0	0.00	1.71
MW-4	8.80	6.07	0	0.00	2.73

TOC elevations surveyed to local datum by Hageman-Aguiar, Inc., on May 3, 2000

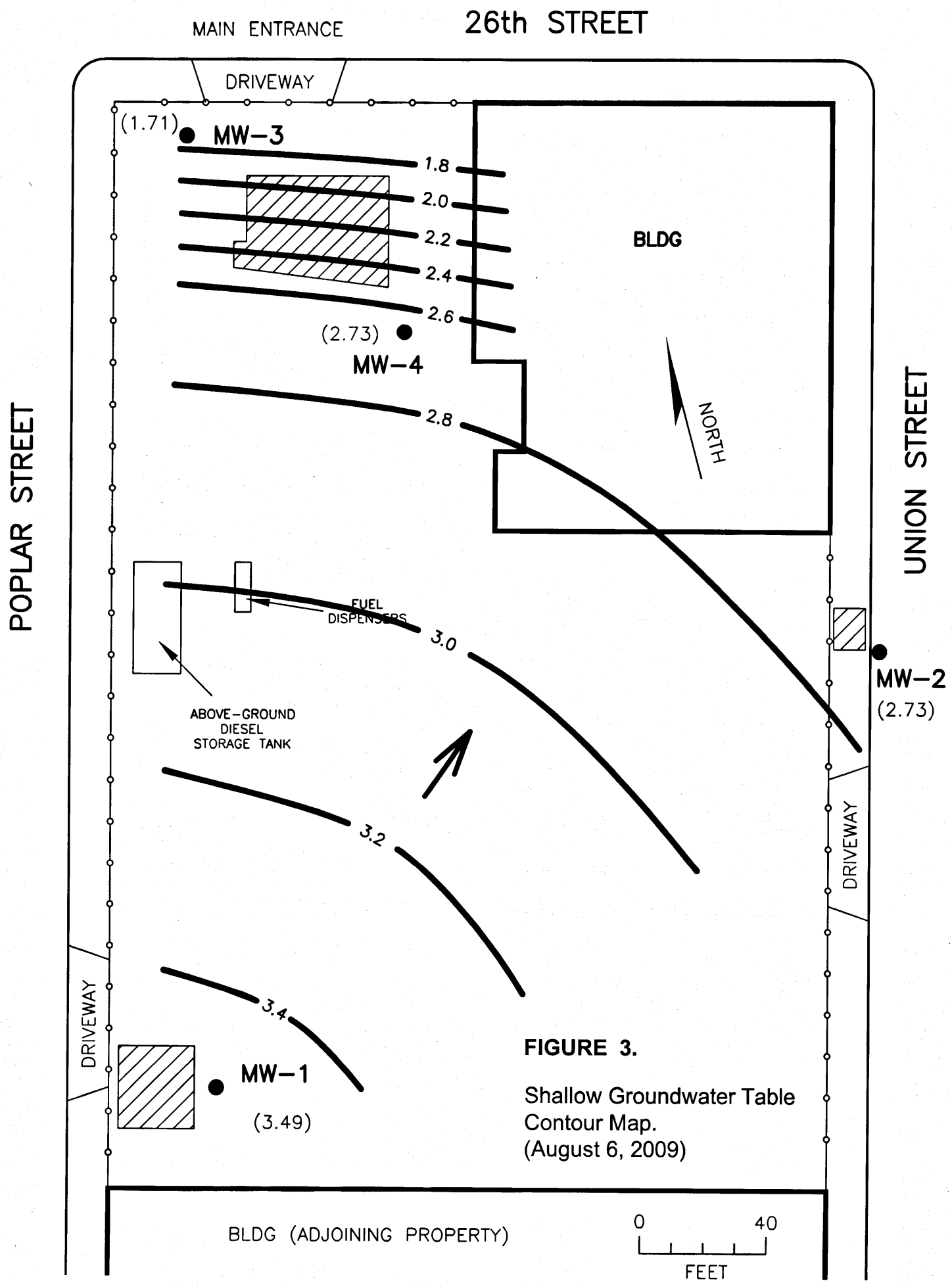

FIGURE 3.

Shallow Groundwater Table Contour Map.
(August 6, 2009)

TABLE 2.

Historical Water Table Elevations
(feet)

Well	Date of Measurement									
	05-01-00	08-23-00	08-06-09							
MW-1	2.89	35.65	3.49							
MW-2	2.94	35.68	2.73							
MW-3	1.57	35.93	1.71							
MW-4	1.78	—	2.73							
Flow Direction	N	NW	NE							
Hydraulic Gradient	0.007	0.004	0.0031							

IV. ANALYTICAL RESULTS

Laboratory Analysis

All groundwater sample analyses were conducted by a California State certified laboratory in accordance with EPA recommended procedures. The laboratory analyses were performed by McCampbell Analytical, Inc., Pittsburg, California.

All Groundwater samples were analyzed for:

1) Total Petroleum Hydrocarbons as Gasoline (method SW 8021B/8015Bm).

2) Benzene, Toluene, Ethylbenzene, Total Xylenes and MTBE (method SW 8021B/8015Bm).

3) Total Extractable Petroleum Hydrocarbons as Diesel (method SW 8015B).

Analytical Results: Shallow Groundwater

Table 3 presents the results of the laboratory analysis for groundwater samples collected from monitoring wells MW-1, MW-2, MW-3 and MW-4. Copies of the most recent laboratory reports are provided in Attachment C.

TABLE 3.

Shallow Groundwater Sampling Results

Well	Date	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH as Diesel (µg/L)
MW-1	02-02-1996	120	ND < 0.5	1.5	0.5	5.5	---	140
	05-01-1996	240	ND < 0.5	ND < 0.5	2.3	2.8	---	ND < 50
	07-29-1996	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	---	ND < 50
	10-29-1996	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	---	ND < 50
	02-18-1997	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	3,000
	04-28-1997	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50
	06-10-1997	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50
	09-05-1997	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50
	05-01-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	76
	08-09-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	340
	10-27-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	870
	08-06-2009	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	ND < 50
MW-2	02-02-1996	230	0.6	0.9	1.2	3.0	---	350
	05-01-1996	1,000	ND < 0.5	ND < 0.5	0.5	3.1	---	ND < 50
	07-29-1996	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	---	ND < 50
	10-29-1996	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	---	ND < 50
	02-18-1997	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	1,400
	04-28-1997	430	ND < 0.5	2.8	1.6	8.2	ND < 0.5	ND < 50
	06-10-1997	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50
	09-05-1997	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50
	05-01-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	ND < 50
	08-09-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	63
	10-27-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	170
	08-06-2009	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	94
MW-3	05-01-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	ND < 50
	08-09-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	ND < 50
	10-27-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	300
	08-06-2009	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	ND < 50
MW-4	05-01-2000	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	320
	08-09-2000	110	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	260
	10-27-2000	62	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	430
	08-06-2009	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5	500

ND= not detected

V. DATA ANALYSIS

The most recent shallow groundwater sampling results are indicated in Figure 4. As shown by these data, only TPH-diesel was detected in any of the groundwater samples. TPH-diesel was detected in the samples collected from wells MW-2 and MW-4 at concentrations of 94 µg/L (ppb) and 500 µg/L (ppb), respectively.

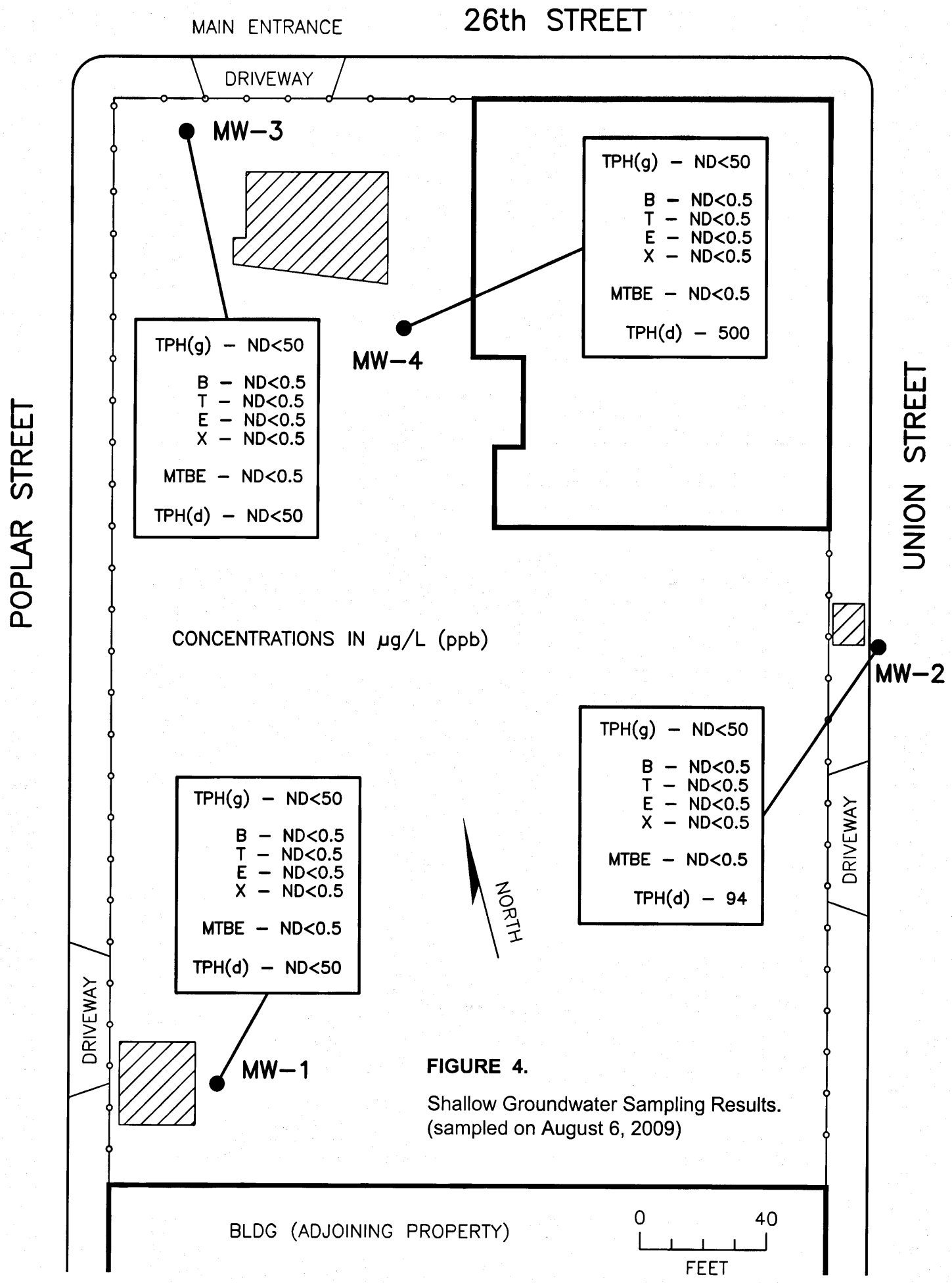

FIGURE 4.

Shallow Groundwater Sampling Results.
(sampled on August 6, 2009)

SEMI-ANNUAL GROUNDWATER MONITORING REPORT

MATHESON TRUCKING

2500 Poplar Street, Oakland, California

August 20, 2009

EXP. 9-30-09

Gary Aguiar **RCE 34262**

ATTACHMENT A

Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

July 28, 2009

ROBERT B & CAROLE L MATHESON
MATHESON TRUCKING
PO BOX 970
ELK GROVE CA 95759

Subject: Fuel Leak Case No. RO0000365 and Geotracker Global ID T0600102104, RB MATHESON HOLDINGS, 2500 POPLAR ST, Oakland CA 94607 – Groundwater Monitoring Requirements

Dear Responsible Party(ies):

The purpose of this correspondence is to inform you of changes to groundwater monitoring requirements for all fuel leak cases in California. The California State Water Resources Control Board (State Water Board) has approved Resolution No. 2009-0042 (*Actions to Improve Administration of the UST Cleanup Fund and UST Cleanup Program*). Resolution No. 2009-0042 states that, "*Regional Water Board and LOP agencies shall reduce quarterly groundwater monitoring requirements to semiannual or less frequent monitoring at all site unless site-specific needs warrant otherwise and shall notify all responsible parties of the new requirements no later than August 1, 2009. If more than semiannual monitoring is required for a case, the responsible party and State Water board shall be notified of the rationale and the notice shall be posted on Geotracker.*"

The groundwater monitoring wells at your site have not been monitored since October 2000. In accordance with Resolution No. 2009-0042, groundwater monitoring for your site is to be conducted on a semiannual basis unless site-specific needs warrant otherwise. The semiannual monitoring is to be conducted during the first and third quarters. Please present results from the semiannual groundwater monitoring in groundwater monitoring reports no later than 60 days following the groundwater sampling event.

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,

Paresh C. Khatri
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Hydro Analysis, Inc., 11100 San Pablo Avenue, Suite A, El Cerrito, CA 94530
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)
Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Paresh Khatri, ACEH (*Sent via E-mail to: paresh.khatri@acgov.org*)
Geotracker, File

ATTACHMENT B

Well Sampling Logs

HYDRO ANALYSIS, Inc.

WELL MONITORING DATA SHEET

Project: Matheson - Oakland

Water Level Measurement Date: 08/06/2009

Sampling Dates: 08/06/2009

WELL #	DEPTH TO WATER (ft)	PRODUCT	WELL DEPTH (ft)	PRODUCT REMOVED	WATER REMOVED (gal)	RISER HEIGHTS
MW-1	5.70	None	15.35	- -	6	
MW-2	5.30	None	14.22	- -	6	
MW-3	7.11	None	15.12	- -	5	
MW-4	6.07	None	15.29	- -	5.5	

WELL SAMPLING LOG

Site Location: Matheson - Oakland | Sampling Personnel: RKW | Page 1 of 4

Well Number: MW-1 | Date: 08/06/2009 | Time Began: 14:27

Weather: Partly Cloudy, Breezy, 65-75 | Time Finished: 14:44

EVACUATION DATA

		Evacuation Method		Sample Method	
Total Sounded Depth Of Well Below Top Of Casing (T.O.C.)	15.07' + 0.28'				
- Depth to Water Below MP	5.70'	PVC Bailer		Evacuation Bailer	
= Water Column in Well	9.65'	Disposable Bailer	X	Disposable Bailer	X
x Casing Diameter Multiplier	0.169 gal / ft	Pump		Pump	
= Gallons in Casing	1.63 Gallons	Other		Other	
Gallons Pumped Prior to Sampling	6 Gallons	Free Product Observed	None	Samples Filtered	No

SAMPLE BOTTLES COLLECTED: VOA's 3 AMBER 2 PLASTIC SPECIAL

SAMPLING DATA / FIELD PARAMETERS

Time	(24 hr)	14:31	14:35	14:40	14:44			
Volume Removed	(gallons)	1.5	3	4.5	6			
Temperature	(°C)	20.5	20.0	19.6	19.6			
Conductivity	(µS)	755	789	779	793			
pH		6.64	6.74	6.80	6.80			
Color		Clear	Clear	Clear	Clear			
Turbidity		Low	Low	Low	Low			
Product		None	None	None	None			
Other								

Comments: Needs new 2" locking well seal. Well box in good shape.

WELL SAMPLING LOG

Site Location: Matheson - Oakland | Sampling Personnel: RKW | Page 2 of 4

Well Number: MW-2 | Date: 08/06/2009 | Time Began: 15:05

Weather: Partly Cloudy, Breezy, 65-75 | Time Finished: 15:17

EVACUATION DATA

		Evacuation Method		Sample Method	
Total Sounded Depth Of Well Below Top Of Casing (T.O.C.)	13.94' + 0.28'				
- Depth to Water Below MP	5.30'	PVC Bailer		Evacuation Bailer	
= Water Column in Well	8.92'	Disposable Bailer	X	Disposable Bailer	X
x Casing Diameter Multiplier	0.169 gal / ft	Pump		Pump	
= Gallons in Casing	1.51 Gallons	Other		Other	
Gallons Pumped Prior to Sampling	6 Gallons	Free Product Observed	None	Samples Filtered	No

SAMPLE BOTTLES COLLECTED: VOA's 3 AMBER 2 PLASTIC _____ SPECIAL _____

SAMPLING DATA / FIELD PARAMETERS

Time	(24 hr)	15:09	15:12	15:15	15:17			
Volume Removed	(gallons)	1.5	3	4.5	6			
Temperature	(°C)	22.8	22.4	22.4	22.8			
Conductivity	(µS)	1,565	1,603	1,593	1,610			
pH		6.76	6.78	6.79	6.81			
Color		Gray	Gray	Gray	Gray			
Turbidity		Low	Medium	Medium	Medium			
Product		None	None	None	None			
Other								

Comments: Needs new 2" locking well seal. Well box in acceptable shape.

WELL SAMPLING LOG

Site Location: Matheson - Oakland | Sampling Personnel: RKW | Page 3 of 4

Well Number: MW-3 | Date: 08/06/2009 | Time Began: 16:18

Weather: Partly Cloudy, Breezy, 65-75 | Time Finished: 16:54

EVACUATION DATA

		Evacuation Method		Sample Method	
Total Sounded Depth Of Well Below Top Of Casing (T.O.C.)	14.84' + 0.28'				
- Depth to Water Below MP	7.11'	PVC Bailer		Evacuation Bailer	
= Water Column in Well	8.01'	Disposable Bailer	X	Disposable Bailer	X
x Casing Diameter Multiplier	0.169 gal / ft	Pump		Pump	
= Gallons in Casing	1.35 Gallons	Other		Other	
Gallons Pumped Prior to Sampling	5 Gallons	Free Product Observed	None	Samples Filtered	No

SAMPLE BOTTLES COLLECTED: VOA's 3 AMBER 2 PLASTIC _____ SPECIAL _____

SAMPLING DATA / FIELD PARAMETERS

Time	(24 hr)	16:21	16:24	16:27	16:33	16:54		
Volume Removed	(gallons)	1.5	3	4.5	5	Sample		
Temperature	(°C)	22.6	21.7	21.1	20.9	21.4		
Conductivity	(µS)	985	974	961	978	982		
pH		6.89	7.01	7.08	7.12	7.19		
Color		Clear	Tan	Tan	Tan	Clear		
Turbidity		Low	Low	Medium	Medium	Low		
Product		None	None	None	None	None		
Other					Dewatered			

Comments: Needs new 2" locking well seal. Well box in good shape.

WELL SAMPLING LOG

Site Location: Matheson - Oakland | Sampling Personnel: RKW | Page 4 of 4

Well Number: MW-4 | Date: 08/06/2009 | Time Began: 15:33

Weather: Partly Cloudy, Breezy, 65-75 | Time Finished: 16:06

EVACUATION DATA

		Evacuation Method		Sample Method	
Total Sounded Depth Of Well Below Top Of Casing (T.O.C.)	15.01' + 0.28'				
- Depth to Water Below MP	6.07'	PVC Bailer		Evacuation Bailer	
= Water Column in Well	9.22'	Disposable Bailer	X	Disposable Bailer	X
x Casing Diameter Multiplier	0.169 gal / ft	Pump		Pump	
= Gallons in Casing	1.56 Gallons	Other		Other	
Gallons Pumped Prior to Sampling	5.5 Gallons	Free Product Observed	None	Samples Filtered	No

SAMPLE BOTTLES COLLECTED: VOA's 3 AMBER 2 PLASTIC _____ SPECIAL _____

SAMPLING DATA / FIELD PARAMETERS

Time	(24 hr)	15:36	15:39	15:43	15:47	16:06		
Volume Removed	(gallons)	1.5	3	4.5	5.5	Sample		
Temperature	(°C)	20.9	20.3	20.0	19.9	20.3		
Conductivity	(µS)	1,191	1,186	1,221	1,200	1,157		
pH		6.71	6.74	6.77	6.87	6.98		
Color		Gray	Gray	Gray	Gray	Clear		
Turbidity		Low	Low	High	High	Low		
Product		Sheen	Sheen	None	None	None		
Other					Dewatered			

Comments: Needs new 2" locking well seal. Well box broken - needs to be replaced.

ATTACHMENT C

Analytical Results

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Hydro Analysis, Inc. 11100 San Pablo Ave., Suite 200-A El Cerrito, CA 94530	Client Project ID: Matheson-Oakland, 2500 Polar Street	Date Sampled: 08/06/09
		Date Received: 08/07/09
	Client Contact: Randal Wilson	Date Reported: 08/12/09
	Client P.O.:	Date Completed: 08/12/09

WorkOrder: 0908209

August 12, 2009

Dear Randal:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **Matheson-Oakland, 2500 Polar Stre**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0908209

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NAME AND ADDRESS:
Matheson-Oakland
2500 Poplar Street
Oakland
T0600102104

SAMPLER (Signature)
Randal Wilson

HYDRO ANALYSIS, INC.
11100 San Pablo Ave., Suite 209
El Cerrito, CA 94530
(510) 620-0891 (510) 620-0891
LogCode: HAIE

ANALYSIS REQUESTED: TPH-Gasoline, TPH-Diesel, BTEX, MTBE

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	SAMPLE LOCATION	REMARKS
MW-1	08/06/09	14:44		X	Monitor Well # MW-1	2amber, 3 HCl VOA
MW-2	08/06/09	15:17		X	Monitor Well # MW-2	
MW-3	08/06/09	16:54		X	Monitor Well # MW-3	
MW-4	08/06/09	16:06		X	Monitor Well # MW-4	

ICE / t° 5.2
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
PRESERVATION
APPROPRIATE CONTAINERS
PRESERVED IN LAB
VOAS | O & G | METALS | OTHER

TURNAROUND TIME: 5 Day
EDF/EDD FILES? (Y) N
email report to: Randal@HydroAnalysis.com, Gary@HydroAnalysis.com

RELINQUISHED BY: (Signature) Randal Wilson	DATE 08/07/09 TIME 16:58	RECEIVED BY: (Signature) Envirotech T.L	DATE 8-7-09 TIME 16:57
RELINQUISHED BY: (Signature) Enviro Tech	DATE 8/7/09 TIME 1709	RECEIVED BY: (Signature) Dirk Costa	DATE 8-7-09 TIME 16:57
RELINQUISHED BY: (Signature) Dirk Costa	DATE 8/7/09 TIME 1735	RECEIVING LABORATORY (Signature or Stamp)	DATE TIME

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0908209 **ClientCode: HAI**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Randal Wilson
Hydro Analysis, Inc.
11100 San Pablo Ave., Suite 200-A
El Cerrito, CA 94530
(510) 620-0891 FAX (510) 620-0894

Email: randal@hydroanalysis.com
cc:
PO:
ProjectNo: Matheson-Oakland, 2500 Polar Street

Bill to:
Accounts Payable
Hydro Analysis, Inc.
11100 San Pablo Ave., Suite 200-A
El Cerrito, CA 94530

Requested TAT: 5 days

Date Received: **08/07/2009**
Date Printed: **08/07/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0908209-001	MW-1	Water	8/6/2009 14:44	☐	A	A	B									
0908209-002	MW-2	Water	8/6/2009 15:17	☐	A		B									
0908209-003	MW-3	Water	8/6/2009 16:54	☐	A		B									
0908209-004	MW-4	Water	8/6/2009 16:06	☐	A		B									

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3	TPH(D)_W	4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Hydro Analysis, Inc.**
Date and Time Received: **8/7/2009 9:28:32 PM**

Project Name: **Matheson-Oakland, 2500 Polar Street**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0908209** Matrix Water
Carrier: Derik Cartan (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 5.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Hydro Analysis, Inc.	Client Project ID: Matheson-Oakland, 2500 Polar Street	Date Sampled: 08/06/09
		Date Received: 08/07/09
11100 San Pablo Ave., Suite 200-A	Client Contact: Randal Wilson	Date Extracted: 08/11/09-08/12/09
El Cerrito, CA 94530	Client P.O.:	Date Analyzed: 08/11/09-08/12/09

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 0908209

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	ND	ND	ND	ND	ND	ND	1	102	
002A	MW-2	W	ND	ND	ND	ND	ND	ND	1	85	
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	105	
004A	MW-4	W	ND	ND	ND	ND	ND	ND	1	96	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Hydro Analysis, Inc.	Client Project ID: Matheson-Oakland, 2500 Polar Street	Date Sampled: 08/06/09
		Date Received: 08/07/09
11100 San Pablo Ave., Suite 200-A	Client Contact: Randal Wilson	Date Extracted: 08/07/09
El Cerrito, CA 94530	Client P.O.:	Date Analyzed 08/08/09-08/10/09

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C Analytical methods: SW8015B Work Order: 0908209

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
0908209-001B	MW-1	W	ND	1	106	
0908209-002B	MW-2	W	94	1	94	e2
0908209-003B	MW-3	W	ND	1	94	
0908209-004B	MW-4	W	500	1	94	e1/e3

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in ug/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e1) unmodified or weakly modified diesel is significant; and/or e3) aged diesel is significant
e2) diesel range compounds are significant; no recognizable pattern

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45065 WorkOrder: 0908209

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 0908209-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	109	104	5.12	102	89.4	13.4	70 - 130	20	70 - 130	20
MTBE	ND	10	111	113	1.23	105	93.3	12.0	70 - 130	20	70 - 130	20
Benzene	ND	10	106	113	5.99	114	108	5.07	70 - 130	20	70 - 130	20
Toluene	ND	10	104	109	4.81	112	106	5.03	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	105	110	4.39	112	106	5.78	70 - 130	20	70 - 130	20
Xylenes	ND	30	103	108	5.34	110	100	9.46	70 - 130	20	70 - 130	20
%SS:	96	10	97	100	3.00	101	105	3.82	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45065 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908209-001A	08/06/09 2:44 PM	08/12/09	08/12/09 2:37 AM	0908209-002A	08/06/09 3:17 PM	08/12/09	08/12/09 3:11 AM
0908209-003A	08/06/09 4:54 PM	08/12/09	08/12/09 3:44 AM	0908209-004A	08/06/09 4:06 PM	08/11/09	08/11/09 7:41 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 44978 WorkOrder 0908209

EPA Method SW8015B **Extraction SW3510C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	114	115	0.433	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	115	115	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 44978 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908209-001B	08/06/09 2:44 PM	08/07/09	08/10/09 8:19 PM	0908209-002B	08/06/09 3:17 PM	08/07/09	08/08/09 11:44 PM
0908209-003B	08/06/09 4:54 PM	08/07/09	08/09/09 12:52 AM	0908209-004B	08/06/09 4:06 PM	08/07/09	08/09/09 2:01 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer