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Environmental Health

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October 25, 2010

**Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
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SUBJECT: RESPONSIBLE PARTY PERJURY STATEMENT FOR ALAMEDA COUNTY FTP WEBSITE TECHNICAL REPORT SUBMITTAL REQUIREMENT FOR REPORTING OF ONE GROUNDWATER MONITORING SAMPLING EVENT (OCTOBER 20, 2010) ASSOCIATED WITH THE FORMER UNDERGROUND STORAGE TANKS (USTs) AT THE FORMER BILL CHUN'S SERVICE STATION LOCATED @ 2301 SANTA CLARA AVENUE, ALAMEDA, CA

To Alameda County Environmental Health,

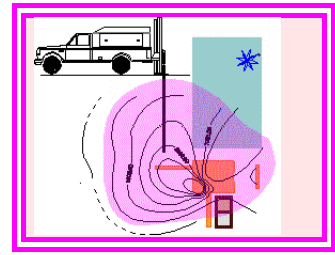
"I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge."

Sincerely,



Wayne Chun

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Environmental and Hydrogeological Consulting
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fjgoldmanchg@yahoo.com



October 20, 2010

Jerry Wickham
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Subject: Groundwater Monitoring of Hydrocarbons Related to the Former Underground Storage Tanks at the FORMER BILL CHUN SERVICE STATION @ 2301 SANTA CLARA AVENUE, ALAMEDA, CA 94501

Mr. Wickham:

This report summarizes the laboratory results of analyses performed for dissolved gasoline constituents in groundwater. This groundwater monitoring event represents a compilation of data covering the onsite wells and the down gradient wells installed on the Towata property. The concentrations of dissolved gasoline range organics (GROs) and benzene continues to exhibit a consistent overall decrease over many years.

Given that the plume has been demonstrated to be stable and that natural attenuation processes are occurring, site closure continues to be recommended. It also appears that Water Quality Objects are likely to be attained within a reasonable period of time based upon the significant rate of decrease of dissolved hydrocarbons beneath the site and the Towata property.

Sincerely,



Franklin J. Goldman
Certified Hydrogeologist No. 466

GROUNDWATER FLOW DIRECTION

On August 20, 21 and 22, 2010, a Slope Indicator water level meter was used to measure the depth to groundwater in the groundwater monitor and extraction wells. The measurements were read to the nearest 100th of a foot from the top of the casing where the elevation was established by a certified land survey.

Groundwater was encountered at depths ranging from approximately between seven (7) and eleven and one half (11½) feet bgs and the gradient flow and direction was estimated to be to the east-southeast at 0.03 (See [Figure 1 for Groundwater Gradient Flow and Direction Map](#)) and ([Table 1 for Depth to Water Level Measurements](#)).

WELL PURGING AND DEVELOPMENT

Depth to groundwater was measured prior to purging to use as a reference elevation. Purging of the wells was performed by the use of 1 3/4 inch diameter disposable check valve bailers. Each well was sampled after the well purging process which entailed the removal of approximately three (3) or more well volumes from each well, allowing the water level to recover to at least 80% of the original, static water level. Temperature, electrical conductivity, and pH were monitored so that the three parameters demonstrated an error difference of within 10% from one another, over three consecutive readings (See [Appendix A for Well Purging Logs](#)). The recorded data were used to verify that a sufficient volume of groundwater had been removed from each well casing so that anomalies caused by remnant well casing storage would not preclude us from obtaining a groundwater sample which would be representative of the aquifer contaminant distribution as a whole.

GROUNDWATER SAMPLING FROM WELLS

Water samples were collected by lowering a plastic disposable bailer down the center of the well casing. Water samples were contained in 40-milliliter VOA vials through a low flow bottom draining plastic tube inserted into the bottom of the bailer for TPH-g, MTBE, and BTEX analyses. EPA Method 8260b for 5 oxygenates and two lead scavengers was used to confirm the presence of MTBE and other gasoline constituents. The samples were labeled and stored on ice until delivered, under chain-of-custody procedures, to American Analytics, Inc. of Chatsworth, California, a State-certified analytical laboratory.

LABORATORY RESULTS OF HYDROCARBONS IN GROUNDWATER

Dissolved GROs and benzene in groundwater have demonstrated a general decrease in all wells since monitoring was initiated (See [Appendix B for Laboratory Data Sheets](#)) and ([Table 2 for Historical Trends of GRO and Benzene concentrations](#)). The dissolved plumes of GROs and benzene in groundwater still appear to be centered in the general vicinity of the former USTs on site and extend underneath the flower shop downgradient (See [Figures 2 and 3 for GRO and benzene concentration maps](#)).

Dissolved GRO and benzene continue to exhibit decreasing trends in representative groundwater monitor wells MW-11 and MW-13. Increases in concentrations have been typically associated with decreases in the measured depth to groundwater (See [Figures 4, 5, 6 and 7 for graphs of GRO & benzene concentrations vs. time](#)).

FIELD CLEANUP

Well purge water was placed in properly labeled 55 gallon drums left on-site for transport to a legal point of disposal.

CONCLUSIONS

The center of the dissolved GRO and benzene plumes is located around the former UST location and beneath the Towata flower shop. The dissolved GRO and benzene plumes have been demonstrated to be decreasing over many years and will very likely attain water quality objectives within a reasonable period of time.

RECOMMENDATIONS

Close the site and properly abandon the wells.

LIMITATIONS

This report has been prepared in accordance with generally accepted environmental, geological and engineering practices. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analyses, conclusions and recommendations contained in this report are based upon site conditions as they existed at the time of the investigation and they are subject to change.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this report. Franklin J. Goldman, recognizes that the limited scope of services performed in execution of this investigation may not be appropriate to satisfy the needs, or requirements of other state agencies, or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein, is done so at the sole risk of the said user.

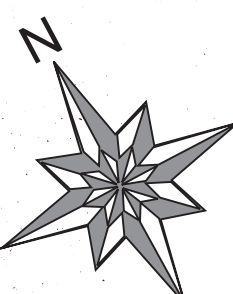
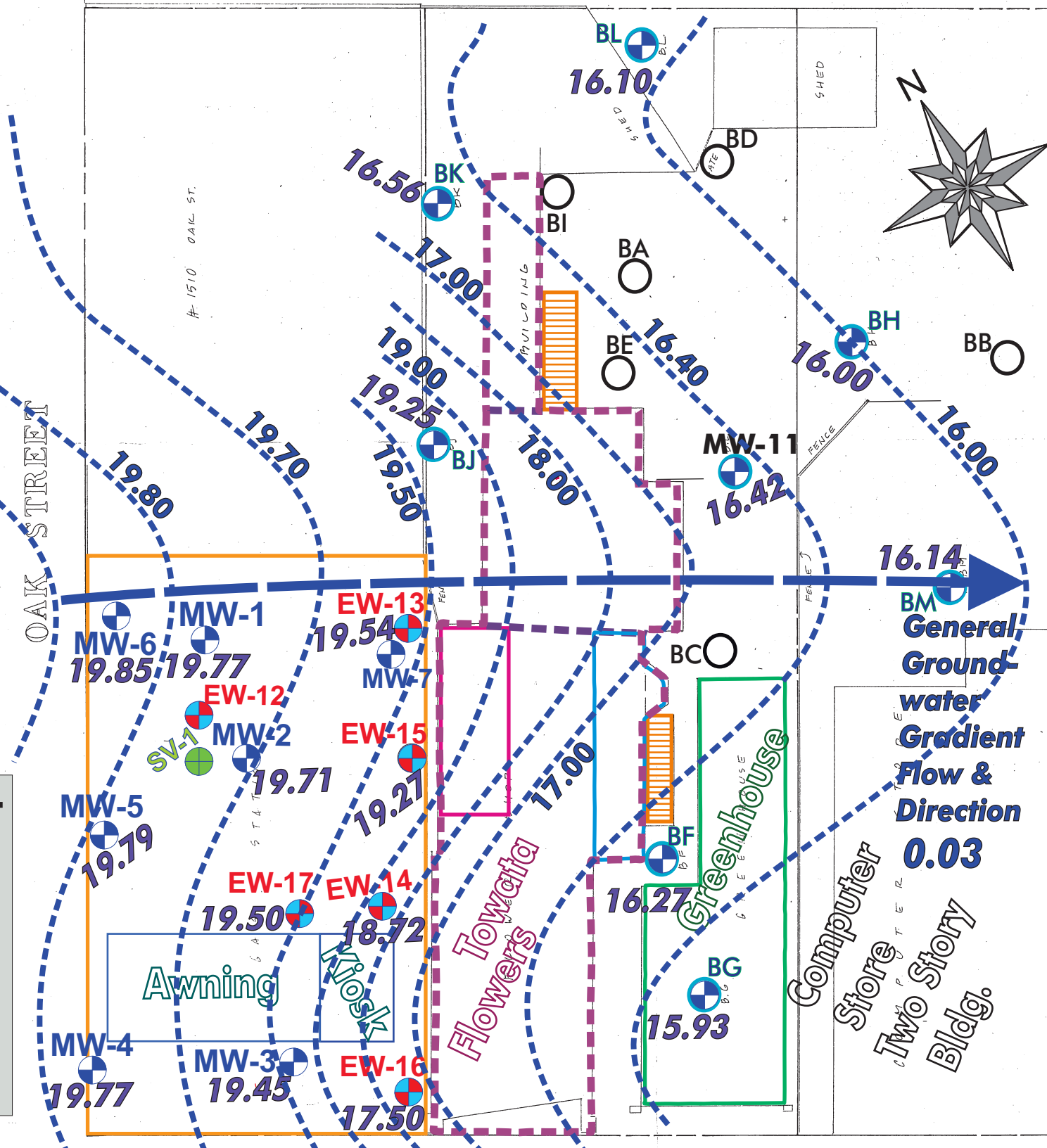


Approximate Scale in Feet
Map Adapted from Certified
Land Surveys

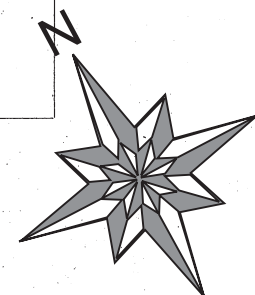
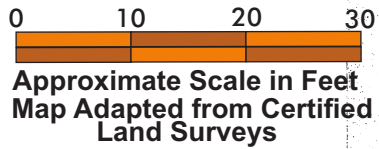
Figure 1

MW-10
20.23

Lines of equal ground-
water level elevation
August 22, 2010
CHUN - 2301 Santa
Clara Ave., Alameda
Located at the north
east corner of the inter-
section of Oak Street
and Santa Clara Avenue



General
Ground-
water
Gradient
Flow &
Direction
0.03



MW-9
ND

MW-10
ND

Lines of equal concentrations (ppb) of dissolved Gasoline Range Organics in groundwater Sampled on August 20, 21, & 22, 2010 Located at the north east corner of the intersection of Oak Street and Santa Clara Avenue

OAK STREET

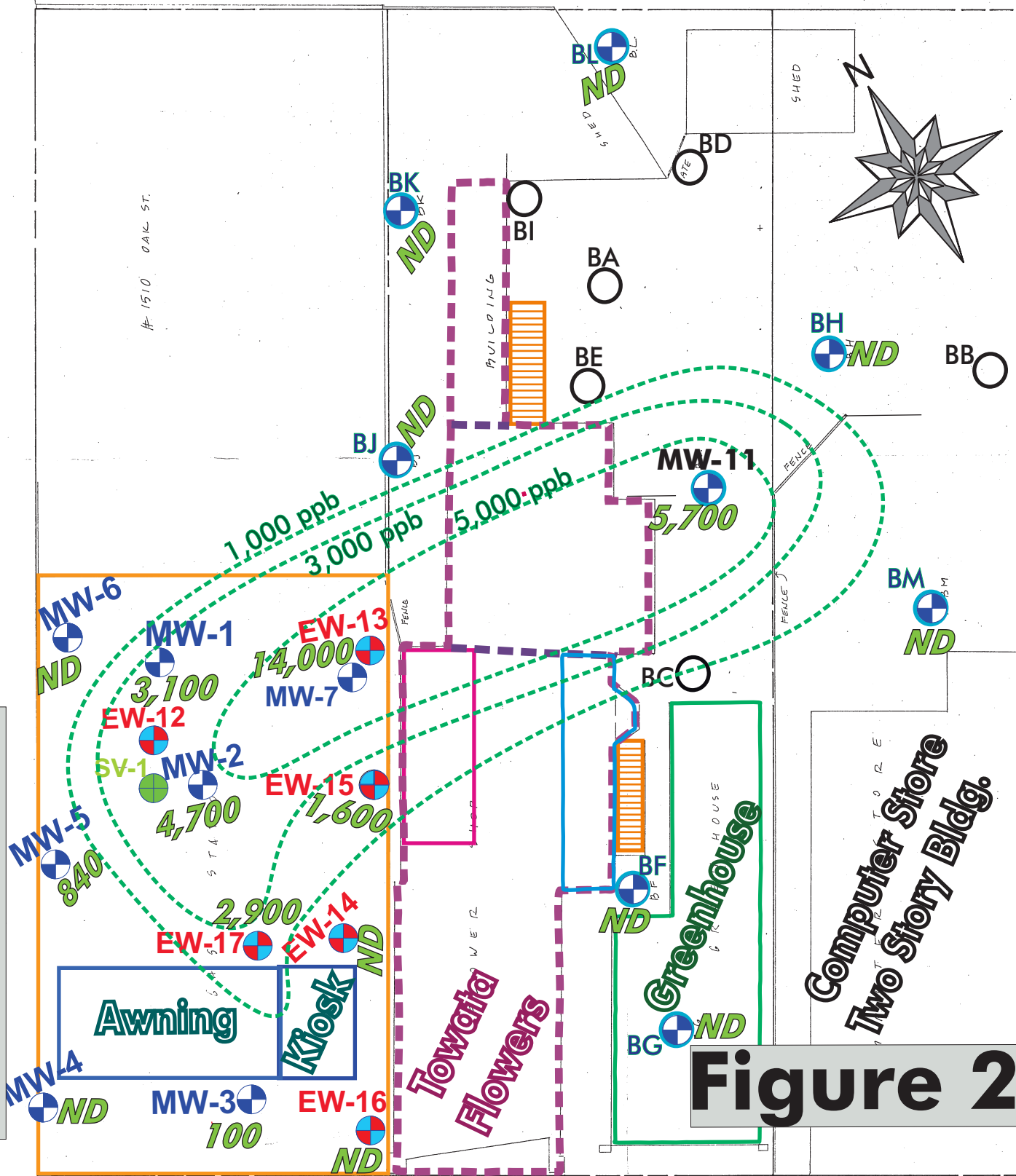
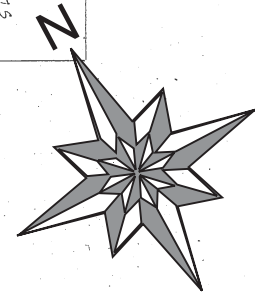
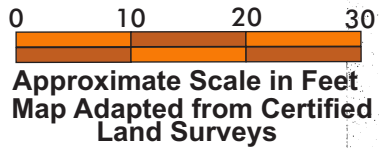


Figure 2



MW-9
 ND

MW-10
 ND

Lines of equal concentrations (ppb) of dissolved benzene in groundwater
Sampled on August 20, 21, & 22, 2010
Located at the north east corner of the intersection of Oak Street and Santa Clara Avenue

OAK STREET

1510 OAK ST.

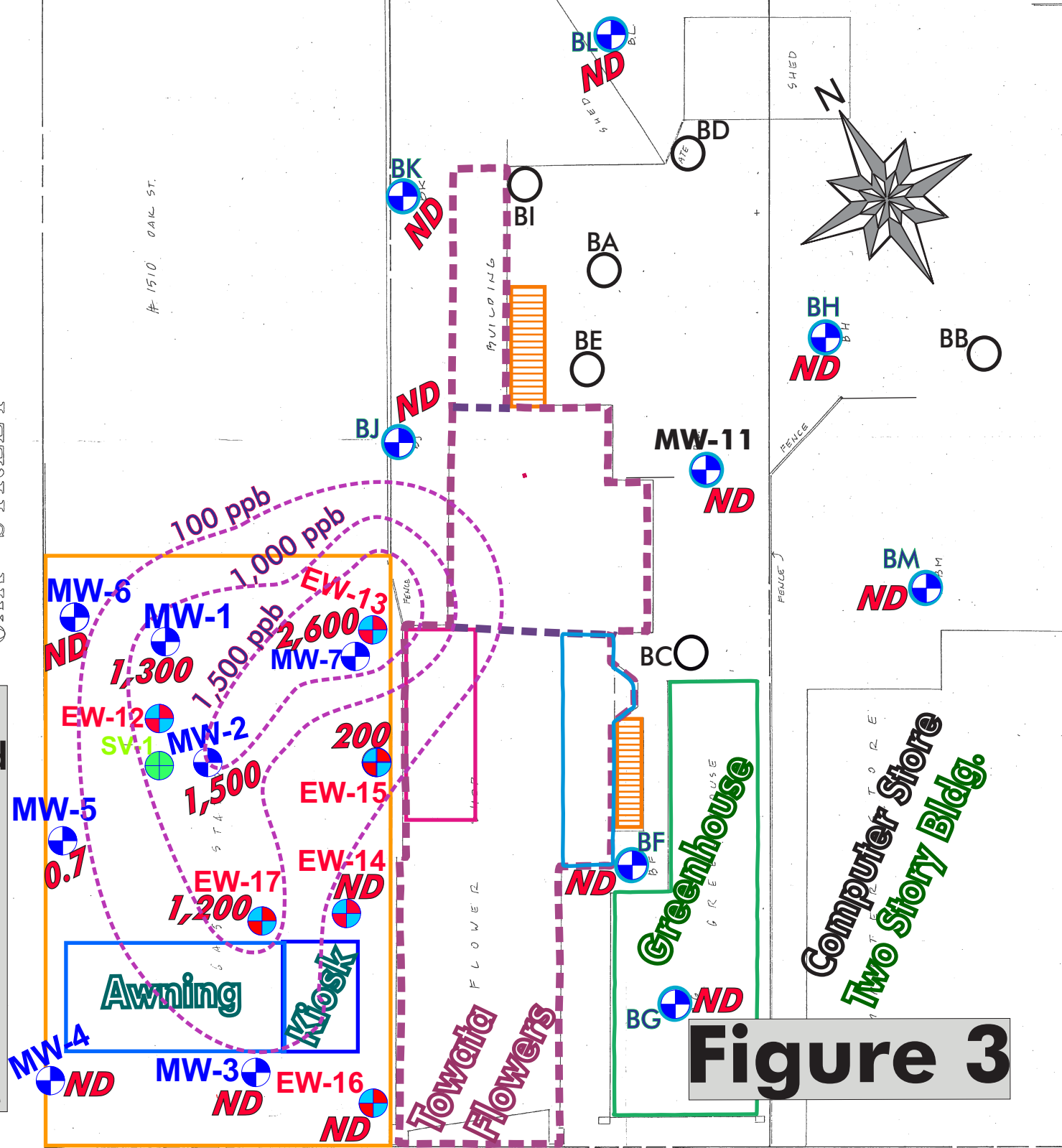
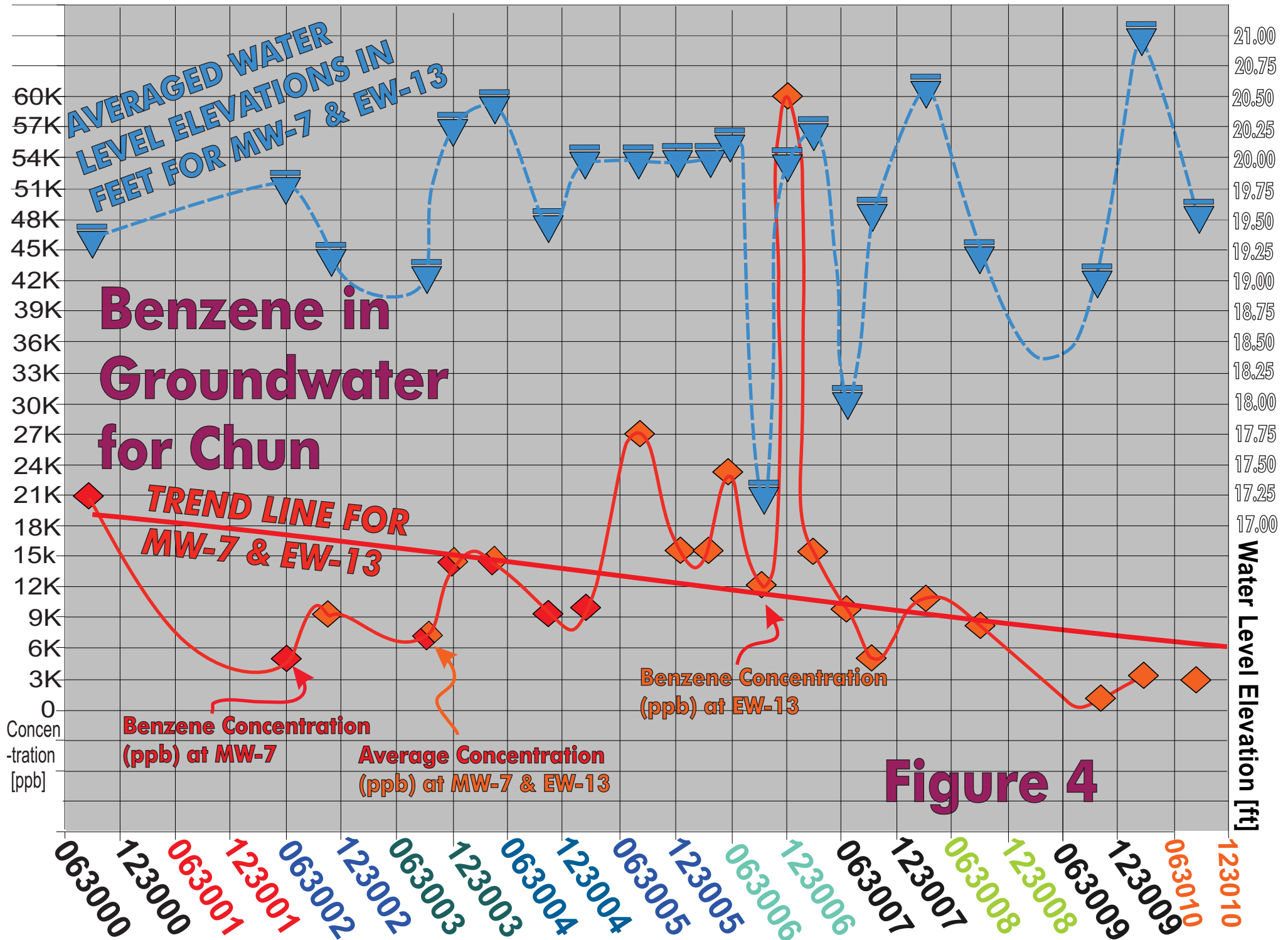


Figure 3



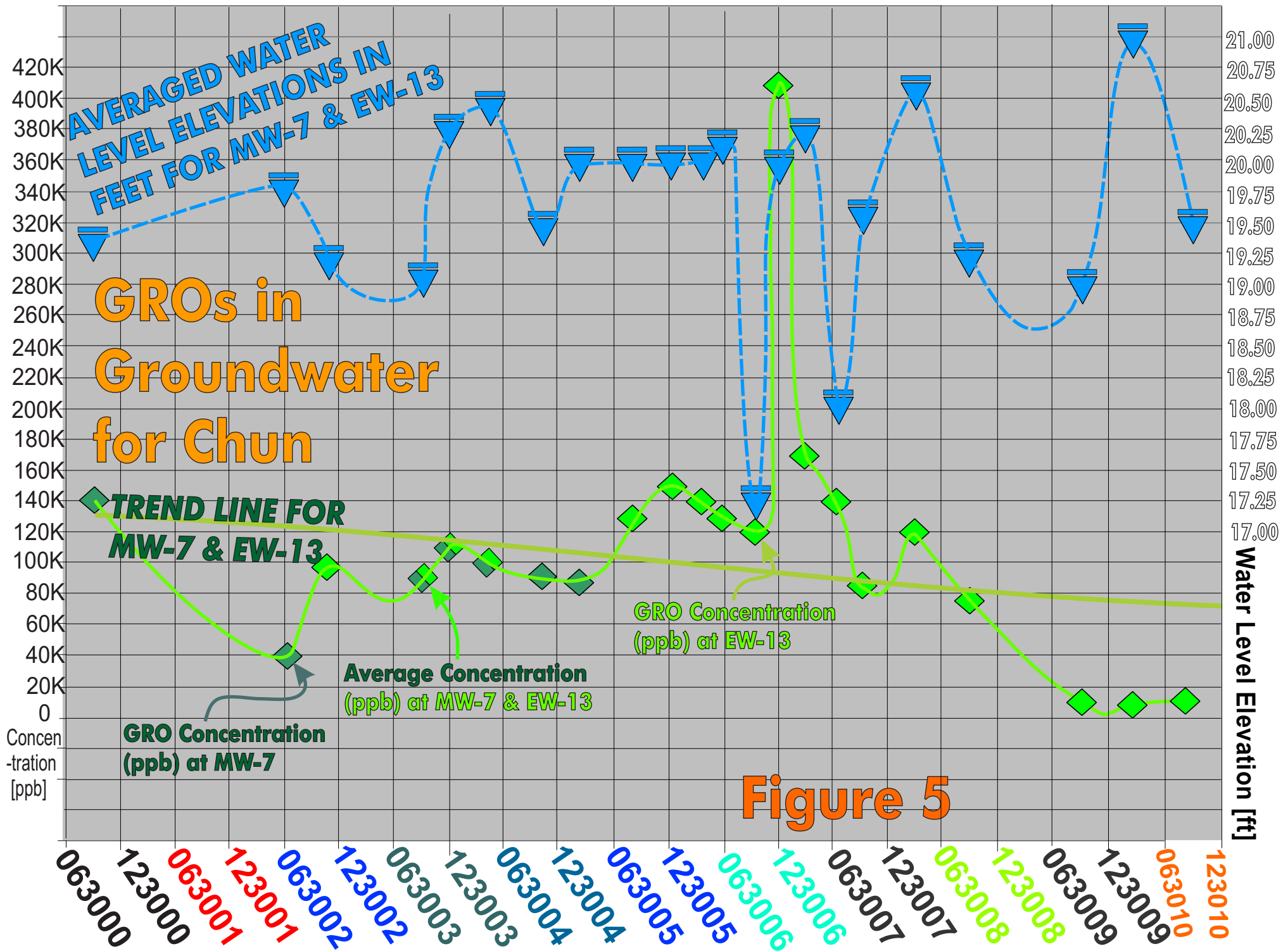


Figure 5

Benzene in Groundwater for Chun

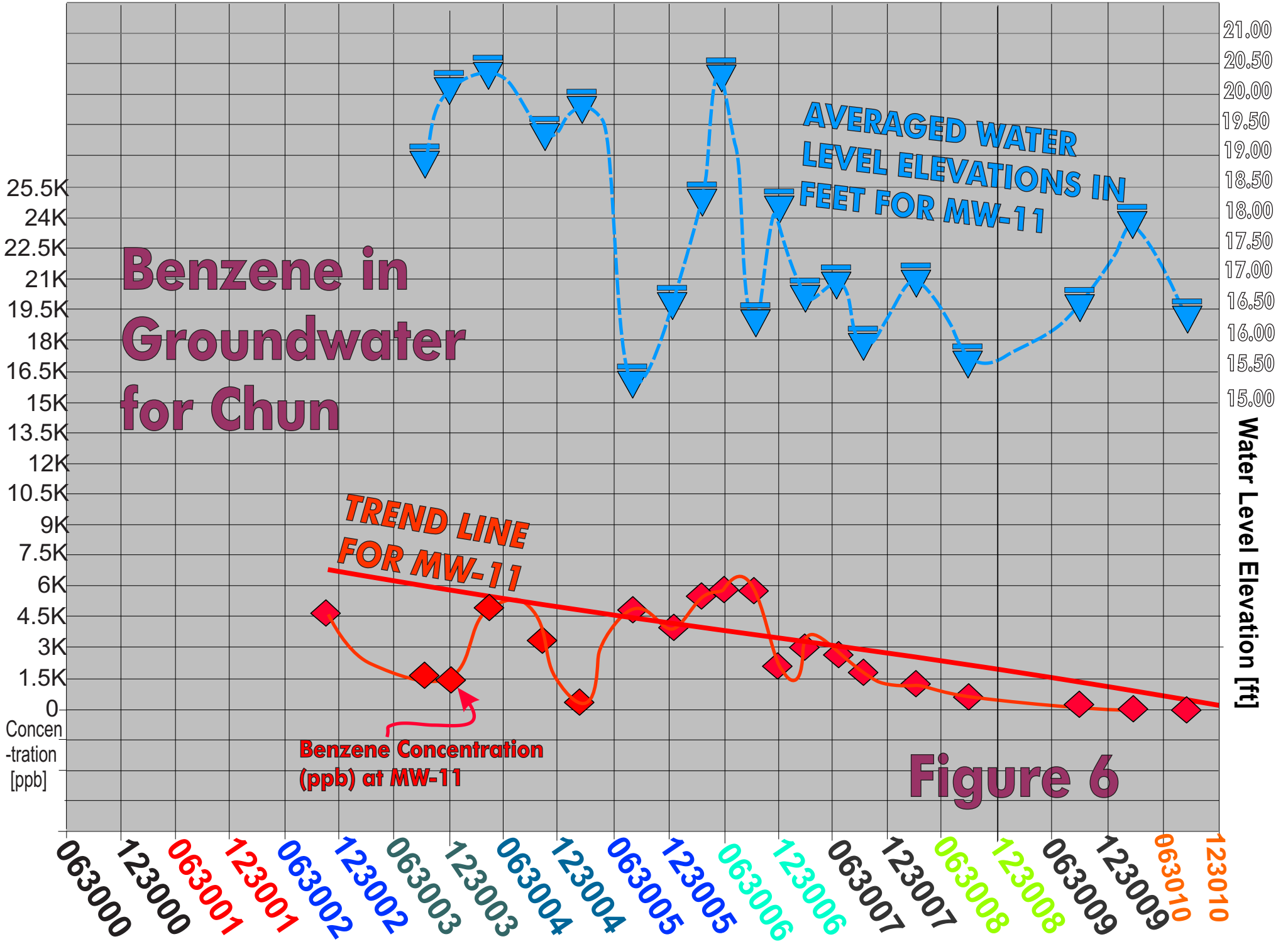


Figure 6

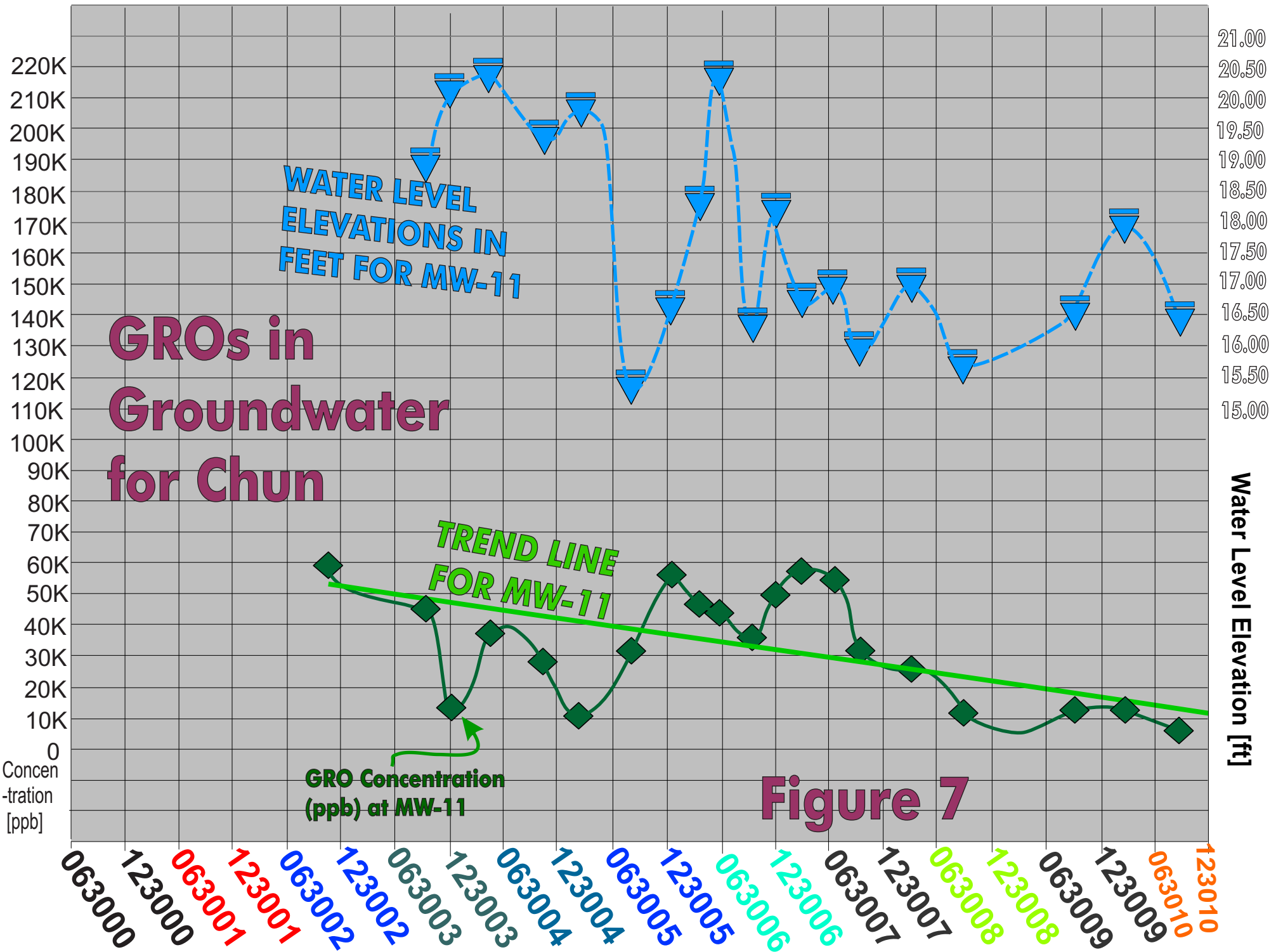


TABLE 1
Depth to Groundwater Measurements August 20, 2010
Chun/Towata Properties - 2301 Santa Clara Avenue, Alameda

Well No.	Depth to Water from TOC (feet bgs)	TOC Elevation (feet) MSN	Water Level Elevation (feet)
MW-1	8.72	28.49	19.77
MW-2	8.76	28.47	19.71
MW-3	9.33	28.78	19.45
MW-4	8.76	28.53	19.77
MW-5	8.54	28.33	19.79
MW-6	8.51	28.36	19.85
MW-7		28.44	
MW-8	8.25	28.17	19.92
MW-9	7.68	27.45	19.77
MW-10	7.09	27.32	20.23
MW-11	8.75	25.17	16.42
EW-12		28.25	
EW-13	9.10	28.64	19.54
EW-14	10.49	29.21	18.72
EW-15	9.44	28.71	19.27
EW-16	11.52	29.02	17.50
EW-17	9.45	28.95	19.50
BL	9.27	25.37	16.10
BK	8.46	25.02	16.56
BJ	5.78	25.03	19.25
BH	9.18	25.18	16.00
BM	9.03	25.17	16.14
BF	9.39	25.66	16.27
BG	9.92	25.85	15.93

TABLE 2 - Chun
Representative Analytical for Gasoline in Groundwater Trends (ppb)

Well Identification	Date	GROs	Benzene
MW-1	(08-21-10)	3,100	1,300
	(02-27-10)	4,100	1,600
	(09-26-09)	4,100	1,600
	(09-06-08)	8,300	2,300
	(03-09-08)	45,000	9,400
	(09-23-07)	22,000	4,700
	(07-08-07)	57,000	11,000
	(03-24-07)	71,000	15,000
	(01-04-07)	46,000	6,500
	(09-05-06)	62,000	17,000
	(06-11-06)	65,000	21,000
	(03-13-06)	72,000	17,000
	(11-26-05)	6,400	2,600
	(08-20-05)	35,000	14,000
	(08-08-04)	29,000	9,700
	(04-24-04)	33,000	8,000
	(12-25-03)	12,000	3,400
	(09-20-03)	19,000	4,900
	(07-04-02)	43,000	7,200
(09-17-00)	65,000	15,000	
MW-2	(08-21-10)	4,700	1,500
	(02-27-10)	3,600	2,500
	(09-25-09)	5,500	1,800
	(09-06-08)	6,300	3,000
	(03-09-08)	37,000	10,700

Well Identification	Date	GROs	Benzene
MW-3	(09-23-07)	14,000	6,700
	(07-08-07)	56,000	5,400
	(03-24-07)	52,000	12,000
	(01-04-07)	17,000	4,300
	(09-05-06)	24,000	8,100
	(06-11-06)	37,000	12,000
	(03-13-06)	50,000	15,000
	(11-26-05)	38,000	11,000
	(08-20-05)	31,000	10,000
	(08-08-04)	21,000	6,800
	(04-24-04)	44,000	8,400
	(12-25-03)	46,000	6,100
	(09-21-03)	27,000	2,400
	(07-04-02)	41,000	5,600
	(09-17-00)	140,000	21,000
	(06-21-10)	100	<0.5
	(02-27-10)	720	120
	(09-26-09)	2,200	240
	(09-06-08)	2,600	500
	(03-09-08)	7,300	1,300
	(09-22-07)	1,300	5,600
	(07-08-07)	5,600	1,500
	(03-24-07)	8,000	1,600
	(01-04-07)	5,500	1,400
	(09-05-06)	6,000	1,500
	(06-11-06)	7,000	2,000
	(03-13-06)	6,400	2,100
	(11-26-05)	6,100	1,200

Well Identification	Date	GROs	Benzene
MW-4	(08-20-05)	5,500	3,000
	(08-08-04)	2,500	400
	(04-24-04)	3,100	1,000
	(12-25-03)	3,300	290
	(09-21-03)	2,700	320
	(07-04-02)	10,000	2,300
	(09-17-00)	9,300	3,000
	(08-20-10)	<100	<0.50
	(02-27-10)	130	<0.50
	(09-26-09)	<100	<0.50
	(09-05-08)	170	<0.50
	(03-08-08)	860	<0.50
	(09-23-07)	<100	<0.50
	(07-08-07)	<100	<0.50
	(03-24-07)	120	<0.50
	(01-04-07)	<100	<0.50
	(09-05-06)	760	<0.50
	(06-12-06)	1,500	0.89
	(03-13-06)	320	<0.50
	(11-26-05)	<100	<0.50
MW-5	(08-20-05)	1,100	1.5
	(08-08-04)	ND	ND
	(04-24-04)	3,000	0.97
	(12-25-03)	ND	ND
	(09-20-03)	ND	ND
	(07-04-02)	ND	ND
	(09-17-00)	ND	ND
	(08-20-10)	840	0.7

Well Identification	Date	GROs	Benzene
MW-6	(02-27-10)	2,100	5.8
	(09-25-09)	4,000	7.9
	(09-05-08)	740	<0.50
	(03-08-08)	16,000	50
	(09-24-07)	16,000	490
	(07-08-07)	23,000	72
	(03-24-07)	19,000	60
	(01-04-07)	20,000	110
	(09-05-06)	15,000	56
	(06-12-06)	14,000	91
	(03-13-06)	21,000	61
	(11-26-05)	38,000	110
	(08-20-05)	19,000	130
	(08-08-04)	13,000	82
	(04-24-04)	13,000	97
	(12-25-03)	2,300	140
	(09-21-03)	8,700	ND
	(07-04-02)	16,000	89
	(09-17-00)	44,000	490
	(08-21-10)	<100	<0.50
	(02-27-10)	230	1.3
	(09-25-09)	170	0.66
	(09-05-08)	730	2.0
(03-08-08)	1,500	3.4	
(09-23-07)	1,200	2.8	
(07-08-07)	720	2.8	
(03-24-07)	3,300	7.2	
(01-04-07)	390	2.0	

Well Identification	Date	GROs	Benzene
MW-7	(09-05-06)	1,100	4.4
	(06-12-06)	910	3.3
	(03-13-06)	<100	<0.50
	(11-26-05)	480	1.4
	(08-20-05)	810	<0.5
	(08-08-04)	320	2.7
	(04-24-04)	110	3.6
	(12-25-03)	1,200	18
	(09-20-03)	500	15
	(07-04-02)	3,900	29
	(09-17-00)	10,000	110
	(09-05-06)	62,000	17,000
	(06-12-06)	NA	NA
	(03-13-06)	NA	NA
	(08-20-05)	NA	NA
	(08-08-04)	92,000	9,300
	(04-24-04)	100,000	10,000
	(12-25-03)	110,000	12,000
	(09-21-03)	110,000	4,200
	(07-04-02)	140,000	15,000
MW-8	(09-17-00)	220,000	32,000
	(08-20-10)	<100	<0.5
	(02-26-10)	<100	<0.5
	(09-25-09)	<100	<0.5
	(09-05-08)	<100	<0.5
	(03-08-08)	<100	<0.5
	(09-21-07)	<100	<0.5
	(07-07-07)	<100	2.0

Well Identification	Date	GROs	Benzene
MW-9	(03-22-07)	500	6.0
	(01-06-07)	390	4.4
	(09-06-06)	<100	1.4
	(06-12-06)	<100	<0.5
	(03-13-06)	<100	<0.5
	(11-27-05)	<100	<0.5
	(08-22-05)	<100	<0.5
	(08-08-04)	NA	NA
	(04-24-04)	ND	ND
	(12-25-03)	ND	ND
	(09-20-03)	ND	ND
	(07-03-02)	ND	1.1
	(09-17-00)	ND	1.4
	(08-20-10)	<100	<0.5
	(02-26-10)	<100	<0.5
	(09-25-09)	<100	<0.5
	(09-05-08)	<100	<0.5
	(09-05-08)	<100	<0.5
	(09-21-07)	<100	<0.5
	(07-07-07)	<100	<0.5
	(03-22-07)	<100	<0.5
	(01-06-07)	<100	<0.5
	(09-07-06)	<100	<0.5
	(06-13-06)	<100	<0.5
	(03-13-06)	<100	<0.5
	(11-27-05)	<100	<0.5
	(08-22-05)	<100	<0.5

Well Identification	Date	GROs	Benzene
MW-10	(04-24-04)	ND	ND
	(12-25-03)	ND	ND
	(09-20-03)	ND	ND
	(07-03-02)	ND	ND
	(09-17-00)	ND	ND
	(08-20-10)	<100	<0.5
	(02-26-10)	<100	<0.5
	(09-05-08)	<100	<0.5
	(03-08-08)	<100	<0.5
	(09-21-07)	<100	<0.5
	(07-07-07)	<100	<0.5
	(03-22-07)	<100	<0.5
	(01-06-07)	<100	<0.5
	(09-07-06)	<100	<0.5
	(06-13-06)	<100	<0.5
	(03-13-06)	<100	<0.5
	(11-27-05)	<100	<0.5
	(08-22-04)	<100	<0.5
	(04-24-04)	ND	ND
	MW-11	(12-25-03)	ND
(09-20-03)		ND	ND
(07-03-02)		ND	ND
(09-17-00)		ND	ND
(08-20-10)		5,700	ND
(02-27-10)		13,000	53
(09-25-09)		14,000	280
(03-08-08)		26,000	1,100

Well Identification	Date	GROs	Benzene
SV-1	(09-22-07)	31,000	2,000
	(07-07-07)	54,000	2,800
	(03-22-07)	57,000	3,000
	(01-05-07)	50,000	2,200
	(09-06-06)	36,000	5,900
	(06-12-06)	44,000	5,900
	(03-13-06)	47,000	5,600
	(11-26-05)	56,000	4,000
	(08-20-05)	31,000	5,100
	(08-08-04)	29,000	3,100
	(04-24-04)	38,000	5,000
	(12-25-03)	14,000	1,400
	(09-22-03)	46,000	1,700
	(10-24-02)	59,000	5,100
	(06-13-06)	NA	NA
	(03-13-06)	NA	NA
	(11-26-05)	NA	NA
	(08-08-04)	NA	NA
	(04-24-04)	9,600	740
	EW-12	(12-25-03)	83,000
(09-21-03)		89,000	2,300
(07-04-02)		210,000	7,900
(09-17-00)		560,000	10,000
(09-05-06)		62,000	17,000
(06-11-06)		NA	NA
(03-13-06)		NA	NA
(11-27-05)		NA	NA
	(08-08-04)	NA	NA

Well Identification	Date	GROs	Benzene
EW-13	(04-24-04)	12,000	920
	(12-25-03)	9,900	790
	(09-21-03)	19,000	590
	(10-31-02)	5,840	75.7
	(08-22-10)	14,000	2,600
	(02-27-10)	11,000	3,500
	(09-25-09)	12,000	1,200
	(09-06-08)	73,000	7,900
	(03-09-08)	120,000	11,000
	(09-24-07)	84,000	5,400
	(07-09-07)	140,000	10,000
	(03-25-07)	170,000	16,000
	(01-05-07)	410,000	57,000
	(09-05-06)	120,000	12,000
	(06-11-06)	130,000	23,000
	(03-13-06)	140,000	16,000
	(11-27-05)	150,000	16,000
	(08-20-05)	130,000	27,000
	(08-08-04)	NA	NA
	EW-14	(04-24-04)	100,000
(12-25-03)		110,000	17,000
(09-21-03)		71,000	10,000
(10-31-02)		109,200	9,120
(08-21-10)		<100	<0.5
(02-27-10)		<100	<0.5

Well Identification	Date	GROs	Benzene
EW-15	(09-27-09)	1,700	520
	(09-06-08)	12,000	4,000
	(03-09-08)	1,200	340
	(09-23-07)	41,000	9,900
	(07-09-07)	54,000	14,000
	(03-25-07)	25,000	5,400
	(01-04-07)	30,000	7,000
	(09-06-06)	20,000	4,700
	(06-11-06)	2,300	1,100
	(03-13-06)	1,300	360
	(11-27-05)	53,000	10,000
	(08-22-05)	26,000	7,100
	(08-08-04)	14,000	6,300
	(04-24-04)	9,400	4,100
	(12-25-03)	26,000	5,300
	(09-22-03)	68,000	4,100
	(08-22-10)	1,600	200
	(02-27-10)	720	250
	(09-26-09)	8,800	1,400
	(09-06-08)	19,000	7,100
	(03-09-08)	1,600	200
	(09-23-07)	59,000	14,000
	(07-09-07)	46,000	5,200
	(03-25-07)	23,000	2,100
	(01-05-07)	30,000	9,700
	(09-05-06)	51,000	8,200
(06-11-06)	25,000	2,900	
(03-13-06)	12,000	1,900	

Well Identification	Date	GROs	Benzene
EW-16	(11-27-05)	71,000	11,000
	(08-22-05)	670,000	11,000
	(08-08-04)	36,000	3,300
	(01-21-04)	72,000	8,400
	(08-21-10)	<100	<0.50
	(02-27-10)	220	<0.50
	(09-26-09)	390	<0.50
	(09-05-08)	310	<0.50
	(03-08-08)	820	100
	(09-22-07)	2,200	4.2
	(07-09-07)	2,300	53
	(03-25-07)	1,800	420
	(01-04-07)	370	2.9
	(09-05-06)	2,100	210
	(06-11-06)	1,400	680
	(03-13-06)	900	400
EW-17	(11-26-05)	1,600	160
	(08-20-05)	1,600	410
	(08-08-04)	2,500	590
	(01-21-04)	1,500	290
	(08-21-10)	2,900	1,200
	(02-27-10)	2,600	1,500
	(09-27-09)	4,200	1,400
	(09-06-08)	7,500	3,200
	(03-09-08)	31,000	7,600
	(09-23-07)	26,000	5,300
(07-09-07)	40,000	7,600	
(03-25-07)	44,000	7,900	

Well Identification	Date	GROs	Benzene
BM	(01-04-07)	27,000	8,100
	(09-06-06)	26,000	8,900
	(06-11-06)	38,000	9,700
	(03-13-06)	29,000	6,500
	(11-27-05)	35,000	8,000
	(08-22-05)	42,000	13,000
	(08-08-04)	30,000	6,800
	(01-21-04)	18,000	2,600
	(08-20-10)	<100	<0.5
	(02-27-10)	<100	<0.5
	(09-25-09)	<100	<0.5
	(09-04-08)	<100	<0.5
	(03-07-08)	<100	<0.5
	(07-07-07)	<100	<0.5
	(03-22-07)	<100	<0.5
	(01-06-07)	<100	<0.5
(09-06-06)	<100	<0.5	
(06-12-06)	<100	<0.5	
(03-13-06)	<100	<0.5	
(11-26-05)	<100	<0.5	
BH	(08-20-05)	<100	<0.5
	(08-20-10)	<100	<0.50
	(02-26-10)	<100	<0.50
	(09-25-09)	<100	1.1
	(09-04-08)	<100	1.1
	(03-07-08)	<100	<0.50
	(09-22-07)	<100	<0.50
	(07-07-07)	<100	<0.50

Well Identification	Date	GROs	Benzene
BF	(03-22-07)	130	<0.50
	(01-05-07)	140	12
	(09-06-06)	<100	<0.50
	(06-12-06)	<100	0.93
	(03-13-06)	<100	<0.50
	(11-26-05)	<100	0.76
	(08-20-05)	<100	<0.5
	(08-20-10)	<100	<0.5
	(02-28-10)	<100	32
	(09-25-09)	<100	32
	(09-05-08)	690	280
	(03-08-08)	500	250
	(09-22-07)	7,300	2,600
	(07-07-07)	6,900	3,700
	(03-22-07)	5,600	1,400
	(01-05-07)	13,000	5,200
	(09-06-06)	<10,000	6,500
(06-12-06)	14,000	11,000	
(03-13-06)	<10,000	5,300	
(11-26-05)	13,000	8,300	
BL	(08-20-05)	3,800	89
	(08-20-10)	<100	<0.5
	(02-27-10)	<100	1.0
	(09-25-09)	<100	<0.5
	(09-04-08)	<100	<0.5
	(09-22-07)	<100	8.6
	(07-07-07)	<100	<0.5
	(03-22-07)	<100	<0.5

Well Identification	Date	GROs	Benzene
BG	(01-05-07)	<100	<0.5
	(09-07-06)	<100	<0.5
	(06-12-06)	<100	6.8
	(03-13-06)	400	110
	(11-27-05)	<100	<0.5
	(08-22-05)	<100	17
	(08-20-10)	<100	<0.5
	(02-28-10)	<100	<0.5
	(09-25-09)	<100	<0.5
	(03-08-08)	<100	<0.5
	(09-22-07)	<100	<0.5
	(07-07-07)	<100	<0.5
	(03-22-07)	120	<0.5
(01-05-07)	<100	<0.5	
BK	(09-07-06)	<100	3.3
	(06-12-06)	110	7.6
	(03-13-06)	<100	<0.5
	(11-27-05)	130	2.1
	(08-22-05)	100	59
	(08-20-10)	<100	<0.5
	(02-28-10)	<100	<0.5
	(09-05-08)	<100	0.67
	(03-07-08)	<100	<0.5
	(09-22-07)	450	18
	(07-07-07)	<100	<0.5
(03-22-07)	<100	<0.5	
(01-06-07)	<100	<0.5	

Well Identification	Date	GROs	Benzene
BJ	(09-07-06)	1,100	0.54
	(06-11-06)	700	<0.50
	(03-13-06)	1,800	<0.50
	(11-27-05)	7,200	93
	(08-22-05)	3,600	22
	(08-20-10)	<100	<0.5
	(02-28-10)	<100	<0.5
	(09-25-09)	<100	<0.5
	(09-05-08)	<100	<0.5
	(03-08-08)	<100	<0.5
	(09-22-07)	150	4.0
	(07-07-07)	<100	<0.5
	(03-22-07)	<100	<0.5
(01-06-07)	<100	<0.5	
	(09-07-06)	<100	<0.5
	(06-11-06)	<100	<0.5
	(03-13-06)	790	<0.5
	(11-27-05)	6,800	90
	(08-22-05)	1,500	14

Appendix A
Well Purging Logs

APPENDIX A

Sampling Event Logs - Chun - August 20, 21 & 22, 2010

MW-8	DTW 8.25'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.0	71.1	867	7.0	8:30 am	
		2.0	71.2	860	7.0	8:50	
		2.0	71.1	956	7.0	9:15 am	

MW-4	DTW 8.76'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.0	70.0	928	7.1	4:00 pm	
		2.0	70.0	923	7.1	4:10	
		2.0	69.9	919	7.1	4:20 pm	

MW-9	DTW 7.68'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.0	71.2	956	7.0	9:20 am	
		2.0	71.1	961	7.0	9:30	
		2.0	71.1	960	7.0	9:55 am	

MW-5	DTW 8.54'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.0	71.1	921	7.1	4:30 pm	
		2.0	71.1	916	7.1	4:45 pm	
		2.0	71.1	913	7.1	5:00 pm	

MW-10	DTW 7.09'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.0	71.2	934	7.0	10:05 am	
		2.0	71.1	931	7.0	10:25	
		2.0	70.9	926	7.0	10:35 am	

MW-6	DTW 8.51'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-21-10
		2.0	71.1	921	7.1	7:35 am	
		1.5	71.0	916	7.1	7:50	
		1.5	70.6	909	7.1	8:15 am	

BM	DTW 9.03'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		3.0	69.0	668	7.0	10:45 am	
		2.5	69.1	666	7.0	11:00	
		2.0	68.9	663	7.0	11:15 am	

MW-3	DTW 9.33'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-21-10
		2.0	70.7	911	7.0	8:30 am	
		2.0	71.0	908	7.0	8:45	
		2.0	71.0	898	7.0	9:05 am	

MW-1	DTW 8.75'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.0	69.7	899	7.0	11:25 am	
		2.0	69.3	894	7.0	11:40	
		2.0	69.2	888	7.0	11:55 am	

MW-2	DTW 8.76'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-21-10
		2.0	70.0	889	7.0	9:15 am	
		2.0	70.0	881	7.0	9:25	
		2.0	70.0	879	7.0	9:50 am	

BL	DTW 9.27'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.5	71.1	921	7.0	12:05	
		2.5	71.1	923	7.0	12:15 pm	
		2.0	71.1	925	7.0	12:30 pm	

MW-1	DTW 8.72'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-21-10
		2.0	70.0	912	7.1	10:10 am	
		2.0	70.2	902	7.0	10:20	
		2.0	70.4	894	7.0	10:35 am	

BF	DTW 9.39'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		1.5	68.4	878	7.0	12:40 pm	
		1.5	68.2	871	7.0	12:50	
		1.5	67.9	869	7.0	1:05 pm	
Silt at bottom of well was removed and purging and sampling was performed after groundwater equilibrated. Appears that well screen may be compromised.							

EW-17	DTW 9.45'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-21-10
		4.5	69.1	977	7.0	10:45 am	
		4.5	68.8	972	7.0	11:00	
		4.0	68.3	968	7.0	11:15 am	

BG	DTW 9.92'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.0	70.4	892	7.0	1:15 pm	
		2.0	69.9	892	7.0	1:25	
		2.0	69.5	891	7.0	1:40 pm	

EW-14	DTW 10.49'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-21-10
		4.5	69.5	922	6.9	11:30 am	
		4.5	69.1	921	7.0	11:45 am	
		4.0	68.5	911	7.0	12:00 pm	

BK	DTW 8.46'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		1.5	70.0	934	7.0	1:55 pm	
		1.5	69.2	946	7.0	2:10	
		1.5	69.2	949	7.0	2:20 pm	
Silt at bottom of well was removed and purging and sampling was performed after groundwater equilibrated. Appears that well screen may be compromised.							

EW-16	DTW 11.52'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-21-10
		4.5	70.0	927	7.0	12:20 pm	
		4.0	69.9	922	7.0	12:35	
		4.0	70.1	922	7.0	12:50 pm	

BJ	DTW 5.78'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		1.5	70.0	947	7.0	2:30 pm	
		1.5	70.1	951	7.0	2:40	
		1.5	70.1	958	7.0	2:55 pm	
Silt at bottom of well was removed and purging and sampling was performed after groundwater equilibrated. Appears that well screen may be compromised.							

EW-15	DTW 9.44'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-22-10
		4.5	70.1	921	7.0	9:05 am	
		4.0	70.0	913	7.0	9:35	
		4.0	70.0	912	7.0	10:05 am	

BH	DTW 9.18'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-20-10
		2.5	70.0	897	7.0	3:05 pm	
		2.5	69.8	989	7.0	3:25	
		2.0	69.7	885	7.0	3:40 pm	

EW-13	DTW 9.10'	Gallons purged	TEMP C/F (Circle One)	EC (us/cm)	PH	TIME	08-22-10
		4.5	70.1	911	7.0	10:25 am	
		4.5	70.1	902	7.0	10:40	
		4.0	70.1	894	7.0	10:55 am	

Appendix B
Laboratory Data Sheets



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

September 08, 2010

Frank Goldman

Chun

265 Heron Drive

Pittsburg, CA 94565

Re : Chun

A57227 / OH26001

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/26/10 10:27 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analyticals.

Sincerely,

Viorel Vasile

Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
Project No: NA
Project Name: Chun

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
<u>8260B TPHGBTEXOXYEDBEDC</u>					
MW-8	0H26001-01	Water	7	08/20/10 09:20	08/26/10 10:27
MW-9	0H26001-02	Water	7	08/20/10 10:00	08/26/10 10:27
MW-10	0H26001-03	Water	7	08/20/10 10:40	08/26/10 10:27
BM	0H26001-04	Water	7	08/20/10 11:20	08/26/10 10:27
MW-11	0H26001-05	Water	7	08/20/10 12:00	08/26/10 10:27
BL	0H26001-06	Water	7	08/20/10 12:35	08/26/10 10:27
BF	0H26001-07	Water	7	08/20/10 13:10	08/26/10 10:27
BG	0H26001-08	Water	7	08/20/10 13:45	08/26/10 10:27
BK	0H26001-09	Water	7	08/20/10 14:35	08/26/10 10:27
BJ	0H26001-10	Water	7	08/20/10 15:00	08/26/10 10:27
BH	0H26001-11	Water	7	08/20/10 15:45	08/26/10 10:27
MW-4	0H26001-12	Water	7	08/20/10 16:25	08/26/10 10:27
MW-5	0H26001-13	Water	7	08/20/10 17:05	08/26/10 10:27
MW-6	0H26001-14	Water	7	08/21/10 08:20	08/26/10 10:27
MW-3	0H26001-15	Water	7	08/21/10 09:10	08/26/10 10:27
MW-2	0H26001-16	Water	7	08/21/10 09:55	08/26/10 10:27
MW-1	0H26001-17	Water	7	08/21/10 10:40	08/26/10 10:27
EW-17	0H26001-18	Water	7	08/21/10 11:20	08/26/10 10:27
EW-14	0H26001-19	Water	7	08/21/10 12:05	08/26/10 10:27

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: Chun
Project No: NA
Project Name: Chun

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
EW-16	0H26001-20	Water	7	08/21/10 12:50	08/26/10 10:27
EW-15	0H26001-21	Water	7	08/22/10 10:10	08/26/10 10:27
EW-13	0H26001-22	Water	7	08/22/10 11:00	08/26/10 10:27

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
Project No: NA
Project Name: Chun
Method: TPHG/BTEX/OXY/EDBEDC by GC/MS

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10
Units: ug/L

Date Sampled:	08/20/10	08/20/10	08/20/10	08/20/10	
Date Prepared:	08/31/10	08/31/10	08/31/10	08/31/10	
Date Analyzed:	08/31/10	08/31/10	08/31/10	08/31/10	
AA ID No:	0H26001-01	0H26001-02	0H26001-03	0H26001-04	
Client ID No:	MW-8	MW-9	MW-10	BM	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B TPHGBTEXOXYEDBEDC (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
Methyl-tert-Butyl Ether (MTBE)	<2.0	<2.0	<2.0	<2.0	2.0
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates					%REC Limits
Dibromofluoromethane	84.0%	112%	114%	114%	70-140
Toluene-d8	104%	106%	102%	106%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
Project No: NA
Project Name: Chun
Method: TPHG/BTEX/OXY/EDBEDC by GC/MS

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10
Units: ug/L

Date Sampled:	08/20/10	08/20/10	08/20/10	08/20/10	
Date Prepared:	08/31/10	08/31/10	08/31/10	08/31/10	
Date Analyzed:	08/31/10	08/31/10	08/31/10	08/31/10	
AA ID No:	0H26001-05	0H26001-06	0H26001-07	0H26001-08	
Client ID No:	MW-11	BL	BF	BG	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	10	1	1	1	MRL

8260B TPHGBTEXOXYEDBEDC (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<20	<2.0	<2.0	<2.0	2.0
Benzene	<5.0	<0.50	<0.50	<0.50	0.50
tert-Butyl alcohol (TBA)	<100	<10	<10	<10	10
1,2-Dibromoethane (EDB)	<5.0	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<5.0	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<20	<2.0	<2.0	<2.0	2.0
Ethylbenzene	190	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<20	<2.0	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	5700	<100	<100	<100	100
Methyl-tert-Butyl Ether (MTBE)	<20	<2.0	<2.0	2.5	2.0
Toluene	97	<0.50	<0.50	<0.50	0.50
o-Xylene	620	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	1500	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
Dibromofluoromethane	120%	114%	114%	120%	70-140
Toluene-d8	108%	108%	104%	106%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
Project No: NA
Project Name: Chun
Method: TPHG/BTEX/OXY/EDBEDC by GC/MS

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10
Units: ug/L

Date Sampled:	08/20/10	08/20/10	08/20/10	08/20/10	
Date Prepared:	08/31/10	08/31/10	08/31/10	08/31/10	
Date Analyzed:	08/31/10	08/31/10	08/31/10	08/31/10	
AA ID No:	0H26001-09	0H26001-10	0H26001-11	0H26001-12	
Client ID No:	BK	BJ	BH	MW-4	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	1	MRL

8260B TPHGBTEXOXYEDBEDC (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	<0.50	<0.50	0.50
tert-Butyl alcohol (TBA)	<10	<10	<10	<10	10
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	<100	<100	100
Methyl-tert-Butyl Ether (MTBE)	<2.0	<2.0	<2.0	<2.0	2.0
Toluene	<0.50	<0.50	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					%REC Limits
Dibromofluoromethane	116%	116%	114%	106%	70-140
Toluene-d8	106%	102%	106%	108%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
Project No: NA
Project Name: Chun
Method: TPHG/BTEX/OXY/EDBEDC by GC/MS

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10
Units: ug/L

Date Sampled:	08/20/10	08/21/10	08/21/10	08/21/10	
Date Prepared:	08/31/10	08/31/10	09/01/10	09/01/10	
Date Analyzed:	08/31/10	08/31/10	09/01/10	09/01/10	
AA ID No:	0H26001-13	0H26001-14	0H26001-15	0H26001-16	
Client ID No:	MW-5	MW-6	MW-3	MW-2	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	10	MRL

8260B TPHGBTEXOXYEDBEDC (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<20	2.0
Benzene	0.69	<0.50	<0.50	1500	0.50
tert-Butyl alcohol (TBA)	<10	<10	<10	<100	10
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<5.0	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<5.0	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<20	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<5.0	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<20	2.0
Gasoline Range Organics (GRO)	840	<100	100	4700	100
Methyl-tert-Butyl Ether (MTBE)	<2.0	<2.0	<2.0	<20	2.0
Toluene	0.54	<0.50	<0.50	550	0.50
o-Xylene	12	<0.50	2.3	220	0.50
m,p-Xylenes	150	<1.0	2.3	640	1.0

Surrogates

					%REC Limits
Dibromofluoromethane	108%	116%	116%	116%	70-140
Toluene-d8	108%	108%	106%	104%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
Project No: NA
Project Name: Chun
Method: TPHG/BTEX/OXY/EDBEDC by GC/MS

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10
Units: ug/L

Date Sampled:	08/21/10	08/21/10	08/21/10	08/21/10
Date Prepared:	09/01/10	09/01/10	09/01/10	09/01/10
Date Analyzed:	09/01/10	09/01/10	09/01/10	09/01/10
AA ID No:	0H26001-17	0H26001-18	0H26001-19	0H26001-20
Client ID No:	MW-1	EW-17	EW-14	EW-16
Matrix:	Water	Water	Water	Water
Dilution Factor:	20	20	1	1

MRL

8260B TPHGBTEXOXYEDBEDC (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<40	<40	<2.0	<2.0	2.0
Benzene	1300	1200	<0.50	<0.50	0.50
tert-Butyl alcohol (TBA)	<200	<200	<10	<10	10
1,2-Dibromoethane (EDB)	<10	<10	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<10	<10	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<40	<40	<2.0	<2.0	2.0
Ethylbenzene	<10	<10	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<40	<40	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	3100	2900	<100	<100	100
Methyl-tert-Butyl Ether (MTBE)	<40	<40	<2.0	<2.0	2.0
Toluene	54	110	<0.50	<0.50	0.50
o-Xylene	160	150	<0.50	<0.50	0.50
m,p-Xylenes	480	420	<1.0	<1.0	1.0

Surrogates

					%REC Limits
Dibromofluoromethane	112%	110%	120%	116%	70-140
Toluene-d8	108%	98.0%	106%	104%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
Project No: NA
Project Name: Chun
Method: TPHG/BTEX/OXY/EDBEDC by GC/MS

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10
Units: ug/L

Date Sampled:	08/22/10	08/22/10	
Date Prepared:	09/01/10	09/01/10	
Date Analyzed:	09/01/10	09/01/10	
AA ID No:	0H26001-21	0H26001-22	
Client ID No:	EW-15	EW-13	
Matrix:	Water	Water	
Dilution Factor:	1	50	MRL

8260B TPHGBTEXOXYEDBEDC (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<2.0	<100	2.0
Benzene	200	2600	0.50
tert-Butyl alcohol (TBA)	<10	<500	10
1,2-Dibromoethane (EDB)	<0.50	<25	0.50
1,2-Dichloroethane (EDC)	<0.50	<25	0.50
Diisopropyl ether (DIPE)	<2.0	<100	2.0
Ethylbenzene	<0.50	30	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<100	2.0
Gasoline Range Organics (GRO)	1600	14000	100
Methyl-tert-Butyl Ether (MTBE)	<2.0	<100	2.0
Toluene	4.1	2400	0.50
o-Xylene	87	680	0.50
m,p-Xylenes	270	1500	1.0

Surrogates			%REC Limits
Dibromofluoromethane	114%	120%	70-140
Toluene-d8	102%	106%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
 Project No: NA
 Project Name: Chun

AA Project No: A57227
 Date Received: 08/26/10
 Date Reported: 09/08/10

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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TPHG/BTEX/OXY/EDBEDC by GC/MS - Quality Control

Batch B0H3105 - EPA 5030B

Blank (B0H3105-BLK1)

Prepared & Analyzed: 08/31/10

tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L							
Gasoline Range Organics (GRO)	<100	100	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							

Surrogate: Dibromofluoromethane	40.0		ug/L	50		80.0	70-140			
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Surrogate: Toluene-d8	55.0		ug/L	50		110	70-140			
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LCS (B0H3105-BS1)

Prepared & Analyzed: 08/31/10

Benzene	20.3	0.50	ug/L	20		101	75-125			
1,2-Dichloroethane (EDC)	21.5	0.50	ug/L	20		108	75-125			
Ethylbenzene	19.7	0.50	ug/L	20		98.4	75-125			
Methyl-tert-Butyl Ether (MTBE)	17.1	2.0	ug/L	20		85.6	70-135			
Toluene	20.0	0.50	ug/L	20		100	75-125			
o-Xylene	19.2	0.50	ug/L	20		95.8	75-125			

Surrogate: Dibromofluoromethane	50.0		ug/L	50		100	70-140			
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Surrogate: Toluene-d8	50.0		ug/L	50		100	70-140			
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Matrix Spike (B0H3105-MS1)

Source: 0H26001-02 Prepared & Analyzed: 08/31/10

Benzene	22.4	0.50	ug/L	20	<0.50	112	70-130			
Ethylbenzene	20.9	0.50	ug/L	20	<0.50	105	70-130			
Methyl-tert-Butyl Ether (MTBE)	15.9	2.0	ug/L	20	<2.0	79.6	70-130			
Toluene	23.3	0.50	ug/L	20	<0.50	116	70-130			

Surrogate: Dibromofluoromethane	55.0		ug/L	50		110	70-140			
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Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun
 Project No: NA
 Project Name: Chun

AA Project No: A57227
 Date Received: 08/26/10
 Date Reported: 09/08/10

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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TPHG/BTEX/OXY/EDBEDC by GC/MS - Quality Control

Batch B0H3105 - EPA 5030B

Matrix Spike (B0H3105-MS1) Continued Source: 0H26001-02 Prepared & Analyzed: 08/31/10

Surrogate: Toluene-d8 54.0 ug/L 50 108 70-140

Matrix Spike Dup (B0H3105-MSD1) Source: 0H26001-02 Prepared & Analyzed: 08/31/10

Benzene	21.6	0.50	ug/L	20	<0.50	108	70-130	4.00	30	
Ethylbenzene	21.2	0.50	ug/L	20	<0.50	106	70-130	1.52	30	
Methyl-tert-Butyl Ether (MTBE)	16.3	2.0	ug/L	20	<2.0	81.4	70-130	2.23	30	
Toluene	22.5	0.50	ug/L	20	<0.50	112	70-130	3.45	30	

Surrogate: Dibromofluoromethane 55.0 ug/L 50 110 70-140

Surrogate: Toluene-d8 53.0 ug/L 50 106 70-140

Batch B0I0102 - EPA 5030B

Blank (B0I0102-BLK1)

Prepared & Analyzed: 09/01/10

tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L							
Gasoline Range Organics (GRO)	<100	100	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							

Surrogate: Dibromofluoromethane 40.0 ug/L 50 80.0 70-140

Surrogate: Toluene-d8 55.0 ug/L 50 110 70-140

LCS (B0I0102-BS1)

Prepared & Analyzed: 09/01/10

Benzene	20.3	0.50	ug/L	20		101	75-125			
1,2-Dichloroethane (EDC)	21.5	0.50	ug/L	20		108	75-125			
Ethylbenzene	19.7	0.50	ug/L	20		98.4	75-125			
Methyl-tert-Butyl Ether (MTBE)	17.1	2.0	ug/L	20		85.6	70-135			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: Chun
Project No: NA
Project Name: Chun

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPHG/BTEX/OXY/EDBEDC by GC/MS - Quality Control										
<i>Batch B0I0102 - EPA 5030B</i>										
LCS (B0I0102-BS1) Continued					Prepared & Analyzed: 09/01/10					
Toluene	20.0	0.50	ug/L	20		100	75-125			
o-Xylene	19.2	0.50	ug/L	20		95.8	75-125			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
Matrix Spike (B0I0102-MS1)					Source: 0H31002-01 Prepared & Analyzed: 09/01/10					
Benzene	22.4	0.50	ug/L	20	<0.50	112	70-130			
Ethylbenzene	20.9	0.50	ug/L	20	<0.50	105	70-130			
Methyl-tert-Butyl Ether (MTBE)	15.9	2.0	ug/L	20	<2.0	79.6	70-130			
Toluene	23.3	0.50	ug/L	20	<0.50	116	70-130			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.0</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>54.0</i>		<i>ug/L</i>	<i>50</i>		<i>108</i>	<i>70-140</i>			
Matrix Spike Dup (B0I0102-MSD1)					Source: 0H31002-01 Prepared & Analyzed: 09/01/10					
Benzene	21.6	0.50	ug/L	20	<0.50	108	70-130	4.00	30	
Ethylbenzene	21.2	0.50	ug/L	20	<0.50	106	70-130	1.52	30	
Methyl-tert-Butyl Ether (MTBE)	16.3	2.0	ug/L	20	<2.0	81.4	70-130	2.23	30	
Toluene	22.5	0.50	ug/L	20	<0.50	112	70-130	3.45	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>55.0</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.0</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-140</i>			

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: Chun
Project No: NA
Project Name: Chun

AA Project No: A57227
Date Received: 08/26/10
Date Reported: 09/08/10

Special Notes

Viorel Vasile
Operations Manager

Franklin J. Goldman
 PO BOX 59, Sonoma, CA 95476
 FJGoldmanCHG@yahoo.com
 Cell: (707) 694-1375

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. _____
 Laboratory Please Call Accounts Payable for P.O. No. _____

AS7227/0426001

111047

Date: 8/24/10 Sheet 1 of 3

Project Name Chun				Parameters										American Analytics					
Project Number _____				TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers <i>GR0, BTEX, SOXY, 2 lead</i>	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE	9765 Eton Ave	
Address 2301 SANTA CLARA ALAMEDA, CA 94501																		Chatsworth, CA 91311	
Sampler's Name: Frank Goldman																		Phone: (818) 998-5547	
Sampler's Signature: <i>Frank Goldman</i>																		Phone Turnaround Time	
Sample Number Location Date Time																		<input type="checkbox"/> Rush <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5-Day	
																		Repeat to: Frank	
																		Comments	
<i>MW-8</i> 8/20/10 9:20 AM																		X	
<i>MW-9</i> 10:00 AM																		X	
<i>MW-10</i> 10:40 AM																			
<i>BM</i> 11:20 AM																			
<i>MW-11</i> 12:00 PM																			
<i>BL</i> 12:35 PM																			
<i>BF</i> 1:10 PM																			
<i>BG</i> 1:45 PM																			
<i>BK</i> 2:35 PM																			
<i>BJ</i> 3:00 PM																			
Relinquished By: <i>Frank Goldman</i> Date: 8/24/10 Time: 4:05				Received By: <i>[Signature]</i> Date: 8/24/10 Time: 4:05				Total Number of Containers this Sheet: _____											
Dispatched By: _____ Date: _____ Time: _____				Received in Lab By: <i>[Signature]</i> Date: 8/26/10 Time: 10:28				Method of Shipment: FedEx											
								Special Shipment/Handling or Storage Requirements: Keep on Ice											

REVIEWED
 Date: 8/24/10 Time: 1:05
 TAT: N Days Sign: *[Signature]*

10 AUG 26 10:27 28

Franklin J. Goldman
 PO BOX 59, Sonoma, CA 95476
 FJGoldmanCHG@yahoo.com
 Cell: (707) 694-1375

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. _____
 Laboratory Please Call Accounts Payable for P.O. No. _____

A 57227/0426001

111048 Date: 8/24/10 Sheet 20 of 3

Project Name Chun				Parameters										American Analytics						
Project Number _____				TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	GRO, BTEX, SOXY, 2 lead, 1 scan	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE	9765 Eton Ave Chatsworth, CA 91311 Phone: (818) 998-5547	
Address 2301 SANTA CLARA ALAMEDA, CA 94501																			Phone _____	
Sampler's Name: Frank Goldman																		Turnaround Time		
Sampler's Signature: <i>Frank Goldman</i>																		<input type="checkbox"/> Rush <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5-Day		
Sample Number	Location	Date	Time															Repeat to: Frank		
BH		8/20/10	3:45 PM															Comments		
MW-4		8/20/10	4:25 PM															OH26001-11		
MW-5		8/20/10	5:05 PM															-12		
MW-6		8/21/10	8:20 AM															-13		
MW-3			9:10 AM															-14		
MW-2			9:55 AM															-15		
MW-1			10:40 AM															-16		
EW-17			11:20 AM															-17		
EW-14			12:05 PM															-18		
EW-16			12:50 PM															-19		
																		-20		
Relinquished By		Date	Time	Received By		Date	Time											Total Number of Containers this Sheet:		
<i>Frank Goldman</i>		8/24/10	4:05 PM	<i>[Signature]</i>		8/24/10	4:05 PM													
Dispatched By		Date	Time	Received in Lab By		Date	Time											Method of Shipment: FoLex		
				<i>[Signature]</i>		8/26/10	10:27											Special Shipment/Handling or Storage Requirements: Keep on Ice		

REVIEWED
 Date: 8/26/10 Time: 10:05
 TAT: N Days Sign: *[Signature]*

10 AUG 26 10:27 '10

Franklin J. Goldman
 PO BOX 59, Sonoma, CA 95476
 FJGoldmanCHG@yahoo.com
 Cell: (707) 694-1375


CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. _____
 Laboratory Please Call Accounts Payable for P.O. No. _____

AS7227/0426001

111049 Date: 08/24/10 Sheet 3 of 3

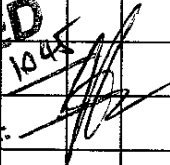
Project Name Chun
 Project Number _____
 Address 2301 SANTA CLARA
ALAMEDA, CA 94501

Sampler's Name:
Frank Goldman
 Sampler's Signature:


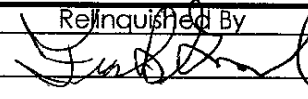
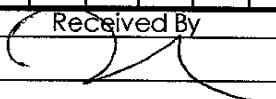

				Parameters														
Sample Number	Location	Date	Time	TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	GRO, BTEX, SOXY, 2 lead, 5 cad	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE
EW-15		8/22/10	10:00 AM												X			X
EW-13		8/22/10	11:00 AM												X			X

American Analytics
 9765 Eton Ave
 Chatsworth, CA 91311
 Phone: (818) 998-5547
 Phone Turnaround Time
 Rush 24 Hour 48 Hour 5-Day
 Repeat to: **Frank**

Comments
 0426001 - 21
 - 22

REVIEWED
 Date: 8/26/10 Time: 10:42
 TAT: N Days Sign: 

10 AUG 26 10:27 '10

Relinquished By 	Date 8/24/10	Time 4:21	Received By 	Date 8/24/10	Time 4:25
Dispatched By	Date	Time	Received in Lab By 	Date 8/26/10	Time 10:27

Total Number of Containers this Sheet: _____
 Method of Shipment: **Fed Ex**
 Special Shipment/Handling or Storage Requirements:
Keep on Ice