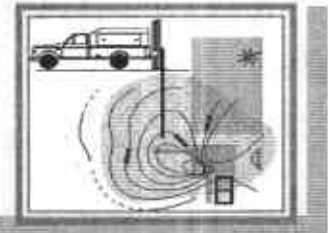


20382

Franklin J. Goldman, CHG.
Environmental and Hydrogeological Consulting
PO BOX 59, Sonoma, CA 95476
Phone: (707) 235-9979
fjgoldmanchg@yahoo.com



March 31, 2005

Barney M. Chan
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-9335

Telephone: (510) 567-6765
FAX: (510) 337-9335

SUBJECT: WORKPLAN FOR INSTALLATION OF THREE (3) GROUNDWATER MONITORING WELLS AND EXCAVATION OF SIX (6) SOIL BORINGS FOR VERTICAL PROFILING OF DISSOLVED HYDROCARBONS BY HYDROPUNCH SAMPLING RELATED TO THE FORMER UNDERGROUND STORAGE TANKS LOCATED AT THE FORMER BILL CHUN SERVICE STATION @ 2301 SANTA CLARA AVENUE, ALAMEDA, CA 94501

Dear Barney:

Enclosed are the details of a plan to perform an offsite (See the attached site access agreement) subsurface hydrogeologic investigation for the above designated site, at the properties located from 2305 to 2311 Santa Clara Avenue, as recommended in your correspondence dated February 22, 2005. Six (6) investigatory soil borings will be excavated to collect the qualitative field data necessary to select three (3) groundwater monitoring well locations that are intended to yield dissolved hydrocarbon contaminant data indicative of the leading edge of the dissolved contaminant plumes identified beneath the Chun site located at 2301 Santa Clara Avenue.

As we discussed, indoor air sampling will be provided after this proposed subsurface soil and groundwater investigation is completed so that a more focused and coherent air sampling regime can be developed based upon a known subsurface contaminant distribution beneath the one and two story buildings southeast of the Chun site investigation area.

Recent site reconnaissance of the building structures to the east of the current investigation area documented an intermingled array of one and two story structures with mixed commercial and residential use. The associated utility lines (e.g sewer, water, gas, and electric) are located above and below ground and appear to run between and below building structures. The City of Alameda and the County of Alameda have both taken the position that they don't have any utility line or building plan maps for the subject properties. Although the individual layouts of utility lines have not been thorough depicted, as of yet (See Figure 1 for Site Plan), it appears that most of these lines, as observed in the field, tend to run between the buildings on either side of the green house and between the Chun property garages and the adjacent flower shop. Many of the proposed investigative soil excavations have been located in the immediate vicinity of the utility lines recently observed in the field. Further efforts will be initiated by contacting the individual utility service providers

through references provided by Underground service alert, to identify their access points to the private properties they service. These service providers may have documentation on the lines they service on private property. Any new information obtained on utility lines will be reported immediately to Alameda County Environmental Health as an addendum to this workplan.

Considering the fact that most utility lines are likely to be shallower than the leaking portions of the subject UST system, only the sewer laterals are likely to be deep enough onsite to serve as conduits for the migration of hydrocarbons from the existing UST pit to locations offsite.

As part of the preferential pathway study requirement, a search of nearby water supply wells has been recently required by Alameda County Health to supplement the supply well search and evaluation previously reported in the November 12, 2000, Risk-Based Corrective Action report submittal. The water supply well reported during a personnel communique with Barney Chan of Alameda County Health revealed that a supply well is located at Alameda High School. Although the exact location of the water supply well at the high school had not been identified, it would be located at least 640 feet, or more, away from the subject site. The water supply well search performed at the State DWR in the year 2000 also revealed two irrigation and two industrial supply wells within ½ mile of the site as well. The evaluation of the Alameda High School well, as reported in the RBCA determined that it was unlikely that the site contaminants could be entrained by the capture zone of the Alameda High School supply well. Since the well completion report and location of the Alameda High School well was never actually found, a revised supply well search is currently underway to determine if this well completion report exists and if any other supply wells within a ½ mile radius of the site can be identified that were not found during the RBCA evaluation. Since Department of Water Resources staff have stated that an appointment to acquire the requested well records could take weeks, this investigation workplan has been submitted and designed to resolve the question of the extent of contamination offsite with the understanding that the discovery of previously unknown water supply wells adjacent to the site could warrant an amended investigation workplan which would be submitted as this information becomes available in the next two weeks. In addition, review of regulatory case files for sites in the vicinity of the subject site may be reviewed and evaluated to determine the existence of nearby water supply wells.

Although the distribution of onsite utility line trenches is still not completely defined and the water supply well search is not completed, to date, the absence of this information does not negate the rationale utilized to justify the need for the boring and well locations as proposed. The activities outlined in this workplan should therefore be initiated and should be augmented as new preferential pathway information becomes available from the State DWR, the utility service providers obtained from USA Service alert, in the next two weeks.

Interim cleanup is currently being addressed by Loftin and Associates. It is our understanding that Loftin and Associates has recently submitted a schedule of remediation activities to Alameda County Health. After the proposed subsurface investigation has been completed and the offsite groundwater monitoring wells have been installed, a of groundwater monitoring event encompassing the same group of wells as reported in recent groundwater monitoring report submittals will be completed. Groundwater monitoring wells MW-8, MW-9, MW-10 and the new offsite wells will be included in the sampling and analysis regime as well.

A recent groundwater sampling event was completed in February 2005 which will be reported prior to initiating the proposed offsite field investigation. Laboratory data for indicator chemicals TPHg and benzene are included in Table 1. The associate concentration gradient contours for TPHg are shown on Figure 1 and the lab data for this recent sampling event is provided (See the attached laboratory date sheets).

Sincerely,

Franklin J. Goldman

Franklin J. Goldman
Certified Hydrogeologist No. 466



↑
This report and all of its
contents are signed under
penalty of perjury

Franklin J. Goldman
04/01/05
[Signature flourish]

SUBSURFACE INVESTIGATION

SITE LOCATION AND DESCRIPTION

The site is located in a light commercial and residential area on the Island of Alameda. The site is bordered on the southeast by a flower shop which has residents living on the second story. A one story office building is located to the north and Oak and Santa Clara Avenues border the remainder of the site. Southeast of the flower shop is a Green house belonging to the owner of the Flower Shop, Mrs. Towata (See Figure 2 for site location map).

WORK ACTIVITIES TO BE COMPLETED

The six (6) soil boring excavation and three (3) groundwater monitoring well locations will be marked at the site in white paint. The locations will be marked for Underground Service Alert which will be contacted prior to drilling. Each soil boring location will be hand augered to a depth of 5 feet bgs prior to excavation with the hollow-stem auger drill rig to avoid damage to underground piping and utility lines.

All nine (9) borehole excavations will drilled to approximately 30 feet bgs or until a relatively thick clay soil horizon is encountered. The three (3) groundwater monitoring wells will also be installed to a depth of 30 feet bgs or until a relatively thick clay soil horizon is encountered (See Figure 1 for proposed well and soil boring locations). The six (6) soil boring locations were chosen based upon the current and recent distributions of dissolved hydrocarbon contaminants in order to intercept these contaminants in the predominant downgradient and cross gradient groundwater flow directions as well as in the path of utility line conduits recently identified in the field. The three (3) proposed groundwater monitoring well locations were chosen based upon the same rationale, however, will be changed depending upon the qualitative field results obtained during the installation of the six (6) soil borings. The goal of installing the three groundwater monitoring wells will be to define the leading edge of the dissolved hydrocarbon plumes beneath the offsite investigation area.

LIMITED ACCESS AND METHOD OF DRILLING

Nine (9) hollow-stem auger soil borings will be drilled by a C-57 drilling licensed driller to an approximate depth of 30 feet bgs. Since some of the well installation and investigatory soil boring excavations will be performed in limited access areas between buildings, Clearheart Drilling, Inc. will employ their Carry Portable 99 drilling machine which is 30 inches wide and 3 ½ feet long and is attached to their "Eight by Eight Drill rig" (Note: the Eight by Eight actually has dimensions of 5 X 8 feet) by a hydraulic hose which can extent up to 200 feet in length. The remaining soil borings to be located in more easily accessible areas will be drilled by a standard hollow-stem auger rig or by the Eight by Eight depending upon whatever immediate logistical requirements are encountered in the field during drilling.

SOIL SAMPLING AND ANALYSIS PROCEDURES FOR GROUNDWATER MONITORING WELL AND SOIL BORING EXCAVATION INSTALLATIONS

All borehole logging will be performed by a qualified geologist who will keep a detailed hydrostratigraphic log of each borehole, noting lithologic changes, hydrogeological characteristics, sample locations, and well construction. A minimum of three (3) soil samples will be collected from each of the six (6) investigatory soil borings. A minimum of six (6) soil samples [i.e. approximately one sample every five vertical feet] will be collected from each of the three (3) groundwater monitoring well installation borings. Drilling will proceed to deeper depths to establish key hydrostratigraphic horizons and/or to define the bottom of obvious contamination encountered.

Soil samples will be collected with a two (2) inch inner diameter, three (3) foot long,

split spoon sampler depending upon the soil stratigraphy and contaminants encountered. The soil samples will be obtained by the compressive force of a 140 lb hammer dropped from a height of 18 inches. The soil samples will be extruded into six (6)-inch long steel sample liners. Soil samples will be chosen for lab analyses based upon obvious olfactory and visual evidence of contamination. No more than three (3) soil samples will be analyzed from each of three monitoring well soil borings and no more than two soil samples will be analyzed from each of six (6) investigatory soil borings.

Each soil sample collected will be covered at each end of the metal cylinder with Teflon tape, plastic end caps, and sealed with non-VOC "duct tape" to adhere the caps to the liners at each end, to hermetically seal the samples. The soil samples will be collected, along with the sample number, and the project name and inserted into a plastic Zip-Lock bag and then placed into an ice chest for transport back to the laboratory. The chain-of-custody will be similarly designated and will include the date and time the sample was collected as well as the depth interval. All soil samples will be analyzed for TPH(g)/BTEX by EPA Method 8015 modified/8020.

The sampler will be decontaminated before and after each use by rinsing with an Alconox solution wash and fresh tap water rinse. All rinse water, purge water, and soil waste will be stored in 55 gallon DOT approved drums. The drums will be stored onsite until authorization for transport to legal point of disposal is made.

Groundwater samples will be collected and analyzed from each of the three (3) newly constructed wells. Groundwater samples will be collected from approximately every five vertical feet in the investigatory soil borings by a Hydropunch to provide vertical profiling of dissolved hydrocarbons in groundwater.

use
to check
with
construction

HYDROPUNCH SAMPLING

The inside of the hollow-stem auger will act as a conductor casing for the acquisition of discrete depth water samples to be obtained by a hydropunch sampling device. The 1 ½ inch outer diameter Hydropunch device is connected to a 2 ½ inch outer diameter MWJ rod which is connected to a 140 lb percussion drop hammer. The Hydropunch screen is 30 inches long and has a 1&1/4 inch outer diameter. The tip of the Hydropunch will be driven approximately two (2) feet beyond the desired groundwater grab sampling depth and then retracted to expose the 7/8 inch diameter screen which will be accessed with a 3/4 inch outer diameter mini bailor to obtain the water sample. After the sampling is obtained, the Hydropunch will be retracted and the steel tip will be left in place until it is retrieved by the hollow-stem auger upon deeper excavation. These groundwater grab samples will be contained in an EPA approved glass container with no head space and preserved with HCL for TPH-g, MTBE, BTEX, oxygenates, and lead scavenger analyses. The samples will be labeled and stored on ice at 4 degrees centigrade until delivered, under chain-of-custody procedures, to State-certified analytical laboratory. All samples will be analyzed by appropriate and applicable EPA test methods.

if
detected
add to
analyses

WELL CONSTRUCTION

The three (3) groundwater monitoring wells will be constructed with a 0.02 inch PVC schedule 40 slotted casing from 30 to 6 ½ feet bgs and schedule 40, 2 inch diameter PVC blank casing from 6 ½ to approximately ½ foot bgs. No. 212 silica sand pack will be placed in the annular space between the screened casing and the open borehole to one foot above the top of the screen. The bentonite seal will be one (1) foot thick and will be placed on top of the sand pack in the annular space from 4 ½ to 5 ½ feet bgs. A Type II cement bentonite grout will then be placed to within approximately 1 foot from the top of the surface cover. A continuous concrete pour will then be placed on top of the grout to the surface where it will be finished with a 3 inch high concrete apron around a well box (See Figure 3 for monitoring well construction detail).

No

WELL DEVELOPMENT, PURGING, AND SAMPLING

The wells will be swabbed, bailed and pumped by a qualified field technician until the water is relatively clear. A water level indicator will be used to measure the depth to groundwater in the groundwater extraction wells prior to well development and sampling. The measurements will be read to the nearest 100th of an inch from the top of casing.

The three (3) wells will be purged and developed to obtain representative groundwater samples. Each well will be purged of approximately three (3) borehole volumes allowing the water level to recover to at least 80% of the original, static level. Temperature, electrical conductivity, and pH will be monitored during each purging, so that the three parameters are within a 10% error difference from one another, over a minimum of three consecutive readings. The data will be used to verify that water has been removed from well casing storage and that the well water is representative of the aquifer, prior to sampling.

Water samples will be collected by lowering a plastic disposable check valve bailor down the center of each PVC well casing after the static water level had recovered. The bailor will be lowered to the bottom of the well casing and pulled to the surface to be decanted from the bottom of the bailor by temporarily unplugging the check valve until water flowed freely into the glass sample container. Water samples will be contained in 40-milliliter VOA vials for TPH-g, MTBE, BTEX, oxygenates, and lead scavenger analyses. The samples will be labeled and stored on ice at 4 degrees centigrade until delivered, under chain-of-custody procedures, to State-certified analytical laboratory. All samples will be analyzed by appropriate and applicable EPA test methods.

LAND SURVEY

The three (3) wells, key building corners and footprints and utility lines suspected of acting as conduits for the migration of hydrocarbon contamination will be surveyed for location and elevation, where possible, by a certified land surveyor to provide more reliable reference datum for future hydrostratigraphic interpretation.

LIMITATIONS

This workplan 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 are subject to change. The conclusions presented in this report are professional opinions based solely upon visual observations made within individual soil excavations and of the site and vicinity as well as on interpretations of available information as designated in this report. Franklin J. Goldman, maintains that the limited scope of services performed in the execution of this investigation may not be sufficient to satisfy the needs, and/or requirements of all regulatory agencies or other users. Any use or reuse of this document, its findings, its conclusions and/or recommendations presented herein, is done so at the sole risk of the said user.

[Click here and type return address and phone and fax numbers]

Company Name Here

Fax

To: Anna Towata	From: Wayne Chun
Fax: 810 522-8012	Pages: 2
Phone:	Date: 3/25/05
Re: Drilling Access Agreement	CC:

Urgent For Review Please Comment Please Reply Please Recycle

• Comments:

Mrs Towata,

Can you sign this agreement at the bottom and fax it back to Frank Goldman at 849 608 8711.

He will also be at the Closed Service station today (2301 Santa Clara). If you are at the Flower shop today he can pick up the signed agreement.

Please call me if you have any questions.

Thank-you,

Wayne Chun

825-439-2302 office

510-610-4888 cell

(Anna) Georgianna W. Towata

Drilling Access Agreement between Lily Chun and/or Wayne Chun and Georgianna Towata

Re: Drilling and installation of up to three (3) to five (5) groundwater monitoring wells (e.g. similar to MW-11 currently located at the back entrance of the flower shop) and four (4) to six (6) soil borings to be located in the paved and asphalt covered areas in the parking lot behind the flower shop, around the green house, and on the west side of the two story building located east of the green house (i.e. the flower shop is located east of 2301 Santa Clara Avenue).

This right of access agreement is made and entered into this day of March 24, 2005

By and Between
AND

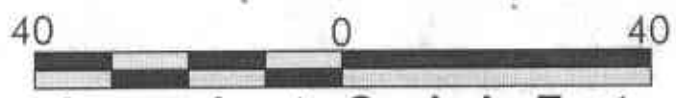
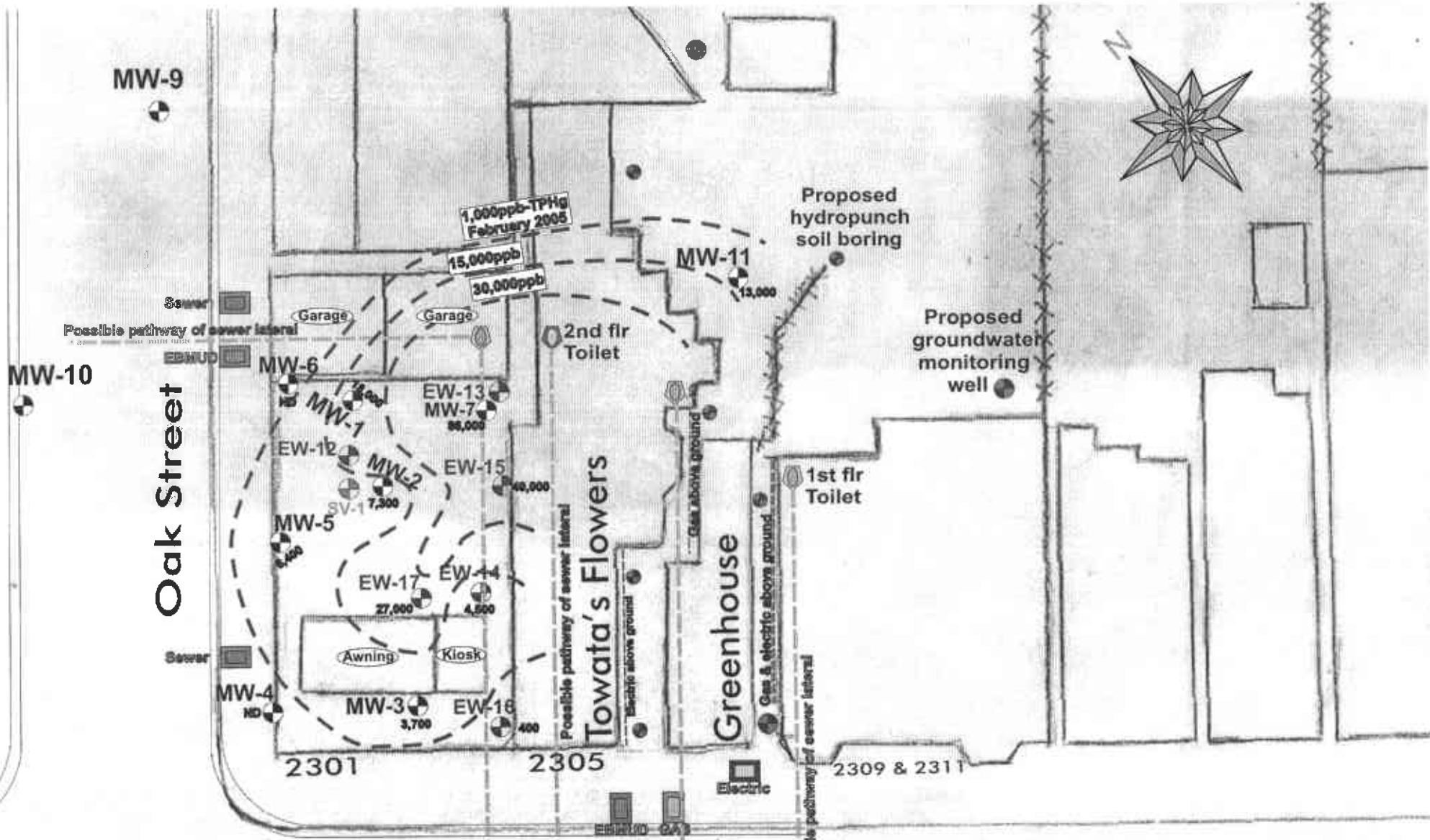
Georgianna Towata (Grantor)
Lily Chun and/or Wayne Chun (Requestee)

This agreement is made subject to the following conditions:

1. The exercise of any of the privileges granted by this agreement constitutes acceptance of all of the conditions of this agreement.
2. Requestee, in the exercise of the privileges herein granted, shall at all times comply with all applicable federal, state, and local laws, ordinances, rules and regulations.
3. The term of this agreement begins upon execution by the Grantor and Requestee and shall end three (3) months from the date first written above for access for drilling and well construction purposes, and shall end three (3) years from the date first written above for access for groundwater sampling purposes.
4. Requestee shall be responsible for all costs and expenses incurred towards the subsurface investigation work and sampling activities.
5. Requestee's access hours and days will be between 8:00 am & 5:00 pm, Monday thru Friday for drilling and anytime for groundwater sampling.
6. Requestee shall not interfere with the Grantor's normal daily business and Grantor will provide access to the Requestee for drilling and well sampling after a 72 hour notice by phone or FAX.
7. Requestee shall promptly restore the premises to a condition reasonably compatible with the surrounding area, to the satisfaction of the Grantor, after the construction of the groundwater monitoring wells and after each quarterly groundwater sampling event. After the wells are no longer needed (i.e. no more than three years), they will be abandoned according to State and Alameda County guidelines and the premises will be restored to its original condition with respect to the wells.
8. Requestee shall indemnify, defend, and hold harmless the Grantor from, and against, any and all liability, including, but not limited to, demands, claims, actions, fees, costs, and expenses (including attorney and expert witness fees), arising from, or connected with, Requestee's and or the Requestee's agents' (i.e. drilling contractor, consultant, and/or traffic safety control company) negligent acts and/or omissions arising from and/or relating to this agreement.


Lily Chun &/or Wayne Chun (Grantor)


Georgianna Towata (Requestee)



Approximate Scale in Feet

(Note: Not for use in soil stratigraphic interpretation - application for use in conceptual investigation workplan only)

SANTA CLARA AVENUE

**IDEALIZED SITE PLAN DERIVED FROM SANBORN MAP
FORMER BILL CHUN SERVICE STATION
2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA**

FIGURE 1

MW-8

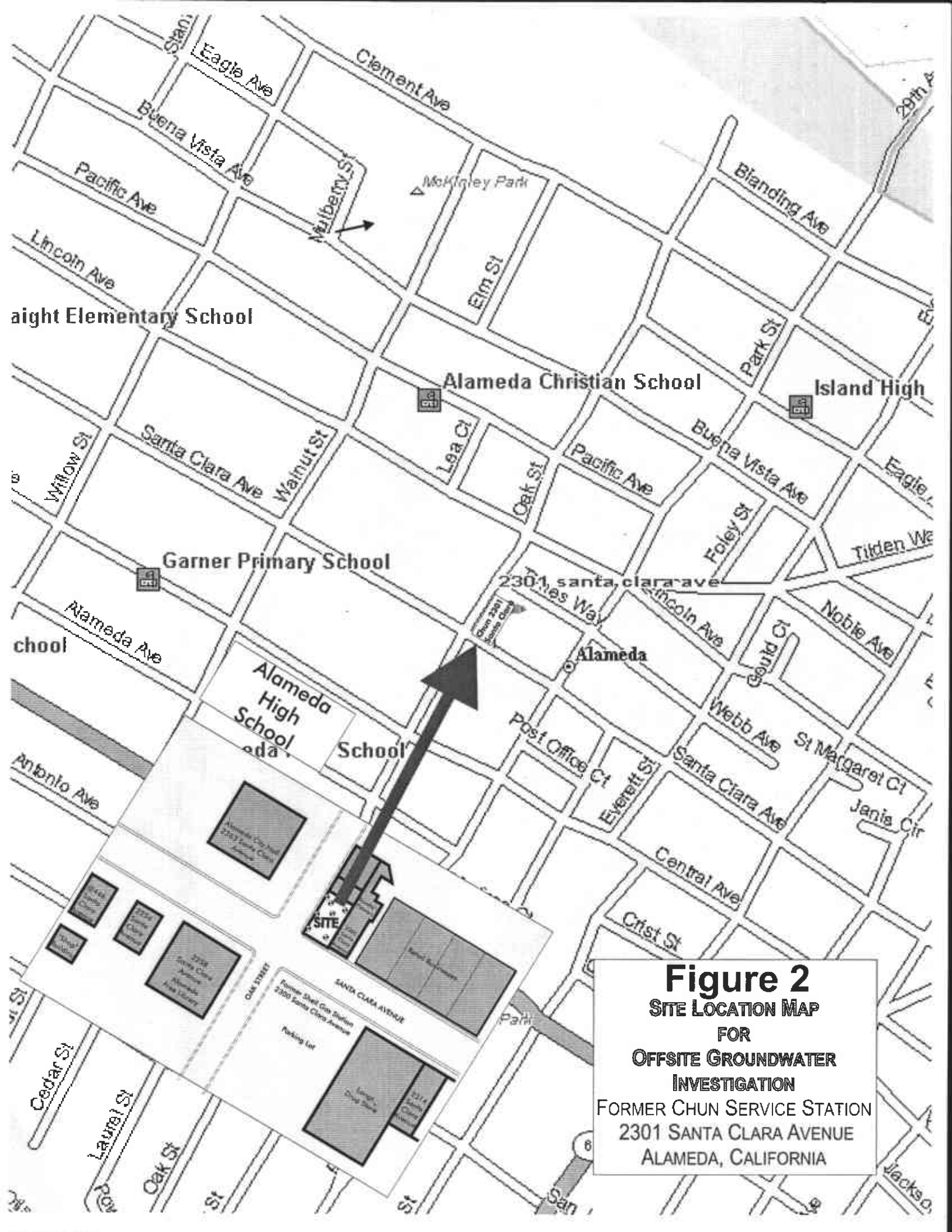


Figure 2
SITE LOCATION MAP
 FOR
OFFSITE GROUNDWATER
INVESTIGATION
 FORMER CHUN SERVICE STATION
 2301 SANTA CLARA AVENUE
 ALAMEDA, CALIFORNIA

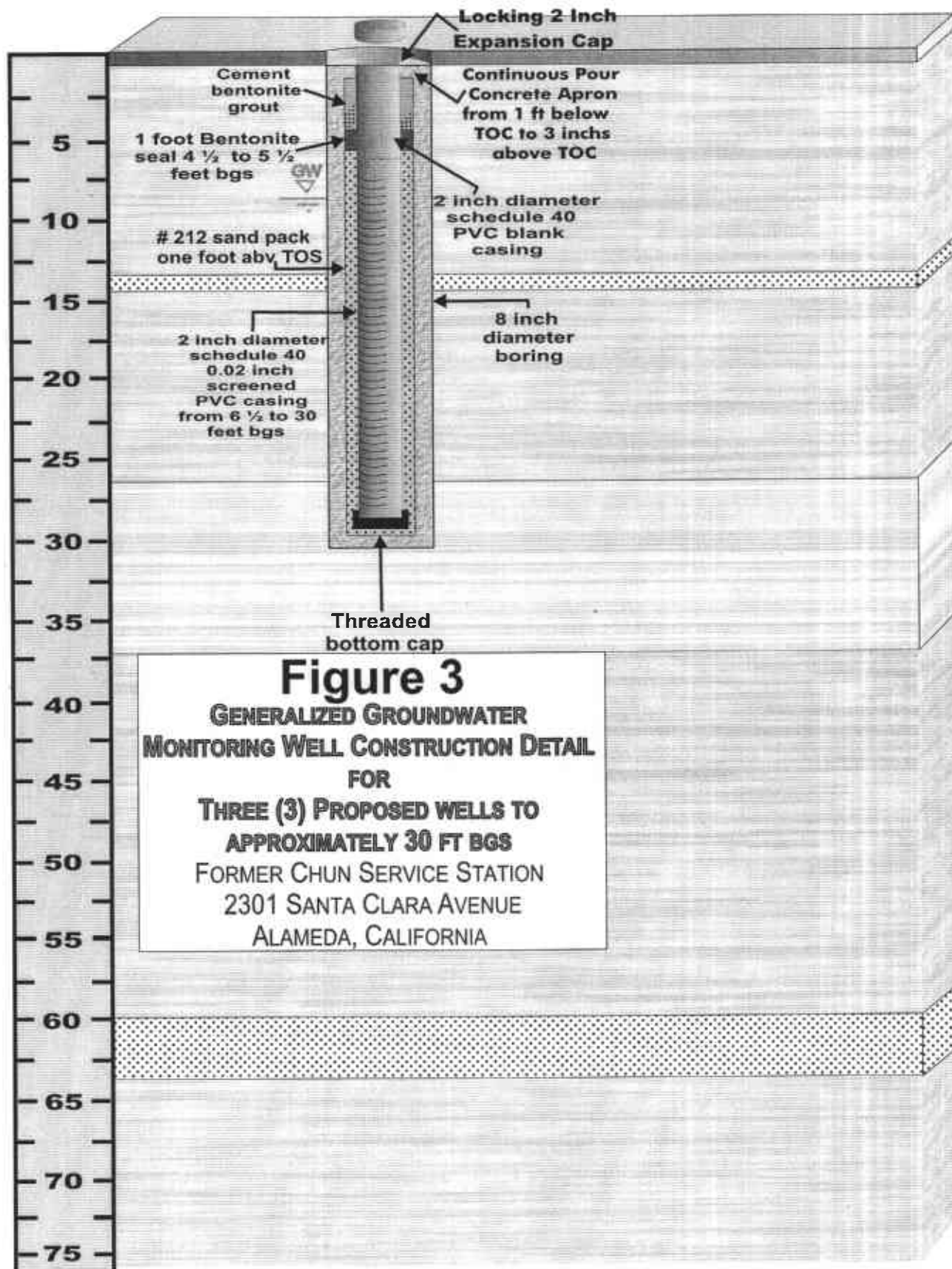


Figure 3
GENERALIZED GROUNDWATER
MONITORING WELL CONSTRUCTION DETAIL
FOR
THREE (3) PROPOSED WELLS TO
APPROXIMATELY 30 FT BGS
FORMER CHUN SERVICE STATION
2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

TABLE 1 - Chun
Representative Analytical for Gasoline in Groundwater (ppb)

Well No	TPHg	Benzene
MW-1 (02-07-05)	18,000	4,800
(11-05-04)	18,000	5,100
(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 (02-07-05)	7,300	2,700
(11-05-04)	18,000	5,800
(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
MW-3 (02-07-05)	3,700	1,300
(11-05-04)	2,900	470
(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
MW-4 (02-07-05)	ND	ND
(11-05-04)	ND	ND
(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
MW-5	(02-07-05)	6,400	59
	(11-05-04)	6,400	76
	(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
MW-6	(02-07-05)	ND	0.68
	(11-05-04)	610	5.9
	(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
MW-7	(02-07-05)	86,000	10,000
	(11-05-04)	86,000	8,300
	(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
	(09-17-00)	220,000	32,000
MW-8	(02-07-05)	NA	NA
	(11-05-04)	NA	NA
	(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
MW-9	(02-07-05)	NA	NA
	(11-05-04)	NA	NA
	(04-24-04)	NA	NA
	(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
MW-10	(02-07-05)	NA	NA
	(11-05-04)	NA	NA
	(04-24-04)	NA	NA
	(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
MW-11	(02-07-05)	13,000	380
	(11-05-04)	21,000	760
	(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
SV-1	(02-07-05)	NA	NA
	(11-05-04)	NA	NA
	(08-08-04)	NA	NA
	(04-24-04)	9,600	740
	(12-25-03)	83,000	2,200

	(09-21-03)	89,000	2,300
	(07-04-02)	210,000	7,900
	(09-17-00)	560,000	10,000
EW-12	(02-07-05)	NA	NA
	(11-05-04)	NA	NA
	(08-08-04)	NA	NA
	(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
EW-13	(02-07-05)	NA	NA
	(11-05-04)	NA	NA
	(08-08-04)	NA	NA
	(04-24-04)	100,000	19,000
	(12-25-03)	110,000	17,000
	(09-21-03)	71,000	10,000
	(10-31-02)	109,200	9,120
EW-14	(02-08-05)	4,500	2,300
	(11-06-04)	43,000	8,000
	(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
EW-15	(02-08-05)	49,000	7,800
	(11-06-04)	48,000	5,400
	(08-08-04)	36,000	3,300
	(01-21-04)	72,000	8,400
EW-16	(02-08-05)	400	32
	(11-06-04)	1,500	210
	(08-08-04)	2,500	590
	(01-21-04)	1,500	290
EW-17	(02-08-05)	27,000	6,100

(11-06-04)	31,000	6,300
(08-08-04)	30,000	6,800
(01-21-04)	18,000	2,600



LABORATORY ANALYSIS RESULTS

Client: Chun
Project No.: NA
Project Name: Chun
Sample Matrix: Water
Method: EPA 8015M (GRO)

AA Project No.: A57207
Date Received: 02/14/05
Date Reported: 02/24/05
Units: mg/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	DF	Results	MRL
182392	MW-6	02/07/05	02/15/05	1.0	<0.1	0.1
182393	MW-4	02/07/05	02/15/05	1.0	<0.1	0.1
182394	MW-5	02/07/05	02/15/05	10.0	6.4	0.1
182395	MW-3	02/07/05	02/15/05	5.0	3.7	0.1
182396	MW-2	02/07/05	02/15/05	50.0	7.3	0.1
182397	MW-1	02/07/05	02/15/05	50.0	18	0.1
182398	MW-7	02/07/05	02/15/05	100.0	86	0.1
182399	MW-11	02/07/05	02/15/05	20.0	13	0.1
182400	EW-14	02/08/05	02/15/05	20.0	4.5	0.1
182401	EW-17	02/08/05	02/15/05	50.0	27	0.1
182402	EW-15	02/08/05	02/15/05	50.0	49	0.1
182403	EW-16	02/08/05	02/15/05	1.0	0.40	0.1

MRL: Method Reporting Limit

J: Estimated Value

DF: Dilution Factor

NOTES:

GRO : Gasoline Range Organics

Viorel Vasile
Project Manager



LABORATORY ANALYSIS RESULTS

Client: Chun
Project No.: NA
Project Name: Chun
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A57207
Date Received: 02/14/05
Date Reported: 02/24/05
Units: ug/L

Table with 5 columns: Date Sampled, Date Analyzed, AA ID No., Client ID No., Dilution Factor, and MRL. Rows include data for samples 182392, 182393, 182394, and 182395.

Table with 6 columns: Compounds, and five columns of numerical values. Lists various compounds like Benzene, Di-isopropyl Ether, etc., with their respective values across the four samples.

Viorel Vasile
Project Manager



LABORATORY ANALYSIS RESULTS

Client: Chun
Project No.: NA
Project Name: Chun
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A57207
Date Received: 02/14/05
Date Reported: 02/24/05
Units: ug/L

Table with 5 columns: Compound, MW-2, MW-1, MW-7, MW-11, MRL. Rows include Benzene, Di-isopropyl Ether, 1,2-Dibromoethane (EDB), 1,2-Dichloroethane (EDC), Ethyl tert-Butyl Ether, Ethylbenzene, Methyl tert-Butyl Ether, Tert-Amyl Methyl Ether, Toluene, m,p-Xylenes, o-Xylene, tert-Butanol.

Viorel Vasile
Project Manager



LABORATORY ANALYSIS RESULTS

Client: Chun
Project No.: NA
Project Name: Chun
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A57207
Date Received: 02/14/05
Date Reported: 02/24/05
Units: ug/L

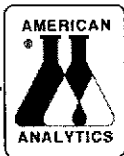
Date Sampled:	02/08/05	02/08/05	02/08/05	02/08/05	
Date Analyzed:	02/17/05	02/17/05	02/17/05	02/17/05	
AA ID No.:	182400	182401	182402	182403	
Client ID No.:	EW-14	EW-17	EW-15	EW-16	
Dilution Factor:	10.0	100.0	50.0	1.0	MRL

Compounds:					
Benzene	2300	6100	7800	32	0.5
Di-isopropyl Ether	<20	<200	<100	<2	2
1,2-Dibromoethane (EDB)	<5	<50	<25	<0.5	0.5
1,2-Dichloroethane (EDC)	<5	<50	<25	20	0.5
Ethyl tert-Butyl Ether	<20	<200	<100	<2	2
Ethylbenzene	17	950	1900	<0.5	0.5
Methyl tert-Butyl Ether	<20	<200	<100	<2	2
Tert-Amyl Methyl Ether	<20	<200	<100	<2	2
Toluene	220	4800	8800	<0.5	0.5
m,p-Xylenes	270	2600	7000	1.2	1
o-Xylene	750	1800	3200	<0.5	0.5
tert-Butanol	<100	<1000	<500	<10	10

MRL: Method Reporting Limit

J: Estimated Value

Viorel Vasile
Project Manager



LABORATORY QA/QC REPORT

Client: Chun
Project Name: Chun
Method: EPA 8015M (GRO)
Sample ID: Reagent Blank

Project No.: NA
AA Project No.: A57207
Date Analyzed: 02/15/05
Date Reported: 02/24/05

Compounds	Result mg/L	MRL
Gasoline Range Organics	<0.1	0.1

MRL: Method Reporting Limit

NOTES:

GRO : Gasoline Range Organics

Viorel Vasile
Project Manager



LABORATORY QA/QC REPORT

Client: Chun
Project Name: Chun
Method: EPA 8260B
Sample ID: Reagent Blank

Project No.: NA
AA Project No.: A57207
Date Analyzed: 02/17/05
Date Reported: 02/24/05

Compounds	Result ug/L	MRL
Benzene	<0.5	0.5
Di-isopropyl Ether	<2	2
1,2-Dibromoethane (EDB)	<0.5	0.5
1,2-Dichloroethane (EDC)	<0.5	0.5
Ethyl tert-Butyl Ether	<2	2
Ethylbenzene	<0.5	0.5
Methyl tert-Butyl Ether	<2	2
Tert-Amyl Methyl Ether	<2	2
Toluene	<0.5	0.5
m,p-Xylenes	<1	1
o-Xylene	<0.5	0.5
tert-Butanol	<10	10

MRL: Method Reporting Limit

Viorel Vasile
Project Manager



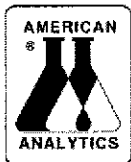
LABORATORY QA/QC REPORT

Client: Chun
Project Name: Chun
Method: EPA 8015M (GRO)
Sample ID: Laboratory Control Standard
Concentration: 0.5 mg/L

Project No.: NA
AA Project No. A57207
Date Analyzed: 02/15/05
Date Reported: 02/24/05

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Gasoline Range Organics	0.432	86.0	48.0 - 152

Viorel Vasile
Project Manager



LABORATORY QA/QC REPORT

Page 1 of 1

Client: Chun
Project Name: Chun
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: NA
AA Project No.: A57207
Date Analyzed: 02/17/05
Date Reported: 02/24/05

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	21.3	107	50 - 150
Ethylbenzene	22.4	112	50 - 150
Methyl tert-Butyl Ether	19.2	96	50 - 150
Toluene	22.0	110	50 - 150
o-Xylene	22.0	110	50 - 150

Viorel Vasile
Project Manager

A57207

Franklin J. Goldman
 PO BOX 59, Sanoma, CA 95476
 Phone: (707) 235-8979
 franklingoldman@yahoo.com

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. _____
 Laboratory Please Call Accounts Payable for P.O. No. _____
 Date: 02/08/05 Sheet 1 of 2

Project Name: Chun
 Project Number: _____
 Address: 2301 Santa Clara Ave
Alameda, CA

Sampler's Name: Frank Goldman
 Sampler's Signature: *Franklin J. Goldman*

Parameters													
TPH as Gasoline 8015M	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pt. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE

Laboratory Delivery Location
 American Analytics, Inc.
 9765 Eton Ave
 Chatsworth, CA
 Phone: (818) 998-5547

Phone Turnaround Time
 Rush 24 Hour 48 Hour 5-Day
 Repeat to: Frank

Sample Number	Location	Date	Time	TPH as Gasoline 8015M	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pt. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE	Comments
MW-6	182392	02/07/05	7:15 AM															3 VOAS
MW-4	182393		8:40 AM															
MW-5	182394		10:05 AM															
MW-3	182395		11:45 AM															
MW-2	182396		1:10 PM															
MW-1	182397		2:55 PM															
MW-7	182398		4:30 PM															
MW-11	182399		6:05 PM															
EW-14	182400	02/08/05	7:40 AM															
EW-17	182401	02/08/05	9:30 AM															

05 FEB 14 AM 9:26

Relinquished By: <i>Franklin J. Goldman</i>	Date: 02/12/05	Time: 10:38	Received By: <i>Michi</i>	Date: 02/12/05	Time: 10:28	Total Number of Containers this Sheet: _____
Dispatched By: <i>FedEx</i>	Date: _____	Time: _____	Received in Lab By: <i>Ludmila Glavde</i>	Date: 02/14/05	Time: 09:26	
Special Shipment/Handling or Storage Requirements: _____						Keep on Ice
Dispatched By: _____ Date: _____ Time: _____ Received in Lab By: _____ Date: _____ Time: _____						

approved as work order 02/14/05 1345 v. Vanik *[Signature]*

A59207

Franklin J. Goldman
 PO BOX 59, Sonoma, CA 95476
 Phone: (707) 235-9979
 franklingoldman1@yahoo.com

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. _____

Laboratory Please Call Accounts Payable for P.O. No. _____
 Date: 02/08/05 Sheet 2 of 2

Project Name <u>Chun</u>				Parameters										Laboratory Delivery Location American Analytics, Inc.					
Project Number _____				TPH as Gasoline 8015M	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	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE	9765 Eton Ave	
Address <u>2301 Santa Clara Ave</u> <u>Alameda, CA</u>																		Chatsworth, CA	
Sampler's Name: <u>Frank Goldman</u>				Phone _____ Turnaround Time <input type="checkbox"/> Rush <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5-Day Repeat to: <u>Frank</u>															
Sampler's Signature: <i>Franklin J. Goldman</i>																			
Sample Number	Location	Date	Time	TPH as Gasoline 8015M	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	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE	Comments	
<u>EW-15</u>	<u>182402</u>	<u>02/08/05</u>	<u>11:20 AM</u>	<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>				<u>3 UAS</u>	
<u>EW-16</u>	<u>182403</u>	<u>02/08/05</u>	<u>12:55 PM</u>	<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>				<u>↓</u>	
Relinquished By <i>Franklin J. Goldman</i> <u>FG/DCX</u>				Date	Time	Received By <i>Michelle L. Waldmole</i> <u>Michelle Waldmole</u>				Date	Time	Total Number of Containers this Sheet:		Method of Shipment: Special Shipment/Handling or Storage Requirements: Keep on Ice					
Dispatched By				Date	Time	Received in Lab By				Date	Time								

approved as work order 02/14/05 1345 V. Norris