

**Environmental & Engineering Services** 

April 9, 2018

Ms. Serena Ip MidPen Housing Corporation 303 Vintage Park Drive, Suite 250 Foster City, California 94404

Re: Water Well Sampling and Well Destruction Project Number 350428 Cypress Point Development Carlos and Sierra Streets Moss Beach, San Mateo County, California 94038

Dear Ms. Ip:

This report presents the results of the **Water Well Sampling and Well Destruction** activities performed by AEI Consultants (AEI) for the Cypress Point development project, located near the intersection of Carlos and Sierra Streets in Moss Beach, San Mateo County, California (the "Site"). The project was conducted in accordance with the conclusions and recommendations presented in AEI's *Additional Subsurface Investigation and Water Well Evaluation Report* dated February 20, 2018. Information regarding the previous investigation results, field activities, analytical results, conclusions, and recommendations is provided in the following sections of this report.

#### 1.0 PREVIOUS INVESTIGATION RESULTS

In November 2015, AEI conducted a *Phase I Environmental Site Assessment (ESA)* at the Site. During the file review, it was found that two (2) domestic water supply wells had been installed at the Site in 1986. Limited regulatory agency records that were obtained from San Mateo County Environmental Health Services (SMCEHS) for the wells are provided in Appendix A.

In December 2015, AEI conducted a *Limited Phase II Subsurface Investigation* with the results presented in a report dated February 15, 2016. During a site reconnaissance for the investigation, one (1) of the wells was found within a vegetated area near the northern property boundary. The wellhead consisted of a rusted, welded steel cover that was secured within a rectangular-shape concrete pad. SMCEHS was contacted to gather more information about the well(s) during the investigation; however, no additional information had been provided by SMCEHS at that time. The other well was not found during the reconnaissance. It was unknown if either well had been properly abandoned in accordance with SMCEHS regulations. No well construction details were available for review other than the limited regulatory agency records gathered during the *Phase I ESA*.

As presented in Appendix A, regulatory agency records show that a San Mateo County Department of Public Health and Welfare permit (Permit No. W-43-86) had been issued to the California School

Water Well Sampling and Well Destruction Carlos and Sierra Streets Moss Beach, San Mateo County, California 94038

Employee Association (property owner) for the installation and construction of the well(s) in May 1986. The name of the well owner on the permit was listed as Farallon Vista Associates. In June 1986, a flow test was conducted by H.A.M. Drilling, Inc. (HAM) at one (1) of the wells. Their Well Yield Report Information form for the well showed a total depth of 400 feet. The Well Yield Report also showed the DWR Water Well Drillers Report Number than the permit number shown under the County May 1986 permit. The Well Yield Report showed that the standing water well and static water level (assumed to be measured upon completion of flow testing) were measured at depths of 35 feet and 168 feet deep, respectively. The pump for the flow test was set at a depth of 390 feet. The flow test was conducted over an approximate 3-hour period. Flow (pump) rates during testing ranged between 2 and 5 gallons per minute. At the end of the 3-hour period, the drawdown of the water level was measured at 168 feet. After the flow testing was completed, a recovery test was performed for an approximate 20-minute period. After this period ceased, the water level recovered to the 160-foot depth. In July 1988, water quality testing for bacteriology and chemistry purposes also was performed.

In December 1990, as shown on a Septic and Well Check-Off List, Farallon Vista Associates indicated that the two (2) domestic water supply wells had been installed under one (1) permit, and that both wells would be repaired "so that aquifers were adequately protected." In January 1991, also shown on the same Septic and Well Check-Off List, Farallon Vista Associates indicated that the "upper well" had been "sealed with welded steel" and the "lower well" had been "sealed flush with the well pad with a bolted steel plate." During AEI's December 2015 site reconnaissance, it was believed that the "upper well", rather than the "lower well", had been found.

In October 2017, the "upper well" was inspected by Wilkinson Well and Pump of Half Moon Bay, California (Wilkinson) during AEI's *Additional Subsurface Investigation and Water Well Evaluation*. The area around the wellhead was observed to be covered with tree branches and vegetative debris. It was also observed that the well cover had been removed since the time of AEI's *Limited Phase II Subsurface Investigation*. The well was observed to consist of an outer steel casing that was lined with an inner 5-inch diameter polyvinyl chloride (PVC) casing. Wilkinson attempted to measure the groundwater and total well depths. However, because of an obstruction encountered at the 13.3-foot depth, the groundwater depth and well depth measurements could not be obtained. The vertical extent of the obstruction below the 13.3-foot depth also could not be measured. Wilkinson also observed that a section of broken or cracked well casing was present at the 5-foot depth. Upon inspection, it was assumed that debris had been poured into the well after the cover had been removed.

#### 2.0 FIELD ACTIVITIES

Field activities for the groundwater sampling and well destruction are described in the following sections of this report.

# 2.1 Health and Safety Plan

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.



Water Well Sampling and Well Destruction Carlos and Sierra Streets Moss Beach, San Mateo County, California 94038

# 2.2 Permitting and Utility Clearance

A drilling permit was obtained from the SMCEHS for the well destruction. A copy of the drilling permit is provided in Appendix B.

Prior to well destruction activities, the property boundaries were marked on the ground surface with white paint. Upon marking, Underground Services Alert (USA) North was contacted, who, in turn, notified subscribing utility companies of the planned well destruction work for underground utility locations to be marked along the ground surface around the existing well. A utility clearance was conducted by Ground Penetrating Radar Systems, Inc. (GPRS) of San Jose, California under subcontract to AEI on February 21, 2018. No underground utilities were found to be present around the existing well.

#### 2.3 Well Destruction and Removal of Obstruction

Well destruction commenced on February 21, 2018 upon completion of the utility clearance. Well destruction was performed by a C-57 licensed drilling company, Cascade Drilling, Inc. of West Sacramento, California under subcontract to AEI. Well destruction activities were supervised by an experienced field geologist under the oversight of an AEI State of California-licensed Certified Engineering Geologist.

Prior to well destruction, the wellhead was opened to remove the obstruction from the 13.3-foot depth using a well development rig. A 4-inch diameter drilling rod was lowered into casing to remove and/or push through the obstruction. However, it was discovered that the length of the obstruction was quite extensive and could not be removed. Refusal was encountered at the 47-foot depth. SMCEHS inspected the well destruction procedures and further required that the obstruction be removed. At that time, the depth to groundwater was measured at 45.37 feet below the top of well casing.

Well destruction activities resumed on March 6, 2018. Cascade mobilized a track-mounted, sonic drilling rig to the Site to remove the obstruction and complete the well destruction. Upon removal of the obstruction, the inside of the well casing was further reamed out to the 350-foot depth. Materials associated with obstruction and removed from the well casing included pea gravel, tree debris, miscellaneous trash, and glass bottle fragments. At the 350-foot depth, another obstruction was encountered, which included an older submersible pump, that appeared to be left in place from the time the well was installed. Metal fragments and copper wiring were removed, followed by drilling refusal encountered when attempting to drill through the pump at that depth. Because of the depth of the pump and associated drilling refusal, SMCEHS was contacted for further direction. SMCEHS approved destruction of the well beginning at the 350-foot depth, instead of continuing to drill downward to the 400-foot depth.

# 2.4 Groundwater Sampling

Groundwater sampling was performed prior to well destruction. Prior to sampling, the well was purged with a portable submersible pump. The pump intake was positioned at an approximate depth of 120 feet below the top of well casing. The depth to groundwater prior to purging was



Water Well Sampling and Well Destruction Carlos and Sierra Streets Moss Beach, San Mateo County, California 94038

approximately 54.30 feet below the top of casing. During purging, only 55 gallons could be removed due to the slow purge rate of the pump. The total volume of water removed during was significantly less than the total volume of standing water inside the well casing noted prior to sampling.

Upon purging, a groundwater sample was obtained from inside the sonic drilling rods with a clean, disposable bailer. Upon collection, the clarity of the groundwater water sample was observed to be somewhat turbid and cloudy with a discernible sheen on top of the water surface inside the bailer. The sample was transferred into appropriate, laboratory-supplied, sample containers [i.e., 40-ml glass vials preserved with hydrochloric acid (HCl)]. The 40-ml glass vials were sealed so that no headspace or air bubbles were visible within the containers upon filling.

After collection, the bottles were labeled with the project name, project number, boring number, sample depth, and sampling date/time of sampling. After labelling, the samples were placed into an insulated, chilled ice chest containing crush ice for transport to the analytical laboratory. Chain-of-custody documentation was prepared and accompanied the groundwater sample bottles to the analytical laboratory.

# 2.5 Completion of Well Destruction

On March 7, 2018, the well was destroyed by the backfilling and placement of neat cement grout inside the well casing using tremie methods. Prior to commencing well destruction, Ms. Allison Fang, the SMCEHS inspector, visited the Site and provided AEI with a State of California Department of Water Resources (DWR) Water Well Drillers Report (No. 149554) for the well. This information had not been shared with AEI, when requested on, at least, two separate occasions, prior to the start of this project and during previous investigations. The DWR Water Well Drillers Report confirmed that the owner of the well was Farallon Vista Association and that the well had been installed during the period from June 11 through 18, 1986. The Report also confirmed the 400-foot depth of the well. The diameter of the boring for the well was 10 inches. The well was screened from the 80- to 400-foot depth with a 1/8-inch slot size, and gravel-packed (filter-packed) with 3/8-inch diameter pea gravel from the 50- to 400-foot depth. A sanitary seal for the well was installed to the 50-foot depth. The depth of first-encountered groundwater was 175 feet. A copy of the DWR Water Well Drillers Report is provided in Appendix C.

During well destruction, approximately 1,100 gallons of neat cement were tremie-grouted into the well casing. Following grouting, the top of the well casing was cut below grade and the concrete pad at the wellhead was removed. The top of the neat cement grout was flush with the surrounding ground surface. Well destruction activities were inspected by Ms. Allison Fang of SMCEHS. A copy of the Well Completion Report documenting the destruction of the water supply well is provided in Appendix D.

#### 3.0 ANALYTICAL RESULTS

The groundwater sample was transported under appropriate chain-of-custody documentation to a State of California-certified laboratory, McCampbell Analytical, Inc. of Pittsburg, California. The sample was analyzed for total petroleum hydrocarbons quantified as gasoline (TPH-g), as diesel



Water Well Sampling and Well Destruction Carlos and Sierra Streets Moss Beach, San Mateo County, California 94038

(TPH-d), and as motor oil (TPH-mo) United States Environmental Protection Agency (EPA) Method 8015M and volatile organic compounds (VOCs) by EPA Method 8260B. Chain-of-custody documentation and the laboratory analytical report are provided in Appendix E.

Groundwater analytical results showed the presence of TPHs and VOCs. TPH-g was detected at a concentration of 100 micrograms per liter ( $\mu$ g/L), and TPH-d and TPH-mo were detected at concentrations of 20,000 and 60,000  $\mu$ g/L, respectively. The TPH-g concentration was found not to exceed applicable San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) except that it was found to exceed the RWQCB ESL odor nuisance level for drinking water. The TPH-d and TPH-mo concentrations were found to exceed applicable RWQCB ESLs.

VOCs, including acetone, 2-butanone (methyl ethyl ketone), naphthalene, toluene, and 1,2,4-trimethylbenzene, were detected at concentrations between 0.81 and 13  $\mu$ g/L. None of the detected VOCs were found to exceed their applicable RWQCB ESLs except for naphthalene, which was found at a concentration (1.9  $\mu$ g/L) slightly above its RWQCB ESLs for direct exposure human health risk levels, including Maximum Contaminant Level (MCL) Priority and human health risk based only levels.

To further confirm the TPH analytical results, the sample was re-analyzed by EPA Method 8015M with a silica gel cleanup. This analytical approach was utilized to assess whether the TPH results from the initial analyses are representative of petroleum-derived substances originating from the surrounding environment, such as naturally-occurring organic materials, etc. Analytical results showed that the TPH concentrations were the same as those for the initial analyses with the exception of the TPH-mo detected at a slightly lower concentration of 55,000  $\mu$ g/L. The results of the initial analyses and silica gel analyses also showed that the TPH concentrations were within the same order of magnitude.

The TPH analytical results also were compared with the laboratory chromatograms for the surrogate standard used for diesel and motor oil during the laboratory analyses and actual analytical results. Upon review of the chromatograms, it was noted that the signatures (highest peaks or responses) on both chromatograms were virtually the same (each measured the same at 18.4 minutes). In summary, the analytical results do not appear to be representative of petroleum-derived substances originating from the surrounding environment.

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the results of these activities performed at the Site, the well was destroyed in accordance with SMCEHS permitting requirements. Confirmation of the well destruction permit closeout by SMCEHS is provided in Appendix F.

With respect to the groundwater analytical results, it appears that the detected concentrations of TPH-d and TPH-mo are attributed to the older submersible pump that had been left in the well for greater than a 30-year period. Older submersible pumps are known to have seals, bearings, and oil-filled capacitors that contain petroleum-based greases, oil and lubricants, all of which can leak and fail over time.



Water Well Sampling and Well Destruction Carlos and Sierra Streets Moss Beach, San Mateo County, California 94038

Upon recognizing such features in older submersible pumps, the TPH concentrations in this well appear to be associated with an older, leaky submersible pump. Furthermore, during sampling, it was noted that the groundwater sample was somewhat turbid. A representative groundwater sample could not be collected at the time of sampling because the standing water inside the well casing could not be easily removed due to the slow purge rate of the pump.

On the basis of this information, no further investigation or remedial action regarding the well destruction is recommended at this time. If you have any questions or comments regarding this report, please do not hesitate to contact me at (925) 746-6000.

FD GEO

Sincerely,

Peter McIntyre, P.G. (7702) Executive Vice President

**AEI Consultants** 

2500 Camino Diablo

Walnut Creek, California 94597

Phone: (925) 746-6000

pmcintyre@aeiconsultants.com

Enclosures: Appendix A, SMCEHS Regulatory Agency Records

Appendix B, SMCEHS Drilling Permit

Appendix C, DWR Water Well Drillers Report Appendix D, DWR Well Completion Report

Appendix E, Chain-of-Custody Documentation, Certified Analytical Report, and

**Laboratory Chromatograms** 

Appendix F, SMCEHS Confirmation of Well Destruction Permit Closeout



# APPENDIX A SMCEHS REGULATORY AGENCY RECORDS







OFFICE OF ENVIRONMENTAL HEALTH SAN MATEO COUNTY DEPARTMENT OF HEALTH SERVICES

# **WELL CONSTRUCTION APPLICATION**

COUNTY GOVERNMENT CENTER 590 HAMILTON STREET REDWOOD CITY, CALIF. 94063 (415) 363-4305

4	County	Review	Dr
8			

DATE

PERMIT NO .:

RECEIPT NO.:	Ш	
ASSIGNED TO:	4	R.U

			ASSIGNED TO:
To	BE COMPLETED B	Y OWNER AND DRI	LLER CU(# 1042
Property Owner:	Well Owner (if different):		Drilling Co.:
California School Employer	Farallon Vista	Associates	H.A. M. Drilling
Address:	Address of Well Site:		Driller's Contractor's License Number:
P.O. Box 640	Carlos and Lin	coln Ave.	# 42666 4
City, State, Zip:	City, State, Zlp:		Address:
San Jose , CA. 95106	· Montara , . CA	<b>),</b>	1538 Willow Pass Koad
Telephone No.:	Telephone No.:		City, State, Zip:
(408) 263-8000	(415) 941-65	48	Pitts burg , CA. 94565
Assessor's Parcel No. of Well Site:	Owner's /Consu	Itant's Well No.:	Telephone No.:
037-02-022-04-02-08/	A -		(415) 432-9325
Estimate depth of completed well:	Less than 50 feet	50 to 300 feet	Over 300 feet
Purpose of Well: Domestic	Municipal/Industrial	Agricultural * [	Monitoring Cathodic Protection
* Monitoring wells are those constructed for the includes wells constructed for general exploration Storage Permit Ordinance for site-specific ground	n and investigation purposes a	is well as those to be constri	and/or repetitive water samples for analyses. This acted in conformance with the Hazardous Materials rials storage tanks.
THIS SECTION TO BE	OMPLETED IF THIS	APPLICATION IS FO	OR A MONITORING WELL
	nply with City or County H		
C) Other/s	specify);		
	* gr		
Name of Busi	ness:		Business License No.:
if proposed well is to meet compliance with a Hazardous	Materials Storage Permit Ordinand	e has the City or County been 60	ntacted? Yes No
If yes, give name of City or County  Consultant's Name (company)		Type of monitoring devi- Monitoring well use: [ Depth and Qu Vadose device installation	Depth Quality
Address		Suction Lysin	neter
			i
City, State, Zip		SIGNAT	URE OF RESPONSIBLE PROFESSIONAL
(		REGISTRATION NO.	- OR - CERTIFICATE NO.
Area Code Telephone No.		CIVIL ENGINEER	ENGINEERING GEOLOGIST
TOPOGRAPHIC FEATURES	جونم هـ ده څه څه په په در چه چه به پورې پست په پسساط		
is well to be constructed: In a public	sidewalk 🔲 In a p	ublic road On p	oublic property On private property
Within 50 feet of the top of a creek bank	Yes No	Within 50 feet of any ex	isting well Yes No
Within 50 feet of a sanitary sewer	Yes Mo	Within 150 feet of a ces	spool or seepage pit Yes No
Within 100 feet of a pit privy, septic tank, leachfield	Yes No		90
CERTIFICATION BY WELL OWNER/AGENT	AND DRILLER/AGENT:	ş	-
I certify that the information given above is correct permit, the San Mateo Co. Ordinance, and, if applic the well owner to notify the County of any change	able, the Hazardous Materials	Storage Permit Ordinance of	the County of San Mateo. It is my responsibility as
WELL CHAMERIAGENT	DATE	subject to the Working	formance of the work for which this permit is being ploy any person in any manner so as to become un's Compensation laws of California.
SIGNATURE OF DRICLER/AGENT	DATE	I certify that I have a V	elid Workmen's Compensation Coverage.

MPORTANT: A minimum 24-hour notice must be given to Environmental Health prior to drilling.

WELL PERMIT NO .: \_



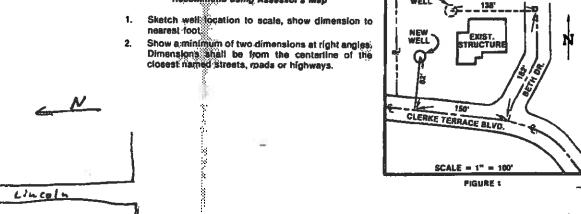
# WELL CONSTRUCTION APPLICATION

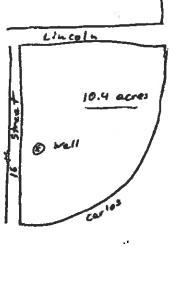
County Review Draft

FXIST

Based on information on the application and attachment(s) hereto (if any) and subject to approval noted below, permission is hereby granted to construct (drift) the described well. Permission to start may be withheld until a field check verifies all statements made on application by Permittee and is also subject to the "General" and "Special" Conditions stated below.

#### WELL LOCATION (Draw Accurately) Recommend using Assessor's Map







#### **GENERAL CONDITIONS:**

- Construction under this Permit is subject to any instructions by Health Department representative relative to the "Standards for the Construction of Wells in San Mateo County".
- Permit may be voided before work begins if field check reveals any misrepresentation under "well location" or "Topographic Festures" on application.
- This Permit is valid only for the purpose specified herein. No change in construction procedure as prescribed on attached Standards and in Special Conditions below will be allowed except upon written permission of the County.
- Permittee shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend and save the County of San Mateo, its of-D. ficers, agents and employees free and harmless from any and alkexpense, cost or fiability in connection with or resulting from the exercise of this Permit including, but not limited to properly damage, personal injury and wrongful death.
- Compliance with "CALIOSHA" California Labor Code Section 6300 (and following) is required. Ē.
- Water quality and production from all wells to be used for domestic water supply must be approved by the Office of Environment Health.
- Permit will be automatically cancelled if not exercised or if extension on requested by Permittee within 90 catendar days of above date. G.
- Oritter is to complete State DWR Form 188 and mail original to San Mareo County Health Services within 30 days of completion of well construction.
- For the construction of water producing wells, a Permittee must be a licensed water well drilling contractor unless the work is to be done by the landowner or employees of the landowner. (See Business & Professions Code § 7026;3, 7028).
- For monitoring wells refer to State Water Well Standards 74-81. Dry hojes shall be backfilled within one week of drilling. Well destruction shall be done in accordance with State and County Standards.
- Each well site requires a separate Well Construction Application, and permit.

PLEGIAL COMBILIONS	ስ ኤ
1 1 1 1 1	
APPROVED:	DATE: 5/16/86
A CONTRACTOR OF THE CONTRACTOR	

# San Mate County Department of Public He We Welfare 590 Hamilton Street, Redwood City, California 94063

COMESTIC MELL PERMIT

063 No. ເຈລະເອ

5/10/80

Lot No.

Ordinance No.....

Block No.

San Jakes Cruncy

Environmental Health

Permit to construct or install

s

At Carlos and Lincoln Ave. Montara, C1, 34037

Parcel No. 037-02-022-04-02-08/A

This certifies that approval has been granted to:

California School Employee Association 1.0. Box 640 San Joss, Ca. 95106

Contractor E.A.N. Drilling

For the Director

Department of Public Health and Welfare
PERMIT ISSUED AY RICHARD WILLSON

RICHARD VILSON

Permit shall be void if construction is not started within 90 days of date of this permit.

J

2238 Willow Pass Road

M.A.I. Drilling

Sttsburg, Ca.

THIS PERMIT IS NON-TRANSFERABLE

720-21

2160 Ann Street Concord, CA 94520 Lic. #426664

(415) 689-4004 (707) 448-4645

## WELL YIELD REPORT INFORMATION

(415) 685-1082 (415) 432-9331

OWNERS NAME		Farrallon	Vista A	ssn.			
PERMIT NU	IMBER IF KNOW	IN	DRW #14955	4			
DATE OF T	EST	35	June 18,	1986		K	
TOTAL DEF	TH OF WELL		400 ft.		P.		
STANDING	WATER LEVEL		35 ft.				
STATIC WA	TER LEVEL		168 ft.				
PUMP SET	AT	77	390 ft.				
TIME TEST	BEGAN		2:30p.m				
TIME	DRAWDOWN	G.P.M.		TIM	E	DRAWDOWN	G.P.M.
2:30p	35'	5					
3:30	100'	5					
4:00	93'	5					
4:58	160'	3					
5:05	165	3					
5:30	168	2					

Recovery time 7:00p.m. 165' 7:17p.m. 160'

I CERTIFY THAT THE ABOVE RESULTS ARE CORRECT FOR THE PUMP TEST AS PREFORMED DN \_\_\_\_\_\_ June 18 \_\_\_\_\_ , 198 6 .

June 19, ,1986

DATE REPORT COMPLETED

"YOU'VE TRIED THE REST, NOW TRY THE BEST"

5.20	<b>a</b>		Tine Cou	inty Review <sub>s</sub> Drafto. 190 ≗
138-3053	6 T 9 P G	TYPE OF SAMPLE		ANALYSES DESIRED AND REMARKS
>	φ. •	Well Faral	lone Vista #1	Water Quality 7/9/86
AND WATER,LABÖRATORY 12 W. PARK AVENUE LDER CREEK, CA 95006	Darroll Weddell 26 Marie Cts. Half Moon Hay, "u	Bacteriology  Chemistry	MPN M F  Iron Manganese Chloride Nitrate Total Dissolved Solids Conductivity	per 100 ml per 100 ml  ppm .125 ppm .06 ppm 241 ppm 20 ppm μ mhos/cm 880
SOIL A 14072 BOULD	From	. Tel	Š.	Initial

30 ypnz

415-343-5795

JAMES S. MARSH JAMES S. MARSH

CONSULTING CIVIL ENGINEER

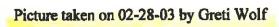
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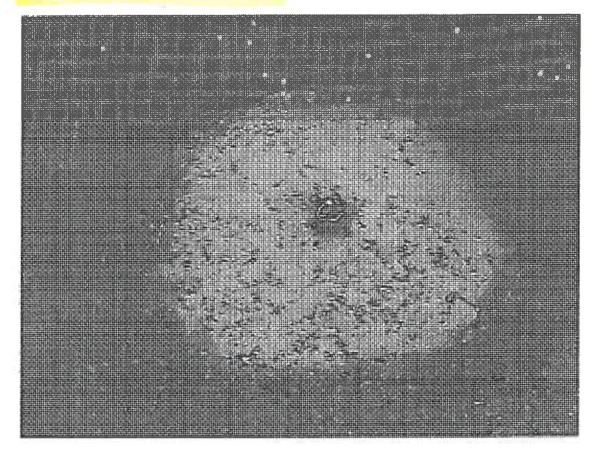
GEL-1 FEW OSG-104-301 &

CONTROL OF SAN MATER, CA 94402

# SEPTIC AND WELL CHECK-OFF LIST

Build:	ing Site Location:	Carlos and Li	ncoln Ave. Montara, Ca	94037
Appli	cant:	Ca. School Employ	yee Association	
A P N	umber:	037-42-022-04-02	-08/A	
X	Application Form			
	Fee		ISSUE WELL PERMIT	
8	Two Plot Plans		ISSUE SEPTIC PERMIT	
	Water Company Lett	er	DATE	
	Well Report		ISSUE CCR 15 DATE	
	Chem. Analysis Bact. Analysis		ISSUE CCR 16 a DATE	
	Pump Test	66		
4-	Special Conditions	;		
		·		ή.
DATE	4	STATUS	40	
12/1	1/90 Spoke	a Jack	Foster Farra	110h
	Vista	Assoc. who	drilled both (2) u	rells
	on Th	e one perm	nit His phone #	<u> </u>
	349-	1244. He ste		45
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X				
•				
	¥0		€	







# McCracken, Byers & Haesloop LLP SAN KATEO CH

a Multi-Disciplinary Practice 1528 So. El Camino Real, Suite 306 San Mateo, CA 94402 Tel: 650-377-4890 Fax: 650-377-4895 dbyers@landuselaw.com

RECEIVEL

Michael D. McCracken David J. Byers Mark Haesloop, P.C. James M. Brennan

Of Counsel Patrick M. K. Richardson **Paralegals** Jill Briggs

March 1, 2005

Mr. Stanley Low Department of Environmental Health County of San Mateo 455 Counter Center, Fourth Floor Redwood City, CA 94063

Re:

Well Logs For Farallon Vista Associates

Dear Stan:

As you will recall quite sometime ago, I asked you to locate the well logs for the Farralon Vista Associates' parcel. I represent the California School Employees Association, who is the owner of the land. I believe the APN number is 037-022-040.

Please contact me with this information.

If you any questions, do not hesitate to call.

Menors of Done on 3/7/05 for file review appointment PD W-43-86

Sincerely,

McCRACKEN, BYERS & HAESLOOP LLP

DAVID J. BYERS

# APPENDIX B SMCEHS DRILLING PERMIT



ORDINANCE: CHAPTER 4.68

ENVIRONMENTAL HEALTH
SAN MATEO COUNTY

(b)X(c)







*Protecting Our Health and Environment* **/E:** 4667 WELL ABANDONMENT

FORMER PRODUCTION WELL

FACILITY:

INT OF CARLOS ST & SIERRA ST MOSS BEACH

OWNER:

CALIFORNIA SCHOOL EMPLOYEES ASSOCIATION OF CARLOS ST & SIERRA

MOSS BEACH

SR0023814 **APN:** 037022070

CONTRACTOR:

CASCADE DRILLING

# FERMS & CONDITIONS:

- 1. All setback distances are the responsibility of the property owner.
  - 2. Environmental Health will require wells that are in violation to be destroyed by the property owner at their own expense.

ALLISON FANG

ENVIRONMENTAL HEALTH SPECIALIST

To schedule an inspection call (650) 339-5635. Two (2) working days advance notice is required

**EXPIRATION DATE: 2/9/2019** 

**DATE ISSUED:** 02/09/2018

THIS PERMIT IS NONTRANSFERABLE AND MUST BE POSTED ON-SITE IN A CONSPICUOUS PLACE

# APPENDIX C DWR WATER WELL DRILLERS REPORT





OWR 188 (REV. 7176)

# THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

County Review Draft

Do not fill in

No. 149554

Notice of Intent No. WATER WELL D	RILLERS REPORT State Well No.
Local Permit No. or Date	Other Well No.
(1) OWNER: Name Farraton Vista Assn. (mike King	(12) WELL LOG: Total depth 400 ft. Depth of completed well 400 ft.
Address 800 1015 E. Hillsdale Blvd.	from ft. to ft. Formation (Describe by color, character, size or material)
City Foster City, CA. Zip 94404	0 - 1 Aephalt & Sub bese
(2) LOCATION OF WELL (See instructions):	1 - 55 Brown Decomposed Granite
Owner's Well Number	7 '55'-70 Gray DG
Well address if different from above 15th & Lincoln Ave.	- 70 73 White 06
Township Montara Range Section	73 - 175 Gray DG
Distance from cities, roads, railroads, fences, etc.	175 - 250 Hard Gray DG (water - 175')
	-250 -300 Brown/Gray OG
	300 - 320 Hard Greey/DG
	320 -400 Sofft Gray 03
(3) TYPE OF WORK:	and the state of t
New Well Despening	The state of the s
Reconstruction	
Reconditioning	AL LE CONTRACTOR OF THE STATE O
Horizontal Well	30 + 5 1 10 10 ·
Destruction in term 12)	
Destruction [ (Describe destruction materials and procedures in Item 12)	1 - 5 - 7 × 5
(4) PROPOSED USE:	- 11
Domestic Damestic	
Irrigation D	2 10 10 10 10 10 10 10 10 10 10 10 10 10
Industrial	14. The state of t
Test Well	
Stock	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lage 157 55 Municipal D	
WELL LOCATION SKETCH Other	
(5) EQUIPMENT: (6) GRAVEL PACK:	( - ) 1/
Rothry A Reverse   Yes X No   Size 3/8"   Dist	(2) \( \) = 2
Cable Diameter of bore 10	C. 112
Other   Bucket   Packed from 50 to 400 ft.	
(7) ING INSTALLED: (8) PERFORATIONS:	W
Steel Plastic C Conceste . Type of perforation or size of screen	<del>\$</del>
From To Dia. Gage or From To Slot size	
0 400 5" 0.150 80 400 1/5"	
	40
(9) WELL SEAL:	,
Washington sanitary seal provided? Yes X No I If yas, to depth 50 ft.	
West rate sealed against poliution? Yes [] No XX Interval ft.	
Method of sealing	Work started 5/11 19 86 Completed 5/18 19 85
(10) WATER LEVELS:	WELL DRILLER'S STATEMENT:
Depth of first water, if known 175	This well was drilled under my jurisdiction and this report is true to the best of my
Standing level after well completion ft.	knowledge and ballef.
(11) WELL TESTS:	Signed (Well Driller)
Was well test made? Yes □ No □ If yes, by whom?  Type of test Pump □ Bailer □ Air lift □	MAM That I I imm The
Depth to water at start of testft. At end of testft	NAME 15-16-16-16-16-16-16-16-16-16-16-16-16-16-
Dischargegal/min after hours Water temperature	AU(tress
Chemical analysis made? Yes [ No [ If yes, by whom?	City Pittaburg, CA Zip 94565
Was electric log made? Yes [] No [] If yes, attach copy to this report	License No. 426654 Date of this report 5/18/85

IF ADDITIONAL SPACE IS NEEDED. USE NEXT CONSECUTIVELY NUMBERED FORM.

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# APPENDIX D DWR WELL COMPLETION REPORT



# State of California Well Completion Report

Well Completion Report
Form DWR 188 Submitted 4/11/2018
WCR2018-003005

Owner's Well Number		Date Wo	rk Began	02/21/2018	1	Date Work End	led 03/07/2018
Local Permit Agency	San Mateo County Div	sion of Environmental Hea	alth				
Secondary Permit Age	ncy	Perm	it Number	18-0245		Permit D	ate 02/09/2018
Well Owner (m	ust remain confid	dential pursuant to	o Wate	r Code 1375	2)	For	mer Use
Name CALIFORNIA	A SCHOOL EMPLOYEES	S ASSOCIATION, N/A N/A	1		Activity	Destroy	
Mailing Address Ir	ntersection of Carlos and	Sierra Streets			Former	Use Wat	er Supply
City Moss Beach		State		Zip 94038	_		
		We	ell Loca	ation			
Address					APN 037	7022070	
City	Zi	p Coun	ty San N	Mateo	Township	05 S	
Latitude	N	Longitude		W	· -	5 W	
Deg.	Min. Sec.	Deg.	Min.	Sec.	Section (	04 ridian Moun	t Diablo
Dec. Lat. 37.534148	39	Dec. Long122.51	155625			ace Elevation	Diablo
Vertical Datum		Horizontal Datum WG	S84		Elevation Ac		
Location Accuracy	20 Ft Loca	ation Determination Metho	d USG	S Quad		termination Me	thod
	Borehole Inform	ation		Water	Level and	Yield of C	completed Well
Orientation Vertical		Specify		Depth to first wat	er	(Fe	et below surface)
Drilling Method	Drilli	ng Fluid	<del></del>	Depth to Static			
				Water Level		( /	Measured
Total Depth of Boring		Feet	11	Estimated Yield*		` '	Type
Total Depth of Completed Well Feet		Feet		Test Length *May not be repre	econtative of a	,	I Drawdown (feet)
				May not be repre	Sentative of a	well's long ten	ii yieid.
	using Tremie Methods						
Other Observation	ne:						

Borehole Specifications				
Depth from Surface Feet to Feet	Borehole Diameter (inches)			

	Certification State Review Draft									
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief										
Name	Name CASCADE DRILLING L P									
	Person, Firm or Corporation									
	P O BOX 1184	WC	OODINVILLE	WA	98072					
	Address		City	State	Zip					
Signed	electronic signature received		04/11/2018		38110					
	C-57 Licensed Water Well Contractor	r	Date Signed	C-57 Lic	ense Number					

	DWR Use Only									
CSG#	State We	e Well Number		Site Code			Local Well Number			
			N						w	
La	titude De	g/Min/Sed	;	Longitude Deg/Min/Sec						
TRS:										
APN:										

# **APPENDIX E**

# CHAIN-OF-CUSTODY, CERTIFIED ANALYTICAL REPORT, AND LABORATORY CHROMATOGRAMS





# McCampbell Analytical, Inc.

"When Quality Counts"

# **Analytical Report**

**WorkOrder:** 1803635

**Report Created for:** AEI Consultants

2500 Camino Diablo, Ste.#200

Walnut Creek, CA 94597

**Project Contact:** William Hicks

**Project P.O.:** 154987

**Project:** 350428; Moss Beach

**Project Received:** 03/07/2018

Analytical Report reviewed & approved for release on 03/15/2018 by:

Heidi Fruhlinger

Heid Tullyr

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



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CA ELAP 1644 ♦ NELAP 4033 ORELAP

# **Glossary of Terms & Qualifier Definitions**

Client: AEI Consultants

Project: 350428; Moss Beach

**WorkOrder:** 1803635

#### **Glossary Abbreviation**

%D Serial Dilution Percent Difference

95% Interval 95% Confident Interval

DF Dilution Factor

DI WET (DISTLC) Waste Extraction Test using DI water

DISS Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)

DLT Dilution Test (Serial Dilution)

DUP Duplicate

EDL Estimated Detection Limit

ERS External reference sample. Second source calibration verification.

ITEF International Toxicity Equivalence Factor

LCS Laboratory Control Sample

MB Method Blank

MB % Rec % Recovery of Surrogate in Method Blank, if applicable

MDL Method Detection Limit

ML Minimum Level of Quantitation

MS Matrix Spike

MSD Matrix Spike Duplicate

N/A Not Applicable

ND Not detected at or above the indicated MDL or RL

NR Data Not Reported due to matrix interference or insufficient sample amount.

PDS Post Digestion Spike

PDSD Post Digestion Spike Duplicate

PF Prep Factor

RD Relative Difference

RL Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)

RPD Relative Percent Deviation
RRT Relative Retention Time

SPK Val Spike Value

SPKRef Val Spike Reference Value

SPLP Synthetic Precipitation Leachate Procedure

ST Sorbent Tube

TCLP Toxicity Characteristic Leachate Procedure

TEQ Toxicity Equivalents

WET (STLC) Waste Extraction Test (Soluble Threshold Limit Concentration)

# **Glossary of Terms & Qualifier Definitions**

Client: AEI Consultants **Project:** 350428; Moss Beach

**WorkOrder:** 1803635

### **Analytical Qualifiers**

b1 Aqueous sample that contains greater than ~1 vol. % sediment

b6 Lighter than water immiscible sheen/product is present

d7 Strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

e2 Diesel range compounds are significant; no recognizable pattern

e7 Oil range compounds are significant

#### **Quality Control Qualifiers**

F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.

F3 The surrogate standard recovery and/or RPD is outside of acceptance limits.



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# **Analytical Report**

Client: AEI Consultants

Date Received: 3/7/18 17:00

Date Prepared: 3/14/18

**Project:** 350428; Moss Beach

**WorkOrder:** 1803635

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

# **Volatile Organics**

Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID
WS-1	1803635-001B	Water	03/06/20	18 17:30	GC16 03141815.D	154682
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	10		10	1		03/14/2018 16:41
tert-Amyl methyl ether (TAME)	ND		0.50	1		03/14/2018 16:41
Benzene	ND		0.50	1		03/14/2018 16:41
Bromobenzene	ND		0.50	1		03/14/2018 16:41
Bromochloromethane	ND		0.50	1		03/14/2018 16:41
Bromodichloromethane	ND		0.50	1		03/14/2018 16:41
Bromoform	ND		0.50	1		03/14/2018 16:41
Bromomethane	ND		0.50	1		03/14/2018 16:41
2-Butanone (MEK)	13		2.0	1		03/14/2018 16:41
t-Butyl alcohol (TBA)	ND		2.0	1		03/14/2018 16:41
n-Butyl benzene	ND		0.50	1		03/14/2018 16:41
sec-Butyl benzene	ND		0.50	1		03/14/2018 16:41
tert-Butyl benzene	ND		0.50	1		03/14/2018 16:41
Carbon Disulfide	ND		0.50	1		03/14/2018 16:41
Carbon Tetrachloride	ND		0.50	1		03/14/2018 16:41
Chlorobenzene	ND		0.50	1		03/14/2018 16:41
Chloroethane	ND		0.50	1		03/14/2018 16:41
Chloroform	ND		0.50	1		03/14/2018 16:41
Chloromethane	ND		0.50	1		03/14/2018 16:41
2-Chlorotoluene	ND		0.50	1		03/14/2018 16:41
4-Chlorotoluene	ND		0.50	1		03/14/2018 16:41
Dibromochloromethane	ND		0.50	1		03/14/2018 16:41
1,2-Dibromo-3-chloropropane	ND		0.20	1		03/14/2018 16:41
1,2-Dibromoethane (EDB)	ND		0.50	1		03/14/2018 16:41
Dibromomethane	ND		0.50	1		03/14/2018 16:41
1,2-Dichlorobenzene	ND		0.50	1		03/14/2018 16:41
1,3-Dichlorobenzene	ND		0.50	1		03/14/2018 16:41
1,4-Dichlorobenzene	ND		0.50	1		03/14/2018 16:41
Dichlorodifluoromethane	ND		0.50	1		03/14/2018 16:41
1,1-Dichloroethane	ND		0.50	1		03/14/2018 16:41
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1		03/14/2018 16:41
1,1-Dichloroethene	ND		0.50	1		03/14/2018 16:41
cis-1,2-Dichloroethene	ND		0.50	1		03/14/2018 16:41
trans-1,2-Dichloroethene	ND		0.50	1		03/14/2018 16:41
1,2-Dichloropropane	ND		0.50	1		03/14/2018 16:41
1,3-Dichloropropane	ND		0.50	1		03/14/2018 16:41
2,2-Dichloropropane	ND		0.50	1		03/14/2018 16:41

(Cont.)



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# **Analytical Report**

Client: AEI Consultants

Date Received: 3/7/18 17:00

Date Prepared: 3/14/18

**Project:** 350428; Moss Beach

WorkOrder: 1803635 Extraction Method: SW5030B Analytical Method: SW8260B

Unit:  $\mu g/L$ 

<b>T</b> 7 1	4 • 1	$\sim$	•
Vol	atıle	()rg	ganics

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
WS-1	1803635-001B	Water	03/06/20	18 17:30 GC16 031418	15.D 154682
Analytes	Result		<u>RL</u>	DF	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	03/14/2018 16:41
cis-1,3-Dichloropropene	ND		0.50	1	03/14/2018 16:41
trans-1,3-Dichloropropene	ND		0.50	1	03/14/2018 16:41
Diisopropyl ether (DIPE)	ND		0.50	1	03/14/2018 16:41
Ethylbenzene	ND		0.50	1	03/14/2018 16:41
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	03/14/2018 16:41
Freon 113	ND		0.50	1	03/14/2018 16:41
Hexachlorobutadiene	ND		0.50	1	03/14/2018 16:41
Hexachloroethane	ND		0.50	1	03/14/2018 16:41
2-Hexanone	ND		0.50	1	03/14/2018 16:41
Isopropylbenzene	ND		0.50	1	03/14/2018 16:41
4-Isopropyl toluene	ND		0.50	1	03/14/2018 16:41
Methyl-t-butyl ether (MTBE)	ND		0.50	1	03/14/2018 16:41
Methylene chloride	ND		0.50	1	03/14/2018 16:41
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	03/14/2018 16:41
Naphthalene	1.9		0.50	1	03/14/2018 16:41
n-Propyl benzene	ND		0.50	1	03/14/2018 16:41
Styrene	ND		0.50	1	03/14/2018 16:41
1,1,1,2-Tetrachloroethane	ND		0.50	1	03/14/2018 16:41
1,1,2,2-Tetrachloroethane	ND		0.50	1	03/14/2018 16:41
Tetrachloroethene	ND		0.50	1	03/14/2018 16:41
Toluene	0.81		0.50	1	03/14/2018 16:41
1,2,3-Trichlorobenzene	ND		0.50	1	03/14/2018 16:41
1,2,4-Trichlorobenzene	ND		0.50	1	03/14/2018 16:41
1,1,1-Trichloroethane	ND		0.50	1	03/14/2018 16:41
1,1,2-Trichloroethane	ND		0.50	1	03/14/2018 16:41
Trichloroethene	ND		0.50	1	03/14/2018 16:41
Trichlorofluoromethane	ND		0.50	1	03/14/2018 16:41
1,2,3-Trichloropropane	ND		0.50	1	03/14/2018 16:41
1,2,4-Trimethylbenzene	1.2		0.50	1	03/14/2018 16:41
1,3,5-Trimethylbenzene	ND		0.50	1	03/14/2018 16:41
Vinyl Chloride	ND		0.50	1	03/14/2018 16:41
Xylenes, Total	ND		0.50	1	03/14/2018 16:41



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# **Analytical Report**

Client: AEI Consultants

Date Received: 3/7/18 17:00

Date Prepared: 3/14/18

**Project:** 350428; Moss Beach

**WorkOrder:** 1803635 **Extraction Method:** SW5030B

Analytical Method: SW8260B

Unit:  $\mu g/L$ 

	Volatile Organics								
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID					
WS-1	1803635-001B	Water	03/06/2018 17:30 GC16 0314181	5.D 154682					
Analytes	Result		<u>RL</u> <u>DF</u>	<u>Date Analyzed</u>					
Surrogates	<u>REC (%)</u>		<u>Limits</u>						
Dibromofluoromethane	93		78-134	03/14/2018 16:41					
Toluene-d8	95		82-120	03/14/2018 16:41					
4-BFB	107		69-131	03/14/2018 16:41					
Analyst(s): TK			Analytical Comments: b1						



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# **Analytical Report**

Client: AEI Consultants WorkOrder: 1803635

Date Received: 3/7/18 17:00 Extraction Method: SW5030B

**Date Prepared:** 3/14/18 **Analytical Method:** SW8021B/8015Bm

**Project:** 350428; Moss Beach Unit: μg/L

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

Client ID	Lab ID	Matrix	Date C	ollected Instr	ument	Batch ID
WS-1	1803635-001A	Water	03/06/20	18 17:30 GC3	03141806.D	154603
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH(g) (C6-C12)	100		50	1		03/14/2018 14:37
MTBE			5.0	1		03/14/2018 14:37
Benzene			0.50	1		03/14/2018 14:37
Toluene			0.50	1		03/14/2018 14:37
Ethylbenzene			0.50	1		03/14/2018 14:37
Xylenes			0.50	1		03/14/2018 14:37
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
aaa-TFT	93		90-117			03/14/2018 14:37
Analyst(s): IA			Analytical Com	ments: d7,b1		



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# **Analytical Report**

Client: AEI Consultants

Date Received: 3/7/18 17:00

Date Prepared: 3/12/18

**Project:** 350428; Moss Beach

WorkOrder: 1803635 Extraction Method: SW3510C

**Analytical Method:** SW8015B

Unit:  $\mu g/L$ 

# Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix		Date Co	ollected Instrument	Batch ID
WS-1	1803635-001A	Water		03/06/20	18 17:30 GC11B 03131859.D	154526
<u>Analytes</u>	Result			<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	20,000			2500	50	03/14/2018 04:07
TPH-Motor Oil (C18-C36)	60,000			12,000	50	03/14/2018 04:07
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>		
C9	97			61-139		03/14/2018 04:07
Analyst(s): JIS			<u>Analy</u>	<u>/tical Comr</u>	ments: e7,e2,b6,b1	

1803635

154682

# **Quality Control Report**

WorkOrder:

**Client: AEI Consultants** 

**Date Prepared:** 3/13/18 **BatchID: Date Analyzed:** 3/13/18 **Extraction Method: SW5030B Instrument:** GC38 **Analytical Method:** SW8260B **Matrix:** Unit: Water

**Project:** 350428; Moss Beach Sample ID: MB/LCS/LCSD-154682

# **QC Summary Report for SW8260B**

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10			
tert-Amyl methyl ether (TAME)	ND ND	0.50			
Benzene	ND ND	0.50			<u> </u>
Bromobenzene	ND ND	0.50			
Bromochloromethane	ND ND	0.50			
Bromodichloromethane	ND ND	0.50	<u> </u>	<u> </u>	<u> </u>
Bromoform	ND ND	0.50			<u> </u>
Bromomethane	ND ND	0.50			<u> </u>
2-Butanone (MEK)	ND ND	2.0	<u> </u>	<u> </u>	<u> </u>
t-Butyl alcohol (TBA)	ND ND	2.0			<u> </u>
n-Butyl benzene	ND ND	0.50	-		-
sec-Butyl benzene	ND ND	0.50		-	<u> </u>
			-	-	
tert-Butyl benzene	ND	0.50		-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)

# **Quality Control Report**

**Client:** AEI Consultants

Date Prepared:3/13/18Date Analyzed:3/13/18Instrument:GC38Matrix:Water

**Project:** 350428; Moss Beach

**WorkOrder:** 1803635 **BatchID:** 154682

**BatchID:** 154682 **Extraction Method:** SW5030B

**Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Sample ID: MB/LCS/LCSD-154682

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	21.5		25	86,F3	91-133
Toluene-d8	25.5		25	102	87-127
4-BFB	2.30		2.5	92	66-140



# **Quality Control Report**

Client: AEI Consultants WorkOrder: 1803635

Date Prepared:3/13/18BatchID:154682Date Analyzed:3/13/18Extraction Method:SW5030BInstrument:GC38Analytical Method:SW8260B

 $\begin{tabular}{lll} \textbf{Matrix:} & Water & \textbf{Unit:} & \mu g/L \\ \end{tabular}$ 

**Project:** 350428; Moss Beach **Sample ID:** MB/LCS/LCSD-154682

# **QC Summary Report for SW8260B**

Analyte	LCS Result	LCSD Result	SPK Val	LC: %R		CSD REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	81.5	81.5	200	41,	F2 4	1, F2	47-122	0	20
tert-Amyl methyl ether (TAME)	8.61	8.72	10	86	8	7	62-121	1.22	20
Benzene	8.93	8.98	10	89	9	0	74-121	0.602	20
Bromobenzene	8.35	8.55	10	83	8	6	63-127	2.42	20
Bromochloromethane	8.73	8.77	10	87	8	8	70-126	0.448	20
Bromodichloromethane	9.20	9.34	10	92	9:	3	66-127	1.52	20
Bromoform	8.28	8.40	10	83	8	4	60-119	1.35	20
Bromomethane	9.69	9.80	10	97	98	8	32-155	1.14	20
2-Butanone (MEK)	34.7	35.3	40	87	8	8	51-117	1.67	20
t-Butyl alcohol (TBA)	34.2	33.3	40	85	8:	3	41-122	2.52	20
n-Butyl benzene	9.33	9.34	10	93	9:	3	73-137	0	20
sec-Butyl benzene	8.05	8.14	10	80	8	1	71-137	1.10	20
tert-Butyl benzene	8.37	8.42	10	84	84	4	61-136	0	20
Carbon Disulfide	9.47	9.33	10	95	9:	3	61-139	1.48	20
Carbon Tetrachloride	9.64	9.65	10	96	9	7	69-137	0.104	20
Chlorobenzene	8.47	8.52	10	85	8	5	71-122	0	20
Chloroethane	8.83	8.63	10	88	8	6	54-132	2.27	20
Chloroform	9.13	9.23	10	91	9:	2	73-122	1.03	20
Chloromethane	9.67	9.29	10	97	9:	3	48-136	3.98	20
2-Chlorotoluene	8.53	8.64	10	85	8	6	65-134	1.34	20
4-Chlorotoluene	8.54	8.82	10	85	8	8	65-130	3.20	20
Dibromochloromethane	8.41	8.50	10	84	8	5	65-121	1.07	20
1,2-Dibromo-3-chloropropane	8.22	8.22	4	205	i, F2 2	05, F2	41-132	0	20
1,2-Dibromoethane (EDB)	8.30	8.33	10	83	8	3	67-125	0	20
Dibromomethane	8.75	8.87	10	88	8	9	68-121	1.30	20
1,2-Dichlorobenzene	8.44	8.60	10	84	8	6	69-128	1.92	20
1,3-Dichlorobenzene	8.57	8.59	10	86	8	6	71-131	0	20
1,4-Dichlorobenzene	8.52	8.64	10	85	8	6	70-128	1.45	20
Dichlorodifluoromethane	10.4	10.1	10	104	10	01	21-158	3.13	20
1,1-Dichloroethane	9.41	9.45	10	94	94	4	73-123	0	20
1,2-Dichloroethane (1,2-DCA)	9.05	9.17	10	90	9:	2	61-127	1.32	20
1,1-Dichloroethene	9.66	9.59	10	97	9	6	68-130	0.669	20
cis-1,2-Dichloroethene	9.06	9.14	10	91	9	1	72-123	0	20
trans-1,2-Dichloroethene	9.01	9.01	10	90	9	0	64-138	0	20
1,2-Dichloropropane	9.04	9.14	10	90	9	1	71-121	1.19	20
1,3-Dichloropropane	9.10	8.37	10	91	8	4	69-120	8.30	20
2,2-Dichloropropane	9.77	9.47	10	98	9	5	64-142	3.18	20
1,1-Dichloropropene	9.27	9.21	10	93	9:	2	70-130	0.616	20
cis-1,3-Dichloropropene	9.05	9.04	10	90	9	0	58-136	0	20

(Cont.)



# **Quality Control Report**

**Client:** AEI Consultants

Date Prepared:3/13/18Date Analyzed:3/13/18Instrument:GC38

Matrix: Water

**Project:** 350428; Moss Beach

**WorkOrder:** 1803635 **BatchID:** 154682

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Sample ID: MB/LCS/LCSD-154682

# **QC Summary Report for SW8260B**

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	9.03	9.00	10	90	90	66-119	0	20
Diisopropyl ether (DIPE)	9.07	9.20	10	91	92	66-123	1.42	20
Ethylbenzene	8.93	8.90	10	89	89	71-125	0	20
Ethyl tert-butyl ether (ETBE)	8.80	8.95	10	88	90	67-122	1.68	20
Freon 113	9.41	9.35	10	94	94	68-132	0	20
Hexachlorobutadiene	9.29	9.14	10	93	91	56-155	1.72	20
Hexachloroethane	8.41	8.68	10	84	87	61-129	3.17	20
2-Hexanone	9.07	8.47	10	91	85	51-115	6.89	20
Isopropylbenzene	8.75	8.91	10	87	89	66-134	1.81	20
4-Isopropyl toluene	8.60	8.68	10	86	87	70-136	0.917	20
Methyl-t-butyl ether (MTBE)	8.62	8.64	10	86	86	64-118	0	20
Methylene chloride	8.24	8.23	10	82	82	62-121	0	20
4-Methyl-2-pentanone (MIBK)	8.75	8.72	10	88	87	51-115	0.434	20
Naphthalene	8.28	8.42	10	83	84	55-137	1.75	20
n-Propyl benzene	8.67	8.73	10	87	87	63-140	0	20
Styrene	8.53	8.58	10	85	86	62-133	0.554	20
1,1,1,2-Tetrachloroethane	8.62	8.77	10	86	88	69-128	1.73	20
1,1,2,2-Tetrachloroethane	8.42	8.57	10	84	86	60-118	1.78	20
Tetrachloroethene	9.09	9.08	10	91	91	63-136	0	20
Toluene	8.56	8.57	10	86	86	67-124	0	20
1,2,3-Trichlorobenzene	8.60	8.67	10	86	87	57-145	0.865	20
1,2,4-Trichlorobenzene	9.07	9.10	10	91	91	60-144	0	20
1,1,1-Trichloroethane	9.26	9.29	10	93	93	70-133	0	20
1,1,2-Trichloroethane	8.20	8.30	10	82	83	65-125	1.22	20
Trichloroethene	8.96	8.98	10	90	90	67-133	0	20
Trichlorofluoromethane	9.50	9.24	10	95	92	59-145	2.78	20
1,2,3-Trichloropropane	8.05	8.19	10	80	82	65-115	1.75	20
1,2,4-Trimethylbenzene	8.66	8.75	10	87	88	67-136	1.02	20
1,3,5-Trimethylbenzene	8.65	8.69	10	86	87	68-135	0.529	20
Vinyl Chloride	10.5	9.87	10	105	99	53-146	5.86	20
Xylenes, Total	26.6	26.7	30	89	89	68-128	0	20
Surrogate Recovery								
Dibromofluoromethane	23.7	23.9	25	95	95	91-133	0	20
Toluene-d8	25.2	25.2	25	101	101	87-127	0	20
4-BFB	2.36	2.32	2.5	95	93	66-140	2.03	20



# **Quality Control Report**

**Client:** AEI Consultants

**Date Prepared:** 3/13/18 **Date Analyzed:** 3/13/18

**Instrument:** GC3

Matrix: Water

**Project:** 350428; Moss Beach

WorkOrder: 1803635

**BatchID:** 154603 **Extraction Method:** SW5030B

**Analytical Method:** SW8021B/8015Bm

Unit:  $\mu g/L$ 

Sample ID: MB/LCS-154603

1803692-001AMS/MSD

<b>OC Summary</b>	Report for	r SW8021B	2/8015Rm
	IZCDOL 1 TO	1 2 44 007717	/0013DIII

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-

## **Surrogate Recovery**

aaa-TFT 9.64 10 96 89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	69.3	-	60	115	-	78-116	-	_
MTBE	8.92	-	10	89	-	72-122	-	-
Benzene	9.53	-	10	95	-	81-123	-	_
Toluene	9.95	-	10	99	-	83-129	-	_
Ethylbenzene	9.79	-	10	98	-	88-126	-	_
Xylenes	29.6	-	30	99	-	87-131	-	-
Surrogate Recovery								
aaa-TFT	9.26	-	10	93	-	89-116	-	-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	68.3	66.6	60	ND	114	111	63-133	2.48	20
MTBE	9.17	8.92	10	ND	92	89	69-122	2.65	20
Benzene	9.57	9.77	10	ND	96	98	84-125	2.07	20
Toluene	9.98	10.2	10	ND	100	102	87-131	2.02	20
Ethylbenzene	9.83	10.0	10	ND	98	100	92-126	2.12	20
Xylenes	29.7	30.0	30	ND	99	100	88-132	1.06	20
Surrogate Recovery									
aaa-TFT	9.38	9.58	10		94	96	90-117	2.08	20



# **Quality Control Report**

**Client:** AEI Consultants

Date Prepared:3/12/18Date Analyzed:3/12/18Instrument:GC11BMatrix:Water

**Project:** 350428; Moss Beach

**WorkOrder:** 1803635

**BatchID:** 154526 **Extraction Method:** SW3510C

**Analytical Method:** SW8015B

**Unit:** μg/L

Sample ID: MB/LCS/LCSD-154526

Analyte	MB Result			RL	SPK Val		B SS REC		IB SS imits
TPH-Diesel (C10-C23)	ND			50	-	-		-	
TPH-Motor Oil (C18-C36)	ND			250	-	-		-	
Surrogate Recovery									
C9	548				625	88	}	6	8-127
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1080	1140	1000		108	113	86-142	5.05	30
Surrogate Recovery									
C9	541	556	625		87	89	68-127	2.76	30

# McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

# **County Review Draft CHAIN-OF-CUSTODY RECOR**

WorkOrder: 1803635 ClientCode: AEL

Excel	■ EQuIS	✓ Email	⊟HardCopy	☐ ThirdParty

Detection Summary Dry-Weight

Report to:

William Hicks **AEI Consultants** 2500 Camino Diablo, Ste.#200 Walnut Creek, CA 94597

(925) 321-3561

Email: whix@aeiconsultants.com cc/3rd Party: tbodkin@aeiconsultants.com; 154987

WriteOn

□ EDF

PO: Project:

□WaterTrax

FAX: (925) 283-6121

350428: Moss Beach

Bill to:

Accounts Payable

**AEI Consultants** 

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

AccountsPayable@AEIConsultants.com

Date Received: 03/07/2018

Requested TAT:

Date Logged:

03/12/2018

☐ J-flag

5 days;

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1803635-001	WS-1	Water	3/6/2018 17:30		В	Α	Α									

#### **Test Legend:**

1 8260B_W	2 G-MBTEX_W	3 TPH(DMO)_W	4
5	6	7	8
9	10	11	12

Prepared by: Keylen Juarez

The following SampID: 001A contains testgroup Multi Range W.

## **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"

8015Bm

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com/E-mail: main@mccampbell.com

# **WORK ORDER SUMMARY**

Client Name	: AEI CON	NSULTANTS		Pr	oject: 35	0428; M	oss Beach			Worl	Corder:	1803635
Client Conta	act: William	Hicks								Q	C Level:	LEVEL 2
Contact's Er	nail: whix@ae	eiconsultants.com		Co	omments:					Date	Logged:	3/12/2018
		☐ WaterTrax	WriteOn	EDF	Excel	Fa	ax 🗾 Email	HardCo	ppyThirdParty	,J.	·flag	
Lab ID	Client ID	Matrix	Test Name		Conta /Comp		Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1803635-001A	WS-1	Water	Multi-Range T	PH(g,d,mo) by EPA	. 4	1	VOA w/ HCL+ 1-aVOA		3/6/2018 17:30	5 days	10%+	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

		ANA	$\Gamma X I$	ICAL	, INC.																
1534	Willow Pass I	Rd. Pittsbur	g, Ca. 9	4565-1701		Turn .	Aroun	Time	:1 Day	Rush		2 Day	Rush	3 Day	Rush	18	STD	Quo	te#		
Telep	phone: (877) 25	52-9262 / F	ax: (925	5) 252-9269		J	-Flag	MDL		ESL		(	Cleanup A	pproved			Bot	tle Ord		Supplement of the supplement o	180
www.mccam	pbell.com	ma	ain@m	ccampbell.	com	Delive	ery Fo	mat:	GeoTr	acker F	EDF		PDF	EDD		Write	On (DW		EQ	uIS	
Report To: AEI Consultants		Bill To:	AEI Co	nsultants		-	1				-7.		Analy	ysis Rec	uest	Control of the Control				ALC:	100
Company: AEI Consultants							4								·						17
Email: whix@aeiconsultants.com							1 15													The same	es (* -
Alt Email:tbodkin@aeiconsultants.com		Tele:	925-74	3-6050		Y	8		^		7		11				18				
Project Name/#: 350428						18	6		6		3							F. 77	1	-	
Project Location: Moss Beach	, ,	PO #	154987			12	nge	7	B	1	1					12			108		
Sampler Signature: (Leav)	30						T.	W	2	1/1	4					1	100	300		-	
	Sami	pling	ers			VOCs-by-8260	TPH-multirange by 8015M	R	2	II	X	. /							-		
SAMPLE ID	Sam		#Containers	Matrix	Preservative	18	1	Noth	53		7				- 1				1		
Location / Field Point	Date	Time	#Co			۱¥	1	$\leq$	3							- 1					
7. WS-1	3/6/2018	1730	8	GW	HCL/ICE			$\times$	×	The same of	•	/					THE REAL PROPERTY.			$\neg$	
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SANTA*	_		$\vdash$			_							_	$\perp$				$\sqcup$		$\perp$	
			$\Box$										$\neg$		$\neg$		$\top$	$\vdash$		_	$\top$
			$\vdash$			$\vdash$		-	-			-	_	++	-	-	+	$\vdash$	-	+	+
			-			_			-	_	-			+	_	_		$\vdash$			
																					$\top$
MAI clients MUST disclose any dangerous chemi	cals known to be p	resent in their	submitte	d samples in co	oncentrations that	it may c	ause in	mediate	e harm o	or serio	ous futu	re health	endangen	nent as a re	esult of	brief, glo	oved, open	air, sampl	e handlii	g by M	AI staff.
Non-disclosure incurs an immediate \$250 surchar						-	•					g us to w	ork safely.						11 .		
* If metals are requested for water samples at Please provide an adequate volume of sample										-		a ranari			_	-		omments			
Relinquished By / Compa	CONTRACTOR DESCRIPTION	s not surrere	Da	SECULIAR SECURIOR SEC	me I	The second	and the same of	-	/ Com	A CONTRACTOR	-	е героп	THE PARTY OF	Date	Tin	10	San	ple	50	11	
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Matrix Code: DW=Drinking Water,	GW=Ground	Water, W	W=W	0 1 7		ator	S=So	1.81	=Slud	lge. A	=Air	WP=				10					
Preservative Code: 1=4°C 2=HCl									Orac	-50, 1	0	,	ре,	o other		∟ emp	2 /	°C	Initial	c	KI



# **Sample Receipt Checklist**

Client Name: Project:	AEI Consultants 350428; Moss Beac	h			Date and Time Received: Date Logged:	3/12/2018
WorkOrder №:	1803635	Matrix: Water			Received by: Logged by:	Keylen Juarez Keylen Juarez
Carrier:	Patrick Johnson (MA	l Courier)			,	,
		Chain of 0	Custody	y (COC) Infor	mation	
Chain of custody	present?		Yes	<b>✓</b>	No 🗌	
Chain of custody	signed when relinquis	hed and received?	Yes	<b>✓</b>	No 🗌	
Chain of custody	agrees with sample la	bels?	Yes	<b>✓</b>	No 🗆	
Sample IDs note	d by Client on COC?		Yes	<b>✓</b>	No 🗌	
Date and Time of	f collection noted by C	lient on COC?	Yes	<b>✓</b>	No 🗌	
Sampler's name	noted on COC?		Yes	•	No 🗌	
COC agrees with	Quote?		Yes		No 🗌	NA 🗹
		<u>Samp</u>	le Rece	eipt Informat	<u>ion</u>	
Custody seals int	tact on shipping contai	ner/cooler?	Yes	<b>✓</b>	No 🗌	NA 🗌
Shipping contain	er/cooler in good cond	ition?	Yes	<b>✓</b>	No 🗌	
Samples in prope	er containers/bottles?		Yes	<b>✓</b>	No 🗌	
Sample containe	rs intact?		Yes	<b>✓</b>	No 🗆	
Sufficient sample	e volume for indicated	test?	Yes	<b>✓</b>	No 🗆	
		Sample Preservati	ion and	Hold Time (	HT) Information	
All samples recei	ived within holding time	e?	Yes	<b>✓</b>	No 🗌	NA 🗌
Samples Receive	ed on Ice?		Yes	<b>✓</b>	No 🗆	
		(Ice Typ	e: WE	TICE )		
Sample/Temp Bl	ank temperature			Temp: 3.6	S°C	NA 🗌
Water - VOA vial	ls have zero headspac	e / no bubbles?	Yes		No 🗆	NA 🗹
Sample labels ch	necked for correct pres	ervation?	Yes	✓	No 🗌	
pH acceptable up	pon receipt (Metal: <2;	522: <4; 218.7: >8)?	Yes		No 🗌	NA 🗹
UCMR Samples:						🗔
pH tested and a 530: ≤7; 541: <	acceptable upon recei 3; 544: <6.5 & 7.5)?	pt (200.8: ≤2; 525.3: ≤4;	Yes		No 🗌	NA 🔽
Free Chlorine t	tested and acceptable	upon receipt (<0.1mg/L)?	Yes		No 🗆	NA 🗹
Comments:			==:	====		



# McCampbell Analytical, Inc.

"When Quality Counts"

# **Analytical Report**

**WorkOrder:** 1803635 A

**Report Created for:** AEI Consultants

2500 Camino Diablo, Ste.#200

Walnut Creek, CA 94597

**Project Contact:** William Hicks

**Project P.O.:** 154987

**Project:** 350428; Moss Beach

**Project Received:** 03/07/2018

Analytical Report reviewed & approved for release on 03/20/2018 by:

Angela Rydelius

Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com

CA ELAP 1644 ♦ NELAP 4033 ORELAP

# **Glossary of Terms & Qualifier Definitions**

Client: AEI Consultants
Project: 350428; Moss Beach

WorkOrder: 1803635 A

### **Glossary Abbreviation**

%D Serial Dilution Percent Difference

95% Interval 95% Confident Interval

DF Dilution Factor

DI WET (DISTLC) Waste Extraction Test using DI water

DISS Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)

DLT Dilution Test (Serial Dilution)

DUP Duplicate

EDL Estimated Detection Limit

ERS External reference sample. Second source calibration verification.

ITEF International Toxicity Equivalence Factor

LCS Laboratory Control Sample

MB Method Blank

MB % Rec % Recovery of Surrogate in Method Blank, if applicable

MDL Method Detection Limit

ML Minimum Level of Quantitation

MS Matrix Spike

MSD Matrix Spike Duplicate

N/A Not Applicable

ND Not detected at or above the indicated MDL or RL

NR Data Not Reported due to matrix interference or insufficient sample amount.

PDS Post Digestion Spike

PDSD Post Digestion Spike Duplicate

PF Prep Factor

RD Relative Difference

RL Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)

RPD Relative Percent Deviation
RRT Relative Retention Time

SPK Val Spike Value

SPKRef Val Spike Reference Value

SPLP Synthetic Precipitation Leachate Procedure

ST Sorbent Tube

TCLP Toxicity Characteristic Leachate Procedure

TEQ Toxicity Equivalents

WET (STLC) Waste Extraction Test (Soluble Threshold Limit Concentration)

# **Glossary of Terms & Qualifier Definitions**

Client: AEI Consultants **Project:** 350428; Moss Beach

WorkOrder: 1803635 A

# **Analytical Qualifiers**

H Samples were analyzed out of holding time

b1 Aqueous sample that contains greater than ~1 vol. % sediment e2 Diesel range compounds are significant; no recognizable pattern

e7 Oil range compounds are significant



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

# **Analytical Report**

Client: AEI Consultants WorkOrder: 1803635

**Date Received:** 3/7/18 17:00 **Extraction Method:** SW3510C/3630C

**Date Prepared:** 3/19/18 **Analytical Method:** SW8015B

Project: 350428; Moss Beach Unit: μg/L

# Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
WS-1	1803635-001C	Water	03/06/20	18 17:30 GC11A 03191820.D	154919
<u>Analytes</u>	Result	<u>Qualifiers</u>	<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	20,000	Н	1000	20	03/19/2018 15:10
TPH-Motor Oil (C18-C36)	55,000	Н	5000	20	03/19/2018 15:10
Surrogates	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
C9	93	Н	61-139		03/19/2018 15:10
Analyst(s): JIS			Analytical Comn	nents: e7,e2,b1	

# **Quality Control Report**

**Client:** AEI Consultants

**Date Prepared:** 3/19/18

**Date Analyzed:** 3/19/18

**Instrument:** GC9a

Matrix: Water

**Project:** 350428; Moss Beach

**WorkOrder:** 1803635

**BatchID:** 154919

**Extraction Method:** SW3510C/3630C

**Analytical Method:** SW8015B

Unit:  $\mu g/L$ 

Sample ID: MB/LCS/LCSD-154919

Analyte	MB Result			RL	SPK Val		B SS REC		IB SS imits	
TPH-Diesel (C10-C23)	ND			50	_	_		_		
TPH-Motor Oil (C18-C36)	ND			250	-	-		-		
Surrogate Recovery										
C9	646				625	10	3	68-12		
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPE Limi	
TPH-Diesel (C10-C23)	1080	1080	1000		108	108	86-142	0	30	
Surrogate Recovery										
C9	642	645	625		103	103	68-127	0	30	

# McCampbell Analytical, Inc.

FAX: (925) 283-6121

☐ WaterTrax

Email:

Project:

PO:

WriteOn

whix@aeiconsultants.com

cc/3rd Party: tbodkin@aeiconsultants.com;

350428: Moss Beach

154987

□ EDF

153 Pitts (925

Report to:

William Hicks

(925) 321-3561

**AEI Consultants** 

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

2500 Camino Diablo, Ste.#200

Walnut Creek, CA 94597

	County	Review	Dr	aft
CHAIN-OF-CUSTODY	RECORD	Page	1	of

WorkOrder:	1803635	A	Client	Code: AEL
☐ Excel	∏Fax		<b>∠</b> Email	∏HardCo

Chenic	Juc. ALL		
<b>✓</b> Email	HardCopy	ThirdParty	☐ J-flag

Detection Summary Dry-Weight

Bill to: Requested TAT: 1 day;

Accounts Payable
AEI Consultants

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

AccountsPayable@AEIConsultants.com

Date Received: 03/07/2018

03/12/2018

03/19/2018

					Requested Tests (See legend below)										<u> </u>	
Lab ID	Client ID	Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12
				_												
1803635-001	WS-1	Water	3/6/2018 17:30		С											

#### Test Legend:

1 TPH(DMO)WSG_W	2	3	4
5	6	7	8
9	10	11	12

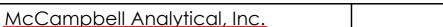
Prepared by: Keylen Juarez

Add-On Prepared By: Kena Ponce

Comments: TPH(dmo) W/ SG added 3/19/18 RTAT

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.



"When Quality Counts"

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# **WORK ORDER SUMMARY**

**Client Name: AEI CONSULTANTS** 

Contact's Email whix@aeiconsultants.com

**Project:** 350428; Moss Beach Work Order: 1803635

**Client Contact:** William Hicks

**QC Level:** LEVEL 2 **Date Logged:** 3/12/2018

Comments: TPH(dmo) W/SG added 3/19/18 RTAT

**Date Add-On:** 3/19/2018

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1803635-001C	WS-1	Water	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	aVOA Unpres	3/6/2018 17:30	1 day	10%+	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

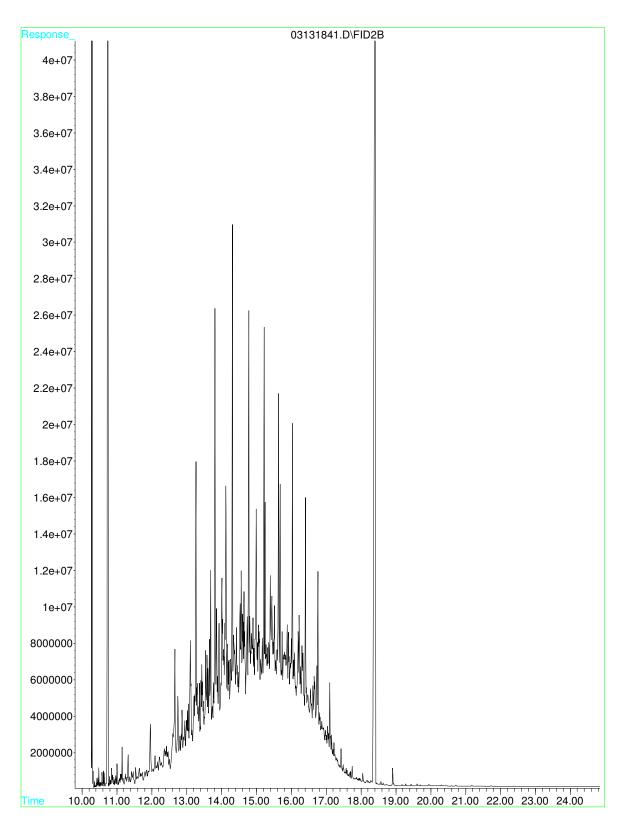
- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

McCAMPBELL ANAI						TICAL	, INC.						C	HAI	N OF	CUST	ODY	REC	COR	D				
		1534	Willow Pass I	Rd. Pittsbur	g, Ca.	94565-1701		Turn	Aroun	d Time	:1 Day	Rush		2 Day	Rush	3 D	ay Rush		STD	•	Quo	te#		17
		Teleph	one: (877) 25	52-9262 / Fa	ax: (92	5) 252-9269	)	1	J-Flag	MDL	0	ESL		Cleanup Approved				Bottle Order #						
		www.mccamp	bell.com	ma	nin@n	ccampbell	.com	Deliv	livery Format: GeoTracker EDF PDF EDD Write On (DW)									EQ	uIS	8				
	Report To: AEI Cons	sultants		Bill To:	o:AEI Consultants										Ana	lysis R	equest	ed				20,100	- (1)	THE REAL PROPERTY.
[	Company: AEI Consultants								4				12		5	T		10	1					7 9
	Email: whix@aeiconsultants.com Alt Email: tbodkin@aeiconsultants.com								1						11									and a
						le: 925-746-6050			8				3		611				19					10
	Project Name/#: 350	0428						8260	e p	~\	3		7		3		1	-				1	Sale of	A COL
	Project Location: Mo	oss Beach		PO #	#154987				ang	3	Soc			\	150									Alast
	Sampler Signature:						<u>[</u>	:≝	an	Z	11	4		3				1		Since.	-			
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	Location / I		Date	T:	#Containers	Matrix	Preservative	VOCs by	TPH-multirange by 8015M	Noth	3		丰		TPH									
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10%	WS-1		3/6/2018	1730	8	GW	HCL/ICE	-	•	X	X		•	/										
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ì	MAI clients MUST disclose Non-disclosure incurs an in	mediate \$250 surcharge	and the client is	subject to full	legal lia	d samples in co bility for harm	suffered. Thank	t may c you for	your u	imediate nderstar	e harm o nding an	or serio	ous futu illowing	re health us to w	n endang ork safel	erment as y.	a result of	f brief, į	gloved,	open a	ir, samp	le handlı	ng by N	1Al staff.
1	* If metals are requested	for water samples and	the water type	(Matrix) is r	ot spec	ified on the cl	nain of custody	, MAI	will de	efault to	o metal	s by E	200.8.					Т		Co	mments	s / Instri	uctions	;
1	Please provide an adequa	ate volume of sample.	If the volume is	s not sufficie	nt for a	MS/MSD a L	CS/LCSD will	be pre	pared	in its p	lace an	d note	d in th	e repor	t.				6	n 100	010	, ,	FC	
	Relinquished By / Company Name				Da	ite T	ime		Recei	ved By	/ Com	pany l	Name			Date	Tir	ne		X11)	PIE	5 6	11	
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L			LAP		3/7/	0	00	eyl	en		ke	مه	_	1		1/1/8	170	00						
1	Matrix Code: DW=	Drinking Water, C	W=Ground	Water, W	W=W	aste Water	, SW=Seaw	argr, s	S=So	il,81/=	=Slud	lge, A	\=Ain	WP:	=Wipé	, O=Ot		- 5		_				1-1
J	Preservative Code:	1=4°C 2=HCl	$3=H_2SO_4$	$4=HNO_3$	5=Na	OH 6=Zı	10Ac/NaOI	1 7=	=None								T	emp_	3.	6	°C	Initia	ls _	19

File : D:\HPCHEM\GC11\DATAB\03131841.D
Operator : JILLIAN
Acquired : 13 Mar 2018 10:17 pm using AcqMethod GC11A\_B4.M

Instrument: GC-11 Sample Name: CCV 2-16

Misc Info : Vial Number: 71

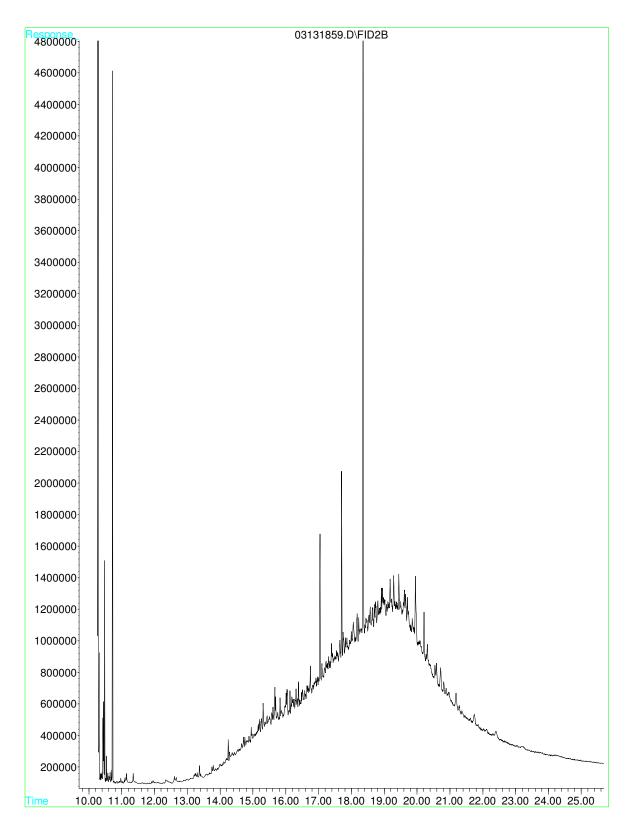


File : D:\HPCHEM\GC11\DATAB\03131859.D
Operator : JILLIAN
Acquired : 14 Mar 2018 4:07 am using AcqMethod GC11A\_B4.M

Instrument: GC-11

Sample Name: 1803635-001A W SHEEN

Misc Info : TPH Vial Number: 80



# **APPENDIX F**

# SMCEHS CONFIRMATION OF WELL DESTRUCTION PERMIT CLOSEOUT



## **Tim Bodkin**

From: Allison Fang <afang@smcgov.org>
Sent: Monday, June 11, 2018 1:29 PM

**To:** Tim Bodkin

**Subject:** RE: 350428 Request for Written Confirmation of Permit Closeout for Well Destruction Project, Carlos

at Sierra Streets, Moss Beach, CA (AEI PN 350428)

Hello Tim,

Yes, we have closed out the well destruction permit and we did receive the well completion report.

Allison Fang, REHS Land Use, Septic, and Wells Program San Mateo County Environmental Health 2000 Alameda de las Pulgas, Suite 100 San Mateo, CA 94403 Work Cell: 650-339-5635

Fax: 650-627-8244

http://smchealth.org/landuse

From: Tim Bodkin [mailto:tbodkin@aeiconsultants.com]

**Sent:** Monday, June 11, 2018 12:02 PM **To:** Allison Fang <afang@smcgov.org>

Cc: Tim Bodkin <tbodkin@aeiconsultants.com>

Subject: RE: 350428 Request for Written Confirmation of Permit Closeout for Well Destruction Project, Carlos at Sierra

Streets, Moss Beach, CA (AEI PN 350428)

### Good morning, Allison:

I am contacting you to ensure that the permit for our well destruction project has officially been closed out. I assume that you have received the DWR Well Completion Report by now. If you could email me back confirming the permits has been closed out, that would be great. I will need to incorporate it into our report for the project. Thank you very much and look forward to hearing from you.

Kind regards,

--Tim--

Timothy G. Bodkin, PG, CEG Senior Geologist - Site Mitigation

### **AEI Consultants**

3880 S. Bascom Avenue, Suite 109

San Jose, CA 95124

p. <u>408.559.7600</u>, ext. 2013

c. <u>650.622.6560</u>

f. 408.559.7601

www.aeiconsultants.com

**Professional Registrations:** 

PG-CA GEO 4706 / CEG-CA EG 1551 / RG-OR G1294 / CEG-OR E1294 / LG-WA 336 / PG-ID PGL-731 / PG-WY PG-136 / PG-LA 458



From: Tim Bodkin

**Sent:** Thursday, April 12, 2018 1:34 PM **To:** Allison Fang <a href="mailto:afang@smcgov.org">afang@smcgov.org</a>

Cc: Tim Bodkin <tbodkin@aeiconsultants.com>

Subject: RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss Beach, CA

(AEI PN 350428)

Will do and thank you once again for your immediate followup.

Kind regards,

--Tim---

Timothy G. Bodkin, PG, CEG Senior Geologist - Site Mitigation

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3880 S. Bascom Avenue, Suite 109 San Jose, CA 95124

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From: Allison Fang <afang@smcgov.org>
Sent: Thursday, April 12, 2018 1:31 PM

**To:** Tim Bodkin < <a href="mailto:tbodkin@aeiconsultants.com">tbodkin@aeiconsultants.com</a>>

**Subject:** RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss Beach, CA (AEI PN 350428)

•

Hi Tim,

There is no other written documentation that I can provide, once we receive the well completion report we close out our permit. Feel free to share this e-mail with the client that we are closing out all files on our end.

Allison Fang, REHS Land Use, Septic, and Wells Program San Mateo County Environmental Health 2000 Alameda de las Pulgas, Suite 100 San Mateo, CA 94403

Work Cell: 650-339-5635 Fax: 650-627-8244

http://smchealth.org/landuse

From: Tim Bodkin [mailto:tbodkin@aeiconsultants.com]

**Sent:** Thursday, April 12, 2018 1:23 PM **To:** Allison Fang <a href="mailto:afang@smcgov.org">afang@smcgov.org</a>

Cc: Tim Bodkin <tbodkin@aeiconsultants.com>

Subject: RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss Beach, CA

(AEI PN 350428)

Excellent. Please send me written documentation so that I can share it with our client who has been asking for it. Thanks again for your help.

Kind regards,

--Tim---

Timothy G. Bodkin, PG, CEG Senior Geologist - Site Mitigation

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From: Allison Fang <afang@smcgov.org>
Sent: Thursday, April 12, 2018 1:22 PM

To: Tim Bodkin < tbodkin@aeiconsultants.com >

Subject: RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss Beach, CA

(AEI PN 350428)

Hi Tim,

This looks good. We'll get this permit closed out. Thank you!

From: Tim Bodkin [mailto:tbodkin@aeiconsultants.com]

Sent: Thursday, April 12, 2018 12:05 PM

To: Allison Fang <afang@smcgov.org>

Cc: Tim Bodkin <tbodkin@aeiconsultants.com>

**Subject:** RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss Beach, CA

(AEI PN 350428)

Hi Allison:

The WCR has been updated. Please let me know if all is OK. Thank you.

Kind regards,

--Tim--

Timothy G. Bodkin, PG, CEG Senior Geologist - Site Mitigation

## **AEI Consultants**

3880 S. Bascom Avenue, Suite 109 San Jose, CA 95124

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c. <u>650.622.6560</u>

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### **Professional Registrations:**

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From: Allison Fang <a fang@smcgov.org>
Sent: Wednesday, April 11, 2018 3:43 PM
To: Tim Bodkin <tbodkin@aeiconsultants.com>

Subject: RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss Beach, CA

(AEI PN 350428)

Hi Tim,

The well location section doesn't show the city or the zip code, these should also be added.

From: Tim Bodkin [mailto:tbodkin@aeiconsultants.com]

**Sent:** Wednesday, April 11, 2018 12:58 PM **To:** Allison Fang <afang@smcgov.org>

Subject: RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss Beach, CA

(AEI PN 350428)

Hi Allison:

I just got off the phone with DWR. The record should be updated showing the street address. Please let me know if all is OK.

Kind regards,

--Tim---

Timothy G. Bodkin, PG, CEG Senior Geologist - Site Mitigation

## **AEI Consultants**

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From: Allison Fang <afang@smcgov.org>
Sent: Wednesday, April 11, 2018 12:36 PM
To: Tim Bodkin <tbodkin@aeiconsultants.com>

Subject: Re: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss Beach, CA

(AEI PN 350428)

I see that under the mailing address but not the well location section. You should be able to edit it.

Sent from my iPhone

On Apr 11, 2018, at 12:25 PM, Tim Bodkin <tbodkin@aeiconsultants.com> wrote:

I originally had input "Carlos and Sierra Streets". I guess the WCR needs to be updated? It was my first time using DWR's new website.

Kind regards,

--Tim--

Timothy G. Bodkin, PG, CEG Senior Geologist - Site Mitigation

## **AEI Consultants**

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p. 408.559.7600, ext. 2013

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### **Professional Registrations:**

PG-CA GEO 4706 / CEG-CA EG 1551 / RG-OR G1294 / CEG-OR E1294 / LG-WA 336 / PG-ID PGL-731 / PG-WY PG-136 / PG-LA 458

<image001.png>

From: Allison Fang <a fang@smcgov.org>
Sent: Wednesday, April 11, 2018 12:22 PM
To: Tim Bodkin <tbodkin@aeiconsultants.com>

Subject: RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets,

Moss Beach, CA (AEI PN 350428)

Tim,

I just checked the OSWCR website and I do see the WCR however the address needs to be input – does the system not allow you to put an intersection under the well location?

**From:** Tim Bodkin [mailto:tbodkin@aeiconsultants.com]

Sent: Wednesday, April 11, 2018 12:12 PM
To: Allison Fang <afang@smcgov.org>

Cc: Tim Bodkin <tbodkin@aeiconsultants.com>

**Subject:** RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets,

Moss Beach, CA (AEI PN 350428)

I just completed the Well Completion Report online on Cascade's behalf this morning. I will followup with Cascade. Our client is antsy and wants this put to rest. Back to you once I know more. Thanks for your immediate response.

Kind regards,

--Tim--

Timothy G. Bodkin, PG, CEG Senior Geologist - Site Mitigation

### **AEI Consultants**

3880 S. Bascom Avenue, Suite 109 San Jose, CA 95124

p. 408.559.7600, ext. 2013

c. <u>650.622.6560</u> f. 408.559.7601

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## **Professional Registrations:**

PG-CA GEO 4706 / CEG-CA EG 1551 / RG-OR G1294 / CEG-OR E1294 / LG-WA 336 / PG-ID PGL-731 / PG-WY PG-136 / PG-LA 458

<image001.png>

From: Allison Fang <afang@smcgov.org>
Sent: Wednesday, April 11, 2018 12:09 PM
To: Tim Bodkin <tbodkin@aeiconsultants.com>

**Subject:** RE: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets,

Moss Beach, CA (AEI PN 350428)

Hi Tim,

We haven't closed out the permit yet because we're waiting on the well completion report from Cascade Drilling, but I've attached my inspection report.

Allison Fang, REHS Land Use, Septic, and Wells Program San Mateo County Environmental Health 2000 Alameda de las Pulgas, Suite 100 San Mateo, CA 94403

Work Cell: 650-339-5635 Fax: 650-627-8244

http://smchealth.org/landuse

**From:** Tim Bodkin [mailto:tbodkin@aeiconsultants.com]

**Sent:** Wednesday, April 11, 2018 11:47 AM **To:** Allison Fang <afang@smcgov.org>

Cc: Tim Bodkin <tbodkin@aeiconsultants.com>

Subject: 350428 Request for Documentation of Well Destruction Approval, Carlos at Sierra Streets, Moss

Beach, CA (AEI PN 350428)

## Good morning, Allison:

Our client has requested documentation of your approval of the well destruction completed at our Moss Beach site. Please get back to me when you can. Many thanks.

Kind regards,

--Tim---

Timothy G. Bodkin, PG, CEG Senior Geologist - Site Mitigation

## **AEI Consultants**

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## **Professional Registrations:**

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