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REPORT OF WELL INSTALLATIONS

L&D SCAFFOLD, INC. 1420 162ND AVENUE SAN LEANDRO, CA 94578

October 5, 2000

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Prepared By:

ALLCAL Environmental 27973 High Country Drive Hayward, CA 94542

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1.0 INTRODUCTION

ALLCAL Environmental (ALLCAL) is pleased to submit this report of installation of three groundwater monitoring wells at 1420 162nd Avenue in San Leandro, California, (Figure 1) on behalf of Mr. Don Puckett and Ms. Betty Puckett (Client/property owners) of L&D Scaffold, Inc. Installation of the wells was conducted under a July 22, 2000, work plan written by John V. Mrakovich, a California registered geologist (No. 4665) for ALLCAL, and approved (with modification of the well locations) by the Alameda County Health Care Services Agency (ACHCSA) in a July 26, 2000, letter (APPENDIX A).

The project site is occupied by one two-story building used for office and shop space and a second single story building used for warehousing of scaffolding. The site is bounded to the southwest by by an appliance parts distributor, to the northeast and southeast by apartment complexes and residential property, and to the northwest by 162^{nd} Avenue.

Until recently, the site was used to operate a business that rented and erected scaffolding. The scaffolding business is now closed and the site is for rent.

2.0 HYDROGEOLOGIC SETTING

The following discussion of regional hydrogeology is taken in part from <u>GEOHYDROLOGY AND</u> <u>GROUNDWATER-QUALITY OVERVIEW</u>, <u>EAST BAY PLAIN AREA</u>, <u>ALAMEDA COUNTY</u>, <u>CALIFORNIA</u>, 205 (j) Report, Kelvin Hickenbottom and Kenneth Muir, June 1988, and <u>HYDROGEOLOGY OF CENTRAL SAN LEANDRO</u>, Woodward-Clyde Consultants, December, 1993.

2.1 Regional Hydrogeology

The site is located in the East Bay Plain of the Coast Ranges physiographic province. The East Bay Plain is an area of flat alluvial lowlands and bay and tidal marshes lying between the bedrock hills of the Diablo Range to the east and San Francisco Bay to the west. Near the site area, the eastern boundary of the plain is located along the Hayward fault which is at the base of the Diablo Range escarpment, about 2,000 feet to the northeast.

The East Bay Plain and San Francisco Bay are the result of a structural downwarp that received sediments for much of Pleistocene time, a period that extends from about 2 million years ago until about 10,000 years ago. The degree of downwarping has varied considerably across the two areas. Consequently, some local areas have a thin sedimentary fill and others have relatively thick sedimentary fill. In San Leandro, significant downwarping has occurred and sedimentary fill may exceed about 1,000 feet in thickness in some areas.

Beneath the sediments are consolidated bedrock whose upper surface is the floor of the structural downwarp. The bedrock is Jurassic. Cretaceous. and Tertiary in age and consists of sandstone.

conglomerate, shale, chert, and serpentine with some volcanic rocks. This bedrock also comprises the hills (East Bay Hills) east of the Hayward fault that are part of the Diablo Range.

Sedimentary fill in the San Leandro area was mostly derived from the East Bay Hills. Toward the bay, some fill consists of estuarine and marine deposits. Based on well driller's logs, the sedimentary fill has been divided into "older alluvium" and "younger alluvium." "Younger alluvium in this report will include the Merritt Sand, bay mud, interfluvial basin deposits, and fluvial deposits.

In general, the "older alluvium" is present beneath all of the East Bay Plain and extends under San Francisco Bay. The "older alluvium" is Pleistocene in age and consists of clay, silt, sand, and gravel that was deposited as alluvial fans extending from the East Bay Hills. This sediment is a major groundwater reservoir in the East Bay Plain and may locally reach a thickness of about 1,000 feet. Wells in the "older alluvium" produce sufficient amounts of groundwater for irrigation, industrial, and municipal use.

The "younger alluvium" overlies the "older alluvium" and, with the exception of the Merritt Sand, is still being deposited. These sediments are Pleistocene, Holocene, and Recent in age and have been deposited as beach and near-shore sediments, peat beds, bay and estuarine deposits, and fluvial and flood plain deposits. They may locally reach a thickness of about 150 feet. These sediments are a minor source of groundwater, mostly sufficient for domestic use (lawn and garden irrigation and other non-potable uses) because much of the permeable "younger alluvium" lies above the zone of saturation.

Groundwater flow in aquifers of both the "older and younger alluvium" is generally westerly toward San Francisco Bay; the gradient may vary locally.

2.2 Site Geology and Hydrogeology

The site is located in Township 3 South, Range 2 West, Section 6 of the Hayward, California 7.5-Minute Series, Topographic Quadrangle Map (Figure 1) at an elevation of about 33 feet above mean sea level (MSL). Surface sediments are "younger alluvium" and Holocene in age. Regional topographic gradient is southwesterly; however, at the site the local gradient is northwesterly with a slope of about .0056 feet per foot. San Lorenzo Creek is about 4,500 feet south of the site, San Francisco Bay, the nearest known topographically down-gradient surface water, is about 17,000 feet southwest of the site, and Lake Chabot is about 8,000 feet north-northeast of the site. No other significant bodies of nearby surface water are known.

Groundwater, at the site, was encountered during UST removal activities at a depth of about 8 feet below grade and in a soil boring conducted by ALLCAL (see 3.0 BACKGROUND) at a depth of about 12 feet below grade. During installation of the wells that are the subject of this report, groundwater was encountered in a range of 10 to 12 feet below grade. Direction of groundwater flow at the site on September 6, 2000, (as determined by work documented in this report) was north-northeasterly. Based on information provided by the ACHCSA on groundwater flow at nearby sites.

direction of groundwater flow in the site's vicinity is variable and can range from northwesterly to northerly.

3.0 BACKGROUND

The following discussion is summarized from: (1) information provided by the Client, (2) a November 3, 1999, <u>UST REMOVAL REPORT, L&D SCAFFOLD, INC., 1420 162ND AVENUE, SAN LEANDRO, CA</u>, prepared by Environmental Bio-Systems, Inc. (EBS), and (3) an April 20, 2000, <u>REPORT OF PRELIMINARY SITE ASSESSMENT, L&D SCAFFOLD, INC., 1420 162ND AVENUE, SAN LEANDRO, CA</u>, prepared by ALLCAL.

3.1 Site Ownership and UST History

Mr. and Ms. Puckett have owned the subject property since about 1980. Prior to their ownership, they rented the property for about 25 years. During their occupancy, the property has been used as a business that stores, rents, and erects scaffolding.

A 7,500-gallon UST was installed in about 1979 to service company vehicles. The UST was used until Spring 1999.

3.2 UST Closure

On October 25, 1999, a 7,500-gallon, gasoline, single-walled steel UST; appurtenant piping; and dispenser were removed by EBS. The UST and dispenser were located outside the southwestern corner of the site's two-story building (Figure 2). Examination of the UST, after its removal, revealed the tank was in excellent condition with no rust or corrosion visible on the outer surface. The tank had an intact tar wrapping.

During removal of the piping, mild hydrocarbon odor was detected directly beneath a joint located between the dispenser and the UST.

Soil samples were collected for chemical analyses from the northerly sidewall and southwestern corner of the excavation immediately above groundwater; at a depth of about 7 feet below grade. A soil sample was also collected for analysis from beneath the apparent leaky pipe joint discussed above; at a depth of about 1.5 feet below grade. The soil sample collected from the northerly sidewall detected only total petroleum hydrocarbons as gasoline (TPHG), methyl tert-butyl ether (MTBE), and total lead [at concentrations of 2.5 parts per million (ppm), 2.5 ppm, and 10 ppm, respectively]. The soil sample collected from the southwesterly corner detected only MTBE and total lead (at a concentration of 0.037 ppm and 9.1 ppm, respectively). The soil sample collected from beneath the piping detected only TPHG, benzene, MTBE, and total lead (at concentrations of 28 ppm, 2.2 ppm, 28 ppm, and 11 ppm, respectively). The laboratory noted the TPHG concentration in the above samples included the MTBE concentration.

During tank removal activities, water was encountered in the excavation at a depth of about 8 feet below grade. The water was sampled twice for chemical analyses, once prior to UST removal on October 25, 1999, and once after the tank was removed and the excavation was de-watered for backfilling on October 26, 1999. For the second sampling event, only TPHG, toluene, xylenes, and MTBE were detected [at concentrations of 1,300 parts per billion (ppb), 2.1 ppb, 1.6 ppb, and 1,300 ppb, respectively]. The laboratory noted the TPHG concentration included the MTBE concentration. Because of the concentrations of TPHG and MTBE detected in the above soil and groundwater samples, the ACHCSA requested a Preliminary Site Assessment (PSA) to delineate the extent of soil and groundwater contamination at the site.

3.3 ALLCAL March 28, 2000, PSA

On March 28, 2000, ALLCAL drilled two Geoprobe soil borings (SB-1 and SB-2) to further investigate TPHG and MTBE contamination in the soil and groundwater (Figure 2).

Boring SB-1 was drilled at the location of the former dispenser to further evaluate soil contamination from the apparent leaky pipe joint observed at the time of the UST removal and to evaluate potential leakage of the dispenser.

Boring SB-2 was drilled about 15 feet in the estimated down-gradient direction (northwesterly) of groundwater flow from the former UST excavation to further evaluate the extent of groundwater contamination detected in water in the excavation at the time of UST removal. Also, this boring was used to further evaluate the extent of soil contamination detected beneath the leaky pipe joint near the dispenser at the time of the UST removal.

Results of soil chemical analyses detected TPHG and some BTEX chemicals only in boring SB-1 at the depth of 3 feet. TPHG, benzene, toluene, and xylenes were detected at concentrations of 1.0 ppm, 0.017 ppm, 0.005 ppm, and 0.12 ppm, respectively. MTBE was detected in soil of both borings and ranged up to 17 ppm in boring SB-1 (confirmed by EPA method 8260 at a concentration of 2.8 ppm) and was detected at the concentration of 0.35 ppm in boring SB-2.

Results of groundwater chemical analyses (groundwater collected only from boring SB-2) detected only MTBE and xylenes at concentrations of 16,000 ppb (confirmed by EPA method 8260 at a concentration of 18,000 ppb) and 6.1 ppb, respectively.

Because of the concentrations of MTBE detected in the above groundwater sample, the ACHCSA requested that permanent groundwater monitoring wells be installed on site to assess the MTBE plume. See May 23, 2000, letter in APPENDIX A.

4.0 GROUNDWATER MONITORING WELL INSTALLATIONS

Installation of the groundwater monitoring wells included the following work:

- Obtained well installation permits from the Alameda County Public Works Agency (ACPWA).
- Marked the location of each well on the ground with white paint and notified Underground Service Alert (USA). Subcontracted an underground utility locator to "clear" each location of underground utilities.
- Drilled 3 soil borings for installing groundwater monitoring wells.
- Collected soil samples from each boring at approximately 5-foot depth intervals for construction of boring logs. At the request of a representative of the ACHCSA during well installation activities, collected a soil sample from the boring of well MW-3, at a depth of five feet, for analyses of % moisture, porosity, bulk density, and total organic carbon (TOC).
- Converted each boring into a 2-inch diameter-casing, polyvinyl chloride (PVC), groundwater monitoring well.
- Surveyed the elevation of top-of-casing (TOC) of each well relative to MSL.
- Developed, purged, and sampled groundwater from each well.
- Analyzed the groundwater samples and 1 trip blank sample for TPHG, BTEX, and MTBE.
- Prepared this report.

Details of the above work are presented below.

4.1 Pre-drilling Activities

Before commencing drilling activities, ALLCAL: (1) obtained well installation permits from the ACPWA (APPENDIX B), (2) visited the site to mark the well locations in white paint, (3) contacted USA and subcontracted an underground utility locator to "clear" each location, and (4) notified the ACHCSA.

4.2 Rationale for Well Locations

Well locations (Figure 2) were based on estimated direction of groundwater flow and the location of the removed leaky piping which is the apparent source of MTBE contamination to the groundwater. Well MW-1 was installed near the location of former soil boring SB-2 which was estimated to be immediately down-gradient (with respect to direction of groundwater flow)of the removed leaky piping. Well MW-2 was installed at the northwesterly end of the driveway to

evaluate the on-site down-gradient extent of the MTBE groundwater plume. Well MW-3 was installed near the northerly corner of the site to evaluate the on-site down-gradient extent of the MTBE groundwater plume in the event groundwater gradient was more northerly than northwesterly.

4.3 Soil Boring and Sampling Procedures

The monitoring wells were installed on August 28, 2000, by Exploration Geoservices (C-57 License no. 424888) located in San Jose, California. The exploratory boring for each well was drilled by using 8-inch O.D., hollow-stem, auger drilling equipment. The augers were steam-cleaned before drilling each boring to minimize the potential of cross-contamination between borings or introducing offsite contamination to the initial boring. Representative soil samples were collected at approximately 5-foot depth intervals by advancing a 2-inch I.D., California modified, split-spoon sampler into the undisturbed soil beyond the tip of the augers. The sampling equipment was cleaned before each sampling event by washing with a non-phosphate solution and rinsing in tap water.

Drill cuttings are stored on site, contained in 55-gallon steel drums. The stored cuttings are labeled to show contents, date stored, suspected contaminant, date of removal, company name, contact person, and telephone number.

At the request of the onsite ACHCSA representative, a vadose zone soil sample was collected at about 5 feet below grade from the boring of well MW-3 for analysis of % moisture, porosity, bulk density, and TOC. This information may be useful for evaluating onsite health risk in determining if it is appropriate to request regulatory site closure. The soil sample was collected in a 2 inch by 6 inch brass tube. The ends of the tube were covered with foil followed by plastic end caps and the tube was immediately sealed and labeled to include: date, time, sample location, project number, and sampler name. The sample was stored in an iced-cooler for transport to Department of Health Services certified McCampbell Analytical Inc. laboratory, located in Pacheco, California, accompanied by chain-of-custody documentation.

4.4 Occurrence of Groundwater, Aquifer Thickness, and Well Installation Procedures

Groundwater was encountered at a depth of about 10 feet in well MW-1 and at a depth of about 12 feet in wells MW-2 and MW-3. The aquifer at this depth was observed only in the boring of well MW-1 and consisted of a brown sand about 1.5 feet thick. Although water was present at about 12 feet deep in wells MW-2 and MW-3, no aquifer was observed. Since this shallow aquifer appeared very thin and may be a perched aquifer, all borings were drilled deeper until a more prominent aquifer was encountered. The top of a deeper aquifer in the wells was located at the approximate depth of 18 feet in wells MW-1 and MW-2, and 22.5 feet in well MW-3. A clay, indicating the possible base of the aquifer, was observed at the approximate depth of 25 feet in wells MW-1 and MW-3: however, no indication of the base of the aquifer was observed in well MW-2. During well construction activities, depth to groundwater in all wells was observed to be about 6 feet below grade, indicating the groundwater is confined.

The borings of wells MW-1, MW-2, and MW-3 were drilled to total depths of 25, 26, and 25.3 feet, respectively. Each boring was converted into a groundwater monitoring well by installing 2-inch diameter, flush-threaded, schedule 40, PVC casing and 0.010-inch machine-slotted screen. In each well, the screen extended from near the bottom of the boring to above the top of the thin upper aquifer. A sand pack of no. 2/12 filter sand was placed in the annular space from total depth of the borings to about one foot above the top of the screened interval. Approximately one foot of bentonite was placed above the sand pack followed by a neat cement slurry seal. A traffic rated, bolt-locked, vault box was set in concrete to protect the wells. A water tight locking well cap with lock was installed on each well casing. See APPENDIX C for well construction details.

A California licensed professional engineer or land surveyor of Greenwood & Moore, Inc. surveyed the elevation of each well's TOC relative to MSL. The elevations were surveyed relative to Alameda County Benchmark BM A-162 (see APPENDIX D).

4.5 Soil Profile

Detailed boring logs were prepared from auger return cuttings and the soil contained in the split-spoon sampler. The soil was logged according to the Unified Soil Classification System by a California Registered Geologist. See APPENDIX C for exploratory boring logs.

All borings had similar soil profiles. Beginning at ground surface, a sand was observed in the borings of wells MW-1 and MW-3 to a depth of about two feet; a clay was present in this interval in the boring of well MW-2. Below two feet, a clay was observed to a depth of 8 feet in the boring of wells MW-1 and MW-2; in the boring of well MW-3, clay was observed to a depth of about 22.5 feet. In the borings of wells MW-1 and MW-2, sand and/or silt was observed from about 8 feet to 10 or 11 feet; this sand and/or silt was underlain by clay to about 18 feet deep in both borings. The bottom of all borings terminated in a sand aquifer. In the borings of wells MW-1 and MW-3, a clay was observed in the tip of sampler.

4.6 Well Development Procedure

The monitoring wells were developed on August 31, 2000. Before development, depth-to-water was measured from the TOC to the nearest .01 foot using an electronic water level meter. Each well was checked for floating product using a dedicated polyethylene bailer. No floating product was observed in any of the wells.

Each well was developed by bailing with a PVC bailer until free of sand and silt. Then, each well was further developed by using a development pump until no further improvement in visible turbidity could be achieved. Fifty five gallons of water were developed from each well.

Development water is stored onsite in 55-gallon steel drums labeled to show contents, date filled, contaminant, company name, contact person, and telephone number.

See APPENDIX E for field **RECORDS OF WELL DEVELOPMENT**.

4.7 Groundwater Sampling Procedure

The monitoring wells were sampled on September 6, 2000. Prior to sampling, depth to stabilized water was measured in each well and recorded as discussed above under 4.6 Well Development Procedure.

Each well was purged a minimum of about 3 wetted well volumes with a dedicated polyethylene bailer. Temperature, pH, and electrical conductivity were monitored and purging continue until they were stabilized. Nine gallons of groundwater were purged from each well. After purging was completed, water samples were collected in dedicated polyethylene bailers and decanted into laboratory provided, sterilized glass vials having Teflon-lined screw caps. The vials were immediately sealed and labeled to include: date, time, sample location, project number, and sampler name. The samples were immediately stored in an iced-cooler for transport to Department of Health Services certified McCampbell Analytical Inc. laboratory, located in Pacheco, California, accompanied by chain-of-custody documentation.

As a test for cross-contamination during sampling and analytical activities, a trip blank sample was handled as above and included for chemical analyses.

Purge water is stored on site in labeled 55-gallon drums.

See APPENDIX E for field **RECORDS OF WATER SAMPLING**.

4.8 Groundwater Gradient

The groundwater gradient was evaluated by triangulation. The stabilized depth-to-water in the wells on September 6, 2000, when subtracted from their respective TOC's, provided the groundwater elevations relative to MSL. From this information, the groundwater flow direction and gradient was calculated. Groundwater flow direction was north-northwesterly with a gradient of 0.0038 ft/ft (Figure 2).

The following table summarizes groundwater elevation and gradient data.

Well Name	TOC Elevation (ft. MSL)	Date	Depth to Groundwater (ft.)	Groundwater Elevation (ft. MSL)	Groundwater Flow Direction	Gradient
MW-1	33 14	96'00	5.71	27.43	NNW	0.0038
MW-2	32.53	9600	5 185	27 345		
MW-3	32 78	9600	5.61	27.17		

4.9 Results of Soil and Groundwater Chemical Analyses

Soil:

The soil sample collected from the boring of well MW-3 at a depth of about five feet was analyzed for weight % moisture by ASTM E3173, bulk density (calculated), volume % porosity (calculated), and TOC. TOC was determined by Alpha Analytical Laboratories Inc. located in Ukiah, California.

Results were: weight % moisture = 22%; bulk density = 1.7 grams/cc; volume % porosity = 48% assuming the specific gravity of soil is 2.65 grams/cc; and TOC = 3355 mg/kg.

Groundwater:

The water samples and trip blank sample were analyzed for TPHG by GCFID EPA method 5030/modified 8015 and for BTEX and MTBE by EPA method 8020.

The following table summarizes results of chemical analyses.

SUMMARY OF GROUNDWATER CHEMICAL ANALYSES (ppb)

Well	Date	Depth to Water(ft)	TPHG	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes
MW-1	9/6/00	5.71	110,b	3300	<0.5	<0.5	<0.5	<0.5
MW-2	9/6/00	5.185	<50	<5.0	<0.5	<0.5	<0.5	<0.5
MW-3	9/6/00	5.61	<50	<5.0	<0.5	<0.5	<0.5	<0.5
Trip Blank	9/6/00		<50	<5.0	<0.5	<0.5	<0.5	<0.5

b = The laboratory interprets the TPH chromatogram to indicate that heavier gasoline range compounds are significant (aged gasoline?).

See the certified analytical report and chain-of-custody in APPENDIX F for detailed analytical results and quality assurance and quality control documentation.

5.0 SUMMARY AND COMMENTS

On August 28, 2000, three onsite groundwater monitoring wells were installed to investigate the limits of gasoline/MTBE groundwater contamination and direction of groundwater flow at the subject property (Figure 2). Results of groundwater chemical analyses from the wells detected gasoline/MTBE contamination only in well MW-1; TPHG and MTBE were detected at concentrations of 110 ppb and 3300 ppb, respectively. No benzene chemicals were detected.



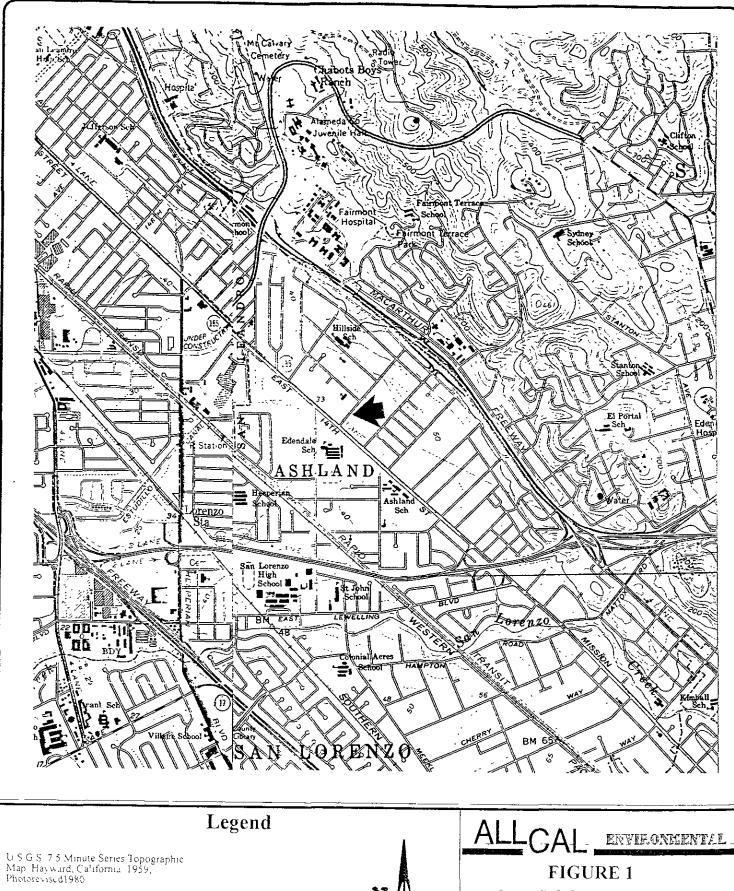
Direction of groundwater flow on 9/6/00 was north-northwesterly with a gradient of 0.0038 ft/ft.

6.0 LIMITATIONS

This report is based on results of drilling activities, observations of soil types, and laboratory analyses of groundwater samples. The results of drilling activities, observations of soil types, and chemical analyses are considered applicable to that horizontal and vertical location from which they were observed and/or collected. The conclusions contained herein are based on field observations, analytical data, and professional judgement which is in accordance with current standards of professional practice.

Representations made of soil and groundwater conditions between sample locations are extrapolations based on professional opinions and judgements and accepted industry practice. No warranty is expressed or implied. The extent of testing and data collection directly affects the statistical confidence level of all work performed. As a practical matter, to reach or even approach a 100 percent statistical level would be prohibitively expensive.

The findings and conclusions of this report are valid as of the present time; however, the passing of time could change the conditions of the subsurface due to natural processes or the influence of man. Accordingly, the findings of this report may be invalidated, wholly or partly, by changes beyond ALLCAL's control. Therefore, this report should not be relied upon after an extended period of time without being reviewed by a Civil Engineer or Registered Geologist.

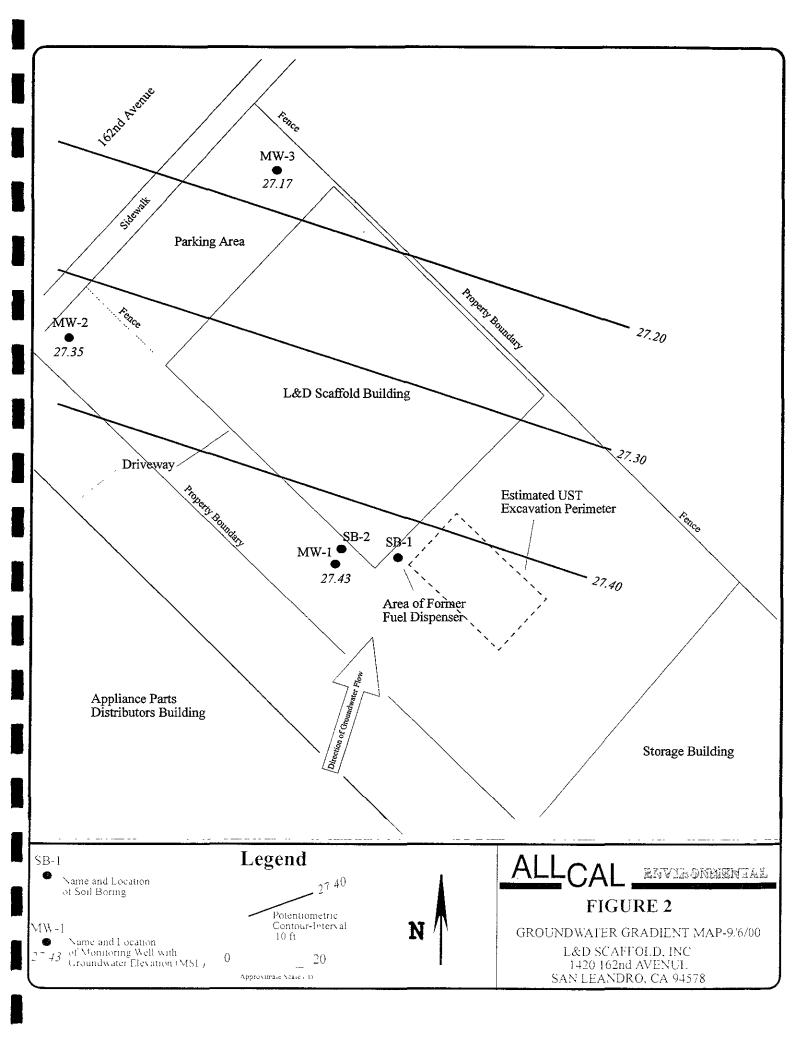


2000

Approximate Scale (ft)

SITE LOCATION MAP

L&D SCAFFOLD, INC 1420 162nd AVENUE SAN LEANDRO, CA 94578



APPENDIX A

ALAMEDA COUNTY HEALTH CARE SERVICES LETTER

ALAMEDA COUNTY

HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director



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

StID 6645

July 26, 2000

Mr. Don Puckett P.O. Box 7237 Clear Lake, CA 95422

Ms. Betty Puckett L&D Scaffold 1420 162nd Avenue San Leandro, CA 94578

RE: Work Plan Approval for 1420 162nd Avenue, San Leandro, CA

Dear Mr. and Ms. Puckett:

I have completed review of AllCal Environmental's July 2000 *Groundwater Monitoring Well Installation Work Plan* prepared for the above referenced site. After my discussion with Mr. John Mrakovich, the well locations were modified slightly. The proposal to install three groundwater monitoring wells at the site is acceptable. Field work should commence within 90 days of the date of this letter, or by October 30, 2000. Please provide 72 hours notice prior to the start of field activities.

If you have any question, I can be reached at (510) 567-6762.

eva chu

Hazardous Materials Specialist

c: John Mrakovich, 27973 High Country Drive, Hayward, CA 94542-2530

I&dscaffold 4

APPENDIX B

- ALAMEDA COUNTY PUBLIC WORKS AGENCY DRILLING PERMIT
- STATE OF CALIFORNIA WELL COMPLETION REPORTS

FROM : ALLCAL

PHONE NO. : 5105818490

Jul. 31 2020 02:52FM P1 Y. US/V3

JUN-13-CO TUE 02:00 PM GLAMEDA COUNTY PHA RM238 FAX NO. 5107821938



ALAMEDA COUNTY PUBLIC WORKS AGENCY

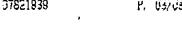
WATER RESOURCES SECTION
199 ELMBURST ST, HAYWARD CA. 94544-1193
PRONE (SID) 670-6554
FAX (SIGNEZ-1939

DRILLING PERMIT APPLICATION POR APPLICANT TO COMPLETE for office use LOCATION OF PROJECT PERMIT NUMBER WOO - 469 WELL NUMBER AN AFN PERMIT CONDITIONS CIJENT Creded Permit Requirements Apply Name Adoress GENERAL Phone A period explication should be submitted so as to arrive at the ACPWA office five days prior to groposed at Ting date. Submit to ACPWA within 60 days after completion of APPLICANT ENVIRONMENTA Name parmitted prismal Department of Water Resources. Faz 570 S 8 /8 CFO Address 27973 HVB Well Complettes Report. 3. Demil is vold if project not began within 90 days of City HAYLENACE, C approval date A WATER SUPPLY WELLS TYPE OF PROJECT to totani over al spendoids less application municipal. Well Constitution comen; grout a least by tremis, Geotschmen) (avestigation 2. Minimen scal depth is 50 feet for municipel and Cathodia Protection Ctarral ħ Water Supply industrial walls or 20 feet for domestic and inggouon Consumation S Menisoring walls unless a lesser dapth is specially approved. Well Destruction C) GROUNDWATER MONITORING WELLS proposed water supply well use including prezometers Now Domeatic D I. Minimura surface scal thickness is two inches of Replacement Domeses ō វិដ្ឋាជាដំបូងដ coment grout placed by uqmio, Irriganiae Industrial 2.Minimum seed depth for monitoring wells is the Otasr_ ř. max inhum gopul practicable of 20 fact DRILLING METHOD: D. GEOTECHNICAL Mud Rotary Backfill bore hole by wernts with coment grove or ceiting Art Rollary Çahl: grouvesed mixture Upper two-three feet replaced in kind ប Other or with companies cuclings, DRILLER'S NAME PE E. CATHODIC Pili hele snoon sene with somerose placed by tremie, Driller's License No. C.S. 7 F. WELL DESTRUCTION See attached requirements for desiration of shallow wells. Send a map of work shad different permit application is required for wells despur than 45 feet well projects G. SPECIAL CONDITIONS Drill Role Diameter Maximum Deptr <u>25</u> NOTE: One application must be submitted for each well or well desiredien. Multiple berings on one application are acceptable Casing Diameier Sufface Seal Dopin Owner's Well Number MCW for protection one contemination investigations, GEOTECHNICAL PROJECTS MW Number of Borings តំជំនិងប្រធានកា Hole Diameter Depih estimated starting date 15/00 . ESTIMATED COMPLETION DATE APPROVE I pereph sturm in cowilly white all todents that of this boa SPELICANT'S SIGNATURE 00 TEASE PRINT NAME MRAKOVICA

FROM : ALLCAL

PHIDNE NO. : 5125818498

JUN-13-00 FUE 02:00 FM ALAMEDA COUNTY FWA RH239 FAX NC. 5107821839 Jul. 31 2000 02:529M P1





ALANIEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
199 ELMHURST ST, HAYWARD CA. \$4544-1395
PHONE (610) 610-8550
FAX (310)782-1339

DRILLING PER	MIT APPLICATION
For applicant to complete	
LOCATION OF PROJECT LED SCAFFOLD INC	FOR OPFICE USE
	PERMIT HUMBER WOO-47-0
SAN LEANING, CA 94578	WELL NUMBER
TUENT	FERMIT CONTITIONS
Nome AS ABOVE	Corpled Fernal Requirements apply
Adoress Phone	(A) GENERAL
The state of the s	A permit application should be submitted so as to
PRUCANT ALLCAL ENVIRONMENTAL	arrive at the ACPUA while five days prior to proposed startles does.
1986 HUEAL ENVINDAMENTAL	A Submitted A Charles A Control of the
The STOCK POED.	Departs a CFWA within 60 days after completion of the completion o
2) 94549	2- Gimii is veid if avoices and the same
****	A. WATER SUPPLY WELLS
YFE OF FROJECT	As Middinian Styles cart volume.
Control to Describe	ectutal front plants of member of the lumber of
Water Supply	G. RESTITIONS SEE APPEAL TO A
Menitoring Commission of	
	C CROUNDWATER MONITORING WELLS
Cordsen water supply well use	INCLUDING PIEZOMETERS
REDUCERREAL PROPERTY OF	1. Minimum surface seal skickness is two lackes of tempt arous nimes to
frenchen in	Coment group placed by tremie,
legataiti a civet	2.00 流流出來 seel depth for months and the
illing method	the Could action of the beautiful of 50 Get
Und Person 44	o. Monicolitical
Table U Other 13 Auger	Backlik bote hole by trainly with coment grout of cent
Out	at with compating with the three lettershipted y k activities and the three lettershipted y k activities at a series of activities lettershipted y is
LLER'S NAME PC EXPLORATION, INC.	E. CATHODIC
Listing a content of the content of	Piti hala sanga
LITA'S LICENSE NO. C 5 7 265556	F. WELL DESTRUCTION
	See amethod logarizations for destruction of the flow wells. Seed a properly work who well as the flow
	The court of the same of the s
L projects	of special conditions
ris Hole Dismeter Air. Maximum	
Deets 23 C	NOTE: One application must be submitted for each well or a en
	description, Multiple borings on one application are acceptable for economical and constrainment in acceptable
TECHNICAL FACUECTS MEU-Z	in beometin, ent and country and investinations are accedante
more of Dorths. Nichman MW-3	
in. Depth	1
MATER STANDING DATE 8/5/00	1
MATER COMPLETION DATE SALES	1 Mo-
	APPROVED
DE STOR O COMPLY WINDSHIELD THE FET OF IN SPORM I AND A TOPE COUNTY OF OR	matter No. 71 co. 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1
CANT'S SIGNATURE ON MARCHINE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DATE ()	31/co MUNITOVINA MALHO
FERRINGHAME_ TOHN MOAVOURL	300

FROM : ALLCAL

PHONE NO. : 5105818490

Jul. 31 2000 02:52PM P1

JUN-13-00 TUE 02:00 PM ALAKEDA COUNTY PWA RM235

FAX NO. 5107821938

1. 03/03



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
199 ELMEURST ST. HAYWARD CA. 94544-1393
PHONE (EED) 570-5754
FAX (510)792-1939

DRILLING PERMIT APPLICATION for applicant to complete FOR OFFICE USE location of project LED SCAFFOLD. PERMIT NUMBER_WOO-4 1420 16200 SAN LEANING CA WELL NUMBER APN PERMIT CONDITIONS CLIENT Craft Permit Requirements Apply 45 ABBUE Name ACOTES GENERA Phone City A permit explication should be submitted to as to arrive at the ACPWA office five days prior to APPLICANT Name ALLICAL ENVIRONING ENTIAL Rioposed staning date. Submit to ACPWA within 60 days ther completion of in 570 SB18490 permitted prisingl Department of Water Resources-Address 279 TO HIGH CONNECTION Vell Completion Report 3. Parail is void if project not begun within 90 days of B. WATER SUPPLY WELLS TYPE OF PROJECT 1-Minimum sarriese seal shieldness is two inches of Well Controvalen coment groot placed by meraje. Ocotechnical Investigation Calbodia Protection 2. Idiniment seal depth is 50 feet for rangicipel and Central ħ Industrial wells or 20 feet for domastic and largation Water Supply Сопшинация • wells unless a legger depth is specially approved. Manitoria Well Doursetien Groundwater monitoring wells Proposed water suffly well use including fizeometers New Domestie 2 1. Minimum surface seat chickness is two soches of Replacement Domestic ٤ Maniegal Б Compat grout placed by gemie. littiggaing û lainer tal 2. Minimum saul depth for monitoring wells is the 0 Other maximum depth pressionable or 20 feet. DRILLING METHOD: D. GEOTECHNICAL Mud Romry Backfill borg hole by wernie with coment grout or commit Air Rotery Auger Jig Capit Ü grouvesed mixture, Upper providers feet replaced in time Other or with compassed cumings. DRILLER'S NAME PC SKALORATION, E. CATHODIC Fill hole proce sone with constrate placed by tremie, F. WELL BESTRUCTION DELLER'S LICENSENO, CST7 Sec attached togularments for destrustive of shellow wells. Send a map of work rite. A different purmit application is required for wolle desper than 45 feet. G. SPECIAL CONDITIONS WELL PROJECTS Dall Hole Diamage Maximum Depin 25 NOTE: One application must be submitted for even wait of well Caling Diameter ß. Surface Seal Dopia destruction, Monthis borings en une application are acceptable Owner's Well Number MCO-1 ter Storcoppier; and Committedion Waternancious MW-2 MW-3 CEOTECHNICAL PROJECTS Number of Borings __ Maximum Hole Diamoter D-pd __ ECTIVATED STARTING DATE 15/00 ESTIMATED COMPLET ON DATE AFPROVED thereby agree to comply with altrequire dama of this pertit and NPPLICANT S SIGNATURE TEAST PRINT NAME JOHN MRAKOVICH

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

APPENDIX C

EXPLORATORY BORING LOGS AND WELL CONSTRUCTION DETAILS

EXPLORATORY BORING LOG/ WELL CONSTRUCTION DETAIL

Project Number:

147

Project Name:

1420 162nd AVENUE

SAN LEANDRO, CALIFORNIA

Boring Number: MW-1

Page Number:

1 OF 1

By: ALLCAL ENVIRONMENTAL

Date: 8/28/00

	VIRONMENTAL		Date:	0/	/28/00	Top of Casing Elevation: 33.14		
RECOVERY VAPORS (ft./ft.) (ppm)	PENETRATION (blows/ft.)	GROUND- WATER LEVEL	DEPTH (ft.)	In I	SOIL TYPE	DESCRIPTION	WELL	DETAIL
					200	033 ft. Asphalt	Vax Box	- -
				+	SC CL	.33 - 2.0 ft. CLAYEY SAND (SC): red-brown, fine to medium-grained, damp, no odor.	Portland Cement	2-Inch 0 D. PVC Blank Casing With Locking Cap
			5.	_		2.0 - 4.0 ft. CLAY (CL): dark grey to black, sandy, soft to firm, damp, no odor.	Ben-	PVC Blank Casin
1.5/1.5	4				CL	4.0 - 8.0 ft. CLAY (CL): blue-grey, sandy, soft to firm, damp, no odor.	tonite	2-Inch 0.0
4.54.5		_	10 _	\neg	P/ML SP	8.0 - 9.5 ft. SAND/SILT (SP/ML): grey-green, fine- grained, loose, damp, no odor.		
1.5/1.5	2				CL	9.5 - 11.0 ft. SAND(SP): brown, fine to medium- grained, very loose, saturated, no odor.		h End Cap
			15 _	+		11.0 - 13.5 ft. CLAY (CL): mottled dark grey and black, medium firm, damp, no odor.	d Pack	C Screen Wil
1.5/1.5	8		10 ,		CL	13.5 - 18.0 ft. CLAY (CL): light grey, trace of fine gravel, medium firm to stiff, damp, no odor.	No. 2/12 Sand Pack	.010-Slotted, 2-Inch, O.D., PVC Screen With End Cap
1.5/1.5	2		20 _		sc	18.0 - 24.9 ft. CLAYEY SAND (SC): brown, fine to medium-grained, very loose, saturated, no odor.		.010-Sic
1.5/1.5	3		25 _		CI			
į			20 _			24.9 - 25.0 ft. CLAY (CL): mottled light brown and rust brown, medium firm, damp, no odor.		
				-		Total depth of boring is 25 feet.		
			30 _	_		Total depth of well is 24 7 feet.		:
			35 _			BORING DETAIL Drilled with continuous-flight, 8-inch O D, hollow-stem auger Samples collected in a California split-spoon sampler		

EXPLORATORY BORING LOG/ WELL CONSTRUCTION DETAIL

Project Number:

147

Project Name:

1420 162nd AVENUE

SAN LEANDRO, CALIFORNIA

Boring Number: MW-2

Page Number:

1 OF 1

Top of Casing Elevation: 32 53

By: ALI	CAL ENV	TRONMENTAL		Date:	8	/28/00	Top of Casing Elevation: 32.53		
RECOVERY (ft./ft.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND- WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION	WELL	
1.5/1.5	-	8		5		CL	033 ft. Asphalt .33 - 2.0 ft. CLAY (CL): red-brown, sandy, soft to firm, damp, no odor. 2.0 - 8.0 ft. CLAY (CL): blue-grey, very sandy, firm to medium, damp, no odor. @ 5 - 6.5 ft. grey-green.	S B Portland Cement DE	24nch Q.D. PVC Blank Casing With Locking Cap
1.5/1.5		12		10		SC CL	8.0 - 10.0 ft. CLAYEY SAND (SC): brown, medium to fine-grained, moist, no odor. 10.0 - 13.5 ft. CLAY (CL): dark grey to black, stiff, damp, no odor. @ 12 - 14 ft., saturated zone, unknown lithology.		
1.5/1.5		12		15		CL	13.5 - 18.5 ft. CLAY (CL): mottled grey and white, stiff, sandy, trace of gravel to .25 inch diameter, damp, no odor.	No. 2/12 Sand Pack	010-Slotted, 2-Inch, O.D., PVC Screen With End Cap
				20		SC	18.5 - 26.0 ft. CLAYEY SAND (SC): light brown, fine to medium-grained, loose, interlayered with above clay, gravelly seams, saturated, no odor.		010-Slotte
				25			Total depth of boring is 26 feet.		
				30			Total depth of well is 24 feet.		
				35	i <u>—</u>		BORING DETAIL Drilled with continuous-flight, 8-inch O D hollow-stem auger Samples collected in a California split-spoon sampler 2-inch O D diameter well constructed inside boring		

EXPLORATORY BORING LOG/ WELL CONSTRUCTION DETAIL

Project Number: 147

Project Name: 1420 162nd AVENUE

SAN LEANDRO, CALIFORNIA

Boring Number: MW-3

Page Number: 1 OF 1

Top of Casing Elevation: 32.78

By: ALI	CAL EN	TRONMENTAL		Date:	8/	/28/00	Top of Casing Elevation: 32.78		
RECOVERY (ft./ft.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND- WATER LEVEL	DEPTH (ft.)	10	SOIL TYPE	DESCRIPTION	WELL	11
1.0/1.5		8		5 .		SP	033 ft. Asphalt .33 - 2.0 ft. SAND (SP): red-brown, fine to medium-grained, damp, no odor. 2.0 - 12.0 ft. CLAY (CL): dark grey, sandy, stiff, damp, no odor. @ 5 - 6.5 ft., sandy layers.	Portland Cement Portland	2-Inch Q.D. PAC Blank Casing With Locking Cap
				10			@ 12 ft., Saturated. Lithology unknown.		
1.5/1.5	<u> </u>	7	_			CL	12.0 - 14.5 ft. CLAY (CL): mottled dark and light grey, stiff, sandy, damp, no odor.		ነ With End Cap
1.5/1.5		8		15		CL CL	14.5 - 16.0 ft. CLAY (CL): dark grey to black, stiff, sandy, damp, no odor. 16.0 - 18.5 ft. CLAY (CL): light grey, stiff, sandy,	No. 2/12 Sand Pack	010-Slotted, 2-Inch, 0 D , PVC Screen With End Cap
1.5/1.5		4		20		CL	damp, no odor. 18.5 - 22.5 ft. CLAY (CL): brown, sandy, firm, damp, no odor.	No. 2	010-Slotted, 2-Inch
1.0/1.0		7		25		SP	22.5 - 24.5 ft. SAND (SP): brown, fine to medium- grained, saturated, no odor. 24.5 - 25.0 ft. CLAY (CL): brown, firm, sandy, damp, no odor.		
				30			Total depth of boring and well is 25.3 feet.		
				35			BORING DETAIL Drilled with continuous-flight 8-inch O D hollow-stem auger Samples collected in a California split-spoon sampler 2-inch O D diameter well constructed inside boring		

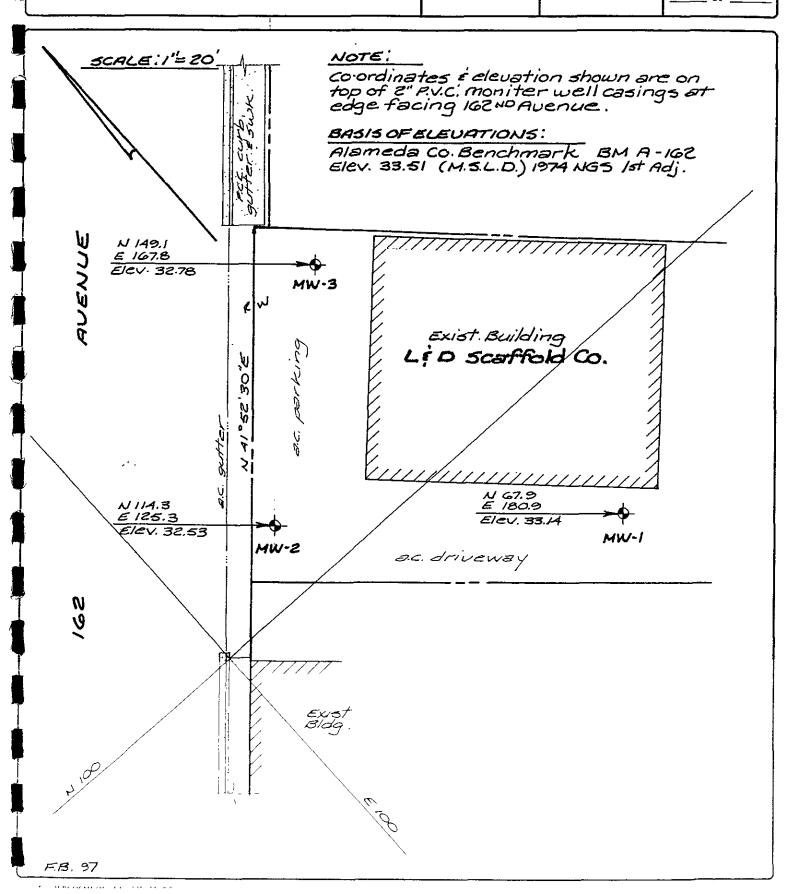
APPENDIX D

GREENWOOD AND MOORE, INC. SURVEY MAP

Greenwood & Moore, Inc.

19131 REDWOOD ROAD, CASTRO VALLEY, CA 94546 OFFICE: 510-581-2772 FAX: 510-581-6913

1420 1621	AL PROPSERV POPOS CA.	JOB NO.
BY: G.Glenn	DATE: 9/9/00	SHEET
	REVISED:	1 / _{OF} /



APPENDIX E

- RECORDS OF WELL DEVELOPMENT
- RECORDS OF WATER SAMPLING

RECORD OF WELL DEVELOPMENT

ROJECT	r no.: <u>/47</u>	D	ate: <u>8/</u>	31/00		WELL NO.: MW-/
PROJECT	۲ NAME: <u>∠ ۶</u>	D 50	AFFOLT		WELL NO.: MW-/ WELL DIAMETER: 2 *	
ROJECT	LOCATION:	1420	162 NB		TOC ELEV:	
DEVELO	PER: ALL	CAL	ENVIR		LOCK NO .: DOLPHIN	
VELL D	EPTH (from co	onstruction	n detail):	25'		
WELL D	EPTH (measure	d): 24.	<u>7 🖔</u> soi	FT BOTTOM?:		
EPTH '	TO WATER:	5.7/	TOC T	IME: 945		
PRESSUE	RE (circle one)	?: YES	OR NO			
F YES,	WAS PRESSUR	E (circle	one): POS	SITIVE OR NEGATIVE?		
_						
	VOLUME IN					
				NCH CASING = 0.65 GAL/FT]	
6-INCH	CASING = 1.4	7 GAL/F	T] [1 G.	AL = 3.78L		
_						
						LOCATION MAP
DEVELO	PMENT MET	HOD:	PVC BI	AILER & DEVELOP	MENT	PUMP
FLOATIN		PRESEN PRESEN	IT:	YES O NO OYYES O NO OY		
				FIELD MEASUREME	NTS	
Time	Depth to Water (FT)	Vol (Gal)	Clarity (NTU'S)		Remar	ks
1230		10		VERY TURBED - D	ROWN	
1240		15		u u	V	
1300		40			V	
/330		55		CLOUDY	/	
				2200		
	· · · · · · · · · · · · · · · · · · ·					
	· · · · · · · · · · · · · · · · · · ·					
1	· · · · · · · · · · · · · · · · · · ·					
		<u> </u>	1			
TOTAL V	OLUME DEV	ELOPED	(GA):	55 (L):	WAT	TER VOL. IN DRUM:
SIGNATU	JRE: (), (Mrs	Sone	(L):	;	NEED NEW DRUM?:
	(/				•	

RECORD OF WELL DEVELOPMENT

PROJECT	г No.: <u>/4</u>	<u>7_</u> p	ATE: <u>8/</u>	31/00	WELL NO.: MW-Z
ROJECT	Γ NAME: ∠¢	3 EC.	HFFOLL	, INC.	WELL DIAMETER: Z *
PROJECT	LOCATION:	1428	1624	AVE	TOC ELEV:
DEVELO	PER: ALLC	RC ET	CUIRON.		LOCK NO .: DOLPHIA
Į.	EPTH (from co				
WELL D	EPTH (measure	ed): <u>24</u>	BS so	FT ВОТТОМ?:	
EPTH '	TO WATER:	5.18	5 70C T	IME: 940	
	RE (circle one)		$\overline{}$		
F YES,	WAS PRESSUR	Œ (circle	one): PO	SITIVE OR NEGATIVE?	
•			0 / 1	4.	
	VOLUME IN			- 1	
				NCH CASING = 0.65 GAL/FT]	
D-INCH	CASING = 1.4	I/ GAL/F	1] [1 G	AL = 3.78L	
					LOCATION MAP
DEVELO	PMENT MET	HOD:	PUC BA	LER & DEVELOPMENT	PUMP
LOATIN		PRESEN PRESEN PRESEN	T:	YES O NO DY YES NO DY	
		·		FIELD MEASUREMENTS	
Time	Depth to Water (FT)	Vol (Gal)	Clarity (NTU'S)	Ren	narks
1120		10		VERY TURBID - BRO	WK
1137		20		11 10 V	
1200		45		u k v	
1215		55		VERY CLOUDY	
	 				
B=====		<u></u>	<u></u>		
OTAL V		•	(GAL):	55 (L): w	ATER VOL. IN DRUM:
SGNATU	re:	Med	South		NEED NEW DRUM?:
_	[]				

PROJECT NO.: 147 DATE: 8/31/00 PROJECT NAME: 40 SCAFFOXD, INC. PROJECT LOCATION: 1420 162 ND AVE	WELL NO.:_ <u>M</u> <i>W</i> −3
PROJECT NAME: L&D SCAFFOLD, INC	
ROJECT LOCATION: 1420 162 ND AVE	WELL DIAMETER: 2"
	TOC ELEV:
DEVELOPER: ALLCAL ENVIRON.	LOCK NO.: DOX PHIN
VELL DEPTH (from construction detail): 25	
WELL DEPTH (measured): 25.3 BG SOFT BOTTOM?: Y	
EPTH TO WATER: 5.61 TOC TIME: 935	
PRESSURE (circle one)?: (YES) OR NO	
F YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?	
2 15 0	
VATER VOLUME IN WELL: 3./5 5	
[2-INCH CASING = 0.16 GAL/FT] [4-INCH CASING = 0.65 GAL/FT] 6-INCH CASING = 1.47 GAL/FT] [1 GAL = 3.78L]	
[1 GAL = 5.76L]	
	,
	LOCATION MAP
DEVELOPMENT METHOD: PUC BAILER & DEVELOPMENT	PUMP
ELOATING DRODUCT PROCES	
FLOATING PRODUCT PRESENT: SHEEN PRESENT: ODOR PRESENT: YES ON OUT NO OUT	
SHEEN PRESENT: YES NO D	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS	arks
SHEEN PRESENT: ODOR PRESENT: YES NO FIELD MEASUREMENTS Time Depth to Vol Clarity Water (FT) (Gal) (NTU'S) Rem	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) VERY TURBID - BROW	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) NO D FIELD MEASUREMENTS Rem NO D NO D	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) 1010 10 VERY TURBID - BROWN 1045 50 CLOUDY	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) NO D FIELD MEASUREMENTS Rem NO D VERY TURBID - BROWN NO D VERY TURBID - BROWN NO D	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) 1010 10 VERY TURBID - BROWN 1045 50 CLOUDY	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) 1010 10 VERY TURBID - BROWN 1045 50 CLOUDY	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) 1010 10 VERY TURBID - BROWN 1045 50 CLOUDY	
SHEEN PRESENT: ODOR PRESENT: YES NO FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) 1010	
SHEEN PRESENT: ODOR PRESENT: YES NO D FIELD MEASUREMENTS Time Depth to Water (FT) (Gal) (NTU'S) NOUNTU'S) NOUNTU'S) NO D FIELD MEASUREMENTS Rem NO D FIELD MEASUREMENTS Rem NO D OUTHOUSE NO D O	

RECORD OF WATER SAMPLING

117

PROJECT NO.: 147 DATE: 9/6/00	WELL NO.: MW-1
PROJECT NAME: L&D SCAPFOLD, INC.	WELL DIAMETER: 2*
PROJECT LOCATION: 1420 162 ND AVE	TOC ELEV:
SAMPLER: ALLCAL ENVIRON	LOCK NO.:
ANALYSES: TOHG, BYEX, MTBE	
WELL DEPTH (from construction detail):	į
WELL DEPTH (measured): 24, 26 TO SOFT BOTTOM?: VES	
DEPTH TO WATER: 5.68 TOC TIME: 919	
PRESSURE (circle one)?: YES OR NO	
IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?	
WATER VOLUME IN WELL: 3.0	
[2-INCH CASING = 0.16GAL/FT] [4-INCH CASING = 0.65GAL/FT]	
[6-INCH CASING = 1.47GAL/FT] [1 GAL = 3.78L]	
	LOCATION MAP
CALCULATED PURGE VOL. (GAL): 9.0 (L): ACTUAL PURG	E VOL. (GAL): 9.0 (L):
PURGE METHOD: DISPOSABLE BAILER SAMPLE ME	THOD: DISPOSABLE BAILER
FIELD MEASUREMENTS	

Time	Depth to Water (FT)	Vol 7 GZY	Temp (Deg. F)	рН	EC X∕∞	Clarity	Turbidity (NTU)	Remarks	
//37		2	72.1	7.98				TURSID-BROWN, NO ODOR	
1142		3	71.4	7.57	1.18				
1147		4	70.2	7.39					
1150		5	70.0	7.34	1.14				
1155		6	70.6	7.28	1.17				
1200		7	70.6	7.25	1.14	1			
1205		8	70.5	7.22	1-14				
1208		9	70.6	7.20	1.19			V	
1215	Sa	mp	le _						

CIONATINE	and I se	WATER VOL. IN DRUM:
SIGNATURE:_	of Muskovil	NEED NEW DRUM?: NO

			•					
PROJECT	г No.: <u>/47</u>	DAT	E: <u>9/6/0</u>	<u> </u>				WELL NO .: MW-Z
_	Γ NAME: 4		WELL DIAMETER:					
PROJECT	LOCATION:	1420	TOC ELEV:					
	R: ALICA		LOCK NO.:					
ANALYS	ES: YPHG	, BTO	EX, MT	BE_				
WELL D	EPTH (from co	onstructio	on detail):					
WELL D	EPTH (measure	ed): <u>23</u> .	785 50	FT BOTT	ГОМ?:/	40		
_	TO WATER:							
PRESSUI	RE (circle one)	?: YE	S OR (NO)					
	WAS PRESSUR			SITIVE	OR NEG	ATIVE?		
WATER	VOLUME IN	WELL:_	3.0 6					·
2-INCH	CASING $= 0.1$	16 GAL/]	FT] [4-	INCH CA	ASING =	0.65 GAL	/FT}	
[6-INCH	CASING $= 1.4$	7 GAL/I	FT] [1 (GAL = 3	3.78 L]			
								LOCATION MAP
CALCIII	ATEN PURCE	: 101	(CAT) G) A				
PLIDGE	METHOD.	COACA	(GAL): <u>7</u>	. <u></u> (L	.):	ACT	JAL PURGE	VOL. (GAL): 9.0 (L):
- OKGE	MEINOD: 34	3 1103 PS	BLE BI					HOD: DISPOSABLE BAILER
				FIE	LD ME	ASURE	MENTS	
Time	Depth to	Vol	Temp	На	EC	Clarity	Turbidity	
	Water (FT)	SUS	(Deg. F)	P	X1000	Clarity	(NTU)	Remarks
1040		7	79.4	845	100			TURBID-RESIDU NO ODO?

Time	Depth to Water (FT)	Vol S (≱)	Temp (Deg. F)	рН	EC X <i>100</i> 0	Clarity	Turbidity (NTU)	Remarks	
1040		ک	72.4	8.45	.95			TURBID-BROWN, NO abor	
1044		3	76.7	8.10	-89				
1047		4	696	7.97	.92				
1053		5	69.2	7.81	.89				
1056		6	69.0	7.74	.90		_		
1101		7	69.0	7.68	.91				
1105		8	69.0	7.64	.89				
1110			69.0	7.58	.89			V	
1120	Sam	rle							

SIGNATURE:	9	Nes	1/2	A.
	17	-,		

WATER V	OL. II	N DRUM:_		
NEED	NEW	DRUM?:_	NO	

PROJECT NO.: 147 DATE: 9/6/60	
· · · · · · · · · · · · · · · · · · ·	WELL NO .: MW-
PROJECT NAME: L&D SCAFFOLD, INC.	WELL DIAMETER: 2'
PROJECT LOCATION: 1420 162 ND AVE	TOC ELEV:
SAMPLER: ALLOAL ENVIRON	LOCK NO.:
ANALYSES: TPHG BTEX, MTBE	LOCK NO.:
WELL DEPTH (from construction detail):	
WELL DEPTH (measured): 24.94 SOFT BOTTOM?: NO	
DEPTH TO WATER: 5.51 TOC TIME: 907	
PRESSURE (circle one)?: YES OR NO	
IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?	
WATER VOLUME IN WELL: 3.1 G	
[2-INCH CASING = 0.16GAL/FT] [4-INCH CASING = 0.65GAL/FT]	
[6-INCH CASING = 1.47GAL/FT] [1 GAL = 3.78L]	•
	LOCATION MAP
CALCULATED PURGE VOL. (GAL): 9.3 (L): ACTUAL PURGE	VOI (CAL) 9 0 a
DUDGE METHOD ACCORDED TO	HOD: DISPOSABLE BAILER

FIELD MEASUREMENTS

Time	Depth to Water (FT)	Vol S ØS	Temp (Deg. F)	рН	EC ×/oo	Clarity	Turbidity (NTU)	Remarks
937		2	67.7	//.38	1.36			TURBID - BROWN, NO ODOR
941		3	67.1	10.24				
945		4	6.8	9.76	.97			
950		5	66.9	9.16	.96			
954		6	66.8	8.89	-96			
956		7	66.8	8.67	.94			
1000		8	66.8	8.50	94			
1005		9	66.9	8,36	.94			V
1015	San	ele			Į			

,	
01/	WATER VOL. IN DRUM:
SIGNATURE: Mexime	NEED NEW DRUM?: NO
{ /	

APPENDIX F

CERTIFIED ANALYTICAL REPORTS AND CHAINS-OF-CUSTODY



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

ALLCAL Environmental	Client Project ID: #147; L&D Scaffold	Date Sampled: 09/06/00
27973 High Country Drive		Date Received: 09/07/00
Hayward, CA 94542-2530	Client Contact: John Mrakovich	Date Extracted: 09/07/00
	Client P.O:	Date Analyzed: 09/07/00

09/14/00

Dear John:

Enclosed are:

- 1). the results of 4 samples from your #147; L&D Scaffold project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Edward Hamilton Lab Director

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

ALLCAL Environmental	Client Project ID: #147; L&D Scaffold	Date Sampled: 09/06/00
27973 High Country Drive		Date Received: 09/07/00
Hayward, CA 94542-2530	Client Contact: John Mrakovich	Date Extracted: 09/09-09/11/00
	Client P.O:	Date Analyzed: 09/09-09/11/00

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California PWOCR (SE Boy Parism) method COURTS (2020)

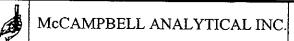
EPA metho	ds 5030, modifie	d 8015, and	8020 or 602; Ca	lıfomia RW(QCB (SF Bay	Region) metl	nod GCFID(503	30)	
Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
46921	Trip Blank	w	ND	ND	ND	ND	ND	ND	103
46922	MW-I	W	110,6	3300	ND	ND	ND	ND	98
46923	MW-2	w	ND	ND	ND	ND	ND	ND	101
46924	MW-3	w	ND	ND	ND	ND	ND	ND	104
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otherwis	g Limit unless e stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
	detected above orting limit	s	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug L, wipe samples in ug wipe, soil and sludge samples in mg kg and all ICTP and SPLP extrac's in ug L.

The following descriptions of the TPH chromatogram are cursory in nature and Mc(amphe). Analytical is not responsible for the interpretation: a) unmodified or weakly modified gasoline is significant, by heavier gasoline range compounds are significantiaged gasoline); e) lighter gasoline range compounds (the most mobile fraction) are significant, d) gasoline range compounds having broad chromatographic peaks are significant, biologically altered gasoline); e) TPH pattern that does not appear to be derived from gasoline (2), t) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant, h) lighter than water immiscible sheen is present, i) liquid sample that contains greater than ~5 vol. % sediment, j) no recognizable pattern



i cluttered chromatogram, sample peak coclutes with samogate peak



110 2nd Ave. South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

Date:

09/08/00-09/09/00

Matrix:

Water

Extraction: N/A

	•						
		Concent	ration:	ug/L	%Rec	overy	
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
SampleID: 9800				Instru	ıment: G	C-3	
Surrogate1	0.000	97.0	100.0	100.00	97	100	3.0
Xylenes	0.000	275.0	294.0	300.00	92	98	6.7
Ethyl Benzene	0.000	91.0	97.0	100.00	91	97	6.4
Toluene	0.000	94.0	101.0	100.00	94	101	7.2
Benzene	0.000	96.0	103.0	100.00	96	103	7.0
MTBE	0.000	101.0	102.0	100.00	101	102	1.0
GAS	0.000	828.2	853.0	1000.00	83	85	2.9
SampleID: 9700				Instru	ment: M	B - 1	
Oil & Grease	0.000	19.6	19.4	20.00	98	97	1.0
SampleID: 9600				Instru	ment: G	C-2 A	
Surrogate1	0.000	106.0	99.0	100.00	106	99	6.8
TPH (diesel)	0.000	286.0	247.0	300.00	95	82	14.6

21843 ZAC30

McCAMBELL ANALYTICAL INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 X TURN AROUND TIME PACHECO, CA 94553 RUSH 24 HOUR 48 HOUR 5 DAY Telephone (510) 798-1620 Fax: (510) 798-1622 Bill To: SANCE Report TO JOHN MRAKOVICH Analysis Request Other Comments Company ALLEAL ENVIRONINGUIAGE Total Petroleum Oil & Grease (5520 E&F/B&F) 27973 HIGH COUNTRY DR MAYWARD, CA 94542 EPA 625 / 8270 / 8310 lele (500) 50/2320 Total Petroleum Hydrocarbons (418.1) Fax: (570) 58/8490 Project# 147 Project Name: LAN SCAFFOLD BTEX ONLY (EPA 602 / 8020) Project Location 1420 162 ND AVE, SAN LEAN DRO, CA EPA 608 / 8080 PCB's ONLY Lead (7240/7421/239.2/6010) Sampler Signature: Measure EPA 624 / 8240 / 8260 METHOD TPH as Diesel (8015) SAMPLING **MATRIX** Type Comtainers PRESERVED # Containers CAM-17 Metals EPA 601 / 8010 EPA 608 / 8080 EPA 625 / 8270 BTEX & TPH SAMPLL ID LOCATION Air Sludge Other Date Time Water Soil HCI HNO3 RCI 40 ML 9/6/00 900 X X TOLIN BLANK 46921 1460-1 1215 1400-1 1410-2 14.0-2 1120 2 46922 V 1400-3 1400-3 1015 46923 46924 Date 9/6/00 Relinguished, By Time: Remarks: 1400 jagagggaggaggagnikus -ss cos ss ss ss Received By: **VOAS LO&GIMETALS LOTHER** Time: Religiquished By ICE/₩ ✓ 13,24 9/7/10 PRESERVATION Yen Cas **GOOD CONDITION APPROPRIATE** Received By: . HEAD SPACE ABSENT CONTAINERS

4

L:YC

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

ALLCAL Environmental	Client Project ID: #147; L & D Scaffold	Date Sampled: 08/28/00
27973 High Country Drive		Date Received: 08/29/00
Hayward, CA 94542-2530	Client Contact: John Mrakovich	Date Extracted: 08/29/00
	Client P.O:	Date Analyzed: 08/29/00

09/05/00

Dear John:

Enclosed are:

- 1). the results of 1 samples from your #147; L & D Scaffold project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

X My Cyclus

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Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

ALLCAL	. Environmenta	al	Client Project ID: #147; 1	L & D Scaffold	Date Sar	npled: 08/28/00
27973 Hi	gh Country Dr	ive			Date Rec	ceived: 08/29/00
Hayward,	, CA 94542-25	30	Client Contact: John Mra	kovich	Date Ext	racted: 08/29/00
			Client P.O:		Date Ana	alyzed: 08/29/00
Ar	alytical method	s	Moisture	Bulk Dens	sity	Porosity
	-		ASTM E3173	#		æ
Lab ID	Client ID	Matrix	Weight %	Grams / c	c	Vol % Porosity
46148	MW3-5.0	s	22	1.7		48
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Panorting I	imit or Method					
Accuracy un stated; N detected about	nless otherwise D means not ve the reporting 'mit	S	± 2%	±0 Ig/cc		÷ 2°%
ca ¹ culated						
calculated v	olume percentage	assuming t	hat the specific gravity of soil is I	2 65 grams co		



Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267 CHEMICAL EXAMINATION REPORT

Page 1 of 2

McCampbell Analytical, Inc.

110 2nd Ave. South, #D7

Pacheco, CA 94553

Attn: Ed Hamilton

Date Printed

09/05/00

Project No: 21721

Project Id: AllCAl ENV

Order Number

Receipt Date/Time

Client MCCLAB

METHOD

Client P.O.

Send Via

MAIL

A00083007

08/30/00 11:50AM

EXTRACTED

TEST DATE

RESULT

UNITS

PQL

Order A00083007 consisted of 1 Samples and

1 Tests.

Sample 1 MW3-5.0

Sample Type: Soil

Sampled By: Client

Sampled: 08/28/00

Total Organic Carbon

9060

09/05/00

3365

mg/kg

ı

PQL = Practical Quartitation Limit

ND - None Detected

Laboratory Director

Date Printed. 09/05/00



Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Order Number: A00083007

September 05, 2000

Page 2 of 2

Sample Notes:

Bruce L. Gove Laboratory Director Date Printed: 09/05/00

McCAMPBELL ANALYTICAL INC. 110 2" Avenue south, #d7

Telephor	ie: (925)	798-1620		Fax: (9	125) 798-162
Report To	EUSA	VENEGAS	Bill To:	MAI	

CHAIN OF CUSTODY RECORD

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