

# Monitoring Well Decommissioning Completion Report Former Fort Ord, California



Prepared for:

**U.S. Army Corps of Engineers**  
Sacramento District  
1325 J Street  
Sacramento, CA 95814-2922



On behalf of:

**U.S. Department of the Army**  
Fort Ord Base Realignment and Closure  
4463 Gigling Road, Room 101  
Seaside, CA 93955

USACE Contract No. W91238-14-C-0048

Task No. 10.10

The logo for Ahtna Environmental, Inc., featuring the word "Ahtna" in a stylized, blue, cursive font.

Prepared by:

Ahtna Environmental, Inc.  
296 12th Street  
Marina, CA 93933-6001

Report Date: **November 9, 2018**  
Report Version: **Draft**

## Report Use and Limitations

Report Title: **Monitoring Well Decommissioning Completion Report  
Former Fort Ord, California**

Prime Contractor: Ahtna Environmental, Inc.

USACE Contract No.: W91238-14-C-0048

Task No.: 10.10

Ahtna Environmental, Inc. (Ahtna) prepared this report at the direction of the U.S. Army Corps of Engineers (USACE) for the sole use of the U.S. Department of the Army (Army), the intended beneficiary. No other party should rely on the information contained herein without the prior written consent of the Army. This report and its interpretations, conclusions, and recommendations use the information presented in other documents, as cited in the text and listed in the references. Therefore, this report is subject to the limitations and qualifications presented in the referenced documents.

## Report Approval

Report Title: **Monitoring Well Decommissioning Completion Report  
Former Fort Ord, California**

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Derek S. Lieberman, P.E. Certificate No. C 57417  
Ahtna Environmental, Inc.  
Project Manager

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Holly Dillon  
Ahtna Environmental, Inc.  
Task Lead

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## Acronyms and Abbreviations

Ahtna	Ahtna Environmental, Inc.
Army	U.S. Department of the Army
bgs	below ground surface
BRAC	Base Realignment and Closure
FONR	Fort Ord Natural Reserve
IDW	investigation-derived waste
OU2	Operable Unit 2
OUCTP	Operable Unit Carbon Tetrachloride Plume
QC	Quality Control
Sites 2/12	Sites 2 and 12
USACE	U.S. Army Corps of Engineers

## 1.0 Introduction

Ahtna Environmental, Inc. (Ahtna) prepared this *Monitoring Well Decommissioning Completion Report, Former Fort Ord, California* (Completion Report) on behalf of the U.S. Army Corps of Engineers (USACE) Sacramento District per Contract W91238-14-C-0048. This Completion Report describes the monitoring well decommissioning activities conducted at Sites 2 and 12 (Sites 2/12), Operable Unit 2 (OU2), and Operable Unit Carbon Tetrachloride Plume (OUCTP) (Figure 1). This Completion Report includes a description of activities conducted, including methods and procedures used for monitoring well decommissioning in accordance with the *Monitoring Well Decommissioning Work Plan, Former Fort Ord, California* (Work Plan; Ahtna, 2018).

## 2.0 Well Decommissioning Activities

Well decommissioning activities began on August 21, 2018 and were completed August 27, 2018. The locations of decommissioned wells are shown on Figures 2 through 5, well decommissioning procedures are detailed in Section 2.3, and project field reports documenting field activities are included in Appendix A.

### 2.1 Notification and Access

Property owners were notified of fieldwork activities before the start of work as specified in the Work Plan (Ahtna, 2018). Ahtna personnel kept copies of the Fact Sheet provided in the Work Plan (Ahtna, 2018) onsite for distribution to interested members of the public.

### 2.2 Permitting and Clearance

Permits for the 13 monitoring well decommissioning locations were obtained from the Monterey County Health Department and copies of the permits are provided in Appendix B. A temporary entry permit was obtained from the Trustees of the California State University for access to MW-OU2-59-A and MW-OU2-60-A on California State University Monterey Bay property (Figure 3). A City of Marina encroachment permit was obtained for the eight wells located within the City's jurisdiction: MW-OU2-36-A, MW-BW-62-A, MW-BW-64-A, MW-BW-68-A, MW-BW-69-A, MW-BW-70-A, MW-BW-20-180, and MW-BW-22-180 (Figures 3, 4 and 5).

### 2.3 Well Decommissioning Procedures

Yellow Jacket Drilling Services, a California C-57 licensed drilling company, decommissioned all 13 monitoring wells under Ahtna's supervision and in accordance with the Work Plan (Ahtna, 2018). Characteristics of decommissioned wells are listed in Table 1, well decommissioning logs are included in Appendix C, and State of California well completion reports are provided in Appendix D. The well decommissioning proceeded as follows:

1. Groundwater sampling hardware, if any, was removed and disposed of as investigation-derived waste (IDW).
2. The total well depth was measured and compared to known well details to confirm there were no obstructions present that could interfere with filling and sealing the casing and/or screen (Table 1).<sup>1</sup> No obstructions were encountered in any of the wells.
3. The depth to groundwater was measured and recorded (Table 1).
4. The minimum grout volume required to fill the well casing from the record total depth to within 5 feet of ground surface was calculated, except for MW-02-12-180 and MW-BW-29-180 where the calculated grout volume is to within 1 foot of ground surface (Table 1).<sup>2</sup>

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<sup>1</sup> Known well details were obtained from well construction logs, if available, and the Army's Well Information database in the Fort Ord Data Integration System (FODIS) as described in the Work Plan (Ahtna, 2018).

<sup>2</sup> According to the Work Plan (Ahtna, 2018), wells located in biologically sensitive areas were excavated to only 1 foot bgs instead of 5 feet bgs to limit the impact to sensitive biological species.



5. The well was filled with sealing material consisting of 5 percent bentonite and 95 percent neat cement grout using a tremie from the bottom of the well to within 5 feet below ground surface (bgs) except for MW-02-12-180 and MW-BW-29-180, which were filled with grout to within 1 foot bgs. The actual volume of sealing material placed exceeded the calculated volume for all 13 wells, indicating successful penetration of grout through the well screen and into the surrounding soil (Table 1).<sup>3</sup>
6. The grout was pressurized in the well casing to 15 pounds per square inch for 15 minutes, after which the depth to grout was checked and additional grout added to bring the top of grout back up to 5 feet bgs or 1 foot bgs for MW-02-12-180 and MW-BW-29-180. Excess grout was placed in portable metal bins or equivalent and disposed of as solid IDW.
7. The surface completion for each well was removed, including concrete pads, bollards, monuments, and well boxes, except for MW-BW-62-A as described in Section 2.7.
8. The well casing was removed to a depth of 5 feet bgs. Per the Work Plan (Ahtna, 2018), the casing for wells in biologically sensitive areas (MW-02-12-180 in the Fort Ord Dunes State Park [Figure 2] and MW-BW-29-180 in the Fort Ord Natural Reserve [FONR, Figure 5]) was removed to a depth of 1 foot bgs.
9. A concrete cap was placed on top of the well casing at 5 feet bgs (or 1 foot bgs at MW-02-12-180 and MW-BW-29-180).
10. The excavation above the concrete cap was backfilled with native material and regraded to match surrounding topography. Per the Work Plan (Ahtna, 2018), the top three to six inches of topsoil at MW-02-12-180 and MW-BW-29-180 were set aside and reused as the surface soil layer when regrading the excavated area.

Representatives of the Monterey County Health Department were on site to observe the placement of well sealing material.

## 2.4 Investigation-Derived Waste

Solid IDW was contained in drums or bins onsite and was disposed of in accordance with applicable laws and regulations. Liquid IDW was contained in labeled drums or tanks and was disposed of at the OU2 groundwater treatment plant.

Solid non-hazardous waste, such as disposable personal protective equipment and non-reusable sampling equipment, was disposed of in a waste receptacle located at the Ahtna office at 296 12<sup>th</sup> Street, Marina, California.

Removed surface completions, including concrete and metal materials, were taken to the Monterey Peninsula Landfill for disposal and/or recycling.

## 2.5 Reporting

For each day of fieldwork a Project Field Report was prepared to summarize onsite personnel, visitors, equipment, hours of operation, activities, quality and safety issues, corrective actions, and present a

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<sup>3</sup> According to the Work Plan (Ahtna, 2018), wells located in biologically sensitive areas were excavated to only 1 foot bgs instead of 5 feet bgs to limit the impact to sensitive biological species.

photographic record. The daily Project Field Reports were submitted to USACE upon completion of fieldwork activities and are included in Appendix A.

## 2.6 Habitat Monitoring

The U.S. Fish and Wildlife Service-approved Onsite Biologist, Denise Duffy & Associates, surveyed locations, access routes, and staging areas prior to fieldwork activities and identified areas containing populations of Monterey gilia and Monterey spineflower for the following three wells:

- MW-02-12-180 located within Fort Ord Dunes State Park (Figure 2)
- MW-BW-29-180 located within the FONR (Figure 5)
- MW-OU2-59-A located outside the FONR, but had to be accessed through the FONR (Figure 3)

Additionally, in the MW-02-12-180 area at Fort Ord Dunes State Park, the Onsite Biologist identified areas containing populations of Buckwheat, which is habitat for the federally endangered Smith's blue butterfly (*Euphilotes enopte smithi*).

The Onsite Biologist used the baseline survey results to adjust the access routes, staging areas, and turnaround areas to ensure personnel and equipment stayed within designated work areas and prohibit access to protected areas. The Onsite Biologist was onsite during decommissioning activities to ensure conservation measures were implemented.

Two Habitat Checklists were prepared prior to decommissioning activities (Appendix E). The Onsite Biologist provided training to onsite field personnel to avoid special-status animal and plant species and minimize disturbance in the FONR and Fort Ord Dunes State Park. Special-status animal species (Smith's blue butterfly, coast horned lizard, black legless lizard, and California tiger salamander) were not observed during well decommissioning activities.

The Onsite Biologist will conduct three years of annual follow-up habitat monitoring in areas of the Fort Ord Dunes State Park and FONR disturbed during well decommissioning field activities. Follow-up surveys will be conducted during the peak blooming period for the species being monitored (Monterey gilia, Monterey spineflower, and Buckwheat). Each year for the three-year follow-up habitat monitoring period an evaluation report will be prepared and provided to USACE and the Army Base Realignment and Closure (BRAC) Fort Ord Field Office detailing updated special-status plant species populations and documenting impacts potentially related to well decommissioning activities.

## 2.7 Work Plan Deviations

Per Section 5.1 of the Work Plan (Ahtna, 2018), well surface completions were removed; however, the below ground well vault associated with MW-BW-62-A was left in place. The vault is located in an unimproved portion of Lexington Court (Figure 4) and measures 34 inches wide by 46 inches long by 38 inches deep. The vault was too large to remove with available onsite equipment; therefore, with the approval of USACE and the BRAC Fort Ord Field Office, the vault lid and frame were removed and the well vault filled with clean sand and covered with native material. A description of the work and a photographic record are provided in the Project Field Reports for August 24 and 25, 2018 (Appendix A). No other Work Plan deviations occurred.

## **2.8 Quality Control**

During field decommissioning activities the three-phase quality control (QC) inspection process was utilized according to the Work Plan (Ahtna, 2018). Completed three-phase QC inspection forms are provided in Appendix A. There were no QC issues identified during the well decommissioning activities.

## **2.9 Site Safety and Health**

Each decommissioning location had an area around the heavy equipment where personnel were required to wear appropriate personal protective equipment including; hard hat, high visibility safety vest, safety glasses, safety toe boots, hearing protection (as needed), and disposable mask (for grout mixers). The Accident Prevention Plan (Ahtna, 2015) and Work Plan Activity Hazard Analysis (Ahtna, 2018) were referenced for applicable site training and procedures. Kickoff site training was conducted on August 21, 2018 with onsite personnel reviewing items in Work Plan Section 2.4 (Ahtna, 2018). On each following day of fieldwork, from August 22 through 27, 2018, a tailgate safety meeting was held with onsite personnel and no safety issues were identified during field activities. Completed daily site safety tailgate and inspection logs are included in Appendix A. The Site Safety and Health Officer performed a thorough Jobsite Safety Inspection on August 23, 2018 and no safety issues were identified (Appendix A).

### 3.0 References<sup>4</sup>

Ahtna Environmental, Inc. (Ahtna), 2015. *Accident Prevention Plan, Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume; and Soil Gas Remedy and Monitoring at Sites 2 and 12, Former Fort Ord, California*. March.

Ahtna, 2018. *Final Monitoring Well Decommissioning Work Plan, Former Fort Ord, California*. July 25. AR# [BW-2853A](#).

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<sup>4</sup> At the end of references included in the Fort Ord Administrative Record are the Administrative Record Numbers (AR#s) (e.g. BW-1234). To find the referenced document, this number may be typed into the Online Search tool at: <http://www.fortordcleanup.com/documents/search/>. Please note the referenced documents were available in the Fort Ord Administrative Record at the time this document was issued; however, some may have been superseded by more current versions and were subsequently withdrawn.

**TABLE**

Table 1. Decommissioned Well Characteristics

Well ID	Site	Aquifer	Biologically Sensitive Area <sup>1</sup>	Northing	Easting	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Screen Length (ft)	Silt Trap Length (ft)	Record TD (ft bgs) <sup>2</sup>	Measured TD (ft btoc) <sup>3</sup>	DTW (ft btoc) <sup>4</sup>	Casing Diameter (inches)	Decommission Date	Minimum Grout Needed (gal) <sup>5</sup>	Actual Grout Used (gal)
MW-02-12-180	Sites 2/12	Upper	Yes	2137991.00	5735908.55	113	128	15	6	134.00	128.69	57.06	4	8/23/2018	87	110
MW-OU2-33-A	OU2	A	No	2137374.05	5738654.58	120	150	30	1.2	151.20	150.80	116.21	5	8/22/2018	149	180
MW-OU2-36-A	OU2	A	No	2139579.50	5739394.85	123	133	10	2	135.00	134.70	89.05	5	8/27/2018	133	270
MW-OU2-59-A	OU2	A	No	2136830.16	5750924.76	93	122	29	1	123.00	124.50	99.05	5	8/27/2018	120	270
MW-OU2-60-A	OU2	A	No	2135729.64	5750438.98	88	117	29	1	118.00	119.50	93.85	5	8/26/2018	115	257
MW-BW-62-A	OUCTP	A <sup>6</sup>	No	2137725.50	5748172.09	99.5	129.5	30	0.5	130.00	126.00	103.68	5	8/25/2018	127	358
MW-BW-64-A	OUCTP	A <sup>6</sup>	No	2138018.00	5748548.70	97.5	127.5	30	0.5	128.00	127.05	101.00	5	8/22/2018	125	250
MW-BW-68-A	OUCTP	NA <sup>7</sup>	No	2138039.84	5748076.57	61	91	30	0	91.00	89.90	89.60	4	8/24/2018	56	147
MW-BW-69-A	OUCTP	NA <sup>7</sup>	No	2138139.54	5748326.23	61	91	30	0	91.00	90.70	89.70	4	8/24/2018	56	142
MW-BW-70-A	OUCTP	NA <sup>7</sup>	No	2137680.98	5748431.32	61	91	30	0	91.00	91.50	91.20	4	8/24/2018	56	145
MW-BW-20-180	OUCTP	Upper	No	2140645.12	5747685.23	177.5	197.5	20	0	197.50	198.70	156.70	5	8/25/2018	196	365
MW-BW-22-180	OUCTP	Upper	No	2140553.48	5748198.84	177.5	197.5	20	0	197.50	198.70	164.83	5	8/26/2018	196	262
MW-BW-29-180	OUCTP	Upper	Yes	2140951.74	5747985.78	200	220	20	1	221.00	220.80	158.23	5	8/23/2018	224	225

**Notes:**

<sup>1</sup>Well is located in an area with habitat conservation requirements.

<sup>2</sup>Record TD: total depth from ground surface as recorded on well construction logs and/or the Army's Well Information database in the Fort Ord Data Integration System (FODIS).

<sup>3</sup>Measured TD: total depth from top of casing as measured prior to decommissioning.

<sup>4</sup>Depth to water from top of casing as measured prior to decommissioning.

<sup>5</sup>Calculated volume of grout needed to fill well casing from record TD to within 5 feet of ground surface.

<sup>6</sup>Dual-screened well with screen in saturated zone for groundwater monitoring and screen in vadose zone for soil vapor extraction; only saturated zone screen interval is noted.

<sup>7</sup>Screened in vadose zone.

**Acronyms and Abbreviations:**

bgs: below ground surface

btoc: below top of casing

DTW: depth to water

ft: feet

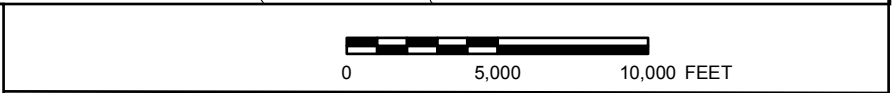
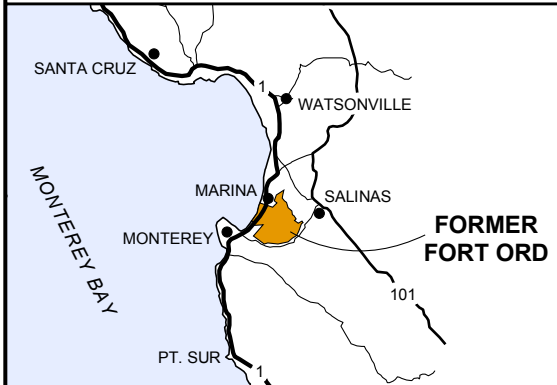
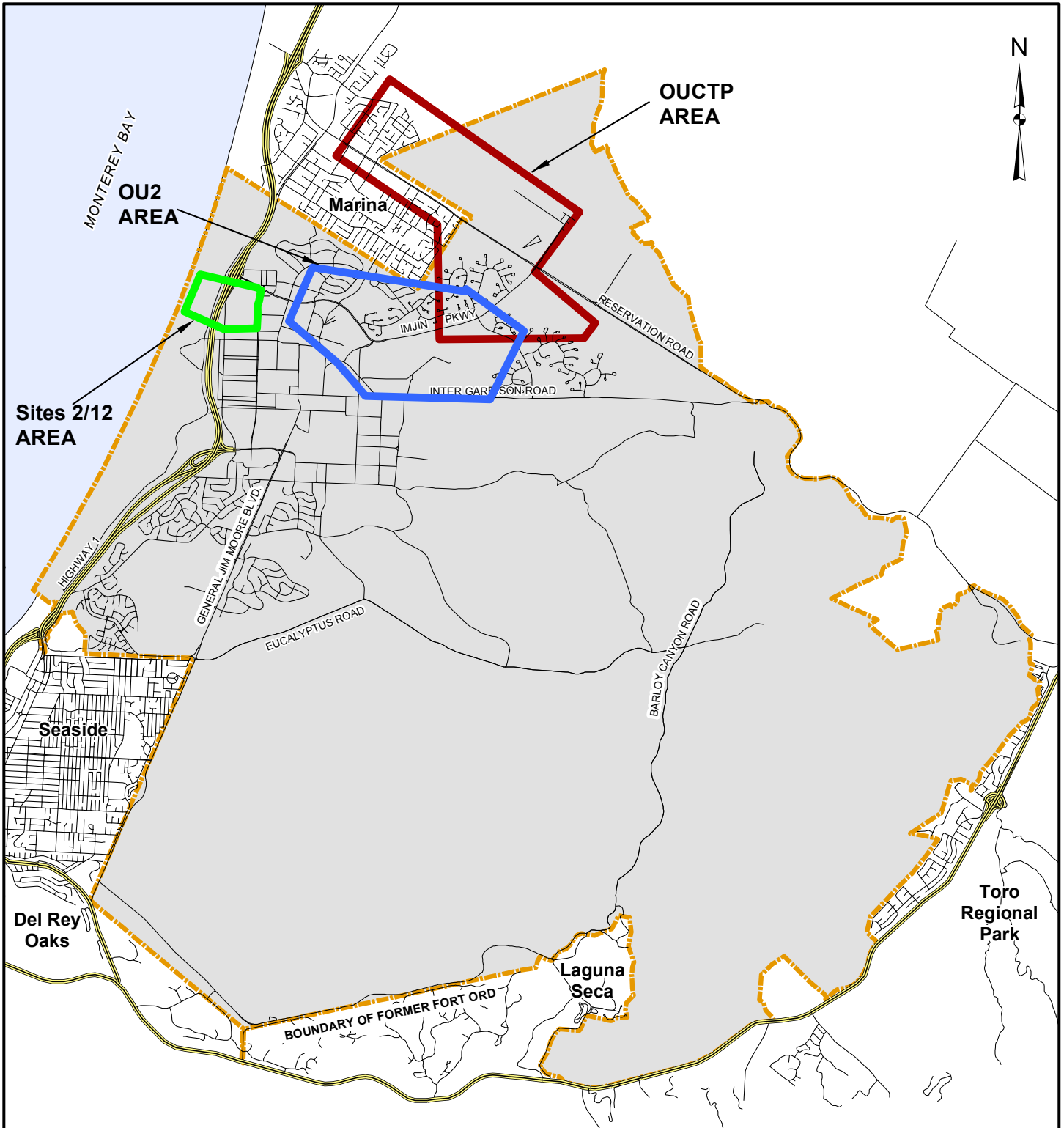
gal: gallons

NA: not applicable

ND: not detected

TD: total depth

## FIGURES

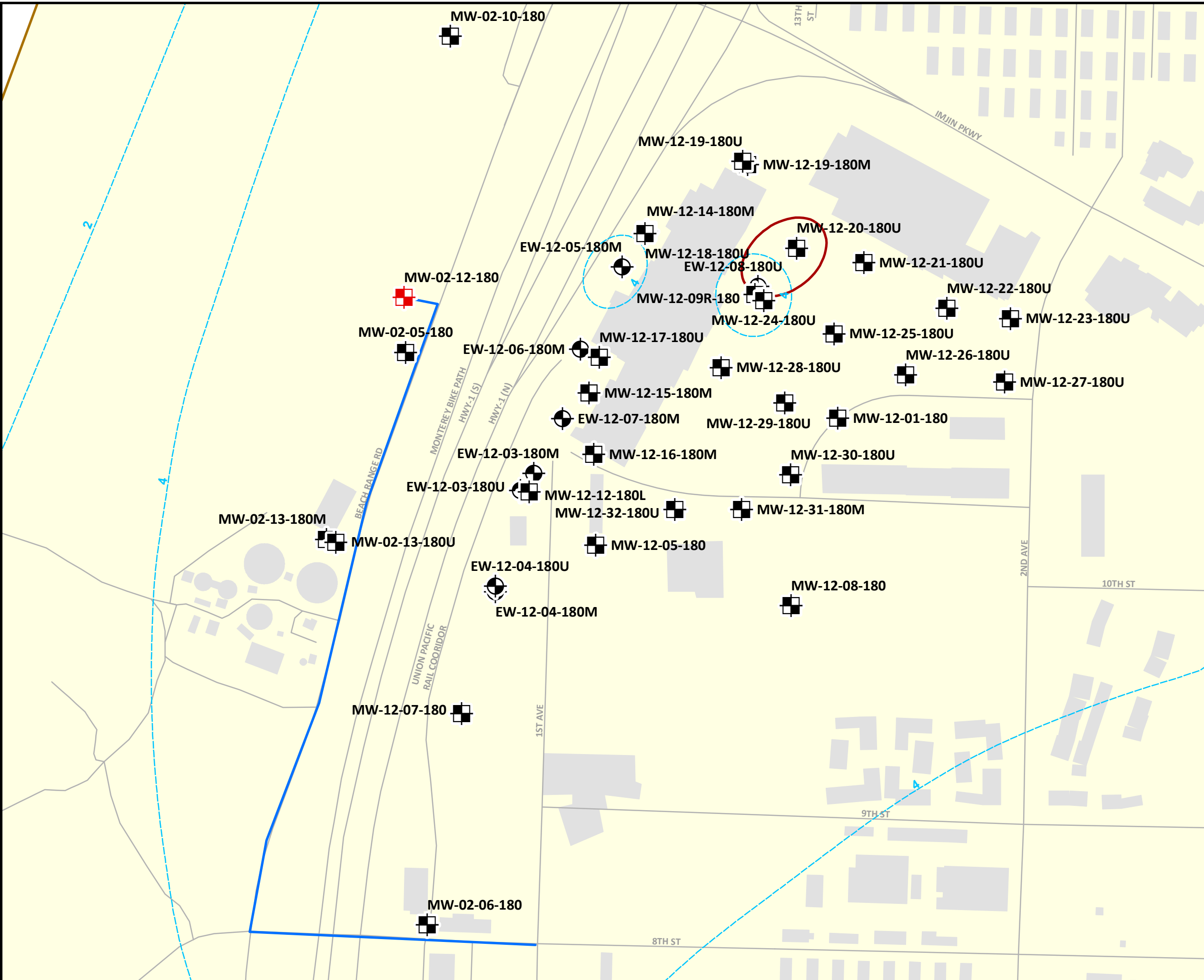


**Site Vicinity**  
 Well Decommissioning Completion Report  
 Former Fort Ord, California

*Ahtna*

Figure  
1





**Legend**

- Roads
- Access Route
- PCE (5 ug/L) 2017-4Q
- Groundwater Elevation (ft MSL) 2017-4Q
- Former Fort Ord Boundary
- Buildings

**Sites 2/12 Well Type**

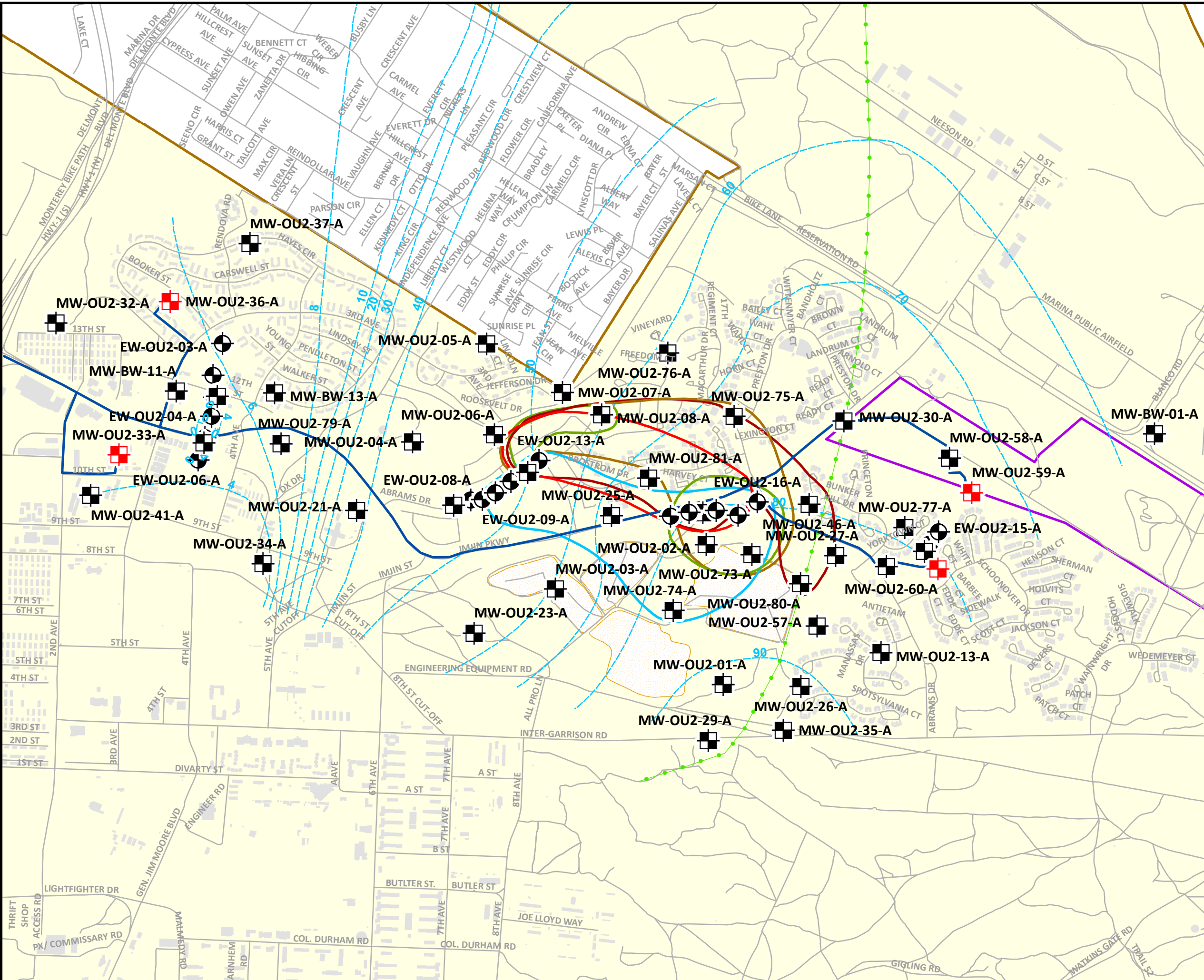
- ⊕ Extraction Well
- ⊞ Monitoring Well
- ⊞ Monitoring Well - Decommissioned

0 125 250 500 Feet

N

**Sites 2/12 Monitoring Well Decommissioning Location**

Well Decommissioning Completion Report  
Former Fort Ord, California



**Legend**

- Groundwater Divide
- Access Routes

**COC ACL Exceedance 2017-4Q**

- 1,1-DCA (5 ug/L)
- 1,2-DCA (0.5 ug/L)
- PCE (3 ug/L)
- TCE (5 ug/L)
- VC (0.1 ug/L)
- - - Groundwater Elevation (ft MSL) 2017-4Q
- Roads
- Buildings
- FONR Boundary
- Former Fort Ord Boundary
- OU2 Landfills

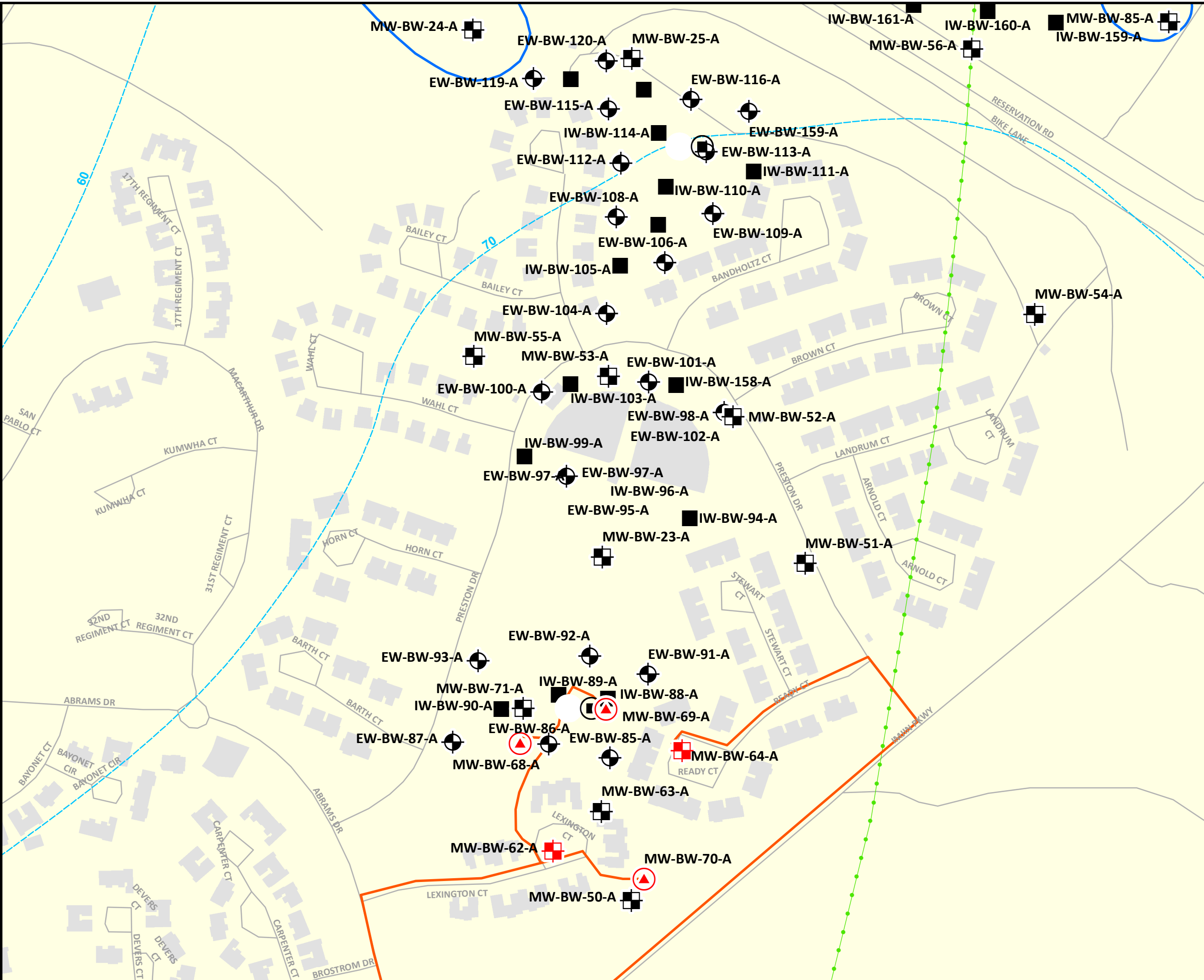
**OU2 A-Aquifer Well Type**

- ⊕ Extraction Well
- Monitoring Well
- Monitoring Well - Decommissioned

0 750 1,500 3,000 Feet

**OU2 A-Aquifer  
Monitoring Well  
Decommissioning Locations**

Well Decommissioning  
Completion Report  
Former Fort Ord, California



**Legend**

- Groundwater Divide
- Carbon Tetrachloride (0.5 ug/L) 2017-4Q
- - - Groundwater (ft MSL) 2017-4Q
- Access Routes
- Roads
- OU2 Landfills
- Buildings
- Former Fort Ord Boundary

**A-Aquifer Well Types**

- ⊗ EISB Extraction Well
- ⊗ Multi-Port Well (Westbay)
- ⊠ Monitoring Well
- ⊠ Monitoring Well - Decommissioned

**OUCTP EISB Wells**

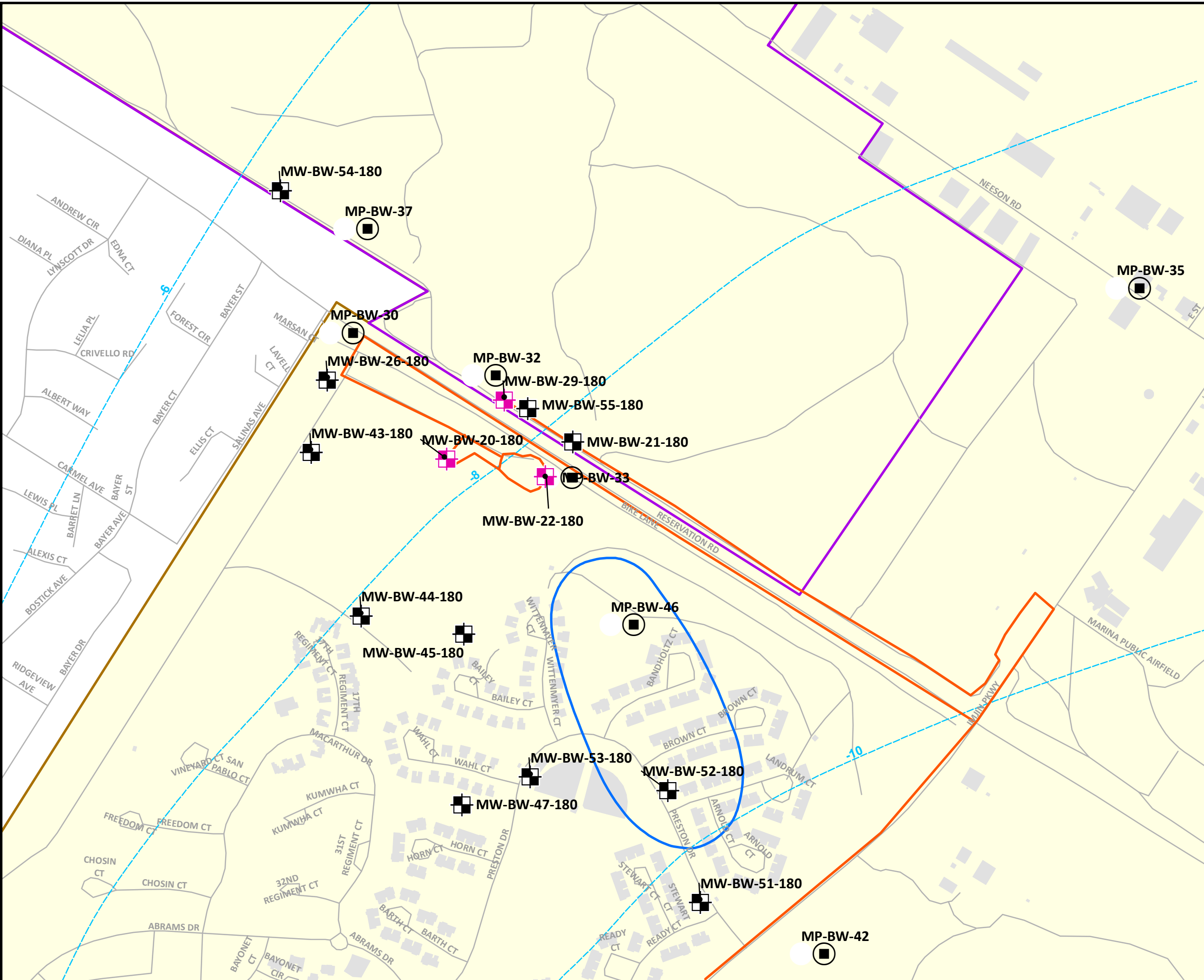
- ⊗ Extraction Well
- Injection Well
- ▲ SVE Well - To Decommission

0 125 250 500 Feet

N

**OUCTP A-Aquifer  
Monitoring Well and  
Soil Vapor Extraction Well  
Decommissioning Locations**

Well Decommissioning  
Completion Report  
Former Fort Ord, California



**Legend**

- Roads
- Access Routes
- Carbon Tetrachloride (0.5 ug/L) 2017-4Q
- Groundwater Elevation (ft MSL) 2017-4Q
- Former Fort Ord Boundary
- FONR Boundary
- Buildings

**OUCTP Upper 180-Foot Aquifer Well Type**

- Extraction Well
- ⊠ Monitoring Well
- ⊠ Multi-Port Well (Westbay)
- ⊠ Monitoring Well - Decommissioned

0 250 500 1,000 Feet

N

**OUCTP Upper 180-Foot Aquifer  
Monitoring Well  
Decommissioning Locations**

Well Decommissioning  
Completion Report  
Former Fort Ord, California

## APPENDICES

**APPENDIX A**  
Project Field Reports



## PROJECT FIELD REPORT

GENERAL			
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/21/2018
3) Program Manager	Derek Lieberman	4) Report No.:	D-1
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck
9) Weather:	Overcast	10) Temperature:	60-70

SUMMARY	
11) Work Performed:	Decommissioned Monitoring Well MW-OU2-33-A. Filled Monitoring Well with Grout. Pulled Conductor Casing out of the ground.
12) Project Issues:	Drill Bit is stuck in the Conductor Casing.
13) Unresolved Issues:	Drill Bit is stuck in the Conductor Casing.

CONTRACTOR PERSONNEL		
14) Prime Contractor and Subcontractor Onsite:		
Name	Company	Position/Title
Andrew Mauck	Ahtna	Field Technician/QC Manager
Brian Hernandez	Yellow Jacket	Driller
Javier Rios	Yellow Jacket	Helper
James Wolfley	Yellow Jacket	Helper
Holly Dillon	Ahtna	SSHO

GOVERNMENT PERSONNEL			
15) Government Personnel Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)
Tom Ghigliotto	Chenega	Oversight	

VISITING PERSONNEL			
16) Visitors Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)
Roger Van Horn	Monterey County	Environmental Inspector	1445/1530
Christie Vo	Monterey County	Environmental Inspector	1445/1530
Isaiah Tazol	Monterey County	Environmental Inspector	1445/1530

DETAIL
17) Attachments:
<ol style="list-style-type: none"><li>1. Field Notes</li><li>2. Well Destruction Form</li><li>3. Initial Phase Inspection</li><li>4. Follow-Up Phase Inspection</li><li>5. Yellow Jacket Daily Drill Report</li><li>6. Safety Tailgate</li></ol>
18) Report Submitted by: Andrew Mauck

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## PROJECT FIELD REPORT

19) Photos:



Description: 95% Portland Cement 5% Bentonite is pumped to the bottom of the well using a tremie pipe.



Description: Grout is Pressurized to 15 PSI for 15 mins.



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## PROJECT FIELD REPORT



Description: Concrete Collar is broken up.



Description: Drill Bit is stuck in the Conductor Pipe surrounding the Monitoring Well Pipe.

Description: well Demolition  
mw-0u2-33-A

Page 1 of 1

Date 8/21/18

Prepared By: Andrew Mauck

- 0700 - well Installation and Decommissioning Project onsite kickoff meeting
- Tailgate Safety (Nelly Dillion SHC, Ahtna)
  - Initial QC
  - Bio Clearance training (Dewick Dully - Associates)
- 0800 - MEC Training - Kenrow
- 0830 - met @ Landfill
- Arrival of trucklift
  - Arrival of Supplies
  - Inventory Supplies
  - Load Trucks for MOBE to mw-0u2-33-A
- 1100 - arrive @ mw-0u2-33-A
- Setup
  - Total Depth = 150.80
  - Depth to water - 116.21
- 1215 - mix 1st Batch of 95% portland Cement 5% Ben site
- 33 Gal of water
  - 6 Bags of portland Cement (47 lb/each)
- 1240 - Pump 1st mixture down well
- 1255 - Begin pumping 2nd Batch of 95% portland Cement 5% Bentonite
- 33 Gal of water
  - 6 Bags of portland Cement 47 lb/each
- 1305 - Begin pumping 3rd Batch of 95% portland Cement 5% Bentonite
- 33 Gal of water
  - 6 Bags of portland Cement 47 lb/each
- 1320 - Begin pumping 4th Batch of 95% portland Cement 5% Bentonite
- 33 Gal of water
  - 6 Bags of portland Cement 47 lb/each
- 1330 - Begin pressure Test 15 PSI For 15 min
- 1345 - End Pressure Test
- 1346 - Begin chipping away Concrete Measurement
- 1410 - End chipping around well Begin drilling casing to 5'
- 1415 - Drill Bit stuck in casing (conductor pipe)
- pulled pipe up and swapped well casing. Approximately 5' of well casing was pulled up.
- 1445 - Monterey County Inspectors onsite. Roger Van Horn, Christine VO, Isiah Torres
- Explained what happened.
- 1500 - Took equipment to lay down yard and to welders shop to try and save the Bit
- 1600 - off site

8/21/18

## Well Destruction Form

Location: Manawa Project: Fort Ord Event: 2018 Well Decommissioning Completed by: Andrew Munch Date: 8/21/18

Grouting information	Well/boring information						
Well/boring ID	MW-062-33-A						
Date	8/21/18						
Site	062						
Diameter	5"						
Total depth	150.8'						
Estimate of grout volume	151 gal						
Amount of water (gallons)	132 gal						
Amount of cement (bags)	24						
Amount of bentonite (lbs)	56						
Grout weight (lbs/gallon)	12.7 lbs/gal						
Grout volume used (gallons)	180 gal						

DTW

116.21

Volume calculation formula: **Gal x Depth(ft) = Estimated grout volume**

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9

**INITIAL PHASE INSPECTION COVER SHEET**

Contract No.: W11238-14-C-0048  
 Task No.: 10  
 Location/Project: Fort oral well Install/Decom

Date: 8/21/2018

Description and Location of Work  
 Inspected:





Fort oral well installation  
+ decommissioning kickoff

**A. Key Personnel Present:**

	<u>Name</u>	<u>Position</u>	<u>Company</u>	
1.	Holly Dillon	SSTO/ task lead	Ahtna	
2.	Derek Lieberman	PM	↓	
3.	Mark Fisher	Field Supervisor		
4.	Andrew Manis	Field Staff - Decom		
5.	Bi Foster	Field Staff - Install		
6.	Jim Brysdale	QA - Install		
7.	Don Klock	PM		USACE
8.	Javier Bios	Helper		Yellow Jacket
9.	James Wolfley	Helper		↓
10.	Lady Reed	Helper		
	Brian Hernandez	Operator - Decom		
	Carlos Hernandez	Driver - Install		
	Charles Mahaney	helper		
	Matthew Johnson	Biologist	DDTA	

\_\_\_\_\_  
 Quality Control Manager Signature

**INITIAL PHASE INSPECTION CHECKLIST**

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Beginning of project activity: Is work being performed according to project plans?	Conduct field and laboratory audits.	Project Manager, Quality Control System Manager, Task Manager, Project Chemist, Field staff.	Stop work if audits indicate significant deviation from project plan. Implement immediate or long-term corrective actions. Communicate deficiencies to USACE Project Manager.	 8/21/18
Early phase of project: Have necessary audits been performed?	Review project phase and check to see if required audits have <i>been</i> satisfactorily completed.	Project Manager, Quality Control Systems Manager	Stop work if reviewer decides that absence of audit jeopardizes successful implementation of project plans. Immediately schedule necessary audits.	 8/21/18
Ongoing throughout project: Are daily Contractor Quality Control Reports (CQCRs) being prepared according to contract requirements?	Review daily CQCRs from field supervisors.	Project Manager, Task Manager, Project Chemist, Project Staff	Correct deficiencies in reports or reporting delays.	 8/21/18
Ongoing throughout project: Do project plans adequately address any changes in project activities or goals?	Compare data gathered to assess conformance to the project plan and conceptual site model, <b>data quality objectives, and project plan.</b>	Project Manager, Safety and Health Officer, Quality Control System Manager, Task Manager, Project Chemist, Field staff.	Stop work if assessor decides that project plan deficiencies are significant. Implement corrective action to include modification of project plans. Notify USACE Project Manager. <b>Identify data gaps.</b>	 8/21/18

CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: W91239-14-C-0048

Date: 8/21/2018

Task No.: 10.9

Location/Project: Monitoring Well Decommissioning  
Former Fort Ord, Marina, CA

Project/Area of Inspection: Monitoring Well Decommissioning @ Former Fort  
Ord, Marina, CA / MW-002-33-A

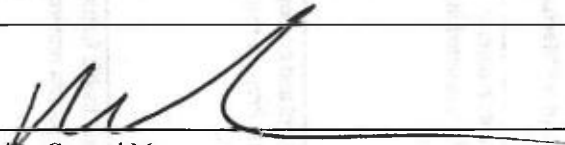
A. Definable Features of Work:

Status of Inspection:




MW-002-33-A: Well Decommissioning work was completed  
according to Section 5.1 of the July 2018 Final Revision  
Monitoring Well Decommissioning Work Plan at Former Fort  
Ord, CA.

During the process of drilling, the monitoring well casing bent, the drill  
bit became stuck in the conductor pipe. When the pipe was pulled  
up, the well casing came up with it (Approx 5'). The well  
casing was cut at the surface. The Drill bit was taken to the  
shop to have the conductor casing removed. The drillers will  
return tomorrow to drill the monitoring well to 5' bgs and  
cover with concrete.

No disruptions to local businesses or residents was noticed.

  
Quality Control Manager

### FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	 6/21/18
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	 6/21/18
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	 6/21/18

DAILY DRILL REPORT

CLIENT: *Ahting*

PAGE 1 OF 1



YELLOW JACKET DRILLING SERVICES

DRILLING LOCATION: *Maining CA*

DATE: *8-21-18*

YJD JOB NO: *18-0803CA*

RIG #: *142*

FROM	TO	DESCRIPTION OF ACTIVITIES
<i>545</i>	<i>700</i>	<i>pickup inspections, fuel up</i>
<i>700</i>	<i>900</i>	<i>Safety meeting</i>
<i>900</i>	<i>1000</i>	<i>unload materials, make ready</i>
<i>1000</i>	<i>300</i>	<i>drive to site, set up, grind up well with 4 batches with 50 gal each, <del>stick</del> pickup concrete, remove well box, drill out conductor casing, and get stuck on Auger, clean up</i>
<i>300</i>	<i>400</i>	<i>take equipment to lay down, take conductor to get torch out</i>
<i>400</i>	<i>500</i>	<i>drive to hotel</i>

HOLE #		HOLE #		
<i>NW-00233A</i>		<i>NW-00233A</i>		
FOOTAGE DRILLED FROM		<i>0</i>		
FOOTAGE DRILLED TO		<i>5</i>		
SAMPLES TAKEN THIS DATE		<i>-</i>		
SURFACE CONDITION (CIRCLE ONE)		DIRT ASPHALT CONCRETE	DIRT ASPHALT CONCRETE	DIRT ASPHALT CONCRETE
CEMENT GROUT	FROM			
	TO			
BENT. GROUT	FROM			
	TO			
BENT. SEAL	FROM			
	TO			
SAND PACK	FROM			
	TO			
BLANK CASING	FROM			
	TO			
SCREEN	FROM			
	TO			
SUMP	FROM			
	TO			
GPS COORDINATES	WATER LEVEL			
	LAT.			
	LONG.			
FORMATION	FROM			
	TO			
	FROM			
	TO			
	FROM			

QTY	CONSTRUCTION SUPPLIES
	" X ' Steel Well Prot.
	" x ' Steel Guard Posts
	Flush Traffic Vault: Size
	Bags: Asphalt
	Bags: Concrete Mix
	Bags: Quickcrete
<i>24</i>	Bags: Portland Type II Cement
	Bags: Bentonite Grout
	Bags: Bentonite Chips-Size
	Pails: Bentonite Pellets-Size
	Bags: Sand-Grade
	Bags: Sand-Grade
	" x 5' Casing: PVC/SS
	" x 10' Casing: PVC/SS
	" x 5' Screen-Slot Size:
	" x 10' Screen-Slot Size:
	Bottom Caps
	Slip Cap - Size
	J. Plug - Size
<i>1</i>	Bags: Bentonite Gel Powder
<i>4</i>	55 Gal. Drums - 17H Rated
	Sample Liners
<i>4</i>	Visqueen Tarps 6 mil.
	Sono Tube

PERSONNEL EMPLOYED	EMPLOYEE'S NAME	HOURS	PER DIEM	INITIALS	
	DRILLER:	<i>Brian Hernandez</i>	<i>11.15</i>	<i>YES OR NO</i>	<i>B.H</i>
	HELPER	<i>Squid Kios</i>	<i>11.15</i>	<i>YES OR NO</i>	
	HELPER	<i>James Wolfley</i>	<i>11.15</i>	<i>YES OR NO</i>	
	HELPER	<i>Chad [Signature]</i>	<i>9</i>	<i>YES OR NO</i>	

DESCRIPTION	UNIT NO.
DRILL RIG:	<i>109</i>
PIPE TRUCK:	
CREW TRUCK:	<i>386</i>
STEAM CLEANER	
COMPRESSOR:	<i>545</i>
BOBCAT/FORKLIFT:	<i>HERE</i>
BACKHOE:	

CLIENT APPROVAL: *[Signature]*



## AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

**GENERAL DATA**

Date: 8-21-2018  
 Site: Fact Prod Site Location: 002, 2112, OUCAP  
 AHTNA Site Manager: Derek Lieberman AHTNA SSHO: Holly Dillon

**DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion):**

Well installation + decommissioning Kickoff

Other items to address as appropriate (check those discussed):

<input checked="" type="checkbox"/> Scope of day's work <input checked="" type="checkbox"/> Site SH&E Plan / Revisions <input checked="" type="checkbox"/> AHA's / PTSP's completed/reviewed? <input checked="" type="checkbox"/> Emergency SOPs (i.e. rally pt., tele #s) <input checked="" type="checkbox"/> Communications Check <input checked="" type="checkbox"/> PPE Requirements	<input checked="" type="checkbox"/> OSHA's Focus Four <input checked="" type="checkbox"/> Fall Hazards <input checked="" type="checkbox"/> Electrical Hazards <input checked="" type="checkbox"/> Struck-by Hazards <input checked="" type="checkbox"/> Caught in / between Hazards <input checked="" type="checkbox"/> Other Primary Hazards	<input type="checkbox"/> Recent near miss / injuries / lessons <input checked="" type="checkbox"/> Lifting Safety / Materials Handling <input checked="" type="checkbox"/> BBS Hazard Triggers <sup>1</sup> <input checked="" type="checkbox"/> BBS Trigger Controls <sup>2</sup> <input checked="" type="checkbox"/> Other (heat, noise, trench, confine sp) <u>Drilling, ticks, poison oak</u>
---	--	---

**MEETING ATTENDEES: (place \* next to subcontractor safety representatives)**

NAME / COMPANY	NAME / COMPANY
<u>Holly Dillon / Ahtna</u>	<u>Carlos Hernandez</u>
<u>MARK FISLER / AHTNA</u>	<u>Carlos Hernandez / Yellow Jacket</u>
<u>Jim DRYSDALE / USACE</u>	<u>Charles Mulvaney / Yellow Jacket</u>
<u>Javier Rios / YJD</u>	<u>Rodney Johnson / Ahtna</u>
<u>James Wolfley / YTD</u>	<u>Markus Johnson / ODA</u>
<u>Cody Reed / YJD</u>	<u>Art Foster / AHTNA</u>
<u>Brian Hernandez</u>	<u>DEREK LIEBERMAN / AHTNA</u>
	<u>Don Kindaich / YJD</u>

SUBCONTRACTOR SAFETY REPs COMMENTS?

**DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)**

Y	N	N/A	Inspection Item	Y	N	N/A	Inspection Item	Y	N	N/A	INSPECTION ITEM OTHER (List)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Postings/Plans (APP) readily avail.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Signs (No Smoking, Site Control)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Designated Parking / Traffic Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PPE(head/eye/foot/hand/ear/body)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor Safety Rep Involved	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hi-Vis, PFD's, Ring Buoys, Etc.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor / Task AHA's	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Excav./Trench/Spoils Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor Equip. Inspections	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Confined Spaces Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Emergency Equip. (PFE's, FA Kits)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Physical Barriers / Covers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Eye Wash / Shower	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fall Hazards (Protected)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Communications Check	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ladders	ISSUES TO FOLLOW-UP (Immediately Correct Deficiencies if able)			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sanitation (Toilets, Hand Wash)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Power & Portable Hand Tools				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Water & Shade, Non-Pot Identified	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Company Field Equipment				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Utilities Identified / Controlled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Alarms / Seatbelts				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Material Storage Proper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GFCI's, Whip-Checks, Slings				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Lay Down Areas Orderly	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed Rebar Protected				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Waste Containers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Safety / Health Behaviors:				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Spill Control (Pads, Snakes, Drums)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Competent / Qualified Persons				

Immediately Correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

Comments/Field Notes:

I acknowledge that above elements performed (SSHO/Inspector signature):

*[Handwritten Signature]*

Date: 8/21/18

<sup>1</sup> BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)  
<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).



## PROJECT FIELD REPORT

GENERAL			
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/22/2018
3) Program Manager	Derek Lieberman	4) Report No.:	D-2
5) Project Manager:	Derek Lieberman	6) SSHO (Designee):	Holly Dillon
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck
9) Weather:	Overcast	10) Temperature:	60-70

SUMMARY	
11) Work Performed:	Finished decommissioning Monitoring Well MW-OU2-33-A by drilling out the monitoring well pipe and placing a plug of concrete on top of the pipe. Decommissioned Monitoring Well MW-BW-64-A.
12) Project Issues:	None
13) Unresolved Issues:	None

CONTRACTOR PERSONNEL		
14) Prime Contractor and Subcontractor Onsite:		
Name	Company	Position/Title
Andrew Mauck	Ahtna	Field Technician / QC Manager
Holly Dillon	Ahtna	SSHO
Don Kinloch	Yellow Jacket	Project Manager
Brian Hernandez	Yellow Jacket	Driller
Javier Rios	Yellow Jacket	Helper
James Wolfley	Yellow Jacket	Helper

GOVERNMENT PERSONNEL			
15) Government Personnel Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)
Bruce Van Etten	USACE	Oversight	1005/1600
Tom Ghigliotto	Chenega	Oversight	1205/1240

VISITING PERSONNEL			
16) Visitors Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)
Roger Van Horn	Monterey County	Environmental Inspector	0830/1050
Christie Vo	Monterey County	Environmental Inspector	1300/1430

DETAIL
17) Attachments:
1. Field Notes
2. Well Destruction Form
3. Follow-Up Phase Inspection
4. Yellow Jacket Daily Drill Report
5. Safety Tailgate
18) Report Submitted by: Andrew Mauck

# Ahtna

## PROJECT FIELD REPORT

### 19) Photos



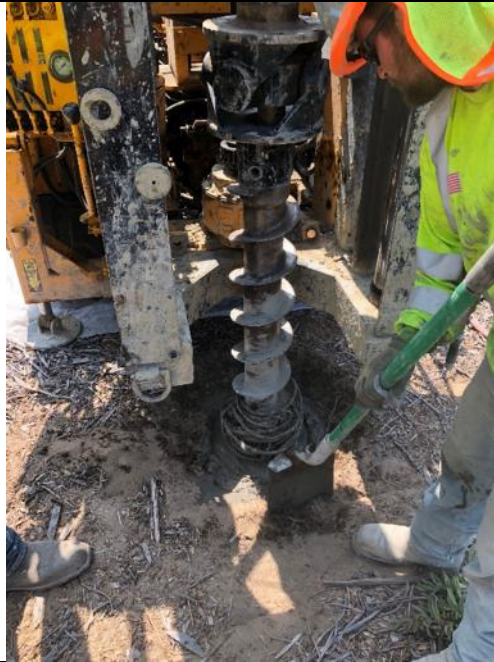
Description: MW-OU2-33-A after Well Decommissioning.



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-64-A.

# Ahtna

## PROJECT FIELD REPORT



Description: Monitoring Well Pipe is drilled down 5' at MW-BW-64-A.



Description: MW-BW-64-A after Well Decommissioning.

- 0700 - Tailgate Safety @ Landfill
- Prepping for day's work
- 0740 - Arrive onsite @ MW-OU2-33-A
- Contacted County to meet us onsite to inspect finished well Decommission
- 0800 - Puller left to weld piece on Drill Bit
- 0830 - County of Monterey - Roger Van Horn on site
- 0920 - 8.4' of pipe to fill with cement/grout mixture  
✓ 9-10 gallons
- 0930 - Pressurize well pipe 15 PSI For 15 min
- 0944 - Basin busting concrete around collar
- 0946 - Finish busting out concrete
- End pressure w/ Grout Filled pipe
- 0948 - Roger Van Horn, Monterey County, off-site
- 1005 - Bruce Van Etten, USACE Onsite
- 1010 - Mustivan Quickcrete Cap & Cleanup
- 1040 - DEMOBE - TO MW-BW-64-A
- 1050 - Arrive @ MW-BW-64-A
- Get up
- 1120 - DTW - 101.00  
TO 123.05
- 1130 Install Trim Pipe
- 1140 Christine VO, Monterey County onsite
- 1142 Basin Pumping 1st Can  
✓ 6 Bags of Portland Cement 5% Bentonite  
✓ 33 Gallons of Water 42 Gal
- 1155 Basin Pumping 2nd Can  
✓ 6 Bags of Portland Cement 5% Bentonite  
✓ 33 Gal of Water
- 1203 Basin Pumping 3rd Can  
✓ 6 Bags of Portland Cement 5% Bentonite  
✓ 33 Gal of Water
- 1205 Holly Dillon (55140) off-site  
Tom Calabritto (Chomisa) onsite
- 1210 Basin Pumping 4th Can  
✓ 6 Bags of Portland Cement 5% Bentonite  
✓ 33 gal of water
- 1215 ✓ 40' left
- 1225 Basin Pumping 5th Can  
✓ 6 Bags of Portland Cement 5% Bentonite  
✓ 33 gal of water
- 1231 ✓ 12' More  
✓ 4.5 Bags of Portland Cement 5% Bentonite  
✓ 25 Gal of Water
- 1234 Basin Pumping Remains, Portland Cement



4341 B Street Suite 404 Phone (907) 646-2969  
Anchorage, Alaska 99503 Fax (907) 561-5475

Description: well Decommission: MW-1262-39-A  
MW-BW-64-A

Page 2 of 2

Date 8/22/18

Prepared By: Andrew Manck

- 1244 Begin Pressure Test 15 psi / 15 min
- 1259 Finish Pressure Test
- 1325 Fill pipe up to top after pressure Test
- 1330 Auger top 5' of well
- 1350 Finish Augering
- 1357 Dump 1 Bag of Concrete at top
- 1352 Cleanup
- 1430 MORE to landfill  
- prep for next day
- 1630 - Leave landfill Done for Day

8/22/18

## Well Destruction Form

Location: Marina Project: Fort Ord Event: 2018 Well Decommissioning Completed by: Andrew March Date: 8/22/18

Grouting information	Well/boring information						
Well/boring ID	MW BW 64P						
Date	8/22/18						
Site	OUCIP						
Diameter	5"						
Total depth	127.05						
Estimate of grout volume	127 Gal						
Amount of water (gallons)	190						
Amount of cement (bags)	34.5						
Amount of bentonite (lbs)	81						
Grout weight (lbs/gallon)	13.15						
Grout volume used (gallons)	250						

DTW

101.0

Volume calculation formula:  $\text{Gal} \times \text{Depth(ft)} = \text{Estimated grout volume}$

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9

CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: W91238-14-C-0048

Date: 8/22/2018

Task No.: 10.9

Location/Project: Monitoring Well Decommissioning  
Former Fort Ord, Marina, CA

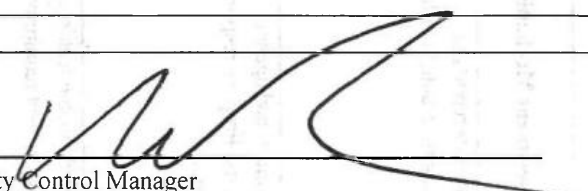
Project/Area of Inspection: Monitoring Well Decommissioning @ Former  
Fort Ord, Marina, CA / MW-062-33-A, MW-8W-64-A

A. Definable Features of Work:

Status of Inspection:




MW-062-33-A, MW-8W-64-A; Well Decommissioning Work  
was completed according Section 5.1 of the July 2018  
Final Revision Monitoring Well Decommissioning Work Plan  
at Former Fort Ord, CA.


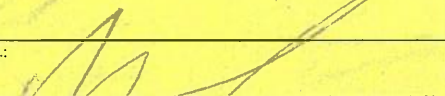
No disruptions to local businesses or residents was noticed.

  
Quality Control Manager



**FOLLOW-UP PHASE INSPECTION CHECKLIST**

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	 9/22/18
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	 9/22/18
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	 9/22/18

DAILY DRILL REPORT					CLIENT: <i>Ahtuq</i>				PAGE <i>1</i> OF <i>1</i>		
 <b>YELLOW JACKET DRILLING SERVICES</b>					DRILLING LOCATION: <i>Maine CA</i>				DATE: <i>8-22-18</i>		
YJD JOB NO: <i>18-0803 CA</i>					HOLE # <i>MW-VW64A</i>				RIG #: <i>142</i>		
FROM	TO	DESCRIPTION OF ACTIVITIES			FOOTAGE DRILLED FROM				QTY	CONSTRUCTION SUPPLIES	
<i>545</i>	<i>700</i>	<i>getting inspections, fuel up, dive to lay down</i>				<i>0</i>				" X ' Steel Well Prot.	
<i>700</i>	<i>830</i>	<i>Safety meeting, dive equipment to site</i>			FOOTAGE DRILLED TO	<i>5</i>				" x ' Steel Guard Posts	
<i>830</i>	<i>1040</i>	<i>finish decomposition of wall NW-0237A</i>			SAMPLES TAKEN THIS DATE	<i>✓</i>				Flush Traffic Vault: Size	
<i>1040</i>	<i>100</i>	<i>dive to next location, set up, grant up MW-VW64A</i>			SURFACE CONDITION (CIRCLE ONE)		DIRT ASPHALT CONCRETE	DIRT ASPHALT CONCRETE	DIRT ASPHALT CONCRETE	Bags: Asphalt	
<i>100</i>	<i>130</i>	<i>lunch / pressure wall</i>			CEMENT GROUT	FROM				Bags: Concrete Mix	
<i>130</i>	<i>230</i>	<i>top off wall, drill top 3', clean up</i>				TO				Bags: Quickcrete	
<i>230</i>	<i>430</i>	<i>dive to lay down, make ready for next day</i>			BENT. GROUT	FROM				Bags: Portland Type II Cement	
<i>430</i>		<i>mob to hotel</i>				TO				Bags: Bentonite Grout	
					BENT. SEAL	FROM				Bags: Bentonite Chips-Size	
						TO				Pails: Bentonite Pellets-Size	
					SAND PACK	FROM				Bags: Sand-Grade	
						TO				Bags: Sand-Grade	
					BLANK CASING	FROM				" x 5' Casing: PVC/SS	
						TO				" x 10' Casing: PVC/SS	
					SCREEN	FROM				" x 5' Screen-Slot Size:	
						TO				" x 10' Screen-Slot Size:	
					SUMP	FROM				Bottom Caps	
						TO				Slip Cap - Size	
					GPS COORDINATES	WATER LEVEL				J. Plug - Size	
						LAT.				Bags: Bentonite Gel Powder	
						LONG.				55 Gal. Drums - 17H Rated	
						ELEV.				" Sample Liners	
					FORMATION	FROM				Visqueen Tarps 6 mil.	
						TO				Sono Tube	
						FROM					
						TO					
						FROM					
						TO					
						FROM					
						TO					
PERSONNEL EMPLOYED	EMPLOYEE'S NAME		HOURS	PER DIEM	INITIALS						
	DRILLER:	<i>Brian Hernandez</i>		<i>10</i>	<i>YES OR NO</i>	<i>B.H</i>					
	HELPER:	<i>Jairon Rios</i>		<i>0</i>	<i>YES OR NO</i>						
	HELPER:	<i>James Wolley</i>		<i>0</i>	<i>YES OR NO</i>						
CLIENT APPROVAL:											
						EQUIPMENT				DESCRIPTION	UNIT NO.
										DRILL RIG:	<i>142</i>
										PIPE TRUCK:	
										CREW TRUCK:	<i>386</i>
										STEAM CLEANER	
										COMPRESSOR:	
										BOBCAT/FORKLIFT:	<i>HERC</i>
										BACKHOE:	

## AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

**GENERAL DATA**

**Date:** 8/22/18  
**Site:** FFO, Marina, CA **Site Location:** MW-062-33-A; MW-64-19  
**AHTNA Site Manager:** Debra Lieberman **AHTNA SSHO:** Holly Dillo

**DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion):**

Other items to address as appropriate (check those discussed):

<input checked="" type="checkbox"/> Scope of day's work <input type="checkbox"/> Site SH&E Plan / Revisions <input type="checkbox"/> AHA's / PTSP's completed/reviewed? <input type="checkbox"/> Emergency SOPs (i.e. rally pt., tele #s) <input checked="" type="checkbox"/> Communications Check <input type="checkbox"/> PPE Requirements	<input type="checkbox"/> OSHA's Focus Four <input type="checkbox"/> Fall Hazards <input type="checkbox"/> Electrical Hazards <input checked="" type="checkbox"/> Struck-by Hazards <input type="checkbox"/> Caught in / between Hazards <input type="checkbox"/> Other Primary Hazards	<input type="checkbox"/> Recent near miss / injuries / lessons <input type="checkbox"/> Lifting Safety / Materials Handling <input type="checkbox"/> BBS Hazard Triggers <sup>1</sup> <input type="checkbox"/> BBS Trigger Controls <sup>2</sup> <input type="checkbox"/> Other (heat, noise, trench, confine sp)
---	---	---

**MEETING ATTENDEES: (place \* next to subcontractor safety representatives)**

NAME / COMPANY	NAME / COMPANY
<u>Andrew March / Ahtna</u>	<u>Tom Ghigliotto / Chenega &amp; BOAC</u>
<u>DON KIWLOCH / YJD</u>	<u>CHRISTIE VO / Monterey County</u>
<u>Bilal Hamudor / YJD</u>	
<u>Jana W. Day / YJD</u>	
<u>Javier Trios / YJD</u>	
<u>Geoff Van Horn, EHB</u>	
<u>Eric Van Effen COE</u>	

SUBCONTRACTOR SAFETY REPs COMMENTS?

**DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)**

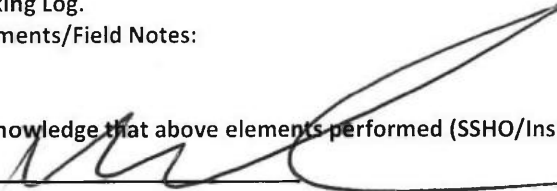
Y	N	N	A	Inspection Item	Y	N	N	A	Inspection Item	Y	N	N	A	INSPECTION ITEM OTHER (List)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Postings/Plans (APP) readily avail.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Signs (No Smoking, Site Control)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Designated Parking / Traffic Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PPE(head/eye/foot/hand/ear/body)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor Safety Rep Involved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hi-Vis, PFD's, Ring Buoys, Etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor / Task AHA's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excav./Trench/Spoils Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor Equip. Inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confined Spaces Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Equip. (PFE's, FA Kits)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Physical Barriers / Covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eye Wash / Shower	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fall Hazards (Protected)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Communications Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ladders	<b>ISSUES TO FOLLOW-UP</b> (Immediately Correct Deficiencies if able)				
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sanitation (Toilets, Hand Wash)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power & Portable Hand Tools					
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water & Shade, Non-Pot Identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Company Field Equipment					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities Identified / Controlled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarms / Seatbelts					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Material Storage Proper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GFCI's, Whip-Checks, Slings					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lay Down Areas Orderly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed Rebar Protected					
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Waste Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety / Health Behaviors:					
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Spill Control (Pads, Snakes, Drums)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Competent / Qualified Persons					

Immediately Correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

Comments/Field Notes:

I acknowledge that above elements performed (SSHO/Inspector signature):

Date:


  
8/22/18

<sup>1</sup> BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)  
<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).



## PROJECT FIELD REPORT

GENERAL			
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/23/2018
3) Program Manager	Derek Lieberman	4) Report No.:	D-3
5) Project Manager:	Derek Lieberman	6) SSHO (Designee):	Holly Dillon
7) Superintendent:	Mark Fidler	8) QC Manager:	Andrew Mauck
9) Weather:	Overcast	10) Temperature:	60-70

SUMMARY	
11) Work Performed:	Decommission Monitoring Wells MW-02-12-180 and MW-BW-29-180.
12) Project Issues:	None
13) Unresolved Issues:	None

CONTRACTOR PERSONNEL		
14) Prime Contractor and Subcontractor Onsite:		
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>
Andrew Mauck	Ahtna	Field Technician / QC Manager
Holly Dillon	Ahtna	SSHO
Don Kinloch	Yellow Jacket	Project Manager
Brian Hernandez	Yellow Jacket	Driller
Javier Rios	Yellow Jacket	Helper
James Wolfley	Yellow Jacket	Helper

GOVERNMENT PERSONNEL			
15) Government Personnel Onsite:			
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>	<b>Arrive/Depart (Day)</b>
Bruce Van Etten	USACE	Oversight	0700/1630
Tom Ghigliotto	Chenega	Oversight	

VISITING PERSONNEL			
16) Visitors Onsite:			
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>	<b>Arrive/Depart (Day)</b>
Roger Van Horn	Monterey County	Environmental Inspector	0740/1050
Christie Vo	Monterey County	Environmental Inspector	1300/1500
Matthew Johnson	Denise Duffy & Associates	Sr. Env. Scientist	0700/1140
Max Hofmarcher	Denise Duffy & Associates	Assistant Env. Scientist	0700/1700

DETAIL
17) Attachments: 1. Field Notes 2. Well Destruction Form 3. Follow-Up Phase Inspection 4. Yellow Jacket Daily Drill Report 5. Safety Tailgate 6. Jobsite Safety Inspection Checklist 7. Hot Work Permit
25) Report Submitted by: Andrew Mauck

# Ahtna

## PROJECT FIELD REPORT

**Photos:**



Description: Denise Duffy & Associates Placing Flags out to set the boundaries.



Description: Sand Mats are placed down to protect the bank and the surrounding fauna.

# Ahtna

## PROJECT FIELD REPORT



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe.



Description: Pulling the MW-02-12-180 Vault up to be cut.

# Ahtna

## PROJECT FIELD REPORT



Description: Concrete Cap at 1' Bgs at MW-02-12-180.



Description: MW-02-12-180 after Well Decommission

# Ahtna

## PROJECT FIELD REPORT



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-29-180.



Description: Breaking apart the surrounding Concrete at MW-BW-29-180.



# Ahtna

## PROJECT FIELD REPORT



Description: Concrete Cap at 1' Bgs at MW-BW-29-180.



Description: MW-BW-29-180 after Well Decommission.

- 0630 met Demo crew @ our Landfill
- the the Safety
- 0645 left our for beach with
- 0700 met DDA (Matt + Max), ALOE (Bruce Van Fthen) @ the gate
- 0715 - Basin setup on well
  - DDA Marked Area
  - used sand Mats to get equipment up hillside
  - worked on Plastic
- 0740 - Monterey County (Reset van Horn inside)
- 0830 - Basin Dropping Fill pipe in Monitors with MW-02-12-180
  - DTW - 57.06
  - TO 128.69
- 0845 - Basin pumps 1st batch of 5% bentonite
  - 6 Bags (47 lbs) of Portland Cement
  - 33 gal of water
- 0857 - Basin pumps 2nd batch of 5% bentonite
  - 6 Bags (47 lbs) of Portland Cement
  - 33 gal of water
- 0905 - water in well casing combines with portland cement and rises over top of casing, will pressurize 15 psi to force portland into formation, hopefully prevent any water entering
- 0915 - Top casing off
- 0923 - Apply pressure 15 psi / 15 min
- 0928 - Finish pressure
- 0930 - Top off pipe
  - 20 Gal of grout
  - 3 Bags of (47 lbs) of Portland Cement 5% of bentonite
  - 15 gal of water
- 0950 - Basin 15 psi / 15 min
- 1005 - End Pressure Test
- 1013 - Basin Breaks up concrete pad & remove slope pipe
- 1050 - End Breaks up concrete removal of slope pipe, cut pipe 71' below surface, mushroom cap w/ concrete
- 1051 - clean up
- 1140 - De Mohr from MW-02-12-180
  - To landfill to drop trash & supply
- 1210 - Leave landfill to park for lunch
- 1320 - Arrive @ FOWAN
- 1540 - Setup @ MW-BW-29-180
  - 158.23 DTW
  - 220.80 TO
  - Install Trimmer pipe

Description: Decontamination MW-02-12-180  
& MW-02-29-180

Page 2 of 2

Date 8/23/18

Prepared By: Portland Cement

- 1405 Begin Pumping 1st Batch of Portland Cement 95% / 5% Bentonite  
- 6 Bags (47lbs) of Portland Cement  
- 33 gal of water
- 1415 Begin Pumping 2nd Batch of Portland Cement 95% / 5% Bentonite  
- 6 Bags (47lbs) of Portland Cement  
- 33 gal of water
- 1418 - Monterey County Health (Christina Va)
- 1430 Begin Pumping 3rd Batch of Portland Cement 95% / 5% Bentonite  
- 6 Bags (47lbs) of Portland Cement  
- 33 gal of water
- 1443 Begin Pumping 4th Batch of Portland Cement 95% / 5% Bentonite  
- 6 Bags (47lbs) of Portland Cement  
- 33 gal of water
- 1454 Begin Pumping 5th Batch of Portland Cement 95% / 5% Bentonite  
- 7 Bags (47lbs) of Portland Cement  
- 33 gal of water
- 1505 Begin Pump Test 15 psc / 15 min
- 1520 End Pump Test
- 1530 Hot work permit issued to trim stone pipe to  
origin
- 1535 - refilled w/ cement mix
- 1537 - Begin pressure Test 15 psc / 15 min
- 1552 - End pressure Test
- 1553 - Begin backfill concrete & removal of stand pipe
- 1630 - Final Destruction of monument, 9" over pipe, and seal at  
Casing.
- 1631 - Cleanup
- 1715 - Demobing off FOWL
- 1740 - @ landfill prep for tomorrow
- 1800 - leave landfill for day

*[Handwritten signature]*  
8/23/18

## Well Destruction Form

Location: Marina Project: Fort Ord Event: Well Decommissioning <sup>2015</sup> Completed by: Andrew Maule Date: 8/23/15

Grouting information	Well/boring information					
Well/boring ID	MW-02-12-150	MW-BW-29-150				
Date	8/23/15	8/23/15				
Site	2/12	OUCTP				
Diameter	4"	5"				
Total depth	128.69	220.8				
Estimate of grout volume	90	221				
Amount of water (gallons)	81	165				
Amount of cement (bags)	15	31				
Amount of bentonite (lbs)	35	72.85				
Grout weight (lbs/gallon)	12.87	12.91				
Grout volume used (gallons)	110	225				

Volume calculation formula: **Gal x Depth(ft) = Estimated grout volume**

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9

**CONSTRUCTION FOLLOW-UP PHASE INSPECTION**

Contract No.: W91238-14-C-0048  
Task No.: 10.9  
Location/Project: Monitoring Well Decommissioning  
Former Fort Ord, Marina, CA

Date: 8/23/2018

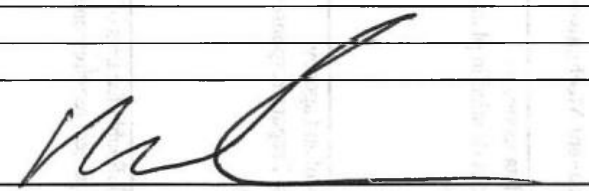
Project/Area of Inspection: Monitoring Well Decommissioning @ Former Fort  
Ord, Marina, CA / MW-02-12-180, MW-BW-29-180

A. Definable Features of Work:




Status of Inspection:

MW-02-12-180, MW-BW-29-180; Well decommissioning work  
was completed according to section 5.1 of the July 2018  
Final Revision Monitoring Well Decommissioning Work Plan  
at Former Fort Ord, CA.

No disruptions to local businesses, residents, plants, or  
wildlife was noticed.

  
Quality Control Manager

### FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	 8/23/15
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	 8/23/15
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	 8/23/15

**DAILY DRILL REPORT**

CLIENT: **^ Antuq**

PAGE **1** OF **1**



**YELLOW JACKET DRILLING SERVICES**

DRILLING LOCATION: **Maricao C9**

DATE: **8-23-18**

YJD JOB NO: **18-0803CA**

RIG #: **147**

FROM	TO	DESCRIPTION OF ACTIVITIES
530	630	prep inspection, drive to site
630	700	Safety meeting
700	1200	drive to site, set up, grout up pressure, destroy monument with ballads clean up
1200	1230	drive to next site
1230	100	lunch
100	500	setup, grout up, pressure, destroy monument clean up
500	600	drive to laydown, prep for next day
600	700	drive to hotel
700	730	buy materials

HOLE #		Nw-0212180	Nw-3w21100
FOOTAGE DRILLED FROM		0	0
FOOTAGE DRILLED TO		1	1
SAMPLES TAKEN THIS DATE		-	-
SURFACE CONDITION (CIRCLE ONE)	DIRT		
	ASPHALT		
	CONCRETE		
CEMENT GROUT	FROM		
	TO		
BENT. GROUT	FROM		
	TO		
BENT. SEAL	FROM		
	TO		
SAND PACK	FROM		
	TO		
BLANK CASING	FROM		
	TO		
SCREEN	FROM		
	TO		
SUMP	FROM		
	TO		

QTY	CONSTRUCTION SUPPLIES
	" X Steel Well Prot.
	" x Steel Guard Posts
	Flush Traffic Vault: Size _____
	Bags: Asphalt
	Bags: Concrete Mix
<b>3</b>	Bags: Quickcrete
<b>39</b>	Bags: Portland Type II Cement
	Bags: Bentonite Grout
	Bags: Bentonite Chips-Size _____
	Pails: Bentonite Pellets-Size _____
	Bags: Sand-Grade _____
	Bags: Sand-Grade _____
	" x 5' Casing: PVC/SS _____
	" x 10' Casing: PVC/SS _____
	" x 5' Screen-Slot Size: _____
	" x 10' Screen-Slot Size: _____
	Bottom Caps
	Slip Cap - Size _____
	J. Plug - Size _____
	Bags: Bentonite Gel Powder
	55 Gal. Drums - 17H Rated
	Sample Liners
<b>1</b>	Visqueen Tarps 6 ml.
	Sono Tube

PERSONNEL EMPLOYED	EMPLOYEE'S NAME	HOURS	PER DIEM	INITIALS	
	DRILLER:	<b>Brian Hernandez</b>	<b>14</b>	<input checked="" type="checkbox"/> YES OR NO	<b>BH</b>
	HELPER:	<b>Javier Rios</b>	<b>14</b>	<input checked="" type="checkbox"/> YES OR NO	
	HELPER:	<b>James Wolfley</b>	<b>14</b>	<input checked="" type="checkbox"/> YES OR NO	
	HELPER:			YES OR NO	

GPS COORDINATES	WATER LEVEL		
	LAT.		
	LONG.		
	ELEV.		

FORMATION	FROM	TO		
	FROM	TO		
	FROM	TO		
	FROM	TO		
	FROM	TO		

EQUIPMENT	DESCRIPTION	UNIT NO.
	DRILL RIG:	<b>147</b>
	PIPE TRUCK:	
	CREW TRUCK:	<b>396</b>
	STEAM CLEANER	
	COMPRESSOR:	<b>Herc</b>
	BOBCAT/FORKLIFT:	
	BACKHOE:	

CLIENT APPROVAL:

## AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

**GENERAL DATA**

Date: 08/23/18  
 Site: FFO, Marina, CA Site Location: MW-02-12-180; MW-BW-29-180  
 AHTNA Site Manager: Debbie Lieberman AHTNA SSHO: Holly Dillon

**DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion):**
**Other items to address as appropriate (check those discussed):**

<input checked="" type="checkbox"/> Scope of day's work <input type="checkbox"/> Site SH&E Plan / Revisions <input type="checkbox"/> AHA's / PTSP's completed/reviewed? <input type="checkbox"/> Emergency SOPs (i.e. rally pt., tele #s) <input checked="" type="checkbox"/> Communications Check <input checked="" type="checkbox"/> PPE Requirements	<input type="checkbox"/> OSHA's Focus Four <input type="checkbox"/> Fall Hazards <input type="checkbox"/> Electrical Hazards <input checked="" type="checkbox"/> Struck-by Hazards <input checked="" type="checkbox"/> Caught in / between Hazards <input checked="" type="checkbox"/> Other Primary Hazards	<input type="checkbox"/> Recent near miss / injuries / lessons <input type="checkbox"/> Lifting Safety / Materials Handling <input type="checkbox"/> BBS Hazard Triggers <sup>1</sup> <input type="checkbox"/> BBS Trigger Controls <sup>2</sup> <input checked="" type="checkbox"/> Other (heat, noise, trench, confine sp)
--	---	--

**MEETING ATTENDEES: (place \* next to subcontractor safety representatives)**

NAME / COMPANY	NAME / COMPANY
<u>Andrew M... / AHTNA</u>	<u>*K... / EOE</u>
<u>DON KINLOCH / YJD</u>	<u>Holly Dillon / Ahtna</u>
<u>Javier Rios / YJD</u>	<u>Tom Ellis / Chewco</u>
<u>James Wolfley / YJD</u>	<u>Christie Vo... / Monterey County</u>
<u>Brian Handwerker - YJD</u>	
<u>... / IDDA</u>	
<u>Max ...</u>	

SUBCONTRACTOR SAFETY REPs COMMENTS?

**DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)**

Y	N	N	Inspection Item	Y	N	N	Inspection Item	Y	N	N	INSPECTION ITEM OTHER (List)
		A				A				A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Postings/Plans (APP) readily avail.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Signs (No Smoking, Site Control)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Designated Parking / Traffic Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PPE(head/eye/foot/hand/ear/body)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor Safety Rep Involved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hi-Vis, PFD's, Ring Buoys, Etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor / Task AHA's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excav./Trench/Spoils Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor Equip. Inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confined Spaces Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Equip. (PFE's, FA Kits)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Physical Barriers / Covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eye Wash / Shower	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fall Hazards (Protected)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Communications Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ladders	<b>ISSUES TO FOLLOW-UP</b> (Immediately Correct Deficiencies if able)			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sanitation (Toilets, Hand Wash)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power & Portable Hand Tools				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water & Shade, Non-Pot Identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Company Field Equipment				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities Identified / Controlled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarms / Seatbelts				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Material Storage Proper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GFCI's, Whip-Checks, Slings				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lay Down Areas Orderly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed Rebar Protected				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waste Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety / Health Behaviors:				
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Spill Control (Pads, Snakes, Drums)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Competent / Qualified Persons				

Immediately Correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

Comments/Field Notes:

I acknowledge that above elements performed (SSHO/Inspector signature):

Date:

08/23/18

<sup>1</sup> BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)  
<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).



# Jobsite Safety Inspection Checklist

Project Site: Fort Ord - OU CTP Date: 8-23-18

Activities Onsite: Decommission MH-BW 201-180

Project Manager: Derek Leiberman Site Supervisor: Andrew Mawck

Weather: partly sunny 60's Site SSHO: Holby Dillon

Inspection Criteria	Yes	No	N/A	Comments
<b>A. General</b>				
1. Emergency phone numbers and procedures available?	✓			
2. First aid supplies readily available?	✓			
3. First aid supplies adequate for job manpower?	✓			
4. Health and Safety Board posted and all materials present?	✓			
5. Bathroom and washing facilities available within 10 min of site?	✓			
6. Drinking water available 2 gallons per employee?	✓			
7. Shade available for >80°F within 5 min walk?			✓	
8. Daily safety tailgate meeting performed?	✓			
9. Site Safety Plan (Accident Prevention Plan) available?	✓			
10. Are Safety Data Sheets (SDSs) available onsite?	✓			
11. Safety exclusion zone (EZ) setup onsite?			✓	
12. Pedestrians and traffic protected from onsite activities?			✓	
13. Silica exposure and controls in place?			✓	
14. Lead exposure and controls in place?			✓	
15. Confined space procedures in place?			✓	
16. Asbestos exposure and controls in place?			✓	
17. Weather conditions monitored and safe for activities?	✓			
<b>B. Personal Protective Equipment</b>				
1. Hard hats worn by all personnel in work areas?	✓			
2. Eye protection worn as required?	✓			
3. Hearing protection worn as required?	✓			
4. Safety vests worn as required?	✓			
5. Safety boots worn as required?	✓			
6. Respiratory protection worn as required?	✓			Groot mixer
7. Fall protection worn as required?			✓	
8. Workers dressed properly for the job?	✓			

# Jobsite Safety Inspection Checklist

Inspection Criteria	Yes	No	N/A	Comments
9. Personal protective equipment in good condition?	✓			
<b>C. Housekeeping</b>				
1. Walkways and stairs kept clear of material and debris?			✓	
2. Cords and hoses strung to prevent trip and fall hazard?	✓			
3. Are liquid spills cleaned up immediately?	✓			
4. Restrooms and eating areas clean?			✓	
5. Work areas clean and orderly?	✓			
6. Site trailers clean and orderly?			✓	
7. Spill kit and garbage bags available onsite?	✓			
8. Trash, scrap, and debris picked up and disposed of?	✓			
<b>D. Fire Protection</b>				
1. Fire-fighting equipment well marked and accessible?	✓			
2. Fire extinguishers inspected and charged?	✓			
3. Smoking prohibited where flammables are located?	✓			
4. Flammables stored and handled in approved containers?			✓	
<b>E. Material Handling and Storage</b>				
1. Materials stored neatly in stacks or piles?	✓			
2. Cylindrical materials racked or cribbed and blocked?	✓			
3. Loose materials containerized or palletized?	✓			
4. Space maintained around stored materials?	✓			
5. Storage areas kept clear of scrap, debris, and trash?	✓			
<b>F. Tools</b>			✓	
1. Power tools have guards in place?				
2. Power tools either grounded or double insulated?				
3. Power tool cords and plugs in good condition?				
4. Broken tools repaired or replaced as needed?				
<b>G. Welding and Cutting</b>			✓	
1. Gas cylinders stored upright and secured?				
2. Oxygen cylinders segregated from fuel gas cylinders?				
3. Full cylinders segregated from empty cylinders?				
4. Caps secured on all cylinders not in use?				
5. Welding leads in good condition?				
6. Welding screens erected in high flash areas?				
7. Welding blankets used to protect materials/equipment?				

## Jobsite Safety Inspection Checklist

Inspection Criteria	Yes	No	N/A	Comments
8. Fire watches posted as needed?				
9. Proper permits issued (as required)?				
10. Fire extinguishers kept close to hot work areas?				
<b>H. Electrical</b>			✓	
1. Extension cords heavy duty, 3-wire type?				
2. Temporary lights equipped with bulb guards?				
3. Sufficient lighting to work and move safely?				
4. Lockouts used to de-energize operational systems?				
5. Arc-Flash protection in place?				
<b>I. Ladders</b>			✓	
1. Straight ladders secured at top landing?				
2. Straight ladders extend 36" above top landing?				
3. Straight ladders have feet or blocked at bottom?				
4. Straight ladders set up with a 4 to 1 slope?				
5. Top step of stepladders not used as a step?				
6. Climbing the back of stepladders prohibited?				
7. Workers use the proper height ladder for the job?				
<b>J. Scaffolds and Manlifts</b>			✓	
1. All scaffold parts and hardware used as required?				
2. All scaffold hardware and parts in good condition?				
3. Scaffolds fully planked?				
4. Scaffolds have guardrails, midrails, and toe boards?				
5. Wheels on rolling scaffolds locked during scaffold use?				
6. Manlifts in good operating condition?				
7. Only trained employees allowed to operate manlifts?				
8. Outriggers extended when manlifts are in use?				
9. Workers prohibited from exiting raised manlifts?				
10. Workers only allowed to work from floor of basket?				
11. Workers required to tie-off while basket is raised?				
<b>K. Excavation and Trenching</b>			✓	
1. Excavations 5' or deeper shored, sloped, or boxed?				
2. Workers stay within shored area?				
3. Excavated spoil stored at least 2 feet from trench edge?				
4. Barricades placed on all open sides at end of shift?				

# Jobsite Safety Inspection Checklist

Inspection Criteria	Yes	No	N/A	Comments
5. Ladders placed every 50' for entry and egress?				
6. Excavations de-watered as needed?				
7. Backfill placed as soon as possible?				
8. Underground utilities identified prior to excavation?				
9. Dust control in place?				
<b>L. Employee Communications</b>				
1. Do foremen communicate with their crews on job methods?	✓			
2. Do foremen react to employee safety recommendations?	✓			
3. Do foremen address unsafe actions and conditions?	✓			
4. Are safety meetings held weekly with all employees?	✓			
<b>M. Vehicles and Traffic Control</b>				
1. Is there a designated place for site vehicles?	✓			
2. Is fueling conducted onsite?		✓		
3. Traffic cones placed appropriately around jobsite activities?			✓	
4. Gasoline contained in appropriate containers?			✓	
5. Spotters used for equipment mobilization?	✓			
<b>N. Drilling</b>				
1. Does the drill rig have operable emergency stop switches?	✓			
2. Is there a soil bin, soil hopper, and forklift onsite?			✓	
3. Is the wench used to lift auger sections?			✓	
4. Are pinch/rotating point hazards identified?	✓			
5. Is the forklift operator performing operations safely?	✓		✓	
6. Is the drill rig operator performing operations safely?	✓			
7. Is the helper performing activities safely?	✓			
8. Minimum 10 feet distance from overhead high voltage lines?	✓			
9. High winds present (>30 mph)?		✓		
<b>O. Safe Behavior</b>				
1. Does everyone have stop work authority?	✓			
2. Are all onsite personnel performing work safely?	✓			
3. Are all onsite personnel attending the safety tailgate meetings?	✓			
4. Does anyone onsite have any safety concerns?	✓			
<b>P. Additional Items, Deficiencies, or Corrective Actions</b>				
1.				
2.				

# Jobsite Safety Inspection Checklist

Inspection Criteria	Yes	No	N/A	Comments
3.				
4.				

**Notes / Comments / Sketches / Pictures**

Inspection Completed By:

Holly Dillon

Signature:

[Handwritten Signature]



**HOT WORK PERMIT**

Department Ahtna SW Project Fort-202

This will permit cutting stone pipe Yellowjacket to perform hot work  
(identify craftsperson)

Work description: MW-BW-29-180, MW-BW-62-180, MW-BW-20-A, MW-BW-22-A  
(identify job to be done and ignition source)

On Stone pipe cut, Bolt cut At MW-BW-62-A  
(identify equipment) (identify area)

Date of work 8/23/18 Date permit expires 8/29/18

From 0800 am/pm To 5 am/pm

Extend to \_\_\_\_\_ am/pm Date \_\_\_\_\_ By \_\_\_\_\_  
Extend to \_\_\_\_\_ am/pm Date \_\_\_\_\_ By \_\_\_\_\_

Equipment last contained \_\_\_\_\_

Material Safety Data Sheet available from signer:  Yes  No

**Equipment Condition** (check/write in equipment conditions that apply)

Yes	No	N/A		Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Out of service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electricity locked out
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	De-pressured	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Driver blocked
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drained	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nitrogen purged
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Empty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Steamed out
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Valves closed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water washed
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lines blinded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vents open
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lined uncoupled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bleeders open
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overall equipment inspected and safe to work				



Comments: \_\_\_\_\_

**Gas Tests Required**

Type	Time	% PPM	INST #	Tester

**Fire Protection** (check/write in fire protection required)

- |   |   |
|---|---|
| <input type="checkbox"/> Sewers/drains covered                                  | <input type="checkbox"/> Compressed gas cylinders secured                               |
| <input type="checkbox"/> Spark containment                                      | <input type="checkbox"/> LEL monitor  |
| <input checked="" type="checkbox"/> Fire extinguisher                           | <input checked="" type="checkbox"/> Area wet down                                       |
| <input type="checkbox"/> No bleeding, venting or sampling in area               | <input type="checkbox"/> Charged fire hose  |
| <input type="checkbox"/> Ground welding machine directly to work                | <input type="checkbox"/> Notification of others in area                                 |
| <input type="checkbox"/> Stop hot work if hydrocarbon is detected               | <input type="checkbox"/> Ventilation provided (if confined or poor natural ventilation) |
| <input type="checkbox"/> Stop hot work and leave area if emergency alarm sounds |   |

Comments: \_\_\_\_\_

**Personal Protection** (check/write in personal protection required)

- |   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Fire watch    | <input type="checkbox"/> Impervious gloves                | Other (specify)<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____ |
| <input type="checkbox"/> Area barricaded          | <input type="checkbox"/> Impervious suit                  |   |
| <input type="checkbox"/> Dust respirator          | <input type="checkbox"/> Disposable suit                  |   |
| <input type="checkbox"/> Weld-fume respirator     | <input type="checkbox"/> Face shield                      |   |
| <input type="checkbox"/> Acid gas respirator      | <input checked="" type="checkbox"/> Goggles               |   |
| <input type="checkbox"/> Supplied air respirator  | <input checked="" type="checkbox"/> Boots                 |   |
| <input type="checkbox"/> Eye-body flushing water  | <input type="checkbox"/> Hood                             |   |
| <input type="checkbox"/> H <sub>2</sub> S monitor | <input checked="" type="checkbox"/> Ear plugs/muffs       |   |
| <input type="checkbox"/> Warning signs/lights     | <input type="checkbox"/> Fall protection harness/lifeline |   |

**Other Precautions** (write in other precautions or equipment required)

\_\_\_\_\_



Hot Work is authorized:  Yes  No

	Yes	No	By
Welding check-off completed	<input type="checkbox"/>	<input type="checkbox"/>	_____
Pre-tap check-off completed	<input type="checkbox"/>	<input type="checkbox"/>	_____

Issued by: Holly Dillon Title: SSAO

Return of permit required:  Yes  No  
Returned by \_\_\_\_\_ (employee) at \_\_\_\_\_ am/pm Date \_\_\_\_\_

Job completed:  Yes  No

Extension of point required:  Yes  No





## PROJECT FIELD REPORT

GENERAL			
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/24/2018
3) Program Manager	Derek Lieberman	4) Report No.:	D-4
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck
9) Weather:	Overcast	10) Temperature:	60-70

SUMMARY	
11) Work Performed:	Decommissioned Soil Vapor Extraction Wells MW-BW-68-A, MW-BW-69-A, and MW-BW-70-A. Decommission Monitoring Well MW-BW-62-A.
12) Project Issues:	None
13) Unresolved Issues:	Did not Finish Decommissioning MW-BW-62-A

CONTRACTOR PERSONNEL		
14) Prime Contractor and Subcontractor Onsite:		
Name	Company	Position/Title
Andrew Mauck	Ahtna	Field Technician / QC Manager
Brian Hernandez	Yellow Jacket	Driller
Javier Rios	Yellow Jacket	Helper
James Wolfley	Yellow Jacket	Helper
Holly Dillon	Ahtna	SSHO
Brittan Carlson	Ahtna	Environmental Scientist

GOVERNMENT PERSONNEL			
15) Government Personnel Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)
Bruce Van Etten	USACE	Oversight	0740/1730

VISITING PERSONNEL			
16) Visitors Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)
Roger Van Horn	Monterey County	Environmental Inspector	1000/1130

DETAIL
17) Attachments:
1. Field Notes
2. Well Destruction Form
3. Follow-Up Phase Inspection
4. Yellow Jacket Daily Drill Report
5. Safety Tailgate
18) Report Submitted by: Andrew Mauck

# Ahtna

## PROJECT FIELD REPORT

### 19) Photos:



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-68-A.



Description: Monitoring Well casing is drilled down 5' at MW-BW-68-A.

# Ahtna

## PROJECT FIELD REPORT



Description: MW-BW-68-A after Well Decommission



Description: 95% Portland Cement / 5% Bentonite is mixed at MW-BW-69-A.

# Ahtna

## PROJECT FIELD REPORT



Description: Using a post hole digger to ensure digging to 5' bgs.



Description: MW-BW-69-A after Well Decommissioning.

# Ahtna

## PROJECT FIELD REPORT



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-70-A.



Description: 4" PVC Well is filled with 95% Portland Cement / 5% Bentonite mix before pressurizing the casing at 15 psi for 15 min at MW-BW-70-A.

# Ahtna

## PROJECT FIELD REPORT



Description: Monitoring Well casing is drilled down 5' at MW-BW-70-A.



Description: A concrete cap is placed on top of the casing at 5' bgs at MW-BW-70-A.

# Ahtna

## PROJECT FIELD REPORT



Description: MW-BW-70-A after Well Decommission.



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-62-A.

- 0630 Arrive @ Ourland Hill
  - Load Supplies
  - Tailgate Safety
- 0730 Leave our Landfill for MW-BW-68/69-A on Lexington Ct
- 0740 Arrive @ Lexington Ct
  - Bruce Van Ertend (ACWE) onsite
- 0800 - Onsite MW-BW-69-A
  - 4" 91' - 64' of Grout
- 1807 - 40 Measured 90.7  
DTW Measurement 89.7
- Setup
- 0834 - Begin Pumping 1st Batch of 95% Portland Cement 5% Bentonite
  - 6 Bags (47 lbs) of Portland Cement
  - 33 gal of water
- 0850 - Begin Pumping 2nd Batch of 95% Portland Cement 5% Bentonite
  - 6 Bags (47 lbs) of Portland Cement
  - 33 gal of water
- 0905 - Begin Pumping 3rd Batch of 95% Portland Cement 5% Bentonite
  - 6 Bags (47 lbs/each) of Portland Cement
  - 33 Gal of water
- 0917 - Begin Pumping 4th Batch of 95% Portland Cement 5% Bentonite
  - 3 Bags 47 lbs/each
  - 15 Gal of water
  - 0909 @ 7-9' used 7 gal & 1.0 Bags of Grout & 5 gal of water
- 0918 - Holly Dillon (Alaska GS/TO) onsite
- 0922 - Begin Pressure Test 15 min / 1.5 min
- 0937 - End Pressure Test - Dropped 0.4"
- 0938 - Attach Hose
- 0944 - Begin Pumping down 5'
- 1005 - Place Concrete Cap
- 1009 - Cover Hole
- 1012 - Clean up
- 1020 - MOVE TO MW-BW-68-A
- 1030 - onsite MW-BW-68-A  
DTW - 89.64  
TO - 89.9
- 1057 - Begin Pumping 1st Batch of 95% Portland Cement 5% Bentonite
  - 6 Bags (47 lbs/each)
  - 38 gal of water / 40 Gal mixture
- 1107 - Begin Pumping 2nd Batch of 95% Portland Cement 5% Bentonite
  - 6 Bags (47 lbs/each)
  - 38 gal of water
- 1119 - Begin Pumping 3rd Batch of 95% Portland Cement 5% Bentonite
  - 6 Bags (47 lbs/each)
  - 35 gal of water (16' water)



- 1130 Basin Pumping 1st Batch of 95% Portland Cement 5% Bentonite  
- 1 Bag (47lb)  
- 12 gal of water
- 1140 Basin Pressure Test 15 PSI / 15 min
- 1157 Restart pressure Test
- 1212 Pressure Test ended passed
- 1214 Hook up drill / drill to 5'
- 1214 mixed left over portland w/ Quikrete poured  
on top of casing
- 1222 Cover w/ sand to grade
- 1235 MOVE to mw-BW-70-A
- 1300 Lunch
- 1340 @ our landfill resupplying
- 1425 arrived @ MW-BW-70-A
- 1430 TD 91.5  
DTW 91.2
- 1444 Basin Pumping 1st Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags (47lb/each)  
- 33 gal water
- 1456 Basin Pumping 2nd Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags (47lb/each)  
- 33 gal water
- 1505 Basin Pumping 3rd Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags, 47lb/each  
- 33 gal water
- 1509 Current depth to cement/bentonite is 10'
- 1520 Basin Pumping 4th Batch of 95% Portland Cement 5% Bentonite  
- 3 Bags 47lb/each  
- 17 gal water ~ 10 gal
- 1527 Top of casing
- 1530 Basin Pressure Test 15 PSI / 15 min
- 1545 End pressure Test
- 1550 Drill Down 5' Through casing
- 1556 Place 1 bag of Quikrete in hole
- 1554 Cover Hole
- 1600 clean up
- 1605 MOVE to mw-BW-62-A
- 1610 DTW mw-BW-62-A 103.65  
TD mw-BW-62-A 126.0
- 1630 Basin Pumping 1st Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags (47lb/each)  
- 33 gal water
- 1637 Basin Pumping 2nd Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags (47lb/each)  
- 33 gal water

Description: MW-BW-68-A, MW-BW-69-A,  
MW-BW-70-A, MW-BW-62-A  
Well Decommission

Page 3 of 3

Date 8/24/18

Prepared By: Andrew Maule

- 1646 Basin Pumping 3rd Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags (47 lbs each)  
- 33 gal water
- 1654 Basin Pumping 4th Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags (47 lbs each)  
- 33 gal water
- 1703 Basin Pumping 5th Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags 47 lb bags each  
- 33 gal water
- 1707 Basin Pumping 6th Batch of 95% Portland Cement 5% Bentonite  
- 6 Bags 47 lb bags each  
- 17 gal water
- 1716 Basin Pumping 7th Batch of 95% Portland Cement 5% Bentonite  
- 33 gal water  
- 6 Bags of (47 lbs each)
- 1720 - out of water - still need another 40+'. will finish 1st thing tomorrow
- 1721 - Clear up.
- 1730 - Bruce Now Etten off site
- 1740 - Moved equipment to landfill. Left drill rig on top of G
- 1750 - @ landfill
- 1800 - Let's Landfill
- End of day

8/24/18

## Well Destruction Form

Location: Marina Project: Fort Ord Event: Well Decommissioning <sup>2014</sup> Completed by: A. Manick Date: 8/24/14

Grouting information	Well/boring information				
Well/boring ID	MW-BW-69-A	MW-BW-68-A	MW-BW-70-A	MW-BW-62-A	
Date	8/24/14	8/24/14	8/24/14	8/24/14	
Site	OUCTP	OUCTP	OUCTP	OUCTP	
Diameter	4"	4"	4"	5"	
Total depth	90.7	89.9	91.5	126'	
Estimate of grout volume	64 gal	63 gal	64.05	126 gal	
Amount of water (gallons)	104 gal	112 gal	109 Gal	230	
Amount of cement (bags)	19 Bags	19 Bags	19 Bags	48 Bags	
Amount of bentonite (lbs)	45 lbs	45 lbs	45 lbs	112.8 lbs	
Grout weight (lbs/gallon)	12.7 <sup>14.6</sup> lb/gal	12.73 <sup>14.6</sup> lb/gal	12.74 <sup>14.6</sup> lb/gal	12 <sup>(11.97)</sup> lbs/gal	
Grout volume used (gallons)	142 gal	147 gal	145 Gal	358 Gal	

D<sub>tw</sub>

89.7
89.6
91.2
103.68  
 Volume calculation formula: Gal x Depth(ft) = Estimated grout volume

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9

CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: W91238-14-C-0045

Date: 8/24/2018

Task No.: 10.9

Location/Project: Monitoring Well Decommissioning  
Former Fort Ord, Marina, CA

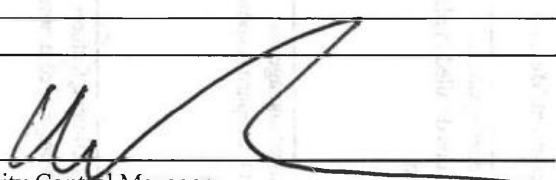
Project/Area of Inspection: Monitoring Well Decommissioning @ Former Fort Ord, Marina, CA, MW-BW-68-A, MW-BW-69-A, MW-BW-70-A, MW-BW-62-A

A. Definable Features of Work:

Status of Inspection:

MW-BW-68-A, MW-BW-69-A, MW-BW-70-A, MW-BW-62-A;  
Well decommissioning work was completed according to Section 5.1 of the July 2018 Final Revised Monitoring Well Decommissioning Work Plan @ Former Fort Ord, CA.

No disruptions to local businesses or residents was noticed.

  
Quality Control Manager

**FOLLOW-UP PHASE INSPECTION CHECKLIST**

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	<p align="center"><i>9/24/18</i></p> <p align="center"><i>PM</i></p>
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	<p align="center"><i>PM</i></p> <p align="center"><i>9/24/18</i></p>
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	<p align="center"><i>PM</i></p> <p align="center"><i>9/24/18</i></p>

**DAILY DRILL REPORT**

CLIENT: *Awing*

PAGE *1* OF *1*



**YELLOW JACKET DRILLING SERVICES**

DRILLING LOCATION: *Mining CA*

DATE: *8-24-18*

YJD JOB NO: *18-0803 CA*

RIG #: *142*

FROM	TO	DESCRIPTION OF ACTIVITIES	HOLE #	FOOTAGE DRILLED FROM			QTY	CONSTRUCTION SUPPLIES		
530	630	prep lip inspections, drive to site		0	0	0		" X ' Steel Well Prot.		
630	700	load materials		5'	5'	5'		" x ' Steel Guard Posts		
700	1000	drive to location, set up, grout up, pressure test, drill well to 5'						Flush Traffic Vault: Size _____		
1000	100	move to next location, set up, grout up, pressure test, destroy well to 5', move to next location						Bags: Asphalt		
100	130	Lunch						Bags: Concrete Mix		
130	330	set up, grout up, pressure test, destroy 5'						Bags: Quickcrete		
330	530	move to next location, set up, grout to 45' run out off water, clean up HW - BW						Bags: Portland Type II Cement		
530	600	move equipment to lay down						Bags: Bentonite Grout		
600	715	drive to hotel						Bags: Bentonite Chips-Size _____		
								Pails: Bentonite Pellets-Size _____		
								Bags: Sand-Grade _____		
								Bags: Sand-Grade _____		
								" x 5' Casing: PVC/SS _____		
								" x 10' Casing: PVC/SS _____		
								" x 5' Screen-Slot Size: _____		
								" x 10' Screen-Slot Size: _____		
								Bottom Caps		
								Slip Cap - Size _____		
								J. Plug - Size _____		
								Bags: Bentonite Gel Powder		
								55 Gal. Drums - 17H Rated		
								" Sample Liners		
								Visqueen Tarps 6 mil.		
								Sono Tube		
PERSONNEL EMPLOYED	EMPLOYEE'S NAME		HOURS	PER DIEM	INITIALS	GPS COORDINATES	FORMATION	EQUIPMENT	DESCRIPTION	UNIT NO.
	DRILLER:	<i>Brian Hernandez</i>	<i>13.45</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<i>B.H</i>				DRILL RIG:	<i>142</i>
	HELPER:	<i>Javier Rios</i>	<i>13.45</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					PIPE TRUCK:	
	HELPER:	<i>James Wolfley</i>	<i>13.45</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					CREW TRUCK:	<i>386</i>
	HELPER:			YES OR NO					STEAM CLEANER	
									COMPRESSOR:	<i>345</i>
									BOBCAT/FORKLIFT:	<i>HERC</i>
									BACKHOE:	
CLIENT APPROVAL: <i>[Signature]</i>										

## AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

**GENERAL DATA**

Date: 8/24/16

Site: FFO, Marina, 1A

Site Location: mw-BW-68-A, mw-BW-69-A, mw-BW-70-A

AHTNA Site Manager: Joseph Lieberman

AHTNA SSHO: Stally Dillon mw-BW-62-A

**DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion):**

**Other items to address as appropriate (check those discussed):**

<input checked="" type="checkbox"/> Scope of day's work	<input type="checkbox"/> OSHA's Focus Four	<input type="checkbox"/> Recent near miss / injuries / lessons
<input type="checkbox"/> Site SH&E Plan / Revisions	<input type="checkbox"/> Fall Hazards	<input type="checkbox"/> Lifting Safety / Materials Handling
<input type="checkbox"/> AHA's / PTSP's completed/reviewed?	<input type="checkbox"/> Electrical Hazards	<input type="checkbox"/> BBS Hazard Triggers <sup>1</sup>
<input type="checkbox"/> Emergency SOPs (i.e. rally pt., tele #s)	<input checked="" type="checkbox"/> Struck-by Hazards	<input type="checkbox"/> BBS Trigger Controls <sup>2</sup>
<input checked="" type="checkbox"/> Communications Check	<input checked="" type="checkbox"/> Caught in / between Hazards	<input checked="" type="checkbox"/> Other (heat, noise, trench, confine sp)
<input checked="" type="checkbox"/> PPE Requirements	<input checked="" type="checkbox"/> Other Primary Hazards <u>Skins</u>	

**MEETING ATTENDEES: (place \* next to subcontractor safety representatives)**

NAME / COMPANY	NAME / COMPANY
<u>Andrew March / Ahtna</u>	<u>BRITTAN CARLSON / AHTNA / BOW</u>
<u>Javier Ros / YJD</u>	
<u>James Volger / YJD</u>	
<u>Brian Hernandez?</u>	
<u>Roger / An / Horn 2 HB</u>	
<u>John / Anting</u>	
<u>John / Kaustai COE</u>	

**SUBCONTRACTOR SAFETY REPS COMMENTS?**

**DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)**

Y	N	N	Inspection Item	Y	N	N	Inspection Item	Y	N	N	INSPECTION ITEM OTHER (List)
		A				A				A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Postings/Plans (APP) readily avail.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Signs (No Smoking, Site Control)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Designated Parking / Traffic Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PPE(head/eye/foot/hand/ear/body)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor Safety Rep Involved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hi-Vis, PFD's, Ring Buoys, Etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor / Task AHA's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excav./Trench/Spoils Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor Equip. Inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confined Spaces Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Equip. (PFE's, FA Kits)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Physical Barriers / Covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eye Wash / Shower	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fall Hazards (Protected)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Communications Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ladders	ISSUES TO FOLLOW-UP (Immediately Correct Deficiencies if able)			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sanitation (Toilets, Hand Wash)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power & Portable Hand Tools				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water & Shade, Non-Pot Identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Company Field Equipment				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities Identified / Controlled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarms / Seatbelts				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Material Storage Proper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GFCI's, Whip-Checks, Slings				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lay Down Areas Orderly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed Rebar Protected				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waste Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety / Health Behaviors:				
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Spill Control (Pads, Snakes, Drums)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Competent / Qualified Persons				

Immediately Correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

Comments/Field Notes:

I acknowledge that above elements performed (SSHO/Inspector signature):

Date:

[Handwritten Signature]

8/24/16

<sup>1</sup> BBS Triggers: (e.g. Distractions, rushing, short cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)

<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).



## PROJECT FIELD REPORT

GENERAL			
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/25/2018
3) Program Manager	Derek Lieberman	4) Report No.:	D-5
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck
9) Weather:	Overcast	10) Temperature:	60-70

SUMMARY	
11) Work Performed:	Finished Decommissioning MW-BW-62-A by continuing to fill the well with 95% Portland Cement / 5% Bentonite using a tremie pipe, drilling to 5' bgs, placing a concrete cap, and filling the vault with sand. The old vault bolts were cut to the surface and native sand was placed over the top. Decommissioned Monitoring Wells MW-BW-20-180 and MW-BW-22-180.
12) Project Issues:	None
13) Unresolved Issues:	Did not Finish Decommissioning MW-BW-22-180

CONTRACTOR PERSONNEL		
14) Prime Contractor and Subcontractor Onsite:		
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>
Andrew Mauck	Ahtna	Field Technician / QC Manager
Brian Hernandez	Yellow Jacket	Driller
Javier Rios	Yellow Jacket	Helper
James Wolfley	Yellow Jacket	Helper

GOVERNMENT PERSONNEL			
15) Government Personnel Onsite:			
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>	<b>Arrive/Depart (Day)</b>
Bruce Van Etten	USACE	Oversight	0800/1700

VISITING PERSONNEL			
16) Visitors Onsite:			
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>	<b>Arrive/Depart (Day)</b>

DETAIL
17) Attachments:
1. Field Notes
2. Well Destruction Form
3. Follow-Up Phase Inspection
4. Yellow Jacket Daily Drill Report
5. Safety Tailgate
18) Report Submitted by: Andrew Mauck



# Ahtna

## PROJECT FIELD REPORT

### 19) Photos:



Description: The old vault bolts were cut off during a pressure test at MW-BW-62-A.



Description: Monitoring Well MW-BW-62-A was drilled 5' bgs.

# Ahtna

## PROJECT FIELD REPORT



Description: The Monitoring Well Vault at MW-BW-62-A was covered in Sand.



Description: MW-BW-62-A after Well Decommissioning.

# Ahtna

## PROJECT FIELD REPORT



Description: Pulling the Bollards out of the ground at MW-BW-20-180.



Description: Making the 95% Portland Cement / 5% Bentonite Grout for ceiling MW-BW-20-180.

# Ahtna

## PROJECT FIELD REPORT



Description: Using a tremie pipe to fill the monitoring well casing at MW-BW-20-180.



Description: Using a jack hammer to break apart the concrete pad at MW-BW-20-180.

# Ahtna

## PROJECT FIELD REPORT



Description: Pulling the standpipe up to be able to cut the well casing at MW-BW-20-180.



Description: Monitoring Well casing is drilled down 5' at MW-BW-20-180.

# Ahtna

## PROJECT FIELD REPORT



Description: Concrete cap placed on top of the casing at MW-BW-20-180.



Description: MW-BW-20-180 after Well Decommissioning.

# Ahtna

## PROJECT FIELD REPORT



Description: Filling the well casing with 95% Portland Cement / 5% Bentonite grout at MW-BW-22-180.

Description: Well Decommission  
MW-BW-62-A  
MW-BW-20-180  
MW-BW-22-180

Page 1 of 3

Date 8/25/18

Prepared By: Andrew Mauer

- 0630 - met @ Our Landfill
  - Tailgate Safety
  - prep for work
  - want our plan for next 2 days
- 0740 - Left Landfill for MW-BW-62-A
- 0755 - Arrived MW-BW-62-A
  - Set up
- 0820 - Turn drilling rig on, to warm up
- 0830 - Current TD 60'
- 0839 - Begin pumping 8th batch (continues from yesterday) of 95% portland cement 5% bentonite
  - 33 Gal of water
  - 6 Bags of portland cement
- 0845 - Begin pumping 9th batch of 95% portland cement 5% bentonite
  - 33 Gal of water
  - 6 Bags of portland cement

Total 23 gal
- 0849 - Top off casing
- 0850 - Hook up Pressuring device
- 0854 - Begin pressure Test 15 psi / 15 min
- 0900 - Clean up around well vault
- 0902 - Grind Bolts of well vault
- 0908 - pressure test pass
  - Top off
  - prep to drill casing Total of 5' (3 Vault + 2 casing)
- 0915 - Drill
- 0930 - Fill w/ concrete
- 0935 - Fill w/ sand
  - Cover w/ natural material
- 0955 - Finished w/ MW-BW-62-A
- 1000 - DE MOBE
- 1005 - MOVE to MW-BW-20-A 180
- 1015 - Arrive @ MW-BW-20-A 180
- 1025 - DTW MW-BW-20-180 156.7  
TD MW-BW-20-180 198.7
- 1070 - Remove bollards from ground.
  - Set up
- 1044 - Begin pumping 1st batch of 95% portland cement 5% bentonite
  - 33 Gal of water
  - 6 Bags (47 lbs each)
- 1055 - Begin pumping 2nd batch of 95% portland cement 5% bentonite
  - 33 Gal of water
  - 6 Bags (47 lbs each)



Description: Well Decommission  
MW-BW-22-A  
MW-BW-22-180  
MW-BW-22-180  
 Prepared By: Andrew Munch

Page 2 of 3  
 Date 8/25/14

- 1105 Basin Pumping 3rd Batch of 95% portland cement 5% Bentonite  
 - 33 Gal of water  
 - 6 Bags of portland cement (47lbs/each)
- 1112 Basin Pumping 4th Batch of 95% portland cement 5% Bentonite  
 - 33 Gal of water  
 - 6 Bags of portland cement (47lbs/each)
- 1121 Basin Pumping 5th Batch of 95% portland cement 5% Bentonite  
 - 33 Gal of water  
 - 6 Bags of portland cement (47lbs/each)
- 1130 Basin Pumping 6th Batch of 95% portland cement 5% Bentonite  
 - 40 Gal of water  
 - 7 Bags of portland cement (47lbs/each)
- 1148 Basin Pumping 7th Batch of 95% portland cement 5% Bentonite  
 - 33 Gal of water  
 - 7 Bags of portland cement (47lbs/each)
- 1148 Basin Pumping 8th Batch of 95% portland cement 5% Bentonite  
 - 33 Gal of water  
 - 7 Bags of portland cement (47lbs/each) ~ 50' left
- 1155 Topped off pipe
- 1156 Basin Pressure Test 15 psi / 15 min
- 1204 Basin Breaks up concrete monument
- 1213 End pressure Test
- 1215 Basin trying to destroy monitoring well
- 1250 Lunch
- 1415 Return from lunch
- 1430 Pull conductor casing straight out -  
 - Torched a hole  
 - Attached annulet to casing w/ clamps
- 1442 Cut well pipe
- 1452 Drill 5' BSS
- 1500 Post hole dis out collapsed Area
- 1505 Pour concrete
- 1506 Cover w/ native soil  
 - Clean up
- 1520 MORGUE TO MW-BW-22-180
- 1525 DTW MW-BW-22-180 164.83  
 TO MW-BW-22-180 198.7
- 1535 Setup timing pipe for grouting
- 1551 Basin Pumping 1st Batch of 95% portland cement 5% Bentonite  
 - 33 gal of water  
 - 7 Bags of portland cement (47lbs/each)
- 1559 Basin Pumping 2nd Batch of 95% portland cement  
 - 33 gal of water  
 - 7 Bags of portland cement (47lbs/each)

Description: Well Decommission  
mw-BW-62-17  
mw-BW-20-180  
mw-BW-22-180

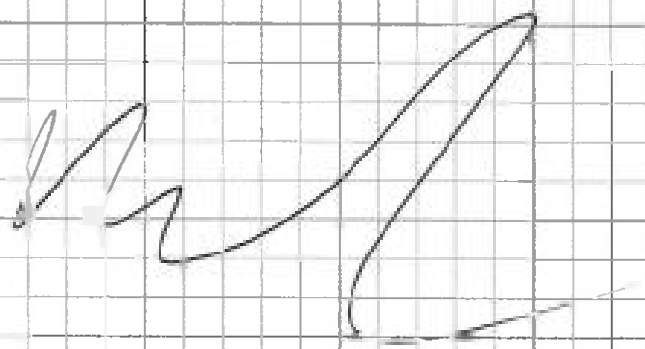
Page 3 of 3

Date 8/25/18

Prepared By: Andrew Mauch

- 1604 Begin pumping 3rd batch of 95% portland cement 5% betawite
  - 33 gal of water
  - 7 Bags of portland cement 47lbs/each
- 1613 Begin pumping 4th batch of 95% portland cement 5% betawite
  - 33 gal of water
  - 7 Bags of portland cement 47lbs/each
- 1619 Begin pumping 5th batch of 95% portland cement 5% betawite
  - 33 gal of water
  - 7 Bags of portland cement 47lbs/each
- 1630 Begin pumping 6th batch of 95% portland cement 5% betawite
  - 17 gal of water
  - 3 Bags of portland cement 47lbs/each
- 1640 Begin filling remaining 20' w/ 95% portland cement 5% betawite
  - 20 gal of water
  - 4 Bags of portland cement 47lbs/each
  - Took 12 gallons of mix
- 1649 Begin pressure test 15PSI/15min
- 1704 End pressure test
- 1705 clean up
- 1720 DEMOBE to landfill
- 1730 @ our landfill
- 1800 offsite our landfill

8/25/18



## Well Destruction Form

Location: Mariwa Project: Fort Ord Event: <sup>2018</sup> Well Decommissioning Completed by: Andrew Mant Date: 8/25/18

Grouting information	Well/boring information						
Well/boring ID	MW-BW-20-180	MW-BW-22-180					
Date	8/25/18	8/25/18					
Site	OUCTP	OUCTP					
Diameter	5"	5"					
Total depth	196.7	194.7					
Estimate of grout volume	199.0 Gallons	199 Gallons					
Amount of water (gallons)	271 gallons	182 gallons					
Amount of cement (bags)	51 Bags	40 Bags					
Amount of bentonite (lbs)	119.85 lbs	94 lbs					
Grout weight (lbs/gallon)	13.08	13.33					
Grout volume used (gallons)	365	262					

DTW

156.7      164.43

Volume calculation formula:  $\text{Gal} \times \text{Depth(ft)} = \text{Estimated grout volume}$

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
<del>6"</del>	1.5	11"	5.0
7"	2.0	12"	5.9

CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: W91238-14-L-0048

Date: 8/25/2018

Task No.: 10.9

Location/Project: Monitoring Well Decommissioning  
Former Fort Ord, Marina, CA

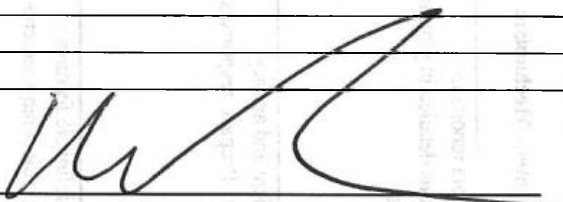
Project/Area of Inspection: Monitoring Well Decommissioning @ Former  
Fort Ord, Marina, CA / MW-BW-62-A, MW-BW-20-180,  
MW-BW-22-180

A. Definable Features of Work:

Status of Inspection:


MW-BW-62-A, MW-BW-20-180, MW-BW-22-180; Well  
decommissioning work was completed according to Section 5.1  
of the July 2018 Final Revision Monitoring Well Decommissioning  
Work Plan @ Former Fort Ord, CA

No disruptions to local businesses or residents was notified.

  
Quality Control Manager

### FOLLOW-UP PHASE INSPECTION CHECKLIST

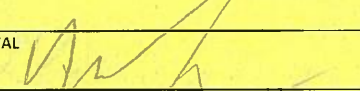
Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	<i>[Signature]</i> 9/25/18
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	<i>[Signature]</i> 9/25/18
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	<i>[Signature]</i> 9/25/18

DAILY DRILL REPORT					CLIENT: <u>AHJing</u>				PAGE 1 OF 1			
 <b>YELLOW JACKET DRILLING SERVICES</b>					DRILLING LOCATION <u>Manning CA</u>				DATE: <u>8-25-18</u>			
					YJD JOB NO: <u>13-0803 CA</u>				RIG #: <u>142</u>			
FROM	TO	DESCRIPTION OF ACTIVITIES			HOLE #				QTY	CONSTRUCTION SUPPLIES		
530	630	Picking up inspection, drive to site, setup			FOOTAGE DRILLED FROM		<u>MW-BW-67-A</u>				" X ' Steel Well Prot.	
630	800	load materials, get water, drive to location			FOOTAGE DRILLED TO						" x ' Steel Guard Posts	
800	1000	finish well MW-BW-67-A, fill <del>with</del> with sand			SAMPLES TAKEN THIS DATE						Flush Traffic Vault: Size _____ Bags: Asphalt 3 Bags: Concrete Mix Bags: Quickcrete 133 Bags: Portland Type II Cement	
1000	1230	move to next location, set up, remove ballards, get up, pressure well, break concrete, try full monument			SURFACE CONDITION (CIRCLE ONE)		DIRT ASPHALT CONCRETE	DIRT ASPHALT CONCRETE	DIRT ASPHALT CONCRETE		Bags: Bentonite Grout Bags: Bentonite Chips-Size _____ Pails: Bentonite Pellets-Size _____ Bags: Sand-Grade _____ Bags: Sand-Grade _____	
1230	100	lunch			CEMENT GROUT		FROM				" x 5' Casing: PVC/SS " x 10' Casing: PVC/SS " x 5' Screen-Slot Size: _____ " x 10' Screen-Slot Size: _____	
100	330	torch hole, get up monument, cut well drill 5' cap, it, clean up			BENT GROUT		FROM				Bottom Caps Slip Cap - Size _____ J. Plug - Size _____	
330	530	move to next location, get up, pressure test, clean up.			BENT SEAL		FROM				5 Bags: Bentonite Gel Powder 55 Gal. Drums - 17H Rated Sample Liners	
530	600	move to lay down, drop off equipment			SAND PACK		FROM				Visqueen Tarps 6 mil. Sono Tube	
600	700	drive to hotel			BLANK CASING		FROM					
					SCREEN		FROM					
					SUMP		FROM					
					GPS COORDINATES		WATER LEVEL				DESCRIPTION	UNIT NO.
							LAT.				DRILL RIG:	<u>142</u>
							LONG.				PIPE TRUCK:	
							ELEV.				CREW TRUCK:	<u>386</u>
					FORMATION		FROM				STEAM CLEANER	
							TO				COMPRESSOR:	<u>545</u>
							FROM				BOBCAT/FORKLIFT:	<u>HCRC</u>
							TO				BACKHOE:	<u>-</u>
							FROM					
							TO					

PERSONNEL EMPLOYED	EMPLOYEE'S NAME		HOURS	PER DIEM	INITIALS
	DRILLER:	<u>Brian Hernandez</u>	<u>13.30</u>	<u>YES OR NO</u>	<u>B.H.</u>
	HELPER:	<u>Javier Rio</u>	<u>13.30</u>	<u>YES OR NO</u>	
	HELPER:	<u>James Wolfley</u>	<u>13.30</u>	<u>YES OR NO</u>	
	HELPER:			<u>YES OR NO</u>	

CLIENT APPROVAL	
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## AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

**GENERAL DATA**

Date: 8/25/18  
 Site: KFO, Maxima, CA Site Location: mw-bw-02-A, Mw-Bw-20-180; mw-bw-22-180  
 AHTNA Site Manager: Doreen Lieberman AHTNA SSO: Holly Dillow

**DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion):**

Other items to address as appropriate (check those discussed):

<input checked="" type="checkbox"/> Scope of day's work <input type="checkbox"/> Site SH&E Plan / Revisions <input type="checkbox"/> AHA's / PTSP's completed/reviewed? <input type="checkbox"/> Emergency SOPs (i.e. rally pt., tele #s) <input checked="" type="checkbox"/> Communications Check <input checked="" type="checkbox"/> PPE Requirements	<input type="checkbox"/> OSHA's Focus Four <input type="checkbox"/> Fall Hazards <input type="checkbox"/> Electrical Hazards <input checked="" type="checkbox"/> Struck-by Hazards <input checked="" type="checkbox"/> Caught in / between Hazards <input checked="" type="checkbox"/> Other Primary Hazards	<input type="checkbox"/> Recent near miss / injuries / lessons <input type="checkbox"/> Lifting Safety / Materials Handling <input type="checkbox"/> BBS Hazard Triggers <sup>1</sup> <input type="checkbox"/> BBS Trigger Controls <sup>2</sup> <input checked="" type="checkbox"/> Other (heat, noise, trench, confine sp)
--	---	--

**MEETING ATTENDEES: (place \* next to subcontractor safety representatives)**

NAME / COMPANY	NAME / COMPANY
<u>Andrew Mankin / Ahtna</u>	
<u>Javier Rios / YJD</u>	
<u>Don Kunkel / YJA</u>	
<u>James Welfer / YJD</u>	
<u>John Van Hise / LOE</u>	

SUBCONTRACTOR SAFETY REPS COMMENTS?

**DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)**

Y	N	N	A	Inspection Item	Y	N	N	A	Inspection Item	Y	N	N	A	INSPECTION ITEM OTHER (List)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Postings/Plans (APP) readily avail.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Signs (No Smoking, Site Control)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Designated Parking / Traffic Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PPE(head/eye/foot/hand/ear/body)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor Safety Rep Involved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hi-Vis, PFD's, Ring Buoys, Etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Subcontractor / Task AHA's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excav./Trench/Spoils Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Subcontractor Equip. Inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confined Spaces Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Equip. (PFE's, FA Kits)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Physical Barriers / Covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eye Wash / Shower	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fall Hazards (Protected)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Communications Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ladders	ISSUES TO FOLLOW-UP (Immediately Correct Deficiencies if able)				
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sanitation (Toilets, Hand Wash)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power & Portable Hand Tools					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water & Shade, Non-Pot Identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Company Field Equipment					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities Identified / Controlled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarms / Seatbelts					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Material Storage Proper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GFCI's, Whip-Checks, Slings					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lay Down Areas Orderly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed Rebar Protected					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waste Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety / Health Behaviors:					
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Spill Control (Pads, Snakes, Drums)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Competent / Qualified Persons					

Immediately Correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

Comments/Field Notes:

I acknowledge that above elements performed (SSHO/inspector signature):

 Date: 8/25/18

<sup>1</sup> BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)  
<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).



## PROJECT FIELD REPORT

GENERAL			
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/26/2018
3) Program Manager	Derek Lieberman	4) Report No.:	D-6
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck
9) Weather:	Overcast	10) Temperature:	60-70

SUMMARY	
11) Work Performed:	Decommissioned Monitoring Wells MW-BW-22-180 and MW-OU2-60-A.
12) Project Issues:	None
13) Unresolved Issues:	None

CONTRACTOR PERSONNEL		
14) Prime Contractor and Subcontractor Onsite:		
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>
Andrew Mauck	Ahtna	Field Technician / QC Manager
Bri Foster	Ahtna	Field Technician
Brian Hernandez	Yellow Jacket	Driller
Javier Rios	Yellow Jacket	Helper
James Wolfley	Yellow Jacket	Helper

GOVERNMENT PERSONNEL			
15) Government Personnel Onsite:			
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>	<b>Arrive/Depart (Day)</b>
Bruce Van Etten	USACE	Oversight	0800/1700
Tom Ghigliotto	Chenega	Oversight	1030/1040

VISITING PERSONNEL			
16) Visitors Onsite:			
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>	<b>Arrive/Depart (Day)</b>

DETAIL
17) Attachments:
1. Field Notes
2. Well Destruction Form
3. Follow-Up Phase Inspection
4. Yellow Jacket Daily Drill Report
5. Safety Tailgate
18) Report Submitted by: Andrew Mauck



# Ahtna

## PROJECT FIELD REPORT

### 19) Photos:



Description: Cutting lift points on MW-BW-22-180.



Description: Using the LAR to lift the Stove Pipe out of the ground at MW-BW-22-180.

# Ahtna

## PROJECT FIELD REPORT



Description: Well casing is cut at MW-BW-22-180.



Description: Well casing is drilled down to 5' bgs.

# Ahtna

## PROJECT FIELD REPORT



Description: MW-BW-22-180 after Well Decommissioning.



Description: Using a tremie pipe to pump the grout to the bottom of the well at MW-OU2-60-A.

# Ahtna

## PROJECT FIELD REPORT



Description: Mixing the 95% Portland Cement / 5% Bentonite at MW-OU2-60-A.



Description: Pressure Test at MW-OU2-60-A 15 psi for 15 minutes.

# Ahtna

## PROJECT FIELD REPORT



Description: Using a jack hammer to break away the concrete from around the stickup at MW-OU2-60-A.



Description: Using the LAR to lift the Stickup out of the ground at MW-OU2-60-A.

# Ahtna

## PROJECT FIELD REPORT



Description: Monitoring Well MW-BW-62-A was drilled 5' bgs.



Description: MW-OU2-60-A after Well Decommissioning.

Description: Well Decommission  
MW-BW-22-180  
MW-002-60-A

Prepared By: Andrew Mawick

Page 1 of 2  
Date 8/26/18

- 0655 meet @ our Landfill
- 0715 MOBE to MW-BW-22-180
- 0750 Arrive @ MW-BW-22-180
- 0800 Tailgate Safety
- 0815 Cut Holes in sides of Conductor casing
- 0825 Pull Conductor casing out of ground
- 0928 Cut Manhole well pipe
- 0935 Work up drill bit and water around well casing to drill out casing
- 0940 use post hole digger to open hole up
  - Pump concrete
  - Cover with dirt
- 0900 - Finished w/ Decommission MW-BW-22-180
- 0912 - Off MOBE to MW-002-60-A
- 0940 - parked rig - moving equipment - into place
  - Air Compressor on Backho ball CT
  - Supplies next to Vault
  - Water next to compressor on Backho ball CT
- 1015 OTW @ MW-002-60-A 93.85
- TD @ MW-002-60-A 119.5
- 1025 Begin mixing 1st Batch of 95% Portland Cement 5% Bentonite
  - 33 Gallons of water
  - 7 Bags (47lbs/each) Portland Cement 95%
- 1035 Begin Pumping 1st Batch of 95% Portland Cement 5% Bentonite
- 1041 Begin Pumping 2nd Batch of 95% Portland Cement 5% Bentonite
  - 33 Gallons of water
  - 7 Bags (47lbs/each) 95% Portland Cement
- 1049 Begin Pumping 3rd Batch of 95% Portland Cement 5% Bentonite
  - 33 Gallons of water
  - 7 Bags (47lbs/each) 95% Portland Cement ~ 100'
- 1055 Begin Pumping 4th Batch of 95% Portland Cement 5% Bentonite
  - 33 Gallons of water
  - 7 Bags (47lbs/each) 95% Portland Cement ~ 60'
- 1115 Begin Pumping 5th Batch of 95% Portland Cement 5% Bentonite
  - 33 Gallons of water
  - 7 Bags (47lbs/each) 95% Portland Cement ~ 32' left
- 1121 Clean up equipment for launch
- 1125 Launch
- 1215 @ our Landfill
- 1230 leave Landfill to return to MW-002-60-A
- 1245 Arrive @ MW-002-60-A
  - Cement Depth to Grout 35' - Dropped drums lunch - Setup
- 1255 Begin mixing 6th Batch of 95% Portland Cement 5% Bentonite
  - 33 Gallons of water
  - 7 Bags (47lbs/each) 95% Portland Cement

Description: Well Decommission  
MW-BW-22-180  
MW-022-60-A

Page 2 of 2

Date 8/26/18

Prepared By: Andrew Mankle

- 1303 Hand pour the remaining amount. 95% portland cement 500 ~~Barite~~  
4 gallons each trip 32 gallons used of mix
- 1310 Begin pressure Test 15 PSI / 15 min
- 1314 Begin Jack Hammering Monument.
- 1325 End pressure Test passed
- 1332 End breaking monument
- 1335 Cut hole in well box to attach chain to lift out
- 1340 Lift well box out
- 1345 Jack hammer remove cement off well vault
- 1353 Cut well casing
- 1357 Hook up drill bit
- 1358 Begin cutting casing
- 1405 pour concrete
- 1408 Cover up  
- Cleanup
- 1422 - DEMO  
- Offsite off to lay down yard.
- 1430 - @ landfill  
- prep for tomorrow  
- Throw trash away
- 1600 - OFFSITE  
- workers done for the day

~~Andrew Mankle~~  
8/26/18



## Well Destruction Form

Location: Marine Project: Ft. Ord Event: <sup>2015</sup> Well Decommission Completed by: Andrew Mowbray Date: 8/26/18

Grouting information	Well/boring information						
Well/boring ID	<u>MW-0u2-60A</u>						
Date	<u>8/26/18</u>						
Site	<u>0u2</u>						
Diameter	<u>5"</u>						
Total depth	<u>119.5"</u>						
Estimate of grout volume	<u>120</u>						
Amount of water (gallons)	<u>189 Gal</u>						
Amount of cement (bags)	<u>40 Bags</u>						
Amount of bentonite (lbs)	<u>94 lbs</u>						
Grout weight (lbs/gallon)	<u>13.8</u>						
Grout volume used (gallons)	<u>257 gal</u>						

D.T.W

93.95

Volume calculation formula:  $\text{Gal} \times \text{Depth(ft)} = \text{Estimated grout volume}$

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9

CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: W91238-14-C-0048

Date: 8/26/2018

Task No.: 10.9

Location/Project: Monitoring Well Decommissioning  
Former Fort Ord, Marina, CA

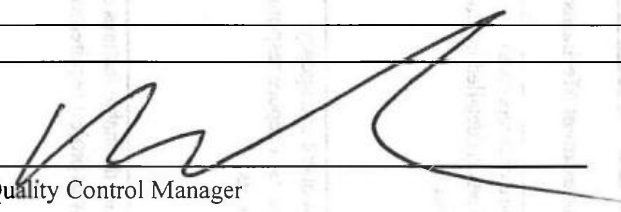
Project/Area of Inspection: Monitoring Well Decommissioning @ Former  
Fort Ord, Marina, CA / MW-BW-22-150, MW-DW2-60-A

A. Definable Features of Work:



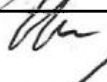
Status of Inspection:


MW-BW-22-150, MW-DW2-60-A; Well Decommissioning Work  
was completed according to Section 5.1 of the July 2018  
Final Revision Monitoring Well Decommissioning Work Plan  
@ Former Fort Ord, CA.

No disruption to businesses or residents was noticed.

  
Quality Control Manager

### FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	 8/26/18
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	 8/26/18
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	 8/26/18

DAILY DRILL REPORT					CLIENT: <i>Ahtua</i>			PAGE <i>1</i> OF <i>1</i>							
 <b>YELLOW JACKET DRILLING SERVICES</b>					DRILLING LOCATION: <i>Maring CA</i>			DATE: <i>8-26-18</i>							
					YJD JOB NO: <i>18-0803</i>			RIG #: <i>142</i>							
FROM	TO	DESCRIPTION OF ACTIVITIES			HOLE #			QTY	CONSTRUCTION SUPPLIES						
600	700	<i>neting inspection, drive to site</i>			FOOTAGE DRILLED FROM	<i>0</i>	<i>0</i>		" X Steel Well Prot.						
700	730	<i>Safety meeting</i>			FOOTAGE DRILLED TO	<i>5</i>	<i>5</i>		" x Steel Guard Posts						
730	1000	<i>drive to location - Jackhammer</i>			SAMPLES TAKEN THIS DATE	<i>—</i>	<i>—</i>	<i>72</i>	Flush Traffic Vault: Size _____						
		<i>concrete pad, and monument, drill to 5'</i>			SURFACE CONDITION (CIRCLE ONE)	DIRT	DIRT		Bags: Asphalt						
		<i>clean up, load equipment</i>				ASPHALT	ASPHALT		Bags: Concrete Mix						
1000	1200	<i>move to next location, set up, grout up</i>			CONCRETE	CONCRETE	CONCRETE		Bags: Quickcrete						
1200	1230	<i>bench</i>			CEMENT GROUT	FROM			Bags: Portland Type II Cement						
1230	1300	<i>top off, pressure test, Jackhammer</i>			TO				Bags: Bentonite Grout						
		<i>concrete, pull out monument, drill 5'</i>			BENT GROUT	FROM			Bags: Bentonite Chips-Size _____						
		<i>concrete cap, back fill with native, clean up</i>			TO				Pails: Bentonite Pellets-Size _____						
		<i>load equipment, drive to lay down</i>			BENT SEAL	FROM			Bags: Sand-Grade _____						
300	400	<i>make ready, for next day throw trash</i>			TO				Bags: Sand-Grade _____						
		<i>away</i>			SAND PACK	FROM			" x 5' Casing: PVC/SS _____						
400	500	<i>drive to hotel</i>			TO				" x 10' Casing: PVC/SS _____						
					BLANK CASING	FROM			" x 5' Screen-Slot Size: _____						
					TO				" x 10' Screen-Slot Size: _____						
					SCREEN	FROM			Bottom Caps _____						
					TO				Slip Cap - Size _____						
					SUMP	FROM			J. Plug - Size _____						
					TO				Bags: Bentonite Gel Powder _____						
					GPS COORDINATES	WATER LEVEL			55 Gal. Drums - 17H Rated _____						
						LAT.			Sample Liners _____						
PERSONNEL EMPLOYED	EMPLOYEE'S NAME			HOURS	PER DIEM	INITIALS	FORMATION			EQUIPMENT	DESCRIPTION	UNIT NO.			
	DRILLER:	<i>Brian Hernandez</i>				<input checked="" type="radio"/> YES OR NO					<i>B.H.</i>	DRILL RIG:	<i>142</i>		
	HELPER:	<i>Samuel Rios</i>				<input checked="" type="radio"/> YES OR NO						PIPE TRUCK:			
	HELPER:	<i>James Wolfley</i>				<input checked="" type="radio"/> YES OR NO						CREW TRUCK:	<i>386</i>		
	HELPER:				YES OR NO			STEAM CLEANER							
	HELPER:				YES OR NO			COMPRESSOR:	<i>HERO</i>						
	HELPER:				YES OR NO			BOBCAT/FORKLIFT:							
	HELPER:				YES OR NO			BACKHOE:							
CLIENT APPROVAL: <i>[Signature]</i>															

## AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

**GENERAL DATA**

Date: 8/26/18  
 Site: FFD, Marina 1A Site Location: MW-BW-22-18D; MW-DW2-605-1A  
 AHTNA Site Manager: Debra Lieberman AHTNA SSO: Holly Miller

**DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion):**

Other items to address as appropriate (check those discussed):

<input checked="" type="checkbox"/> Scope of day's work	<input type="checkbox"/> OSHA's Focus Four	<input type="checkbox"/> Recent near miss / injuries / lessons
<input type="checkbox"/> Site SH&E Plan / Revisions	<input type="checkbox"/> Fall Hazards	<input type="checkbox"/> Lifting Safety / Materials Handling
<input type="checkbox"/> AHA's / PTSP's completed/reviewed?	<input type="checkbox"/> Electrical Hazards	<input type="checkbox"/> BBS Hazard Triggers <sup>1</sup>
<input type="checkbox"/> Emergency SOPs (i.e. rally pt., tele #s)	<input checked="" type="checkbox"/> Struck-by Hazards	<input type="checkbox"/> BBS Trigger Controls <sup>2</sup>
<input checked="" type="checkbox"/> Communications Check	<input checked="" type="checkbox"/> Caught in / between Hazards	<input checked="" type="checkbox"/> Other (heat, noise, trench, confine sp)
<input checked="" type="checkbox"/> PPE Requirements	<input checked="" type="checkbox"/> Other Primary Hazards	

**MEETING ATTENDEES: (place \* next to subcontractor safety representatives)**

NAME / COMPANY	NAME / COMPANY
<u>Andrew Mack / Ahtna</u>	<u>Tom Yho / BRAC</u>
<u>Brian Haininger - YJD</u>	
<u>James Wolfley / YJD</u>	
<u>Travis Foster / Ahtna</u>	
<u>Javier Rios YJD</u>	
<u>Richard Van Etten PCE</u>	

**SUBCONTRACTOR SAFETY REPs COMMENTS?**
**DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)**

Y	N	N A	Inspection Item	Y	N	N A	Inspection Item	Y	N	N A	INSPECTION ITEM OTHER (List)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Postings/Plans (APP) readily avail.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Signs (No Smoking, Site Control)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Designated Parking / Traffic Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PPE(head/eye/foot/hand/ear/body)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor Safety Rep Involved	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hi-Vis, PFD's, Ring Buoys, Etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor / Task AHA's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excav./Trench/Spoils Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Subcontractor Equip. Inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confined Spaces Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Equip. (PFE's, FA Kits)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Physical Barriers / Covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eye Wash / Shower	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fall Hazards (Protected)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Communications Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ladders	<b>ISSUES TO FOLLOW-UP</b> (Immediately Correct Deficiencies if able)			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sanitation (Toilets, Hand Wash)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power & Portable Hand Tools				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water & Shade, Non-Pot Identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Company Field Equipment				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities Identified / Controlled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarms / Seatbelts				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Material Storage Proper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GFCI's, Whip-Checks, Slings				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lay Down Areas Orderly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed Rebar Protected				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waste Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety / Health Behaviors:				
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Spill Control (Pads, Snakes, Drums)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Competent / Qualified Persons				

Immediately Correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

Comments/Field Notes:

I acknowledge that above elements performed (SSHO/Inspector signature):

[Signature]

Date:

8/26/18

<sup>1</sup> BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)  
<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).



## PROJECT FIELD REPORT

GENERAL			
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/27/2018
3) Program Manager	Derek Lieberman	4) Report No.:	D-7
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon
7) Superintendent:	Mark Fisler	8) QC Manager:	Bri Foster
9) Weather:	Overcast	10) Temperature:	60-70

SUMMARY	
11) Work Performed:	Decommissioned Monitoring Wells MW-OU2-59-A and MW-OU2-36-A.
12) Project Issues:	None
13) Unresolved Issues:	None

CONTRACTOR PERSONNEL		
14) Prime Contractor and Subcontractor Onsite:		
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>
Bri Foster	Ahtna	Field Technician / QC Manager
Jessica Feduck	Ahtna	Field Technician
Holly Dillon	Ahtna	SSHO
Brian Hernandez	Yellow Jacket	Driller
Javier Rios	Yellow Jacket	Helper
James Wolfley	Yellow Jacket	Helper
Charles Mulvaney	Yellow Jacket	Helper
Cody Reed	Yellow Jacket	Helper

GOVERNMENT PERSONNEL			
15) Government Personnel Onsite:			
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>	<b>Arrive/Depart (Day)</b>
Bruce Van Etten	USACE	Oversight	0800/1700

VISITING PERSONNEL			
16) Visitors Onsite:			
<b>Name</b>	<b>Company</b>	<b>Position/Title</b>	<b>Arrive/Depart (Day)</b>
Roger Van Horn	Monterey County	Inspector	1400/1530
Christie Vo	Monterey County	Inspector	1400/1530
Isaiah Tazol	Monterey County	Inspector	1400/1530
Matthew Johnson	Denise Duffy & Associates	Sr. Env. Inspector	0700/1100

DETAIL
17) Attachments:
1. Field Notes
2. Well Destruction Form
3. Follow-Up Phase Inspection
4. Yellow Jacket Daily Drill Report
5. Safety Tailgate
18) Report Submitted by: Bri Foster

# Ahtna

## PROJECT FIELD REPORT

### 19) Photos:



Description: Tremie pipe installed at MW-OU2-59-A.



Description: Pressure Test at MW-OU2-59-A.

# Ahtna

## PROJECT FIELD REPORT



Description: Pulling the casing out of the ground with the LAR at MW-OU2-59-A.



Description: Monitoring well is drilled down to 5' at MW-OU2-59-A.



# Ahtna

## PROJECT FIELD REPORT



Description: Pouring the cap on top of the monitoring well 5' bgs at MW-OU2-59-A.



Description: Covering up the monitoring well with native material at MW-OU2-59-A.

# Ahtna

## PROJECT FIELD REPORT



Description: MW-OU2-59-A after Well Decommissioning.



Description: Installation of the tremie pipe at MW-OU2-36-A.

# Ahtna

## PROJECT FIELD REPORT



Description: Monterey County Environmental Health Inspectors watch over the decommissioning process at MW-OU2-36-A.



Description: The conductor casing has been pulled up from around the monitoring well pipe at MW-OU2-36-A.

# Ahtna

## PROJECT FIELD REPORT



Description: MW-OU2-36-A after Well Decommissioning.

WEATHER: overcast - marine layer burning off, 59/42°F, W. wind 10-15 mph  
CREW: Ahtna (x1) yellow jacket (x5)  
OBJECTIVE: Mobilize and set up @ MW-002-59-A to decommission  
VISITORS: R. Van Horn, Christie VO and Isaiah Tazoo (Montgomery County)

0630 Arrive → Landfill to meet w/ yellow jacket, conduct TISM and discuss daily objectives  
07- Conducted TISM and prep. trailers to haul equip./supplies to MW-002-59A  
Contact M. Johnson (bio) to meet @ well loc. for bio. clearance - will meet onsite  
0730 Contact Roger Van Horn to update grout inspection delayed (install work) due to rig broke down -  
update R. Van Horn of well decommissioning agenda - will be onsite later this morning.  
08- Unload rig and bobcat along shoulder of Injun Hwy and track rig into site - road  
conditions accessing 59A too soft/sandy for support tankers to drive; bio flagged road.  
0845 Set up @ 59A to pressure grout well - take out bollards around well; remove sampling  
line and collect measurements: 5" PVC, TD: ~~124.5~~ 124.5; DTW: 99.05 from TOC  
09- Mixed grout with mechanical mixture inside 55gal drum - tremmie pipe (1") lowered  
into well and grout pumped to ground surface  
0950 6 batches pumped (calc. approx. 130 gal - x3 batches additional) - start pressure test  
1005 grout dropped 6" - jackhammer concrete well pad, pull protective stove pipe and  
overdrill to 5ft bgs - measured to confirm. concrete seal borehole and backfill native  
1050 Well decommission complete - load up equip. to move to MW-002-30A  
1230 Moved rig to next loc. while also loading up trailer with portland/water tote  
1320 break for lunch  
14- @ MW-002-30-A, well ID @ well head states:  
MEASURE DTW: ~~88.05~~ 89.05' to TOC; Hard tag TD: 134.70; 5" PVC inside 12" casing.  
Roger Van Horn (mont. grout inspector) onsite with two new hires  
1430 Mixing grout in 55gal drum using mechanical mixer, 6-7 portland w/ 5% bentonite  
lower 1" tremmie pipe to pump grout and begin pressure grouting to ground surface  
1530 Mixed approx. 3.5 batches of grout, est. 130-140 gal grout pumped to ground surface  
Ran a 15min pressure test with a 3" drop after 15min.  
USE A jackhammer to break apart well pad  
1550 pull 3' conductor casing and 10' of the 5" PVC - snugged below grade @ top of thread (10')  
backfill with grout and drilled down to 5' w/ quicrete capping top of borehole for seal.  
1630 Site restored to original condition with native sand filling-in well bottom.  
clean/load supplies - crew done for the scope of work. project complete.  
17- End of shift

## Well Destruction Form

Location: Marina Project: Fort Ord Event: 2018 Well Decommissioning Completed by: Andrew March Date: 8/27/18

Grouting information	Well/boring information				
Well/boring ID	MW-062-59-A		MW-062-36-A		
Date	8/27/18		8/27/18		
Site	062		062		
Diameter	5"		5"		
Total depth	124.5		134.70		
Estimate of grout volume	124.5		134.70		
Amount of water (gallons)	198		198		
Amount of cement (bags)	42		42		
Amount of bentonite (lbs)	98.7		98.7		
Grout weight (lbs/gallon)	13.79		13.79		
Grout volume used (gallons)	270		270		

DTW

99.05                      89.05

Volume calculation formula:  $\text{Gal} \times \text{Depth(ft)} = \text{Estimated grout volume}$

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
<u>5"</u>	<u>1.0</u>	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9

CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: W91238-14-C-0043

Date: 27 Aug 2013

Task No.: 10.9

Location/Project: Fort Ord / Well DEMO.

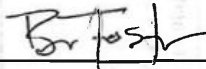
Project/Area of Inspection: Fort Ord - MW-002-59-A and MW-002-36-A  
Well Decommissioning

A. Definable Features of Work:

Status of Inspection:

- Well Decommissioning

- Confirmed total well depth and  
depth to water prior to pressure  
grouting well, per SEZ-5.1 of the  
Monitoring Well Decommission Workplan.



Quality Control Manager

### FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans? YES	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	B. Foster 8-27-13
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements? YES	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	B. Foster 8-27-13
Have other definable features of work been completed in accordance to project requirements? ON 9/2/13 - YES	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	B. Foster 8-27-13



DAILY DRILL REPORT				CLIENT: <u>Ahtny</u>			PAGE	1 OF 1	
YELLOW JACKET DRILLING SERVICES				DRILLING LOCATION: <u>Mainly CA</u>			DATE:	<u>8-27-18</u>	
				YJD JOB NO: <u>18-0803 CA</u>			RIG #:	<u>142</u>	
FROM	TO	DESCRIPTION OF ACTIVITIES		HOLE #	<u>MW-002-59-A</u>		<u>36-A</u>	QTY	CONSTRUCTION SUPPLIES
600	700	Prelim inspection, drive to site		FOOTAGE DRILLED FROM	0	0	0		" x " Steel Well Prot
700	800	Safety meeting, get materials, ready		FOOTAGE DRILLED TO	5		5		" x " Steel Guard Posts
800	1230	take equipment to location, set up		SAMPLES TAKEN THIS DATE	✓		✓	4	Push Traffic Vault: Size
		grout up, pressure test, take equipment to next location, get truck unstuck		SURFACE CONDITION (CIRCLE ONE)	DIRT	DIRT	DIRT	84	Bags: Asphalt
1230	100	lunch		CEMENT GROUT	FROM				Bags: Concrete Mix
100	400	Set up, grout up, pressure test, remove well box with casing, cleanup		CEMENT GROUT	TO				Bags: Quickrete
400	500	drive back to lay down, unload equipment		BENT. GROUT	FROM				Bags: Portland Type II Cement
500	600	drive to hotel		BENT. GROUT	TO				Bags: Bentonite Grout
		Cody and Charles, load trash and concrete, dump in land field		BENT. SEAL	FROM				Bags: Bentonite Chips-Size
				BENT. SEAL	TO				Pails: Bentonite Pellets-Size
				SAND PACK	FROM				Bags: Sand-Grade
				SAND PACK	TO				Bags: Sand-Grade
				BLANK CASING	FROM				" x 5' Casing: PVC/SS
				BLANK CASING	TO				" x 10' Casing: PVC/SS
				SCREEN	FROM				" x 5' Screen-Slot Size:
				SCREEN	TO				" x 10' Screen-Slot Size:
				SUMP	FROM				Bottom Caps
				SUMP	TO				Slip Cap - Size
				GPS COORDINATES	WATER LEVEL				J. Plug - Size
				GPS COORDINATES	LAT.				3 Bags: Bentonite Gel Powder
				GPS COORDINATES	LONG.				55 Gal. Drums - 17H Rated
				GPS COORDINATES	ELEV.				Sample Liners
				FORMATION	FROM				Visqueen Tarps 6 mil.
				FORMATION	TO				Sono Tube
				FORMATION	FROM				
				FORMATION	TO				
				FORMATION	FROM				
				FORMATION	TO				
				FORMATION	FROM				
				FORMATION	TO				

PERSONNEL EMPLOYED	EMPLOYEE'S NAME		HOURS	PER DIEM	INITIALS
	DRILLER	Brian Hernandez		11.30	YES/NO
HELPER	Javier Rios		11.30	YES/NO	
HELPER	James Wolfley		11.30	YES/NO	
HELPER	Charles M. - Cody Rios		11.30	YES/NO	

EQUIPMENT	DESCRIPTION		UNIT NO.
	DRILL RIG:	142	
PIPE TRUCK:			
CREW TRUCK:	386		
STEAM CLEANER:			
COMPRESSOR:	545		
BOBCAT/FORKLIFT:	H200C		
BACKHOE:			

CLIENT APPROVAL:

# AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

**GENERAL DATA**

Site:

 Date: 27 Aug 2018

 AHTNA Site Manager: B. Fisher

Site Location:

 AHTNA SSO: H. Dillon
**DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion):**

- ✓ lifting safety - ground materials
- ✓ communication with added crew members

Other items to address as appropriate (check those discussed):

<input checked="" type="checkbox"/> Scope of day's work	<input checked="" type="checkbox"/> OSHA's Focus Four	<input type="checkbox"/> Recent near miss / injuries / lessons
<input checked="" type="checkbox"/> Site SH&E Plan / Revisions	<input type="checkbox"/> Fall Hazards	<input checked="" type="checkbox"/> <u>Lifting Safety</u> / Materials Handling
<input type="checkbox"/> AHA's / PTSP's completed/reviewed?	<input type="checkbox"/> Electrical Hazards	<input type="checkbox"/> BBS Hazard Triggers <sup>1</sup>
<input type="checkbox"/> Emergency SOPs (i.e. rally pt., tele #s)	<input type="checkbox"/> Struck-by Hazards	<input type="checkbox"/> BBS Trigger Controls <sup>2</sup>
<input checked="" type="checkbox"/> Communications Check ✓	<input type="checkbox"/> Caught in / between Hazards	<input type="checkbox"/> Other (heat, noise, trench, confine sp)
<input checked="" type="checkbox"/> PPE Requirements <u>level 1 w/ dust mask</u>	<input type="checkbox"/> Other Primary Hazards	

**MEETING ATTENDEES: (place \* next to subcontractor safety representatives)**

NAME / COMPANY	NAME / COMPANY
<u>Charles Mulvaney YJD</u>	<u>Isaiiah Pazon / Monterey County Health Dept</u>
<u>Javier Rios YJD</u>	<u>CHRISTIE VO / EHM</u>
<u>Cody Reed / YJD</u>	<u>ROGER VAN HORN S.A.B.</u>
<u>James Walela / YJD</u>	<u>Sylwester Kosowski Ahtna</u>
<u>Brian Hernandez - YJD</u>	

**SUBCONTRACTOR SAFETY REPs COMMENTS?**

- ✓ pressurized hose lines - inspect connections / fittings
- ✓ grouting - don't proper PPE including dust masks

**DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)**

Y	N	A	Inspection Item	Y	N	A	Inspection Item	Y	N	A	Inspection Item OTHER (List)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Postings/Plans (APP) readily avail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Signs (No Smoking, Site Control)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Designated Parking / Traffic Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PPE (head/eye/foot/hand/ear/body)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor Safety Rep Involved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hi-Vis, PFD's, Ring Buoys, Etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor / Task AHA's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excav./Trench/Spoils Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Subcontractor Equip. Inspections ✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confined Spaces Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Equip. (PFE's, FA Kits)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Physical Barriers / Covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eye Wash / Shower	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fall Hazards (Protected)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Communications Check ✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ladders	<b>ISSUES TO FOLLOW-UP</b> (Immediately Correct Deficiencies if able)			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sanitation (Toilets, Hand Wash)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power & Portable Hand Tools <u>check!</u>				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water & Shade, Non-Pot Identified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Company Field Equipment				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities Identified / Controlled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarms / Seatbelts <u>working ✓</u>				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Material Storage Proper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GFCI's, Whip-Checks, Slings				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lay Down Areas Orderly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed Rebar Protected				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waste Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety / Health Behaviors:				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Spill Control (Pads, Snakes, Drums)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Competent / Qualified Persons				

Immediately Correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

 Comments/Field Notes: Ø

 I acknowledge that above elements performed (SSHO/Inspector signature): B. Fisher

 Date: 8/27/18

<sup>1</sup> BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)  
<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).  
 Ahtna Daily Site Safety Tailgate / Inspection Log, version: August 2014

## **APPENDIX B**

### Monterey County Health Department Monitoring Well Permits

MONTEREY COUNTY HEALTH DEPARTMENT  
 DIVISION OF ENVIRONMENTAL HEALTH  
 A CERTIFIED UNIFIED PROGRAM AGENCY  
 • 1270 Natividad Road, Salinas, CA 93906  
 Office (831) 755-4511 - Fax (831)796-8698



**MONITORING WELL PERMIT**

**PERMIT NO: HZ-18905, Well #: MW-02-12-180**

**(MCEH use only: SR0018905, FEE EXEMPT)**

- MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL            -DESTRUCTION

**SITE LOCATION:** *West of Beach Range Rd, Southwest of Imjin Parkway & Northwest of 10<sup>th</sup> St, Marina*  
**APN #: 031-021-003**

<p><b>SITE CONTACT PERSON:</b>          Derek Lieberman   <b>E-MAIL:</b> dlieberman@ahtna.net  <b>PHONE:</b> (831) 224-3327</p>	<p><b>OWNER:</b>          U.S. Army Corps of Engineers          1325 J Street          Sacramento, CA 95814  <b>PHONE:</b> (831) 393-9692</p>
<p><b>CONSULTANT:</b>          Ahtna Environmental, Inc.          296 12<sup>th</sup> Street          Marina, CA 93933   <b>PHONE:</b> (831) 224-3327</p>	<p><b>DRILLER:</b>          Yellow Jacket Drilling Services          9460 Lucas Ranch Road          Rancho Cucamonga, CA 91730  <b>LICENSE #: C-57 1034407</b>  <b>PHONE:</b> (909) 989-8563</p>

**CONDITIONS:**

**SITE PLAN SHALL BE TO SCALE.**

**NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.**

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018**

**EXPIRATION DATE: 8/7/2019**

ISSUED BY:

Roger VanHorn, REHS  
 Supervising Drinking Water Protection Well Program

**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
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***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18906, Well #: MW-OU2-33-A**

**(MCEH use only: SR0018906, FEE EXEMPT)**

-MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

***SITE LOCATION: Behind parking lot of YoungNak Presbyterian Church of  
Monterey at 23510<sup>th</sup> Street, Marina  
APN #: 031-251-020***

<b>SITE CONTACT PERSON:</b> Derek Lieberman  <b>E-MAIL:</b> dlieberman@ahtna.net <b>PHONE:</b> (831) 224-3327	<b>OWNER:</b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b>PHONE:</b> (831) 393-9692
<b>CONSULTANT:</b> Ahtna Environmental, Inc. 296 12 <sup>th</sup> Street Marina, CA 93933  <b>PHONE:</b> (831) 224-3327	<b>DRILLER:</b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b>LICENSE #: C-57 1034407</b> <b>PHONE:</b> (909) 989-8563

**CONDITIONS:**

***SITE PLAN SHALL BE TO SCALE.***

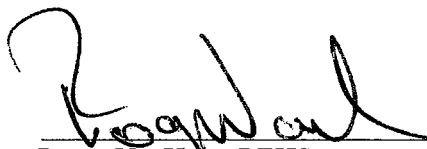
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COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018**

**EXPIRATION DATE: 8/7/2019**

ISSUED BY:

  
\_\_\_\_\_  
Roger VanHorn, REHS  
Supervising Drinking Water Protection Well Program

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***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18907, Well #: MW-OU2-36-A**

**(MCEH use only: SR0018907, FEE EXEMPT)**

- MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL            -DESTRUCTION

***SITE LOCATION: Behind residential home at 218 Hayes Circle, Marina***  
***APN #: 031-021-040***

<p><b><i>SITE CONTACT PERSON:</i></b>          Derek Lieberman   <b><i>E-MAIL:</i></b> dlieberman@ahtna.net  <b><i>PHONE:</i></b> (831) 224-3327</p>	<p><b><i>OWNER:</i></b>          U.S. Army Corps of Engineers          1325 J Street          Sacramento, CA 95814  <b><i>PHONE:</i></b> (831) 393-9692</p>
<p><b><i>CONSULTANT:</i></b>          Ahtna Environmental, Inc.          296 12<sup>th</sup> Street          Marina, CA 93933   <b><i>PHONE:</i></b> (831) 224-3327</p>	<p><b><i>DRILLER:</i></b>          Yellow Jacket Drilling Services          9460 Lucas Ranch Road          Rancho Cucamonga, CA 91730  <b><i>LICENSE #: C-57 1034407</i></b>  <b><i>PHONE:</i></b> (909) 989-8563</p>

***CONDITIONS:***

***SITE PLAN SHALL BE TO SCALE.***

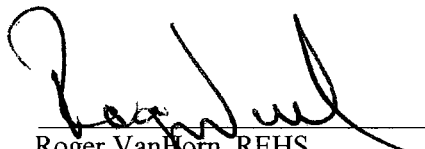
***NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.***

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

***DATE ISSUED: 8/7/2018***

***EXPIRATION DATE: 8/7/2019***

ISSUED BY:

  
 \_\_\_\_\_  
 Roger VanHorn, REHS  
 Supervising Drinking Water Protection Well Program

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 DIVISION OF ENVIRONMENTAL HEALTH  
 A CERTIFIED UNIFIED PROGRAM AGENCY  
 • 1270 Natividad Road, Salinas, CA 93906  
 Office (831) 755-4511 - Fax (831)796-8698



**MONITORING WELL PERMIT**

**PERMIT NO: HZ-18908, Well #: MW-OU2-59-A**

**(MCEH use only: SR0018908, FEE EXEMPT)**

- MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL            -DESTRUCTION

**SITE LOCATION:** *Northeast of Schoonover Drive & White Court, Marina*  
**APN #:** *031-101-032*

<p><b>SITE CONTACT PERSON:</b>          Derek Lieberman   <b>E-MAIL:</b> dlieberman@ahtna.net  <b>PHONE:</b> (831) 224-3327</p>	<p><b>OWNER:</b>          U.S. Army Corps of Engineers          1325 J Street          Sacramento, CA 95814  <b>PHONE:</b> (831) 393-9692</p>
<p><b>CONSULTANT:</b>          Ahtna Environmental, Inc.          296 12<sup>th</sup> Street          Marina, CA 93933   <b>PHONE:</b> (831) 224-3327</p>	<p><b>DRILLER:</b>          Yellow Jacket Drilling Services          9460 Lucas Ranch Road          Rancho Cucamonga, CA 91730  <b>LICENSE #:</b> C-57 1034407  <b>PHONE:</b> (909) 989-8563</p>

**CONDITIONS:**

**SITE PLAN SHALL BE TO SCALE.**

**NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.**

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018**

**EXPIRATION DATE: 8/7/2019**

ISSUED BY:



Roger VanHorn, REHS  
 Supervising Drinking Water Protection Well Program

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 Office (831) 755-4511 - Fax (831)796-8698



***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18909, Well #: MW-OU2-60-A**

**(MCEH use only: SR0018909, FEE EXEMPT)**

- MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL                      -DESTRUCTION

***SITE LOCATION: North of Combs Court, Marina***

***APN #: 031-101-032***

<p><b><i>SITE CONTACT PERSON:</i></b> Derek Lieberman</p> <p><b><i>E-MAIL:</i></b> dlieberman@ahtna.net  <b><i>PHONE:</i></b> (831) 224-3327</p>	<p><b><i>OWNER:</i></b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b><i>PHONE:</i></b> (831) 393-9692</p>
<p><b><i>CONSULTANT:</i></b> Ahtna Environmental, Inc. 296 12<sup>th</sup> Street Marina, CA 93933 <b><i>PHONE:</i></b> (831) 224-3327</p>	<p><b><i>DRILLER:</i></b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b><i>LICENSE #: C-57 1034407</i></b> <b><i>PHONE:</i></b> (909) 989-8563</p>

***CONDITIONS:***

***SITE PLAN SHALL BE TO SCALE.***

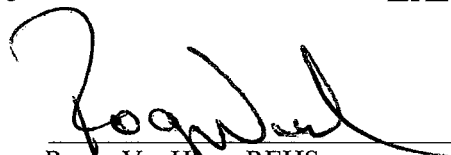
***NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.***

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

***DATE ISSUED: 8/7/2018***

***EXPIRATION DATE: 8/7/2019***

ISSUED BY:



Roger VanHorn, REHS  
 Supervising Drinking Water Protection Well Program



**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
Office (831) 755-4511 - Fax (831) 796-8698



***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18910, Well #: MW-BW-62-A**

**(MCEH use only: SR0018910, FEE EXEMPT)**

-MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

***SITE LOCATION: Parking lot area of Lexington Court, Marina***  
***APN #: 031-271-009***

<b><i>SITE CONTACT PERSON:</i></b> Derek Lieberman  <b><i>E-MAIL:</i></b> dlieberman@ahtna.net <b><i>PHONE:</i></b> (831) 224-3327	<b><i>OWNER:</i></b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b><i>PHONE:</i></b> (831) 393-9692
<b><i>CONSULTANT:</i></b> Ahtna Environmental, Inc. 296 12 <sup>th</sup> Street Marina, CA 93933  <b><i>PHONE:</i></b> (831) 224-3327	<b><i>DRILLER:</i></b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b><i>LICENSE #: C-57 1034407</i></b> <b><i>PHONE:</i></b> (909) 989-8563

***CONDITIONS:***

***SITE PLAN SHALL BE TO SCALE.***

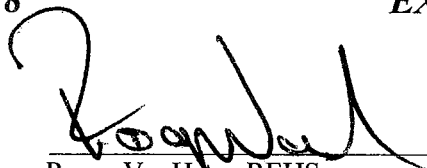
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***DATE ISSUED: 8/7/2018***

***EXPIRATION DATE: 8/7/2019***

ISSUED BY:

  
\_\_\_\_\_  
Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
Office (831) 755-4511 - Fax (831)796-8698



***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18911, Well #: MW-BW-64-A**

**(MCEH use only: SR0018911, FEE EXEMPT)**

-MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

***SITE LOCATION: Parking lot area of Ready Court, Marina***

***APN #: 031-201-027***

<b><i>SITE CONTACT PERSON:</i></b> Derek Lieberman  <b><i>E-MAIL:</i></b> dlieberman@ahtna.net <b><i>PHONE:</i></b> (831) 224-3327	<b><i>OWNER:</i></b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b><i>PHONE:</i></b> (831) 393-9692
<b><i>CONSULTANT:</i></b> Ahtna Environmental, Inc. 296 12 <sup>th</sup> Street Marina, CA 93933  <b><i>PHONE:</i></b> (831) 224-3327	<b><i>DRILLER:</i></b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b><i>LICENSE #:</i></b> C-57 1034407 <b><i>PHONE:</i></b> (909) 989-8563

***CONDITIONS:***

***SITE PLAN SHALL BE TO SCALE.***

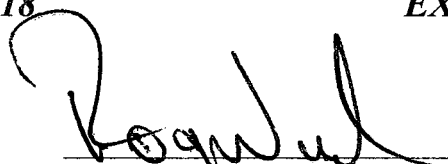
***NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.***

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

***DATE ISSUED: 8/7/2018***

***EXPIRATION DATE: 8/7/2019***

ISSUED BY:

  
\_\_\_\_\_  
Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
Office (831) 755-4511 - Fax (831)796-8698



***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18912, Well #: MW-BW-68-A**

**(MCEH use only: SR0018912, FEE EXEMPT)**

- MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

***SITE LOCATION: North of Lexington Court & West of Ready Court, Marina***  
***APN #: 031-201-027***

<b><i>SITE CONTACT PERSON:</i></b> Derek Lieberman  <b><i>E-MAIL:</i></b> dlieberman@ahtna.net <b><i>PHONE:</i></b> (831) 224-3327	<b><i>OWNER:</i></b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b><i>PHONE:</i></b> (831) 393-9692
<b><i>CONSULTANT:</i></b> Ahtna Environmental, Inc. 296 12 <sup>th</sup> Street Marina, CA 93933  <b><i>PHONE:</i></b> (831) 224-3327	<b><i>DRILLER:</i></b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b><i>LICENSE #: C-57 1034407</i></b> <b><i>PHONE:</i></b> (909) 989-8563

***CONDITIONS:***

***SITE PLAN SHALL BE TO SCALE.***

***NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.***

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

***DATE ISSUED: 8/7/2018***

***EXPIRATION DATE: 8/7/2019***

ISSUED BY:

Roger VanHorn, REHS  
Supervising Drinking Water Protection Well Program

**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
Office (831) 755-4511 - Fax (831)796-8698



***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18913, Well #: MW-BW-69-A**

**(MCEH use only: SR0018913, FEE EXEMPT)**

-MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

***SITE LOCATION: North of Lexington Court & West of Ready Court, Marina  
APN #: 031-201-027***

<b>SITE CONTACT PERSON:</b> Derek Lieberman  <b>E-MAIL:</b> dlieberman@ahtna.net <b>PHONE:</b> (831) 224-3327	<b>OWNER:</b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b>PHONE:</b> (831) 393-9692
<b>CONSULTANT:</b> Ahtna Environmental, Inc. 296 12 <sup>th</sup> Street Marina, CA 93933  <b>PHONE:</b> (831) 224-3327	<b>DRILLER:</b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b>LICENSE #: C-57 1034407</b> <b>PHONE:</b> (909) 989-8563

**CONDITIONS:**

***SITE PLAN SHALL BE TO SCALE.***

***NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.***

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/6/2018**

**EXPIRATION DATE: 8/6/2019**

ISSUED BY:

  
\_\_\_\_\_  
Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
Office (831) 755-4511 - Fax (831)796-8698



***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18914, Well #: MW-BW-70-A**

**(MCEH use only: SR0018914, FEE EXEMPT)**

-MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

***SITE LOCATION: East of Lexington Court and West of Imjin Parkway, Marina  
APN #: 031-081-010***

<b>SITE CONTACT PERSON:</b> Derek Lieberman  <b>E-MAIL:</b> dlieberman@ahtna.net <b>PHONE:</b> (831) 224-3327	<b>OWNER:</b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b>PHONE:</b> (831) 393-9692
<b>CONSULTANT:</b> Ahtna Environmental, Inc. 296 12 <sup>th</sup> Street Marina, CA 93933  <b>PHONE:</b> (831) 224-3327	<b>DRILLER:</b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b>LICENSE #: C-57 1034407</b> <b>PHONE:</b> (909) 989-8563

**CONDITIONS:**

***SITE PLAN SHALL BE TO SCALE.***

***NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.***

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018**

**EXPIRATION DATE: 8/7/2019**

ISSUED BY:

  
\_\_\_\_\_  
Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
Office (831) 755-4511 - Fax (831)796-8698



***MONITORING WELL PERMIT***

**PERMIT NO: HZ-18915, Well #: MW-BW-20-180**

**(MCEH use only: SR0018915, FEE EXEMPT)**

-MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

***SITE LOCATION: South of Reservation Rd & North of Bailey Court, Marina  
APN #: 031-271-008***

<b>SITE CONTACT PERSON:</b> Derek Lieberman  <b>E-MAIL:</b> dlieberman@ahtna.net <b>PHONE:</b> (831) 224-3327	<b>OWNER:</b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b>PHONE:</b> (831) 393-9692
<b>CONSULTANT:</b> Ahtna Environmental, Inc. 296 12 <sup>th</sup> Street Marina, CA 93933  <b>PHONE:</b> (831) 224-3327	<b>DRILLER:</b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b>LICENSE #: C-57 1034407</b> <b>PHONE:</b> (909) 989-8563

**CONDITIONS:**

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**DATE ISSUED: 8/7/2018**

**EXPIRATION DATE: 8/7/2019**

ISSUED BY:

  
\_\_\_\_\_  
Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
Office (831) 755-4511 - Fax (831)796-8698



**MONITORING WELL PERMIT**

**PERMIT NO: HZ-18916, Well #: MW-BW-22-180**

**(MCEH use only: SR0018916, FEE EXEMPT)**

-MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

**SITE LOCATION:** *South of Reservation Rd & North of Wittenmyer Court, Marina*  
**APN #:** 031-271-008

<b>SITE CONTACT PERSON:</b> Derek Lieberman  <b>E-MAIL:</b> dlieberman@ahtna.net <b>PHONE:</b> (831) 224-3327	<b>OWNER:</b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b>PHONE:</b> (831) 393-9692
<b>CONSULTANT:</b> Ahtna Environmental, Inc. 296 12 <sup>th</sup> Street Marina, CA 93933  <b>PHONE:</b> (831) 224-3327	<b>DRILLER:</b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b>LICENSE #: C-57 1034407</b> <b>PHONE:</b> (909) 989-8563

**CONDITIONS:**

**SITE PLAN SHALL BE TO SCALE.**

**NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.**

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**DATE ISSUED: 8/7/2018**

**EXPIRATION DATE: 8/7/2019**

ISSUED BY:



Roger VanHorn, REHS  
Supervising Drinking Water Protection Well Program

**MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY**

• 1270 Natividad Road, Salinas, CA 93906  
Office (831) 755-4511 - Fax (831)796-8698



**MONITORING WELL PERMIT**

**PERMIT NO: HZ-18917, Well #: MW-BW-29-180**

**(MCEH use only: SR0018917, FEE EXEMPT)**

- MONITORING WELL                      -CONSTRUCTION  
-VAPOR EXTRACTION WELL              -DESTRUCTION

**SITE LOCATION:** *North of Reservation Rd & West of Imjin Parkway in UC Reserve, Marina*

**APN #: 031-111-032**

<p><b>SITE CONTACT PERSON:</b> Derek Lieberman</p> <p><b>E-MAIL:</b> dlieberman@ahtna.net <b>PHONE:</b> (831) 224-3327</p>	<p><b>OWNER:</b> U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 <b>PHONE:</b> (831) 393-9692</p>
<p><b>CONSULTANT:</b> Ahtna Environmental, Inc. 296 12<sup>th</sup> Street Marina, CA 93933 <b>PHONE:</b> (831) 224-3327</p>	<p><b>DRILLER:</b> Yellow Jacket Drilling Services 9460 Lucas Ranch Road Rancho Cucamonga, CA 91730 <b>LICENSE #: C-57 1034407</b> <b>PHONE:</b> (909) 989-8563</p>

**CONDITIONS:**

*SITE PLAN SHALL BE TO SCALE.*

**NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.**

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018**

**EXPIRATION DATE: 8/7/2019**

ISSUED BY:

Roger VanHorn, REHS  
Supervising Drinking Water Protection Well Program



## **APPENDIX C**

### **Well Decommissioning Logs**

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/23/18 COMPLETED 8/23/18 NOTES In Biologically Sensitive Area

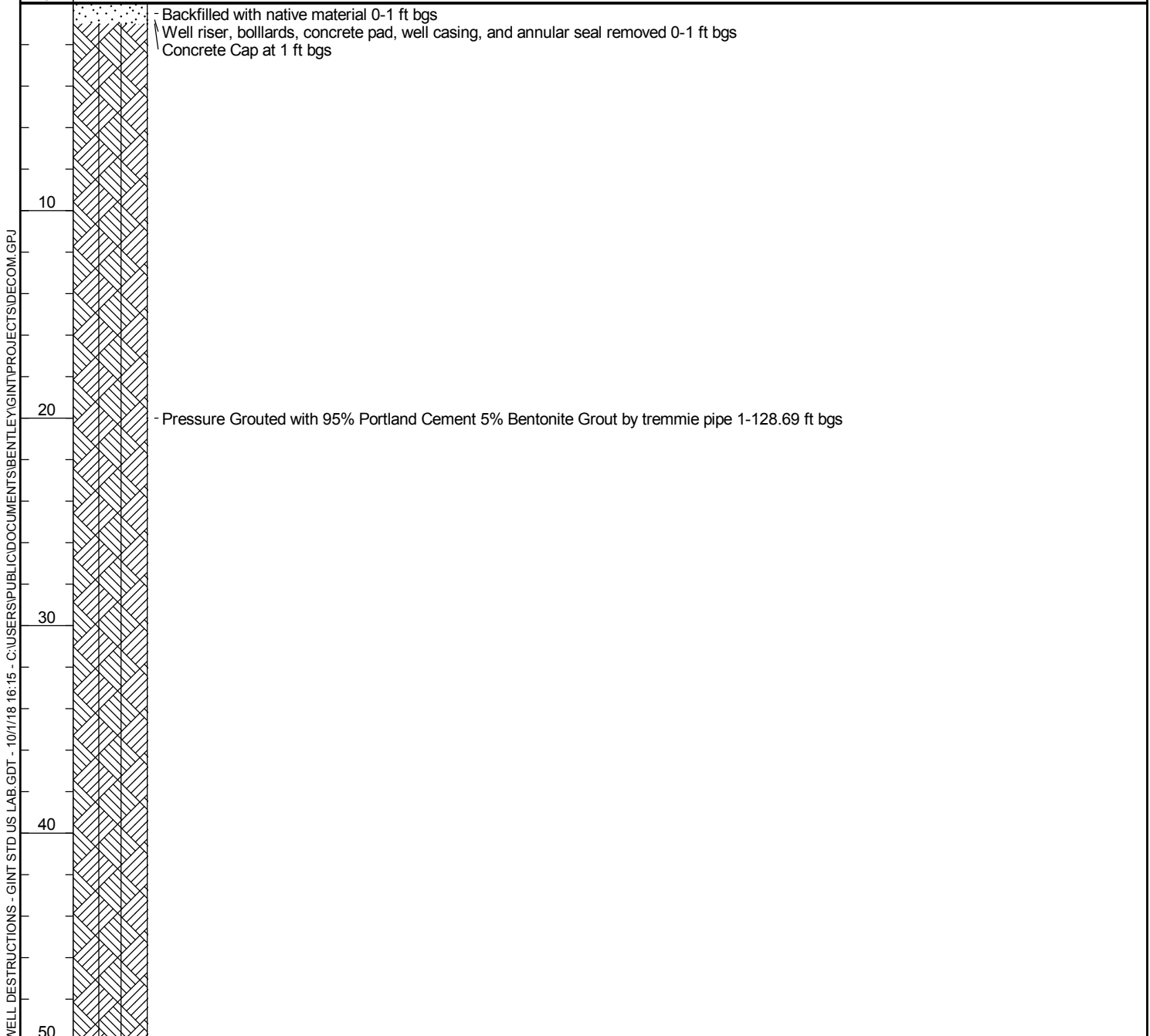
DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 4 inches

DEPTH (ft)

0

WELL ABANDONMENT PROFILE



CLIENT U.S. Army Corps of Engineers

PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048

PROJECT LOCATION Former Fort Ord, California

DEPTH  
(ft)

### WELL ABANDONMENT PROFILE

50

60

70

80

90

100

Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 1-128.69 ft bgs

WELL DESTRUCTIONS - GINT STD US LAB GDT - 10/1/18 16:15 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\DECOM.GPJ

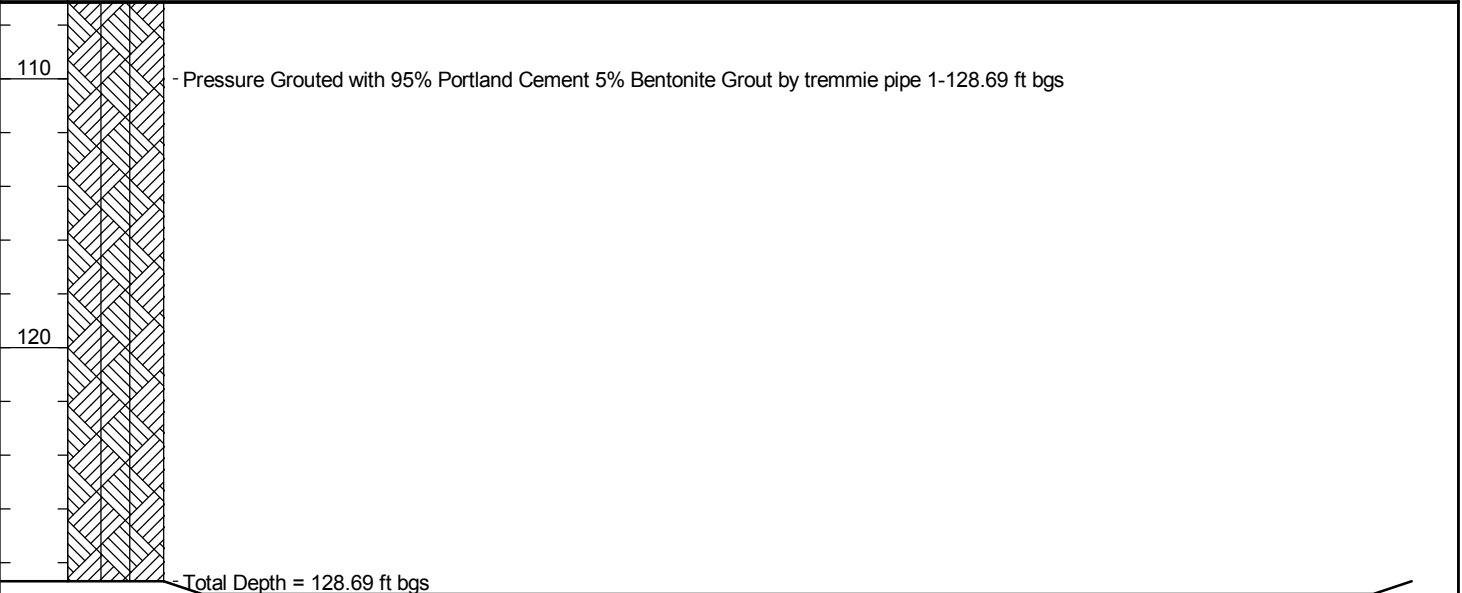
(Continued Next Page)

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:15 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\DECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/25/18 COMPLETED 8/25/18 NOTES \_\_\_\_\_

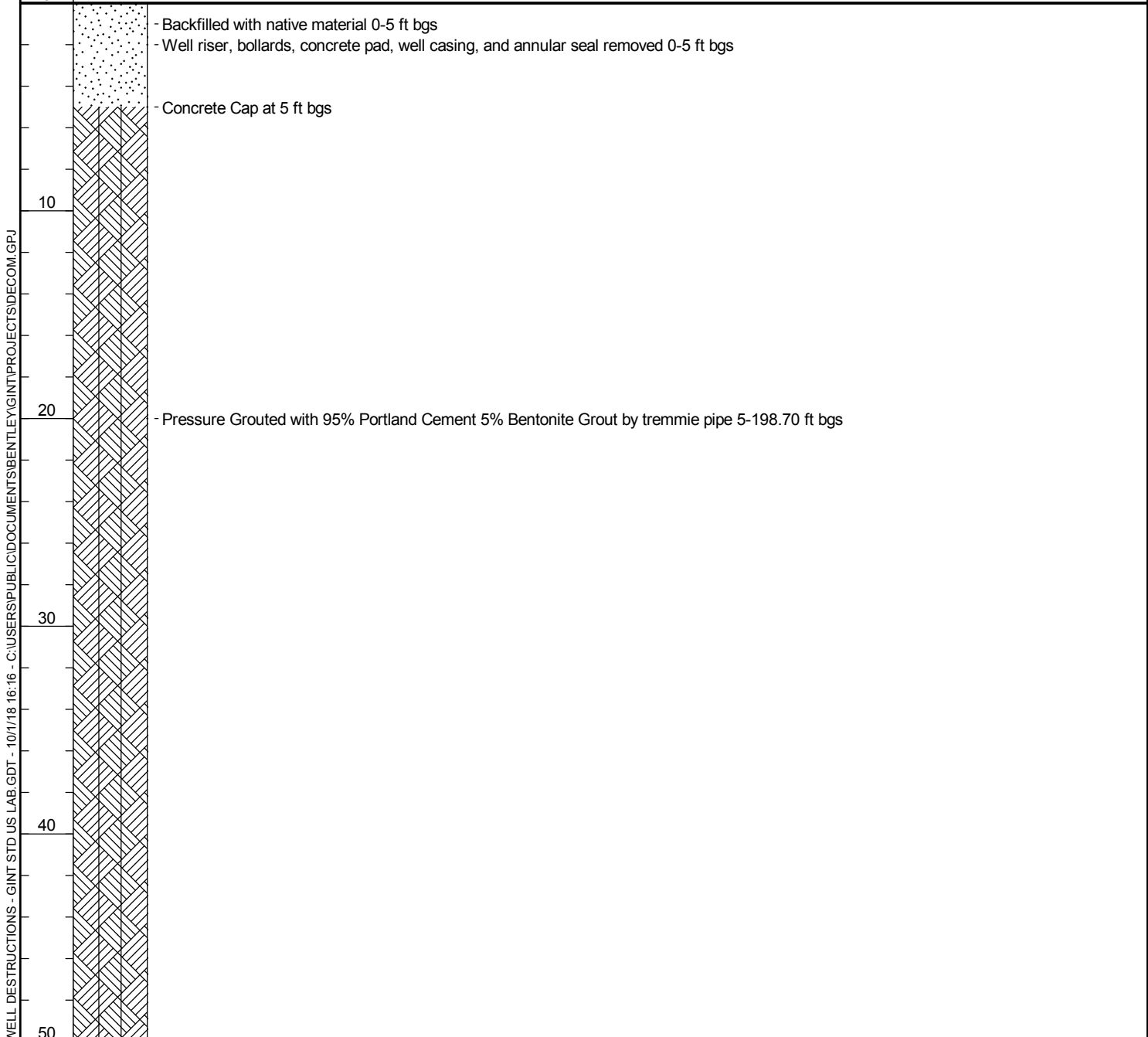
DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches

DEPTH (ft)

0

WELL ABANDONMENT PROFILE



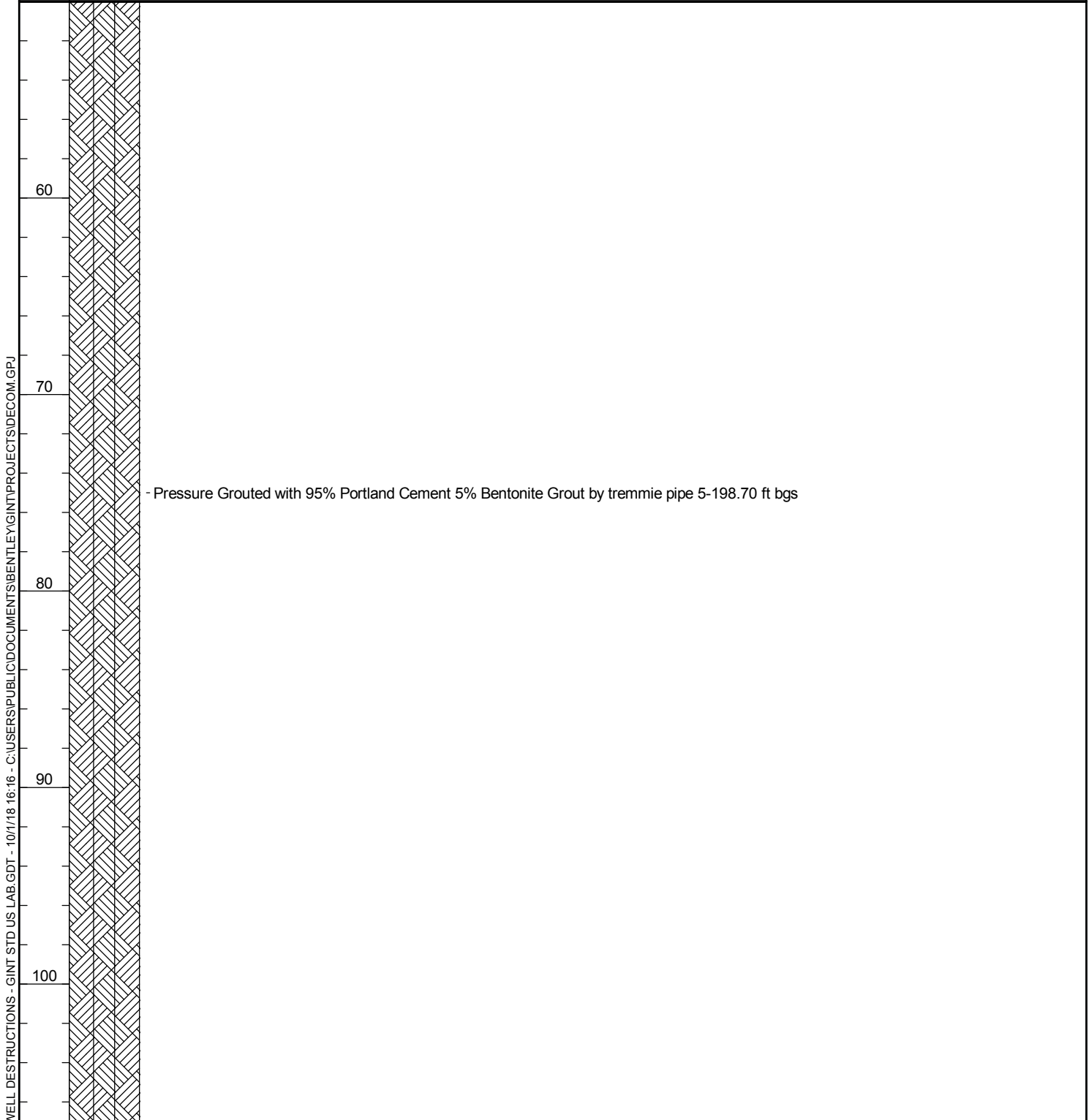
CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

50

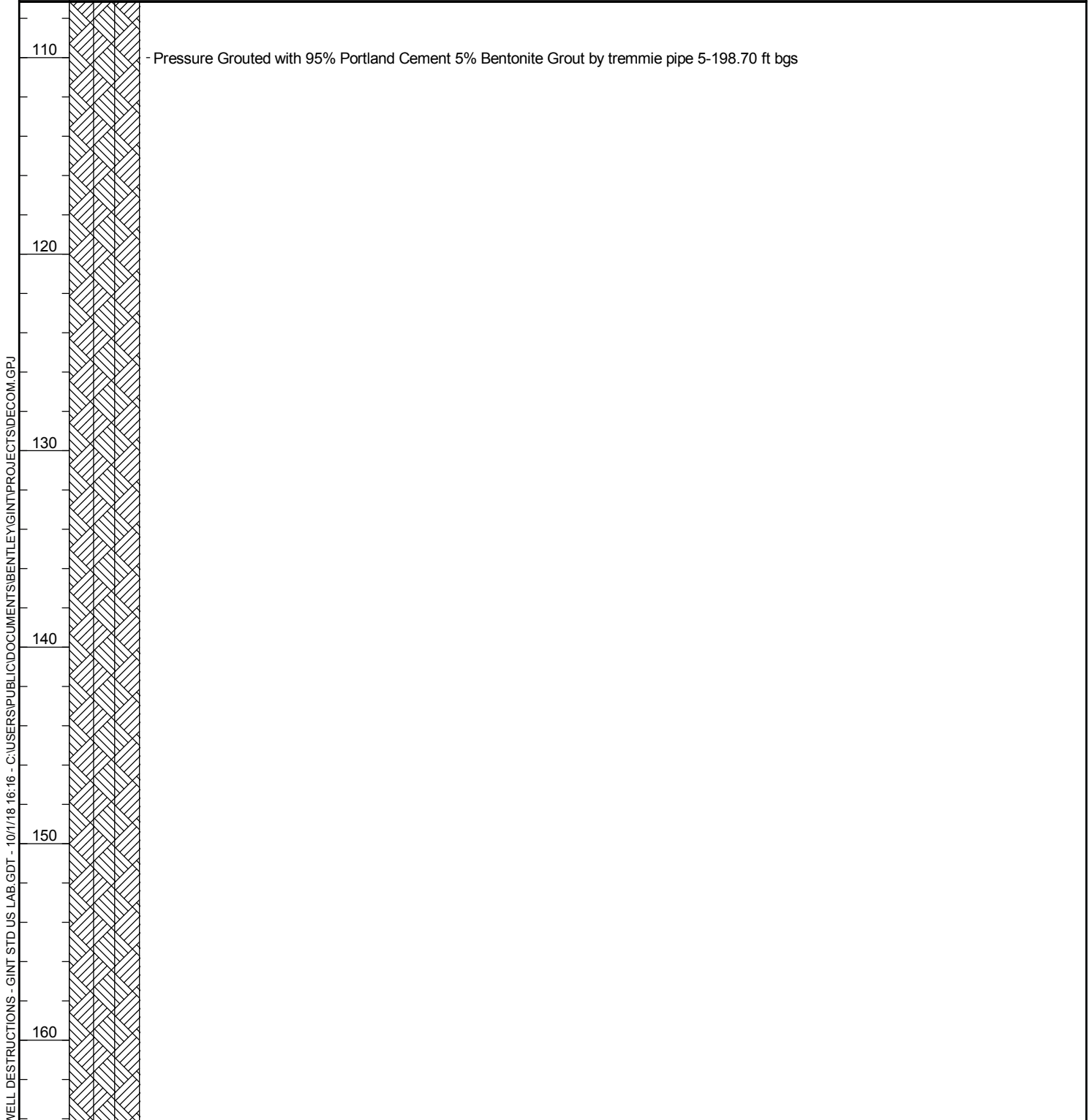
WELL ABANDONMENT PROFILE



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning  
PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

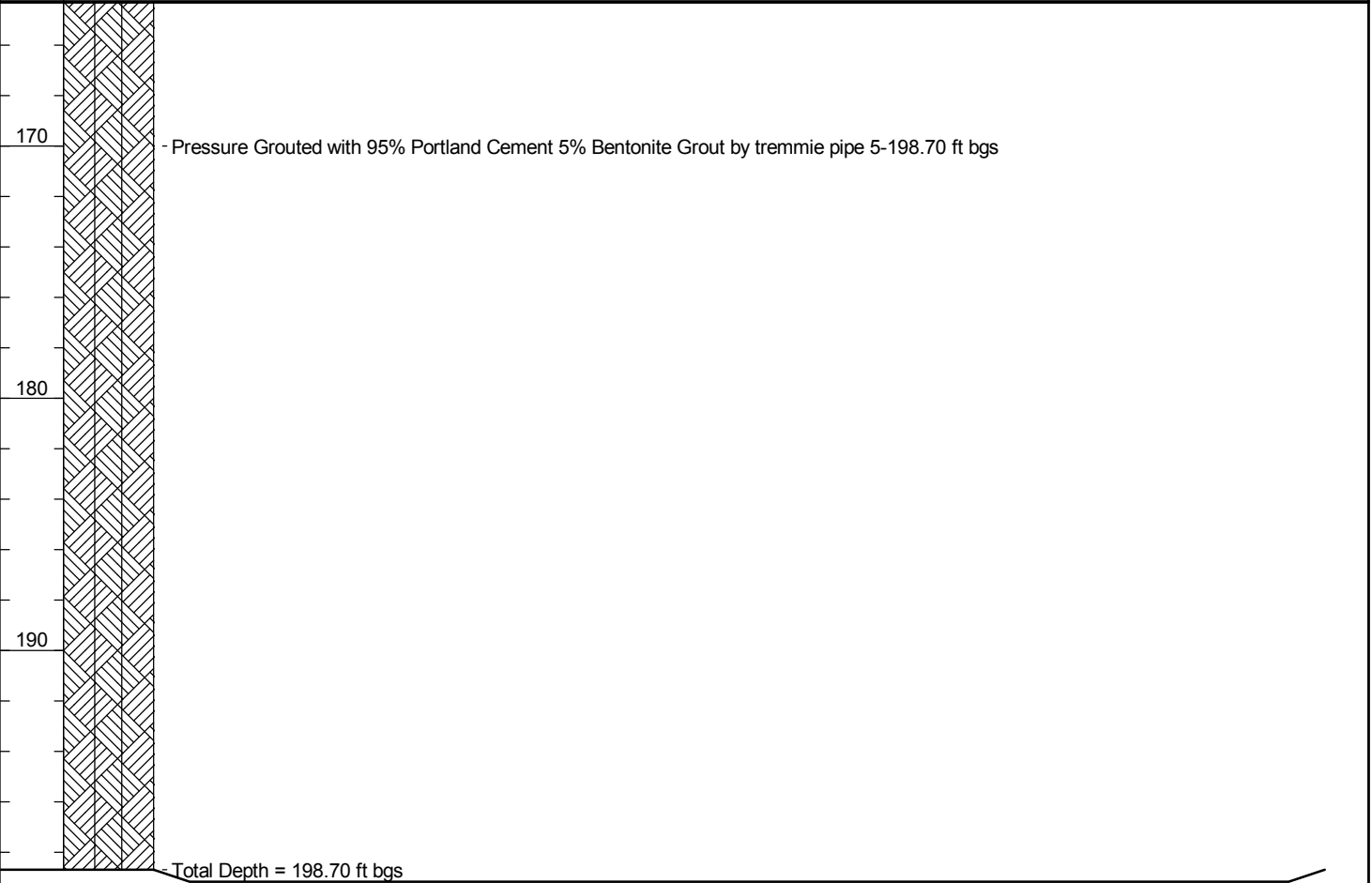
WELL ABANDONMENT PROFILE



(Continued Next Page)

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning  
PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft) WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/25/18 COMPLETED 8/26/18 NOTES \_\_\_\_\_

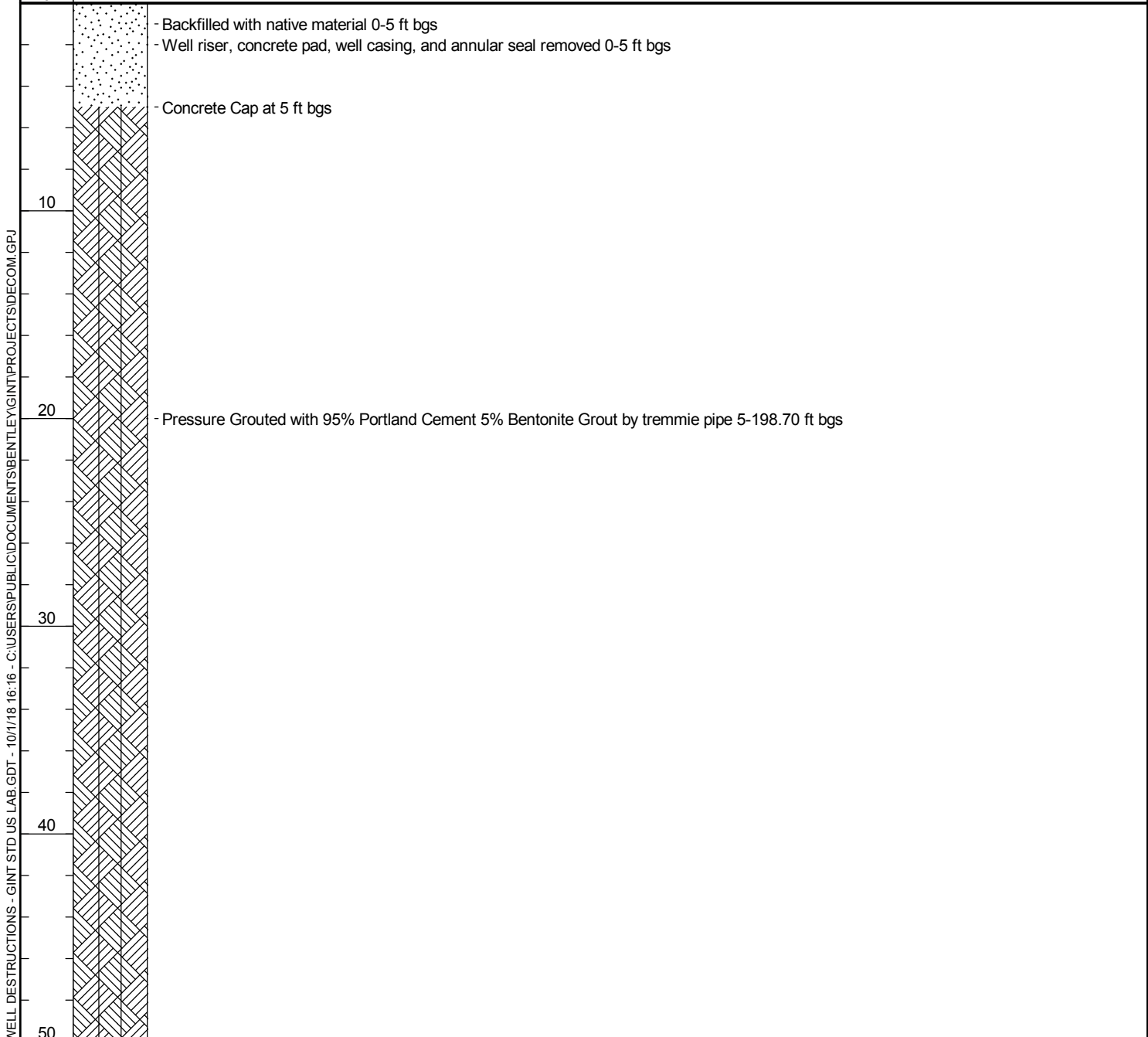
DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches

DEPTH (ft)

0

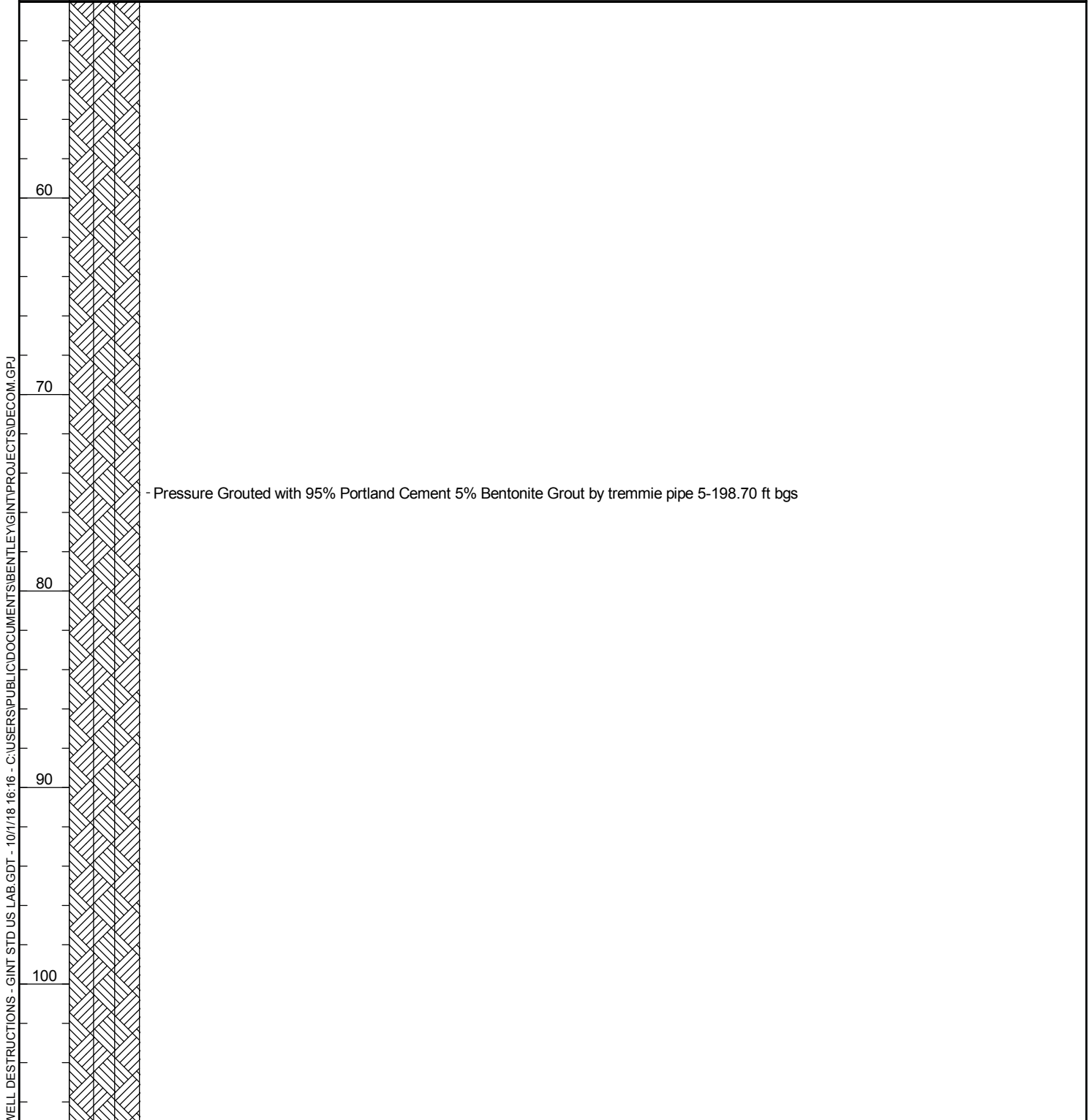
WELL ABANDONMENT PROFILE



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

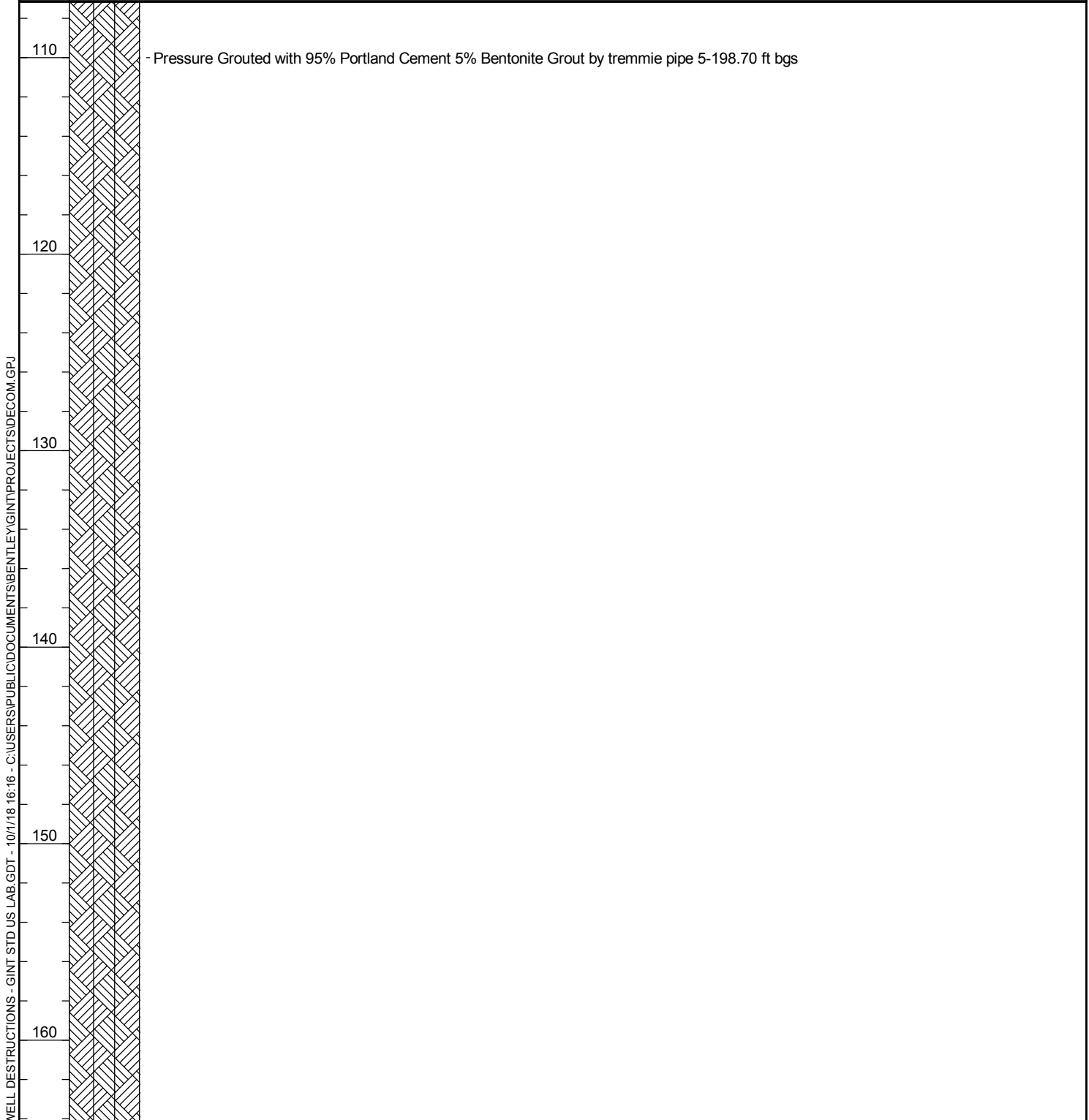
DEPTH (ft) WELL ABANDONMENT PROFILE



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning  
PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

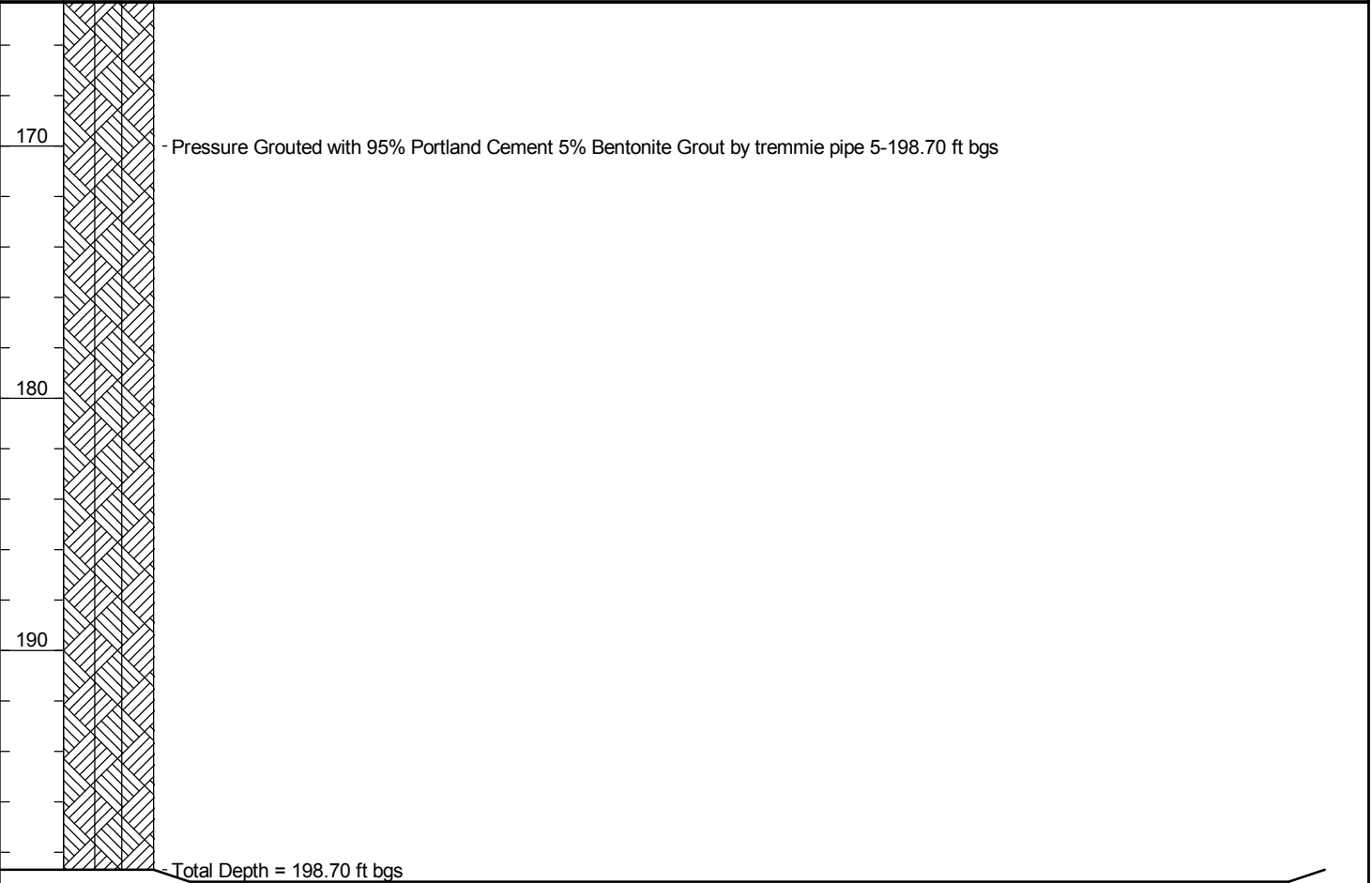
WELL ABANDONMENT PROFILE



(Continued Next Page)

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning  
PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft) WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/23/18 COMPLETED 8/23/18 NOTES In Biologically Sensitive Area

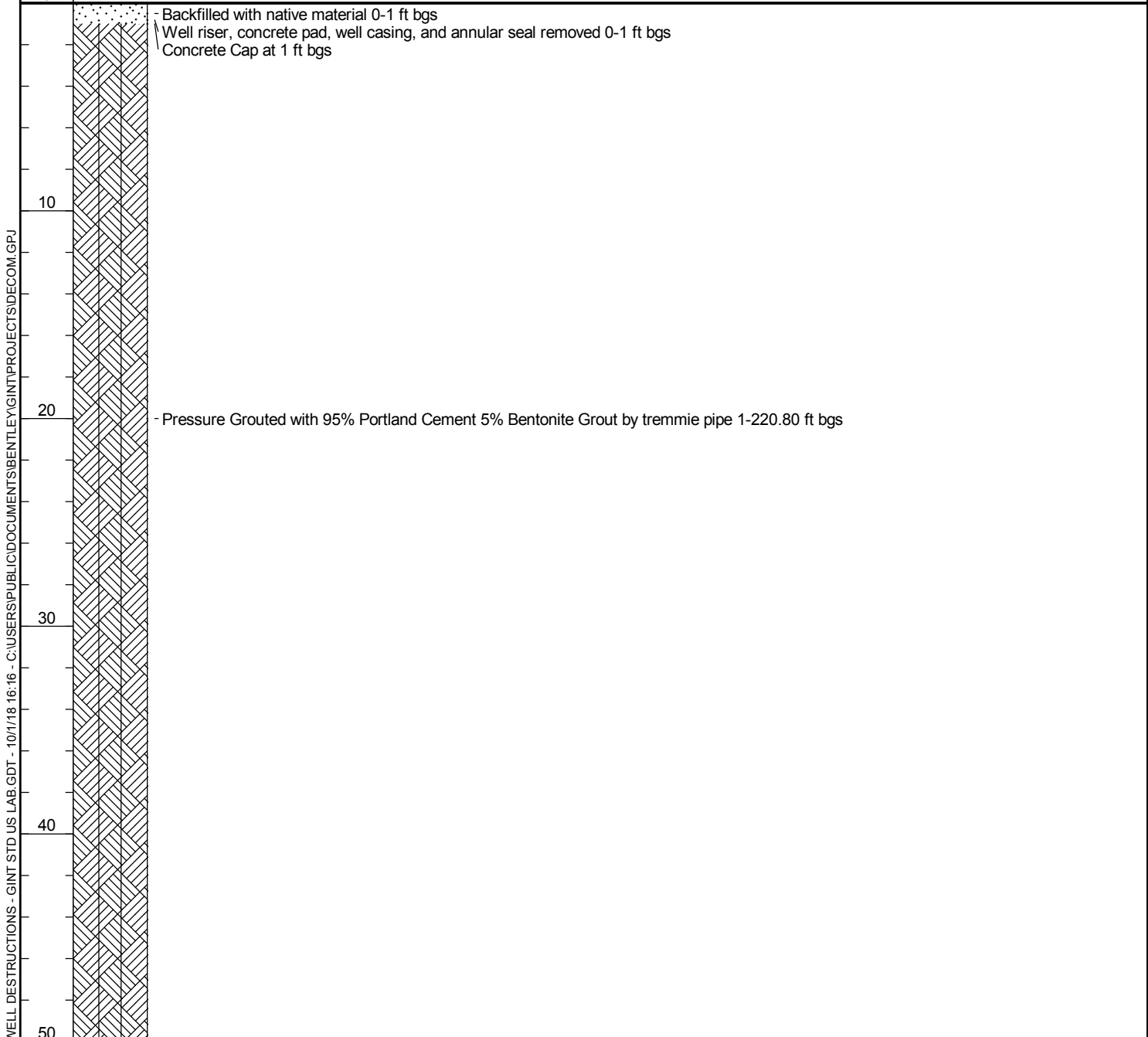
DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches

DEPTH (ft)

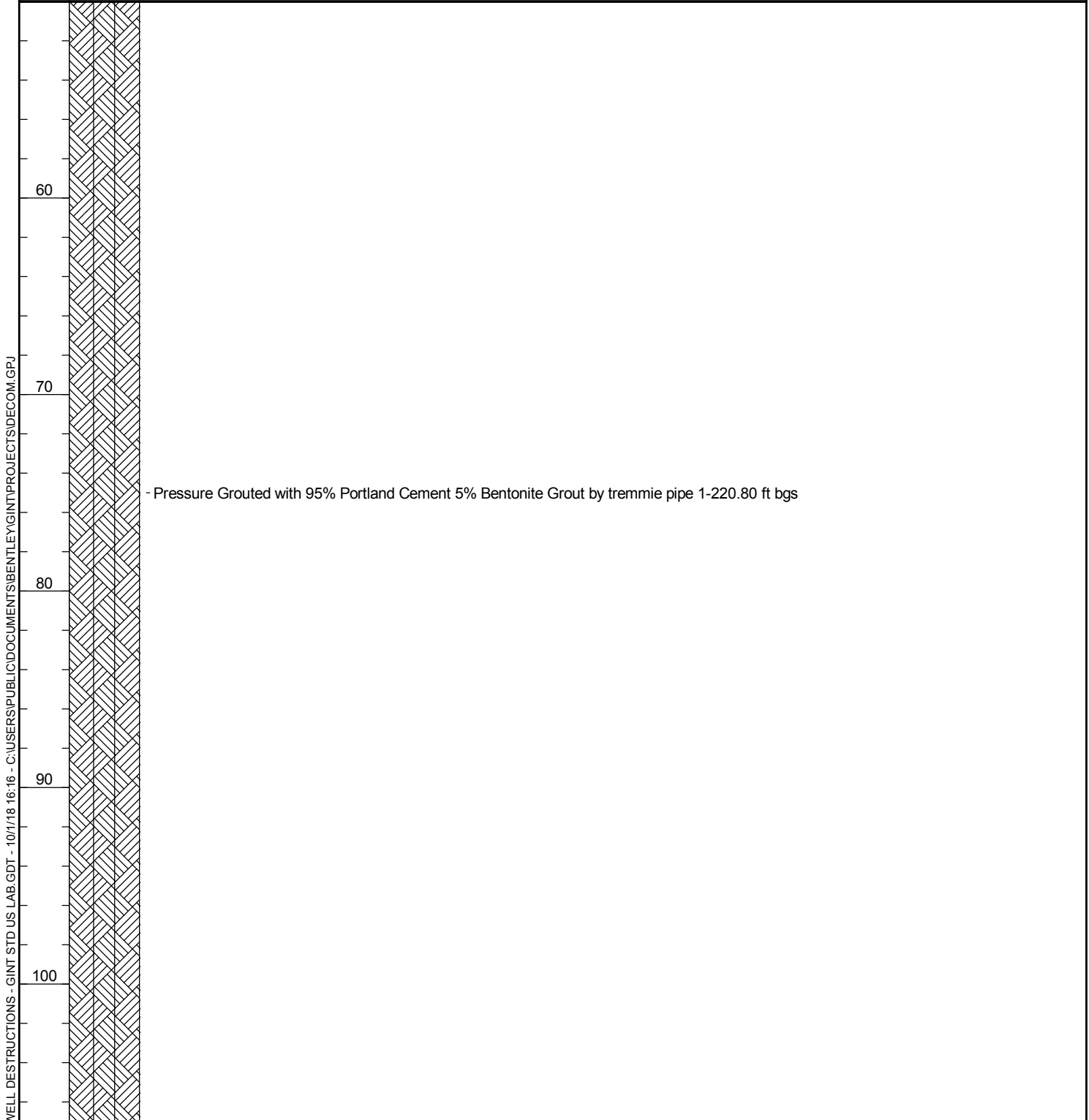
0

WELL ABANDONMENT PROFILE



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning  
PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft) WELL ABANDONMENT PROFILE

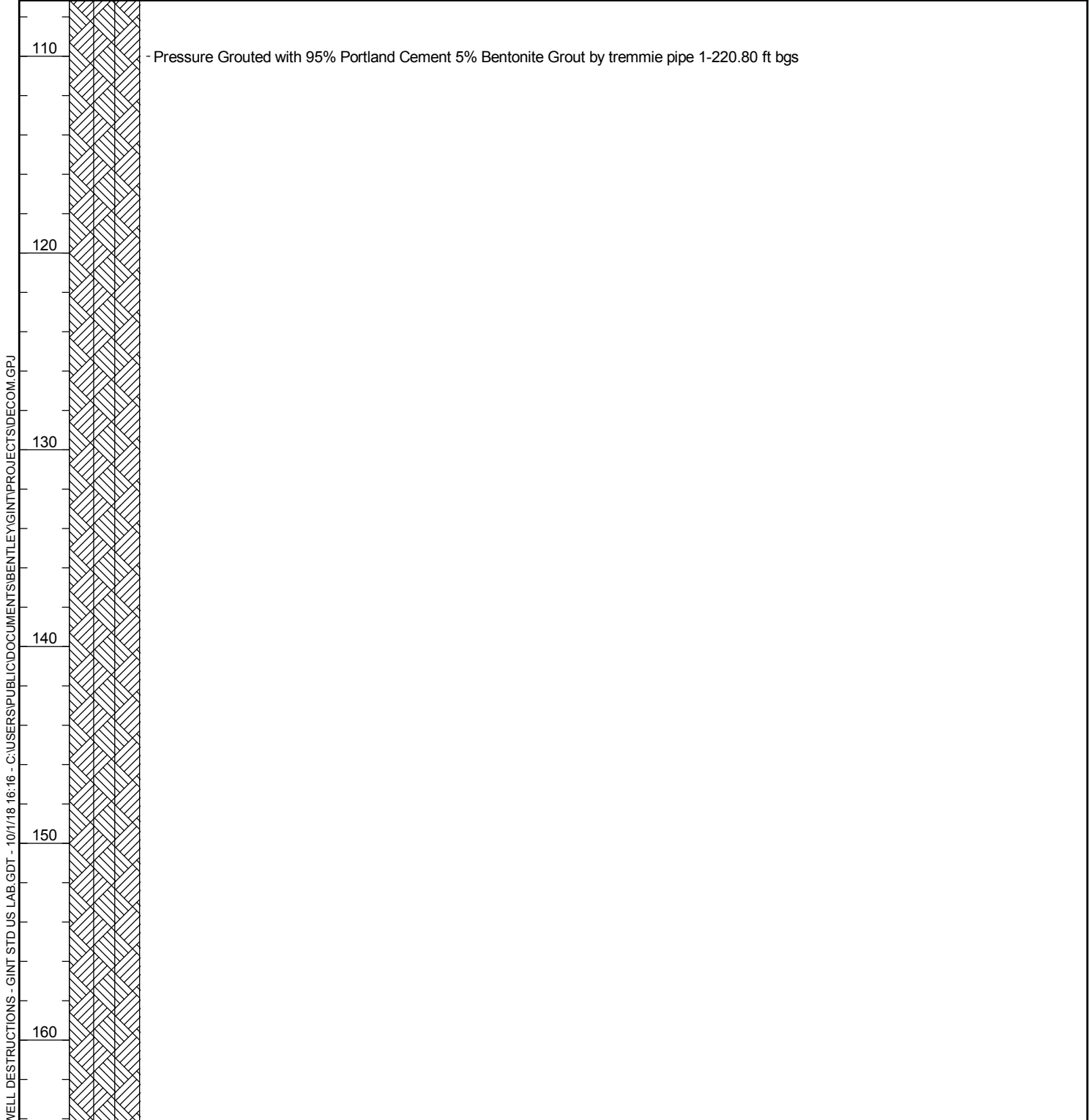


CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

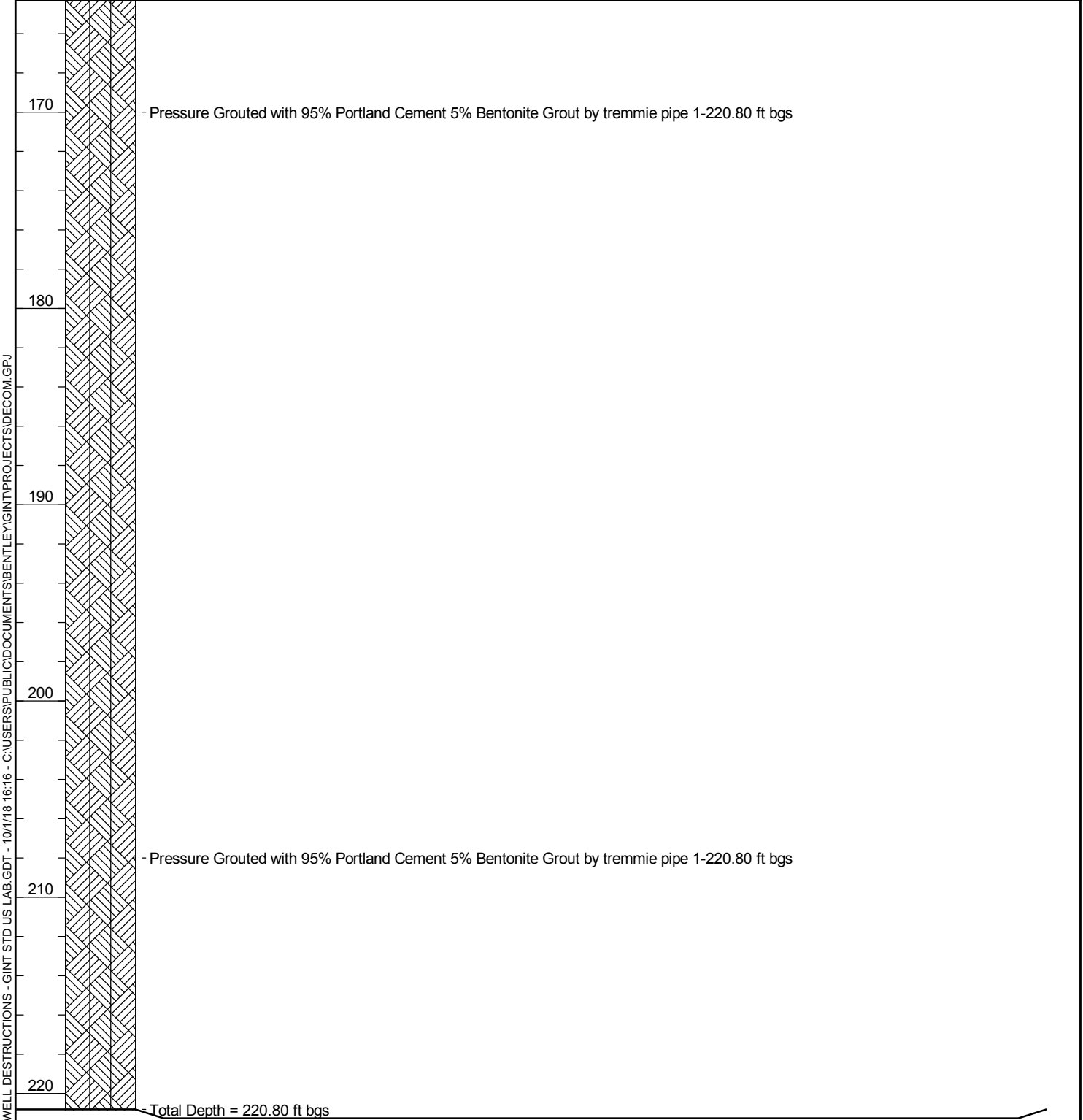
WELL ABANDONMENT PROFILE



(Continued Next Page)

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning  
PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft) WELL ABANDONMENT PROFILE



(Continued Next Page)



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/24/18 COMPLETED 8/25/18 NOTES \_\_\_\_\_

DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches

DEPTH  
(ft)

### WELL ABANDONMENT PROFILE

0

- Backfilled with sand in well vault 0-3 ft bgs
- Well vault lid, well casing, and annular seal removed 0-5 ft bgs

- Concrete Cap at 5 ft bgs

10

20

- Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 5-126 ft bgs

30

40

50

WELL DESTRUCTIONS - GINT STD US LAB GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

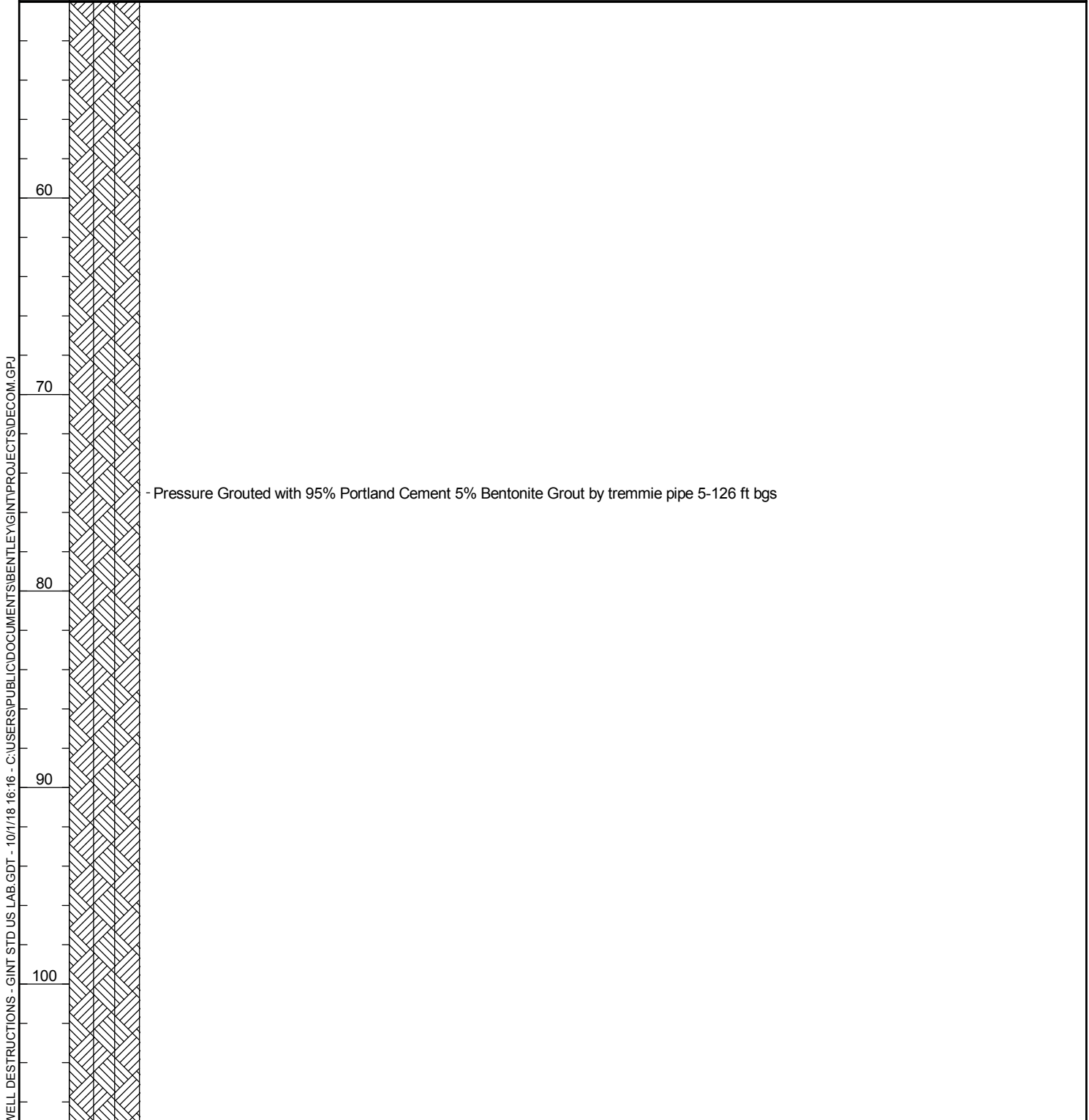
CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

50

WELL ABANDONMENT PROFILE

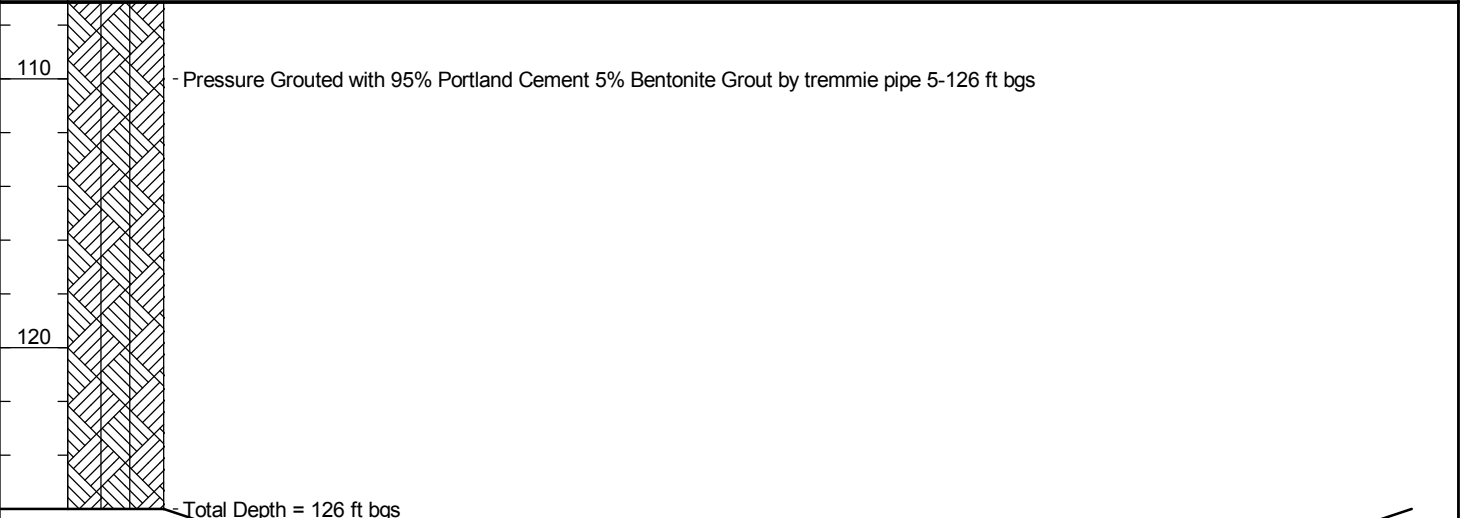


CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\DECOM.GPJ

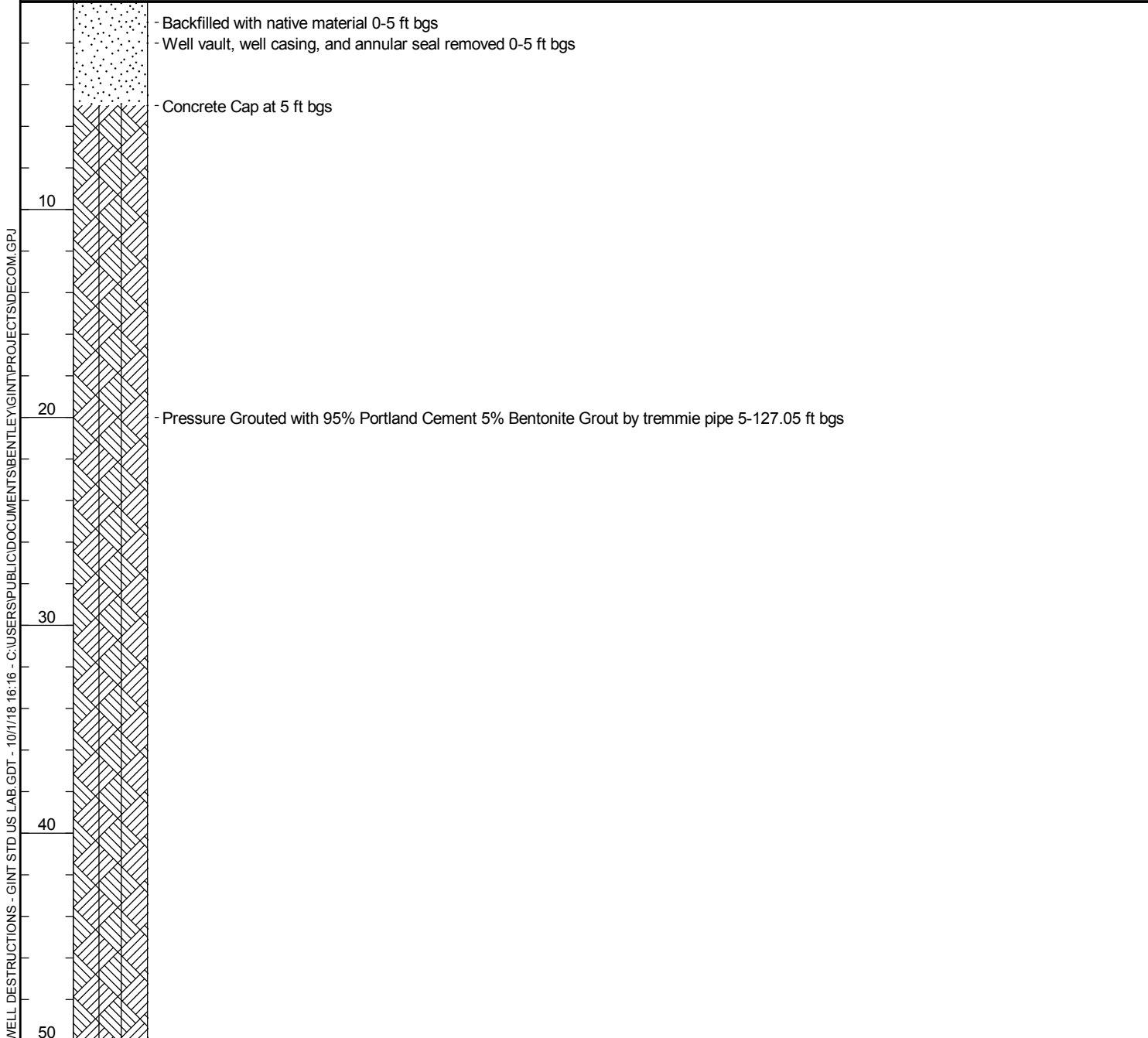
CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/22/18 COMPLETED 8/22/18 NOTES \_\_\_\_\_

DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches



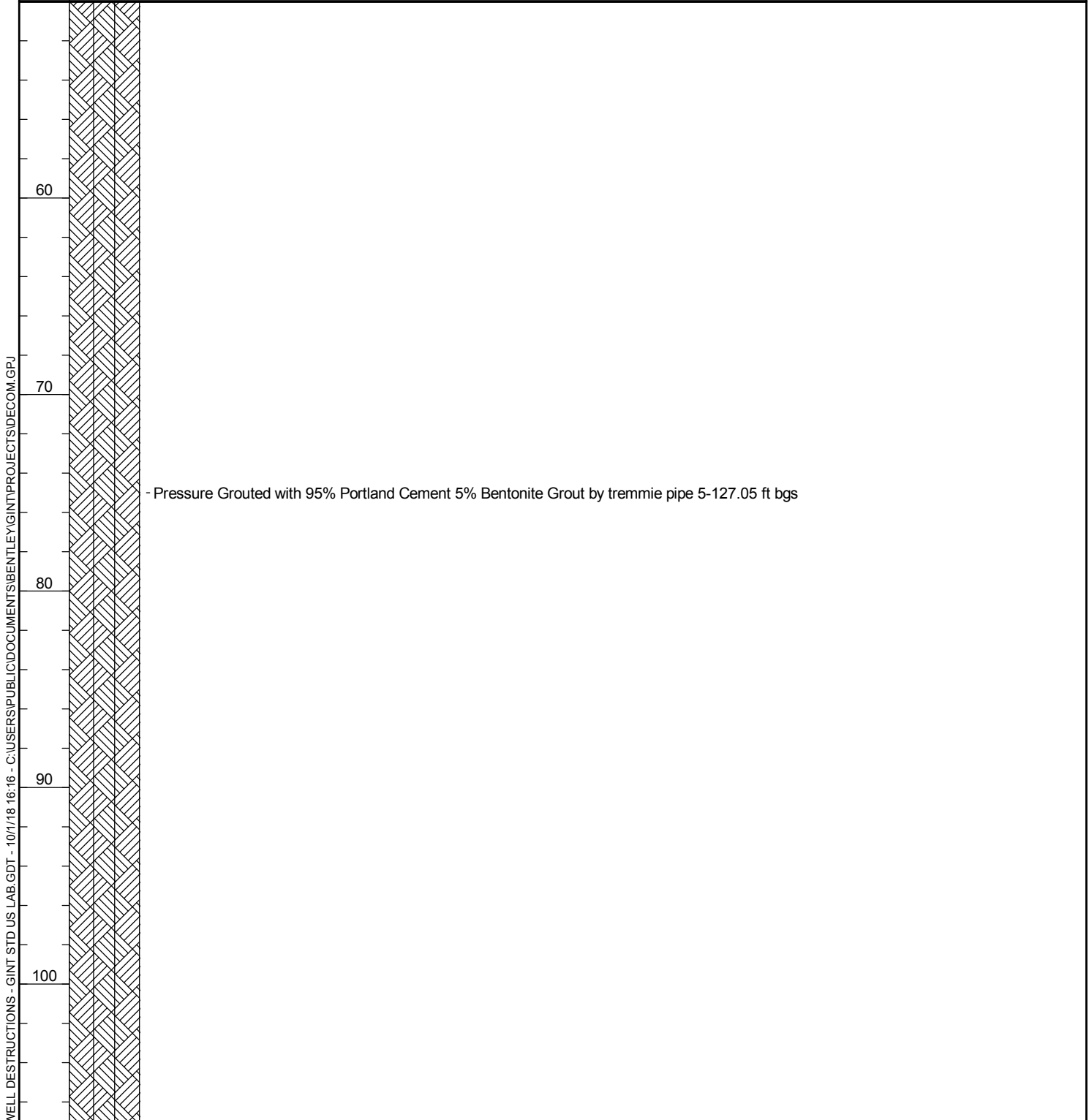
CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

50

WELL ABANDONMENT PROFILE

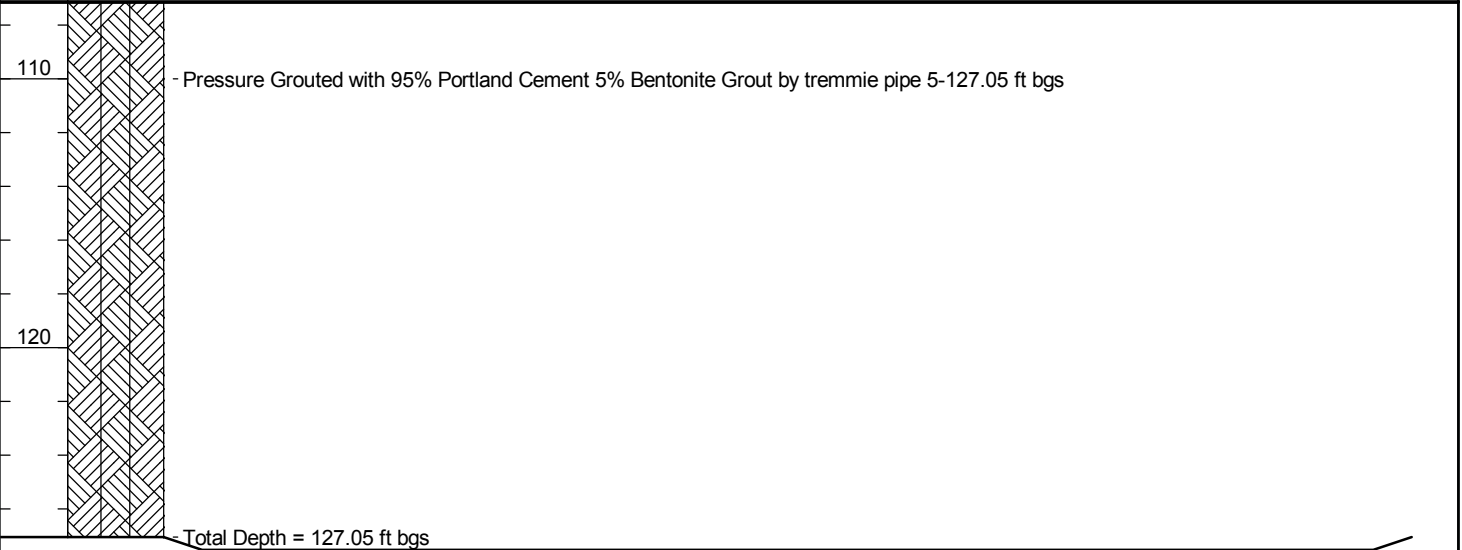


CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\DECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/24/18 COMPLETED 8/24/18 NOTES \_\_\_\_\_

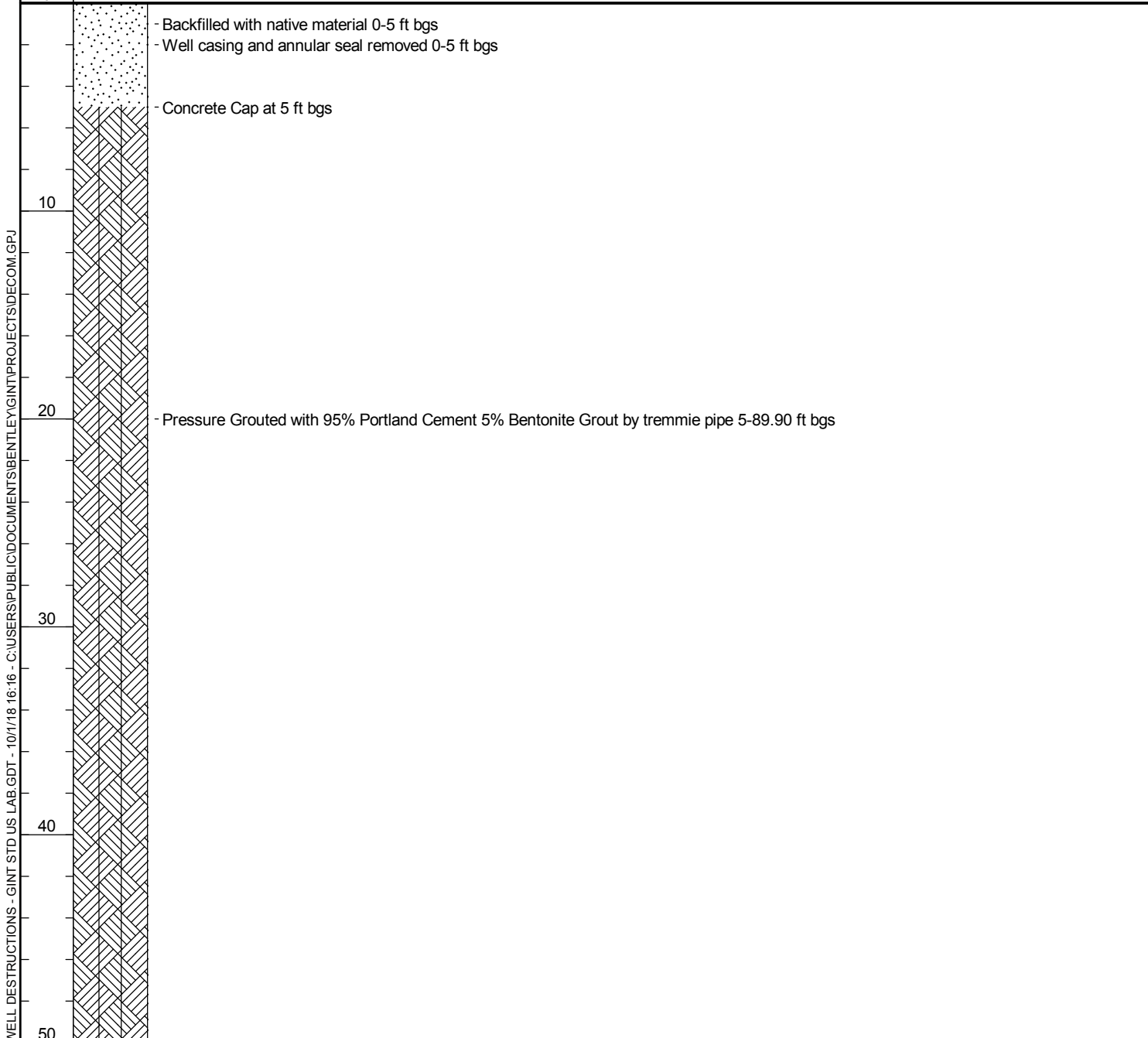
DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 4 inches

DEPTH (ft)

0

WELL ABANDONMENT PROFILE



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft) WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/24/18 COMPLETED 8/24/18 NOTES \_\_\_\_\_

DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 4 inches



- Backfilled with native material 0-5 ft bgs  
- Well casing and annular seal removed 0-5 ft bgs

- Concrete Cap at 5 ft bgs

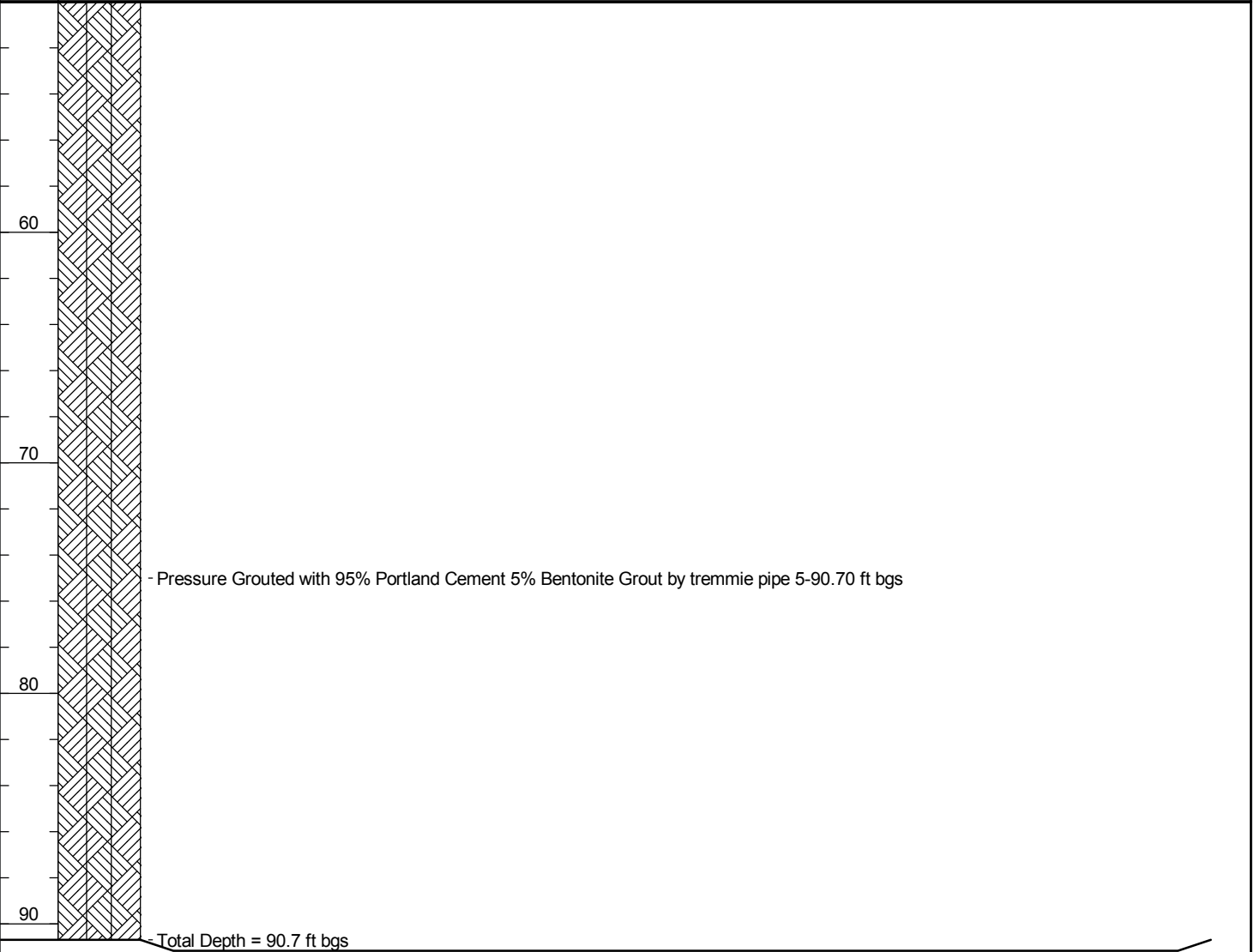
- Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 5-90.70 ft bgs

WELL DESTRUCTIONS - GINT STD US LAB GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft) WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/24/18 COMPLETED 8/24/18 NOTES \_\_\_\_\_

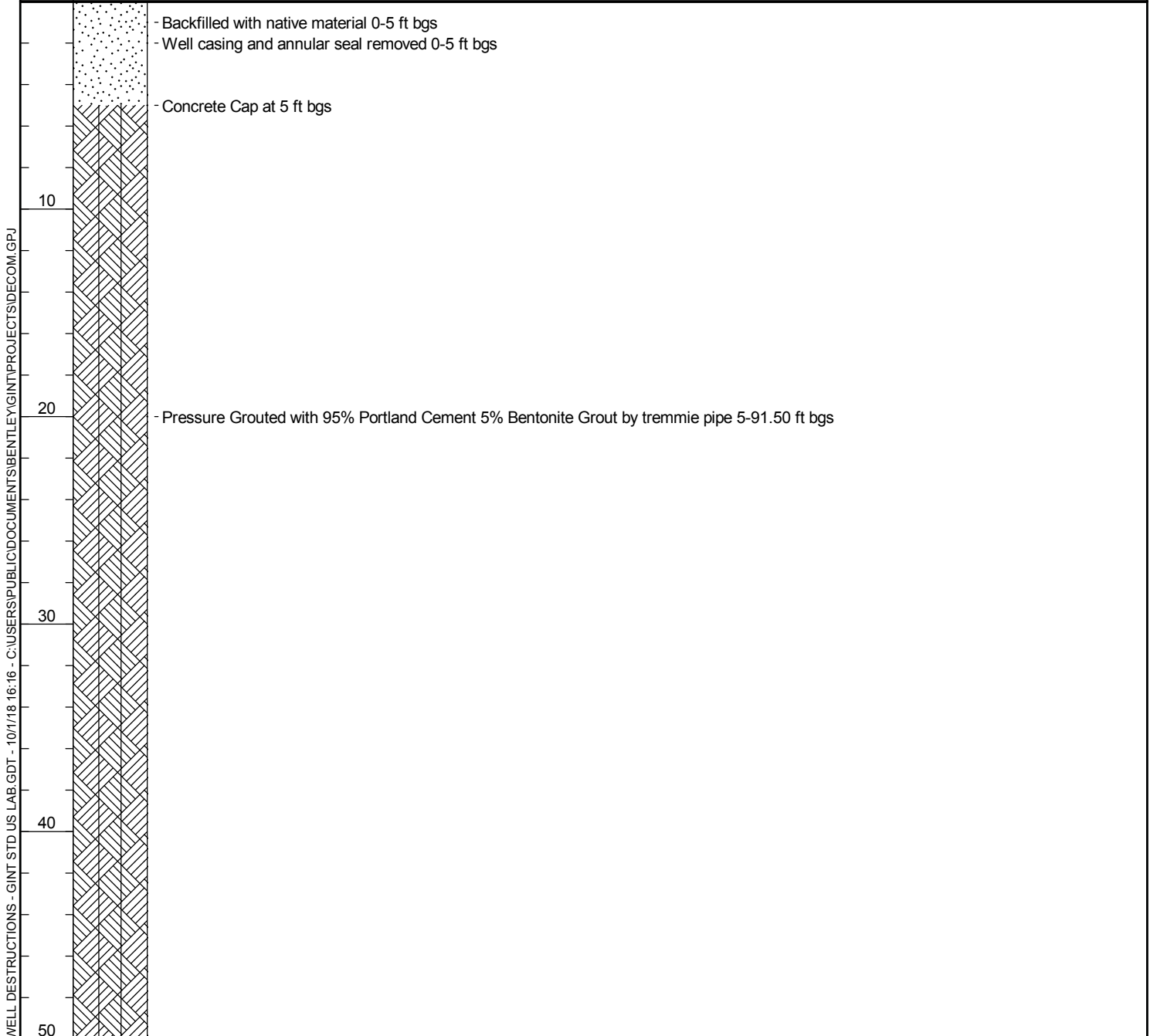
DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 4 inches

DEPTH (ft)

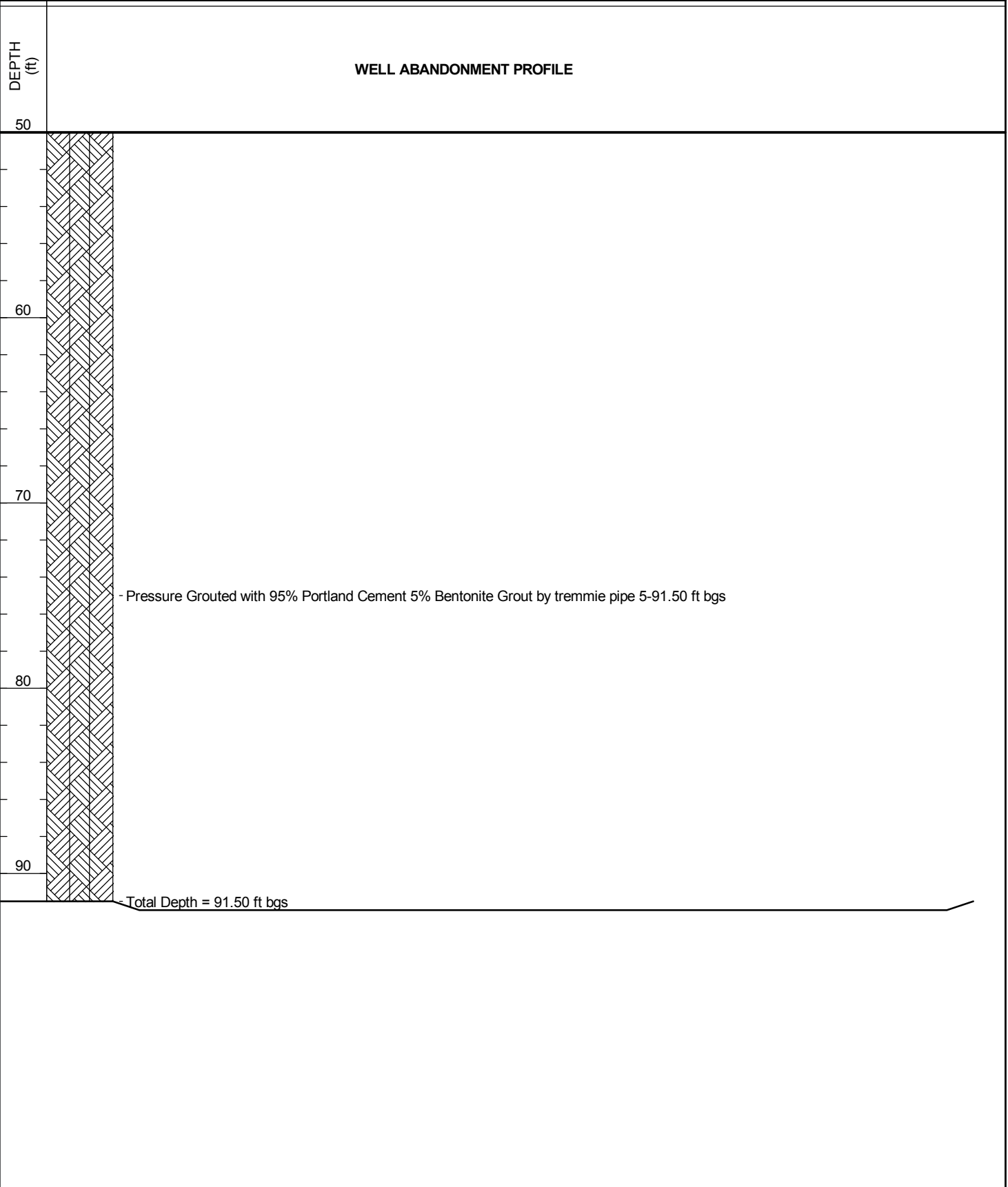
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WELL ABANDONMENT PROFILE



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California



CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/21/18 COMPLETED 8/22/18 NOTES \_\_\_\_\_

DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches



- Backfilled with native material 0-5 ft bgs  
- Well vault, conductor casing, PVC casing, and annular seal removed 0-5 ft bgs

- Concrete Cap at 5 ft bgs

- Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 5-150.8 ft bgs

WELL DESTRUCTIONS - GINT STD US LAB GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

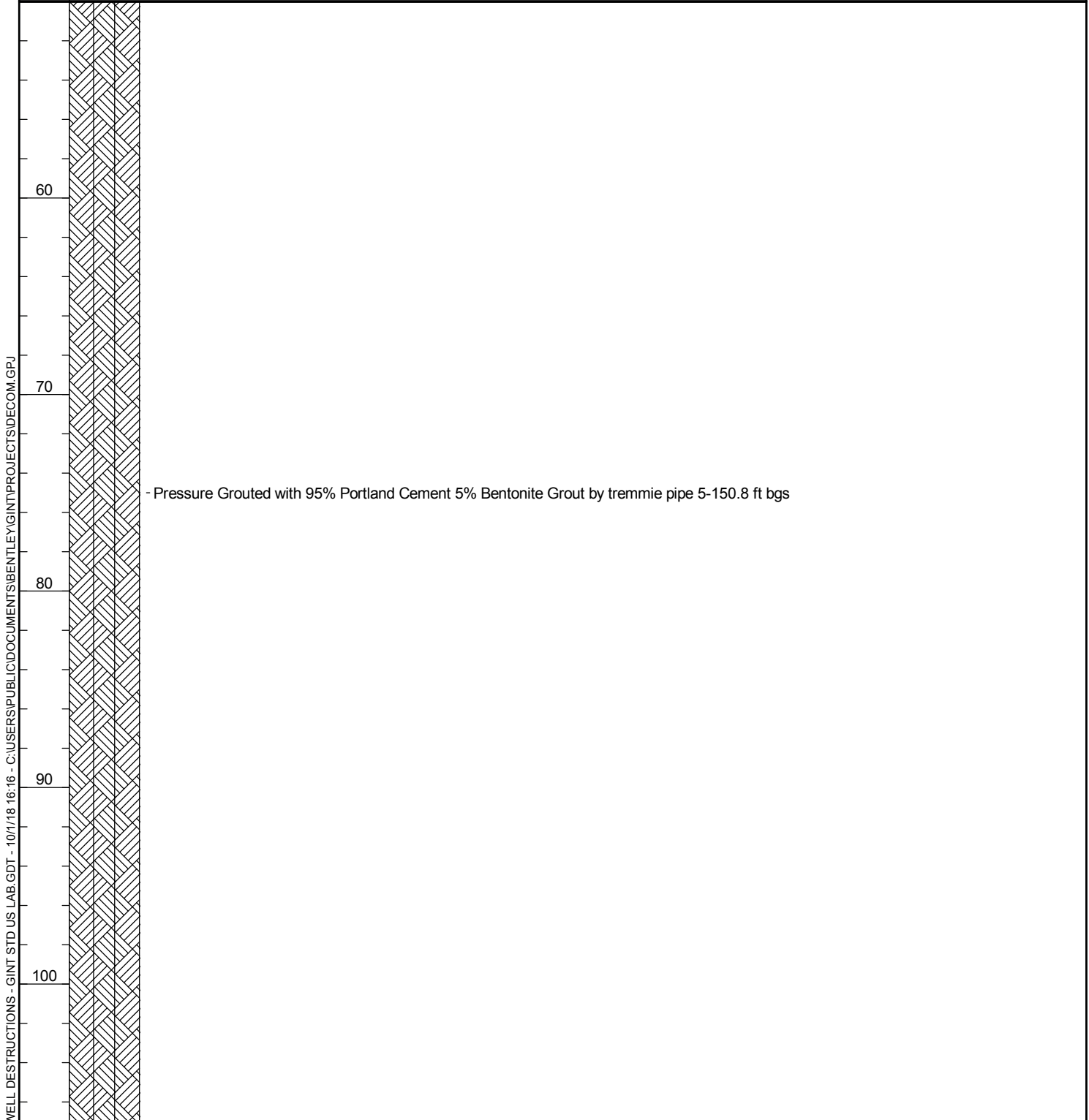
CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

50

WELL ABANDONMENT PROFILE

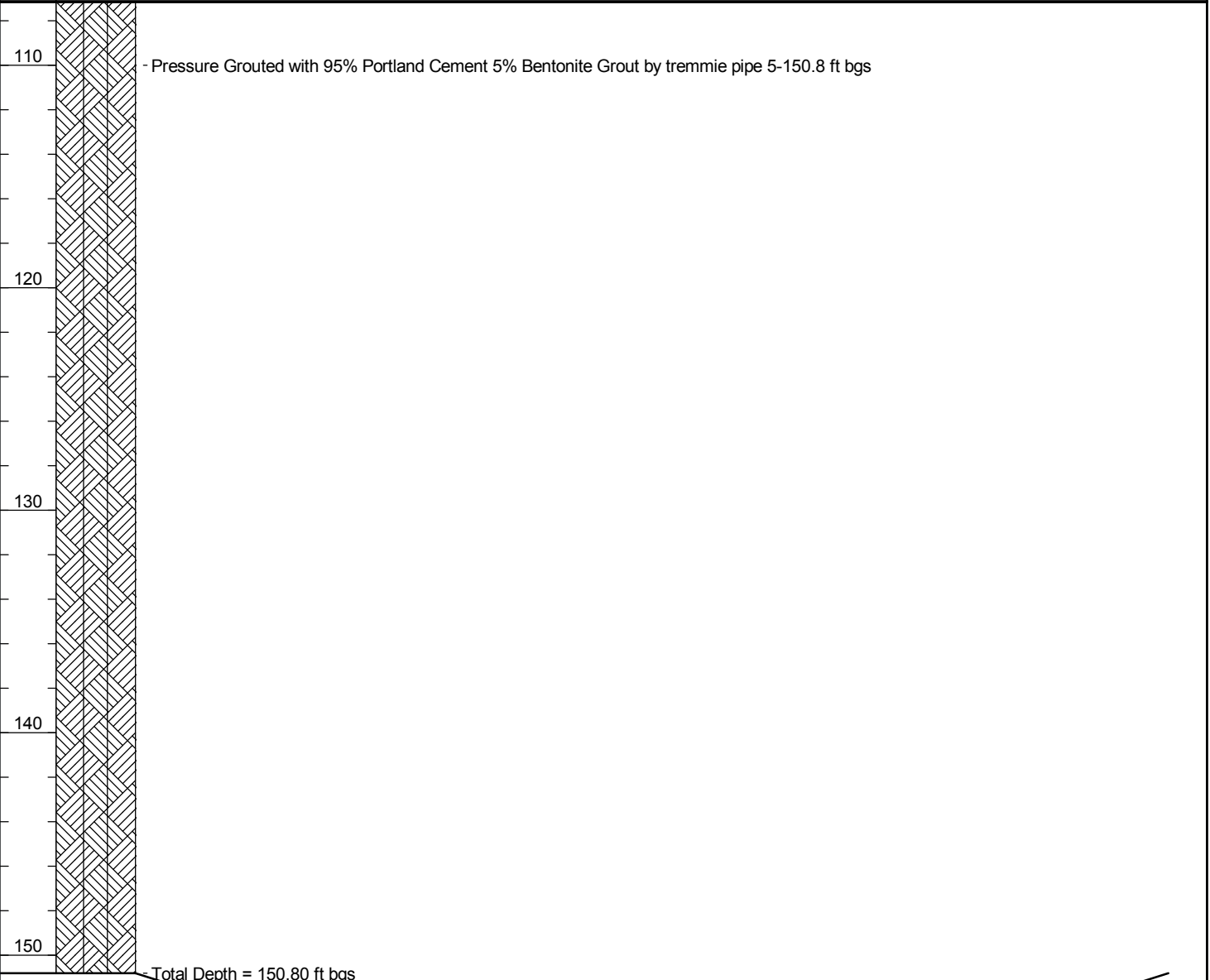


CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/27/18 COMPLETED 8/27/18 NOTES \_\_\_\_\_

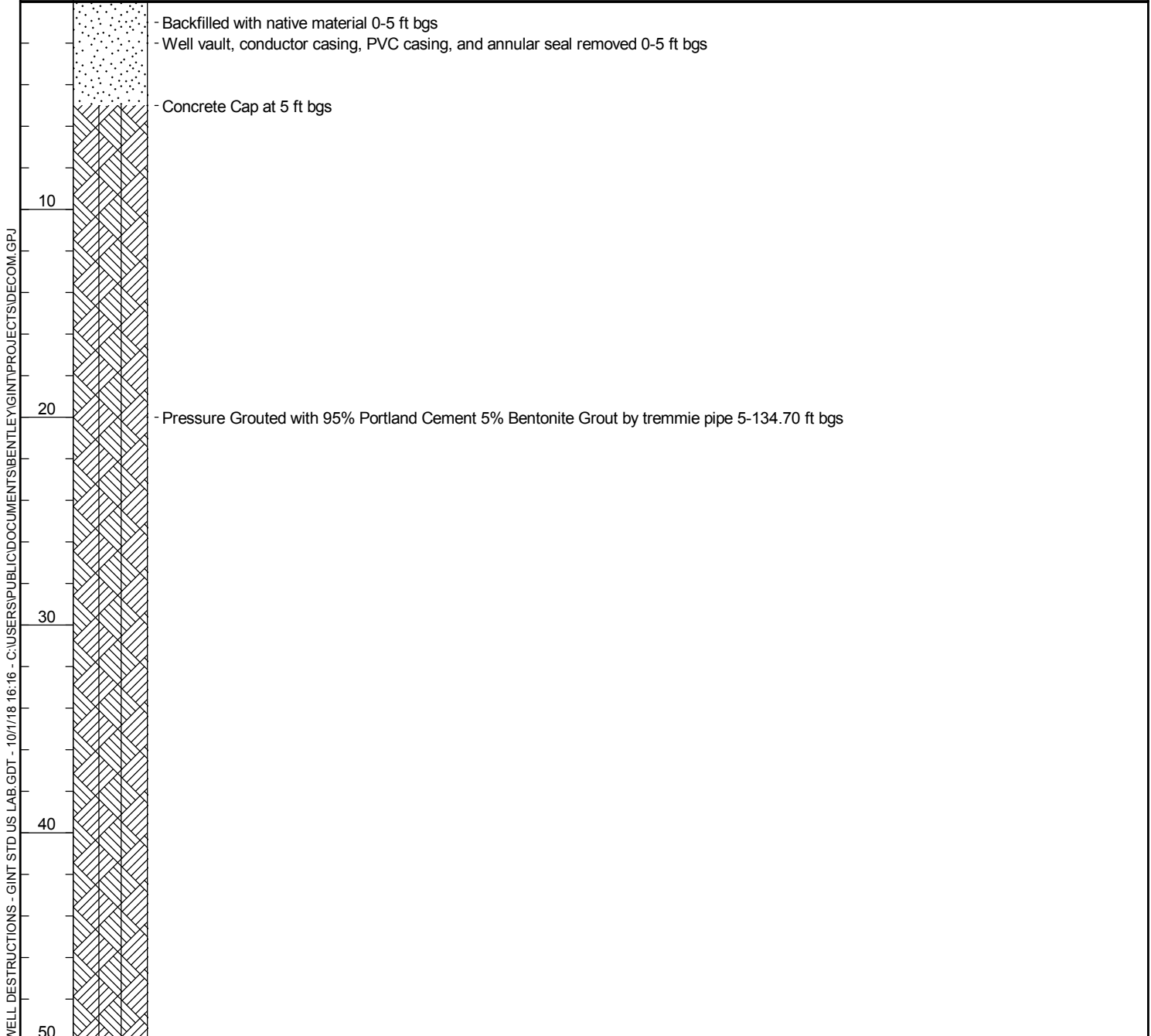
DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY B. Foster CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches

DEPTH (ft)

0

WELL ABANDONMENT PROFILE

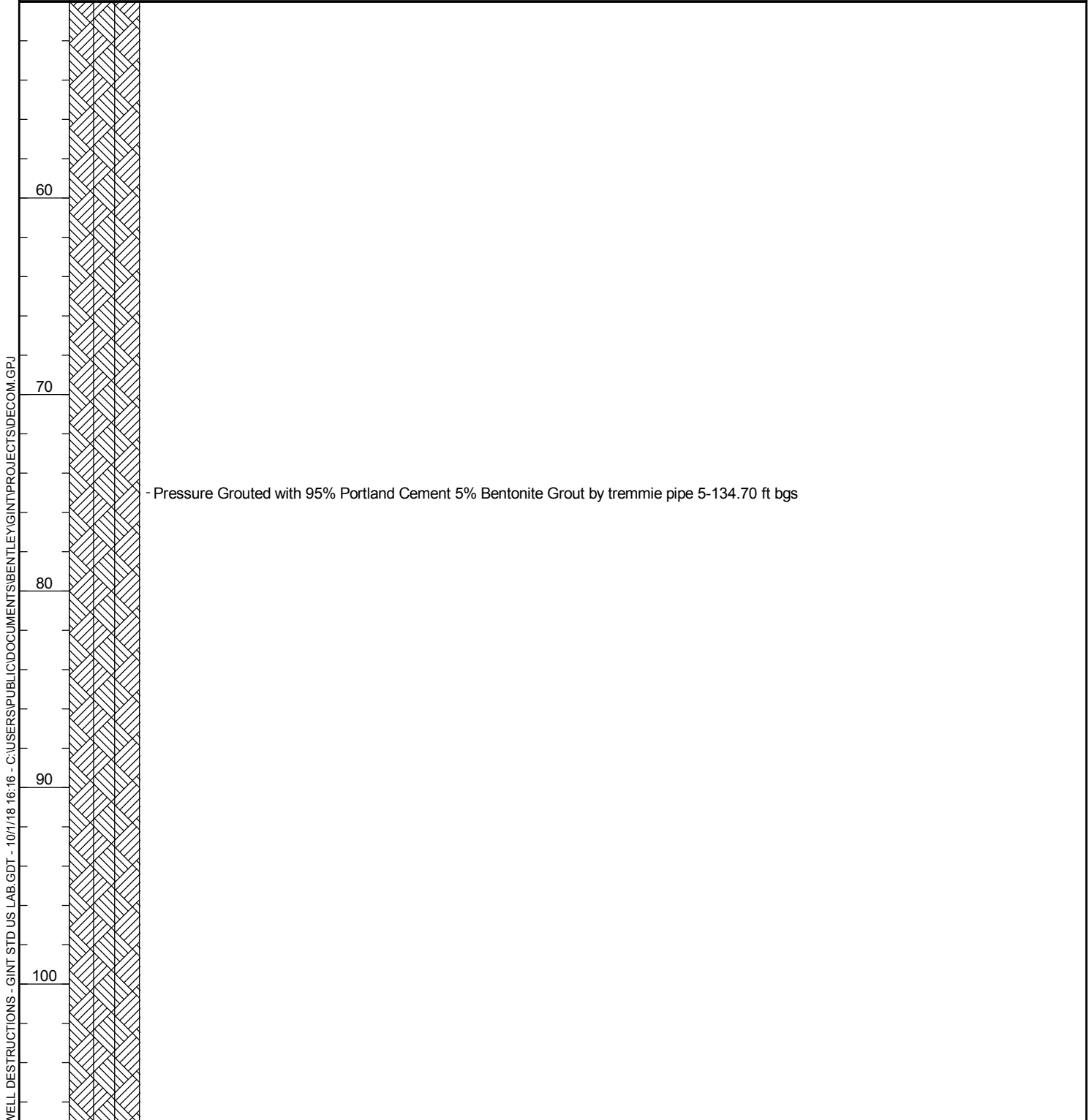




CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft) WELL ABANDONMENT PROFILE

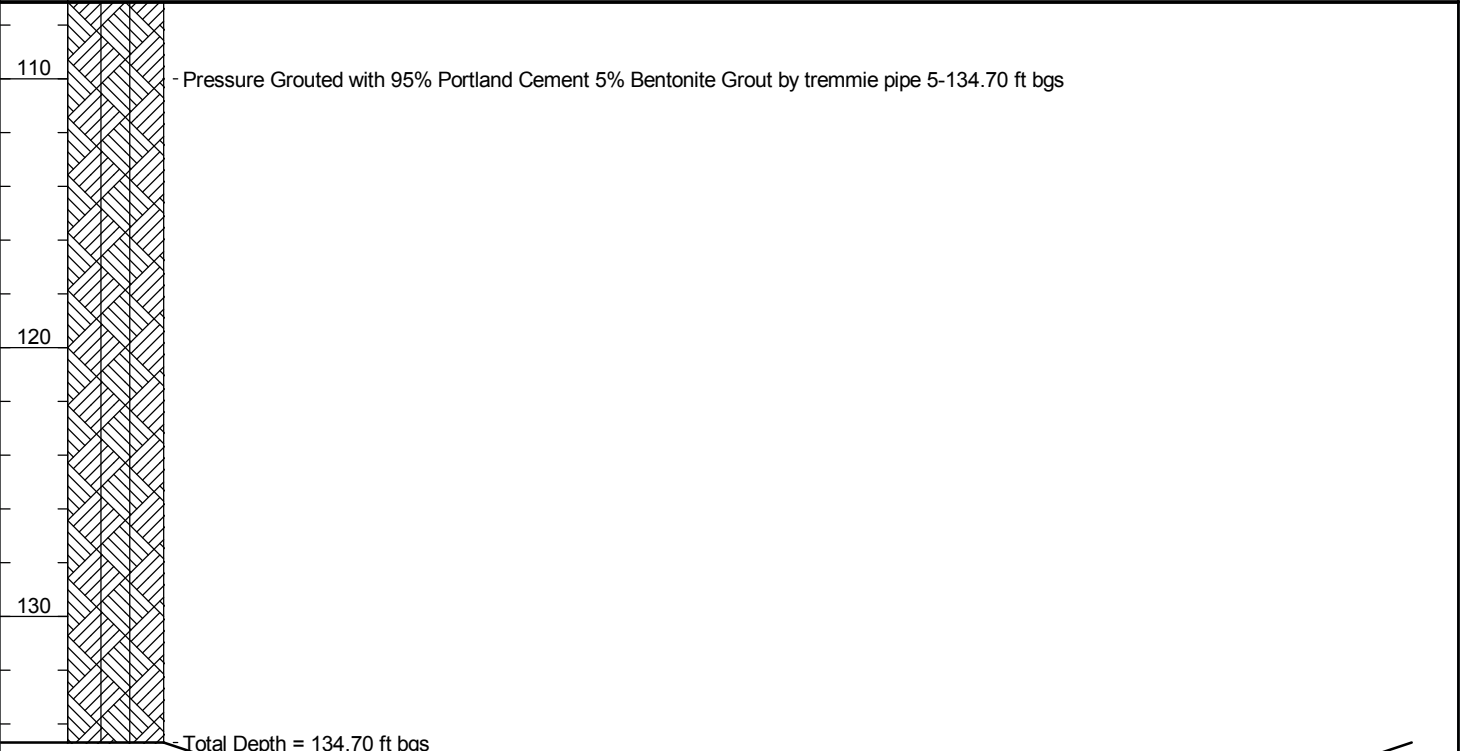


CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\DECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/27/18 COMPLETED 8/27/18 NOTES Accessed through Biologically Sensitive Area

DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY B. Foster CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches

DEPTH  
(ft)

### WELL ABANDONMENT PROFILE

0

- Backfilled with native material 0-5 ft bgs  
- Well riser, bollards, concrete pad, well casing, and annular seal removed 0-5 ft bgs

- Concrete Cap at 5 ft bgs

10

20

- Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 5-124.50 ft bgs

30

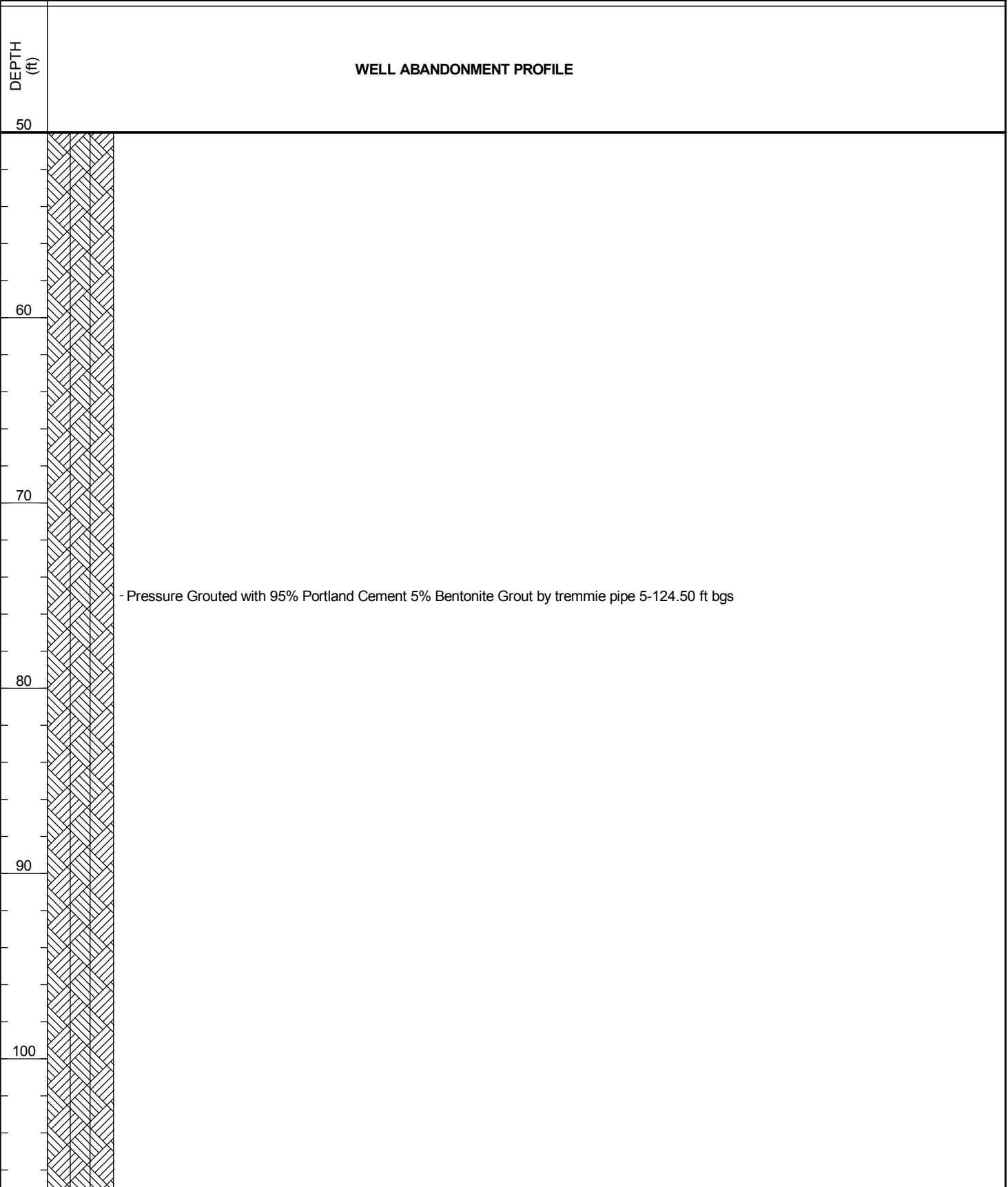
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WELL DESTRUCTIONS - GINT STD US LAB GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California



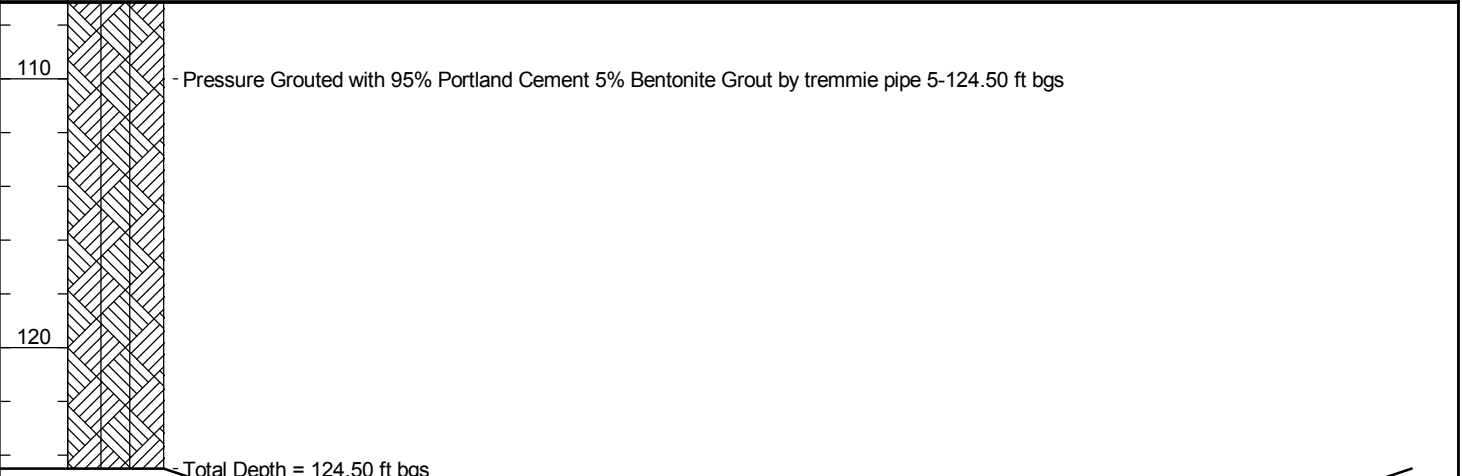
(Continued Next Page)

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

WELL ABANDONMENT PROFILE



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DATE STARTED 8/26/18 COMPLETED 8/26/18 NOTES \_\_\_\_\_

DRILLING CONTRACTOR Yellow Jacket Drilling LOGGED BY A. Mauck CHECKED BY H. Dillon

DRILLING METHOD Pressure Grout HOLE SIZE 5 inches

DEPTH  
(ft)

### WELL ABANDONMENT PROFILE

0

- Backfilled with native material 0-5 ft bgs
- Well riser, bollards, concrete pad, well casing, and annular seal removed 0-5 ft bgs

- Concrete Cap at 5 ft bgs

10

20

- Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 5-119.50 ft bgs

30

40

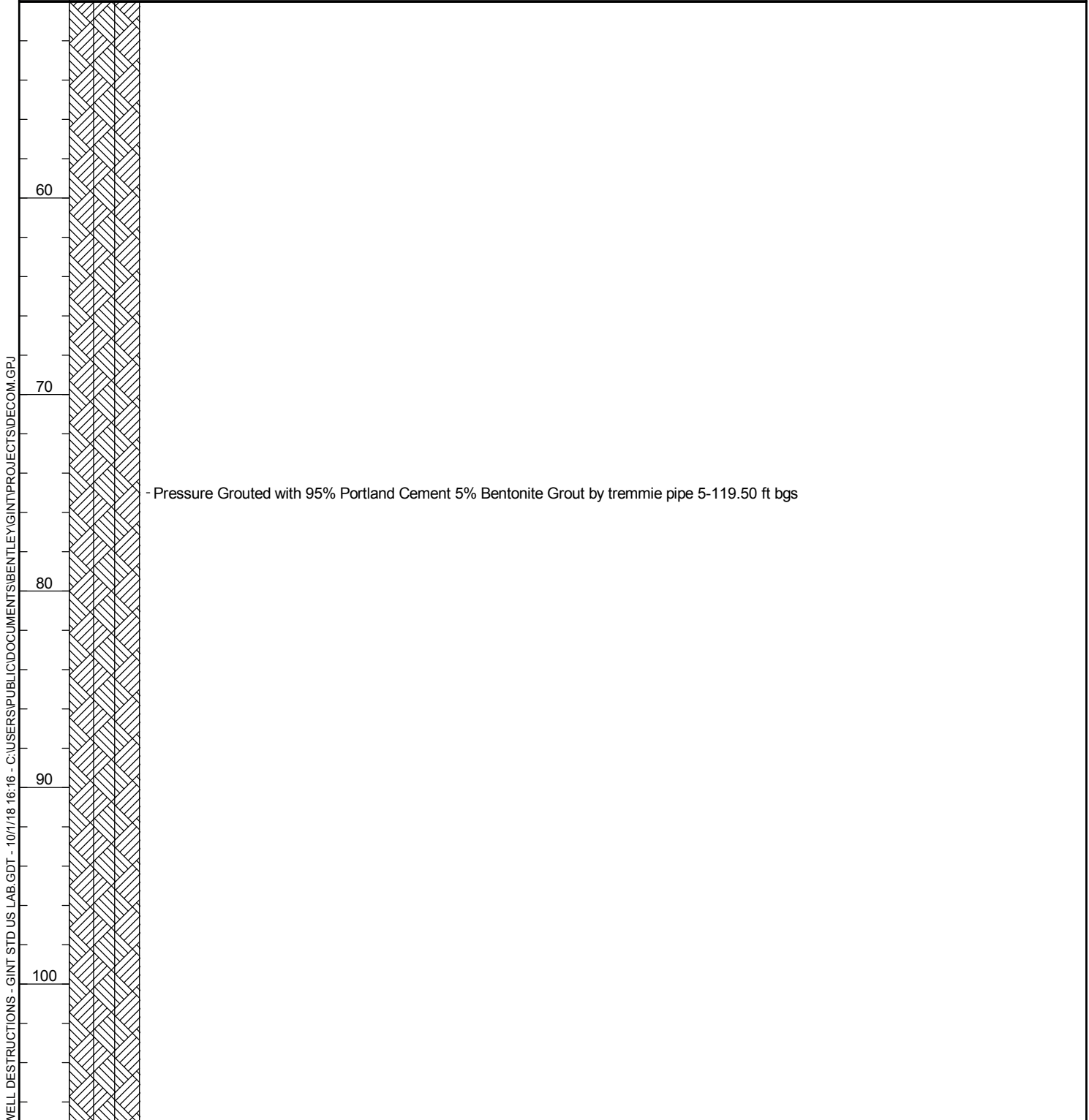
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WELL DESTRUCTIONS - GINT STD US LAB GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ

CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft) WELL ABANDONMENT PROFILE

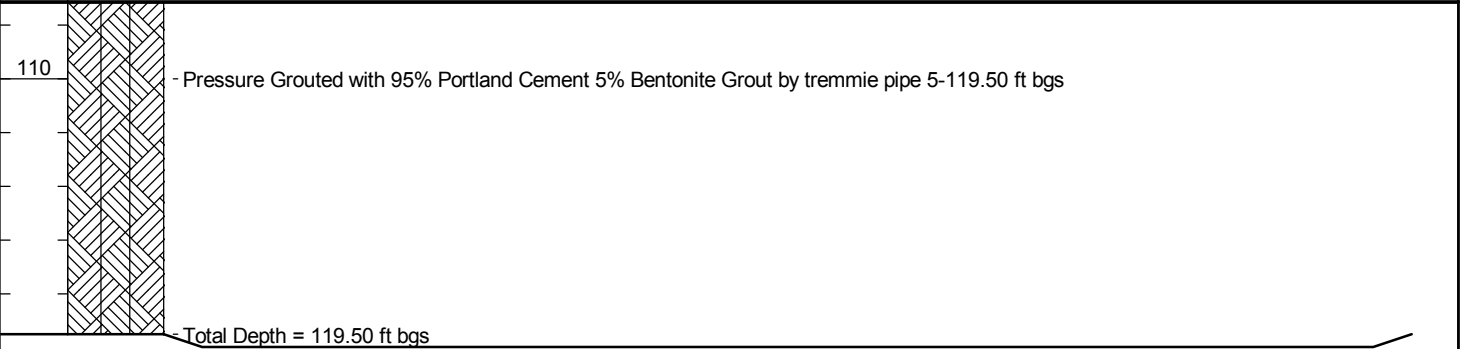


CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning

PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California

DEPTH (ft)

**WELL ABANDONMENT PROFILE**



WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\IDECOM.GPJ



## **APPENDIX D**

### State of California Well Completion Reports

\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California  
**Well Completion Report**  
Refer to Instruction Pamphlet  
No. **e0370698**

DWR Use Only - Do Not Fill In  
State Well Number/Site Number  
Latitude Longitude  
APN/TRS/Other

Page 1 of 3

Owner's Well Number MW-02-12-180

Date Work Began 08/21/2018 Date Work Ended 8/28/2018

Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT

Permit Number HZ-18905 Permit Date 8/7/18

Geologic Log table with columns: Orientation, Depth from Surface, Description. Includes entries for PRESSURE ABANDON CEMENT GROUT and DRILL OUT TOP 1 FOOT.

Well Owner (confidential pursuant to CA Water Code 13752)  
Name US ARMY CORPS OF ENGINEERS  
Mailing Address 1325 J STREET  
City SACRAMENTO State CA Zip 95814

Well Location  
Address \_\_\_\_\_  
City \_\_\_\_\_ County \_\_\_\_\_  
Latitude \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Datum 031 Dec. Lat. 121 Dec. Long. 003  
APN Book \_\_\_\_\_ Page \_\_\_\_\_ Parcel \_\_\_\_\_  
Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_

Location Sketch  
(Sketch must be drawn by hand after form is printed.)  
North  
see Attached  
West South East

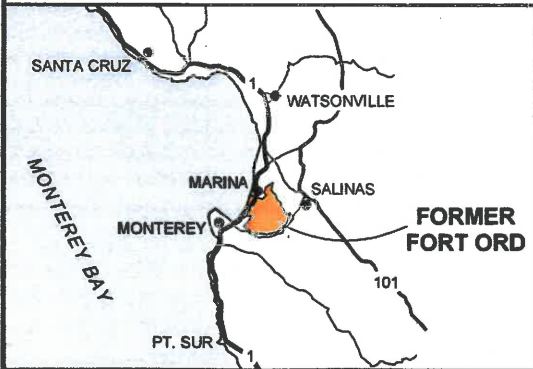
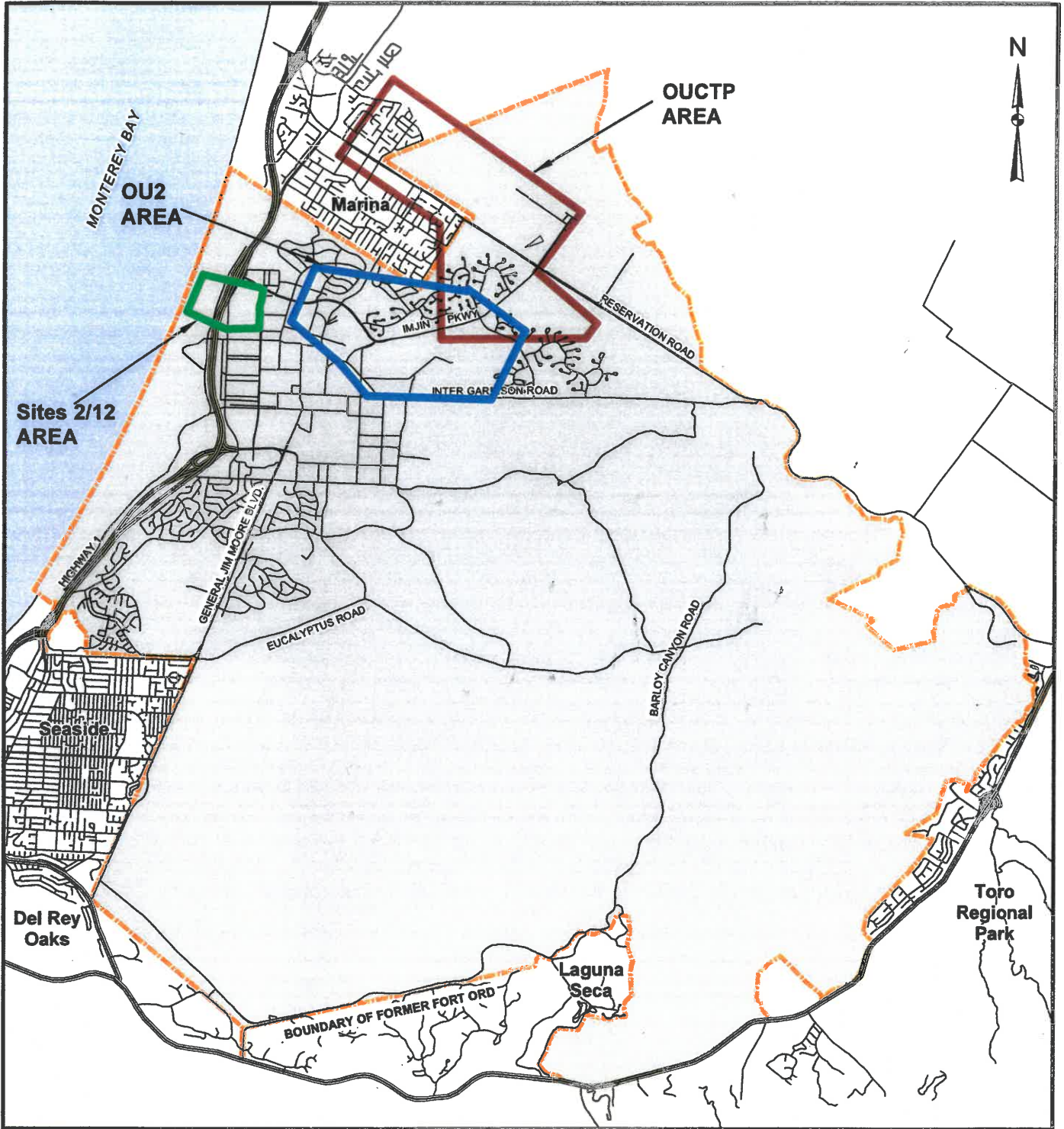
Activity  
 New Well  
 Modification/Repair  
 Deepen  
 Other  
 Destroy  
Describe procedures and materials under "GEOLOGIC LOG"  
Planned Uses  
 Water Supply  
 Domestic  Public  
 Irrigation  Industrial  
 Cathodic Protection  
 Dewatering  
 Heat Exchange  
 Injection  
 Monitoring  
 Remediation  
 Sparging  
 Test Well  
 Vapor Extraction  
 Other

Water Level and Yield of Completed Well  
Depth to first water \_\_\_\_\_ (Feet below surface)  
Depth to Static \_\_\_\_\_  
Water Level \_\_\_\_\_ (Feet) Date Measured \_\_\_\_\_  
Estimated Yield \* \_\_\_\_\_ (GPM) Test Type \_\_\_\_\_  
Test Length \_\_\_\_\_ (Hours) Total Drawdown \_\_\_\_\_ (Feet)  
\*May not be representative of a well's long term yield.

Casings and Annular Material tables with columns for Depth from Surface, Borehole Diameter, Type, Material, Wall Thickness, Outside Diameter, Screen Type, Slot Size, Fill, and Description.

Attachments  
 Geologic Log  
 Well Construction Diagram  
 Geophysical Log(s)  
 Soil/Water Chemical Analyses  
 Other Map

Certification Statement  
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief  
Name YELLOW JACKET DRILLING SERVICES, LLC  
Person, Firm or Corporation  
9460 LUCAS RANCH RD RANCHO CUCAMONÉ CA 91730  
Address City State Zip  
Signed [Signature] 10/8/2018 1034407  
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

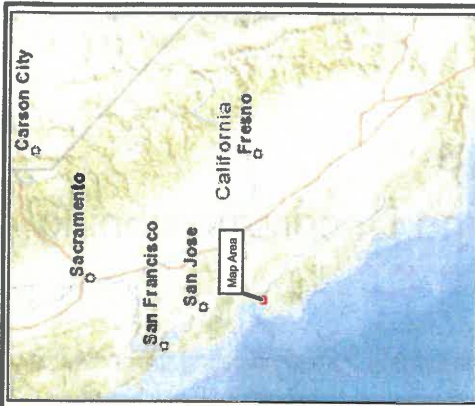


**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure

**1**

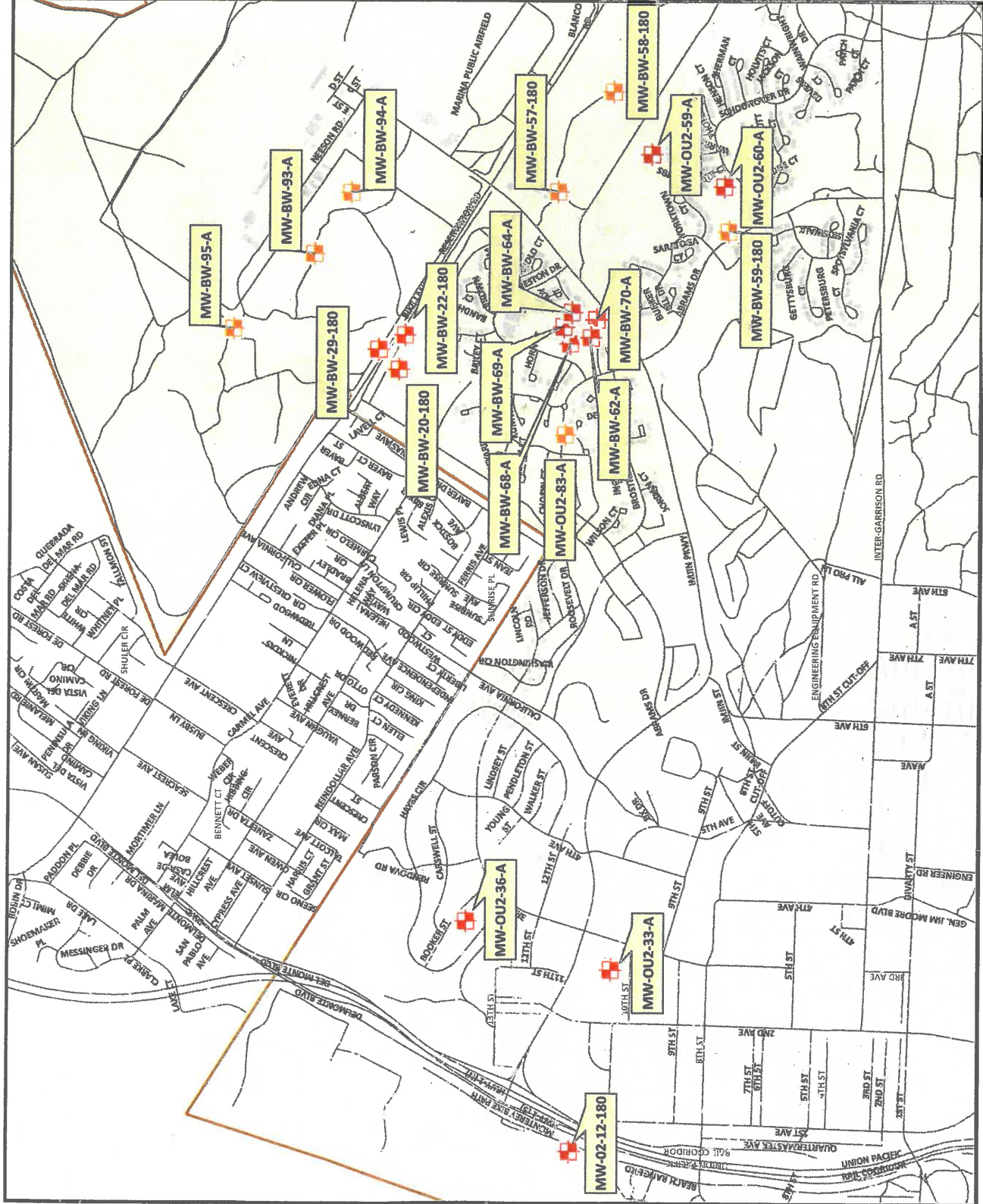


**Legend**

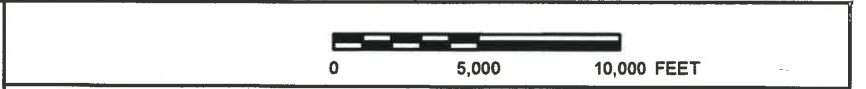
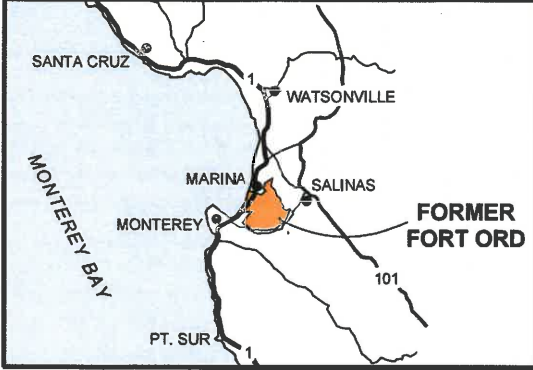
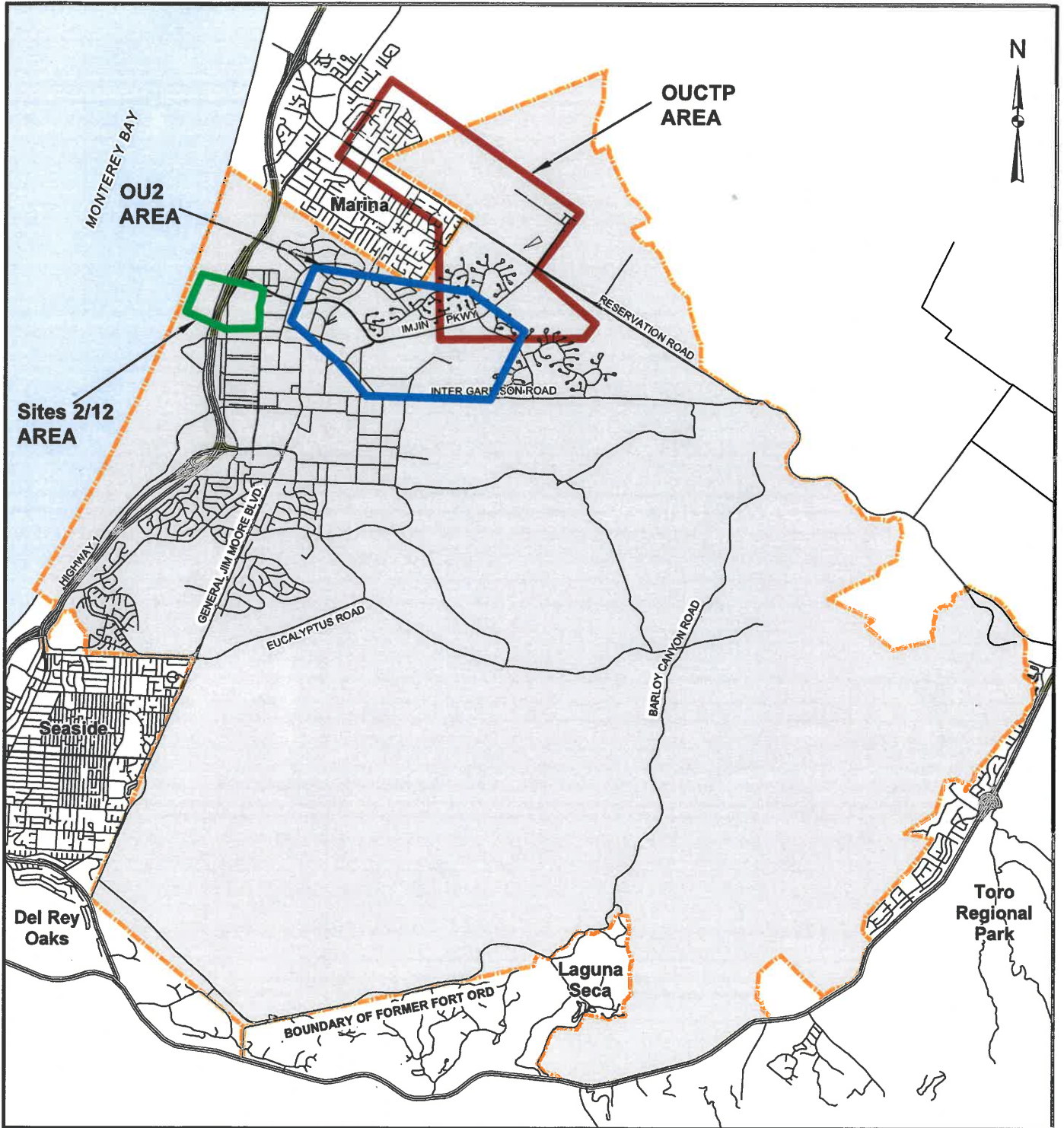
- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type**
- Monitoring Well - To Decommission
- Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**







**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure  
1



**Legend**

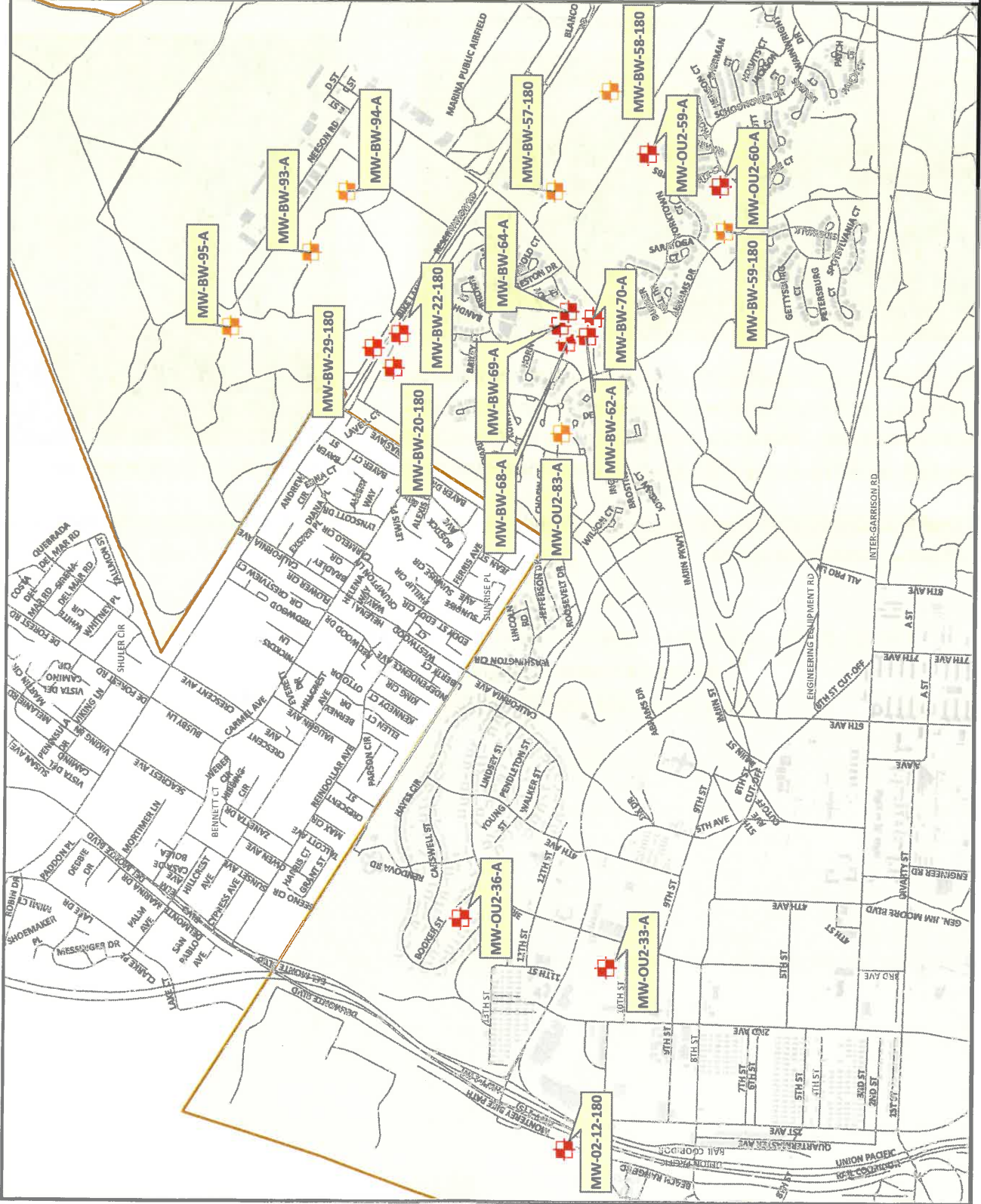
- Roads
- Buildings
- Former Fort Ord Boundary

**Well Type**

- Monitoring Well - To Decommission
- Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**



\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

Page 1 of 3

Owner's Well Number MW-BW-64-A

Date Work Began 08/21/2018 Date Work Ended 8/28/2018

Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT

Permit Number HZ-18911 Permit Date 8/7/18

## State of California Well Completion Report

Refer to Instruction Pamphlet  
No. **e0370546**

DWR Use Only - Do Not Fill In	
State Well Number/Site Number _____ N _____ W	
Latitude _____	Longitude _____
APN/TRS/Other _____	

Geologic Log	
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____	
Drilling Method _____ Drilling Fluid _____	
Depth from Surface	Description
Feet to Feet	Describe material, grain size, color, etc
	PRESSURE ABANDON CEMENT GROUT
	DRILL OUT TOP 5 FEET
Total Depth of Boring _____ Feet	
Total Depth of Completed Well _____ Feet	

Well Owner (confidential pursuant to CA Water Code 13752)	
Name <u>US ARMY CORPS OF ENGINEERS</u>	
Mailing Address <u>1325 J. STREET</u>	
City <u>SACRAMENTO</u> State <u>CA</u> Zip <u>95814</u>	
Well Location	
Address _____	
City _____ County _____	
Latitude _____ N Longitude _____ W	
Datum _____ Dec. Lat. _____ Dec. Long. _____	
APN Book <u>031</u> Page <u>201</u> Parcel <u>027</u>	
Township _____ Range _____ Section _____	

Location Sketch
(Sketch must be drawn by hand after form is printed.)
North
See Attached
South

- | Activity  |
|---|
| <input type="radio"/> New Well<br><input type="radio"/> Modification/Repair<br><input type="radio"/> Deepen<br><input type="radio"/> Other _____<br><input checked="" type="radio"/> Destroy<br><small>Describe procedures and materials under "GEOLOGIC LOG"</small>   |
| Planned Uses  |
| <input type="radio"/> Water Supply<br><input type="checkbox"/> Domestic <input type="checkbox"/> Public<br><input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial<br><input type="radio"/> Cathodic Protection<br><input type="radio"/> Dewatering<br><input type="radio"/> Heat Exchange<br><input type="radio"/> Injection<br><input checked="" type="radio"/> Monitoring<br><input type="radio"/> Remediation<br><input type="radio"/> Sparging<br><input type="radio"/> Test Well<br><input type="radio"/> Vapor Extraction<br><input type="radio"/> Other _____ |

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

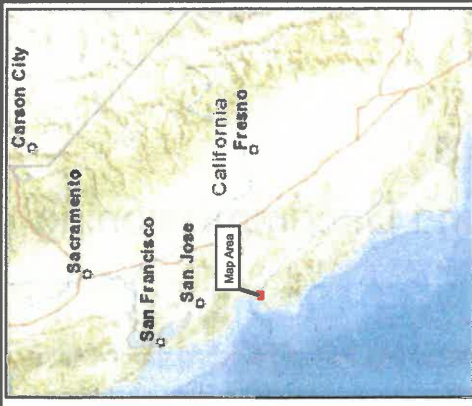
Water Level and Yield of Completed Well	
Depth to first water _____ (Feet below surface)	
Depth to Static _____	
Water Level _____ (Feet) Date Measured _____	
Estimated Yield * _____ (GPM) Test Type _____	
Test Length _____ (Hours) Total Drawdown _____ (Feet)	
<small>*May not be representative of a well's long term yield.</small>	

Casings							Annular Material			
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size if Any	Depth from Surface	Fill	Description
Feet to Feet	(Inches)			(Inches)	(Inches)		(Inches)	Feet to Feet		

- | Attachments  |
|--|
| <input type="checkbox"/> Geologic Log<br><input type="checkbox"/> Well Construction Diagram<br><input type="checkbox"/> Geophysical Log(s)<br><input type="checkbox"/> Soil/Water Chemical Analyses<br><input checked="" type="checkbox"/> Other <u>MAPS</u> |

Certification Statement	
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief	
Name <u>YELLOW JACKET DRILLING SERVICES, LLC</u>	
Person, Firm or Corporation	
<u>9460 LUCAS RANCH RD</u> <u>RANCHO CUCAMON</u> <u>CA</u> <u>91730</u> Address City State Zip	
Signed  _____	
C-57 Licensed Water Well Contractor	
<u>10/8/2018</u> <u>1034407</u> Date Signed C-57 License Number	



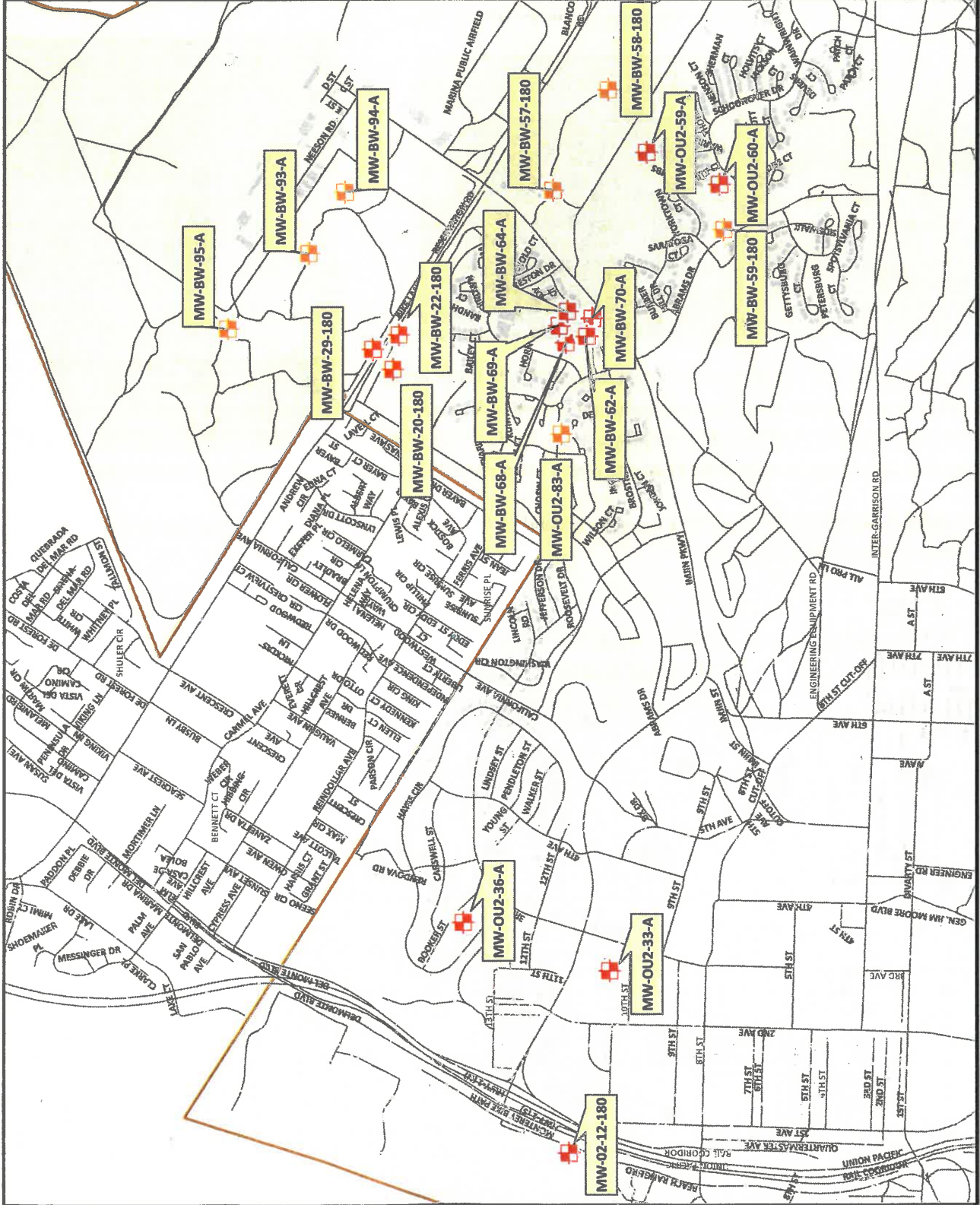


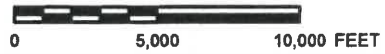
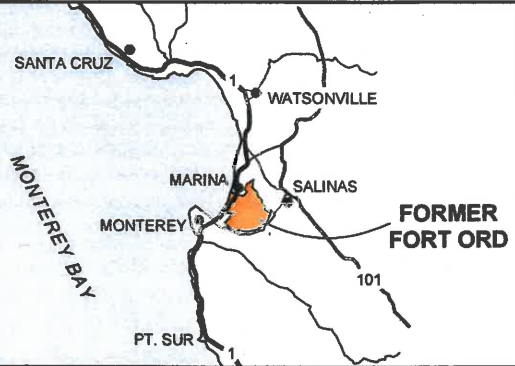
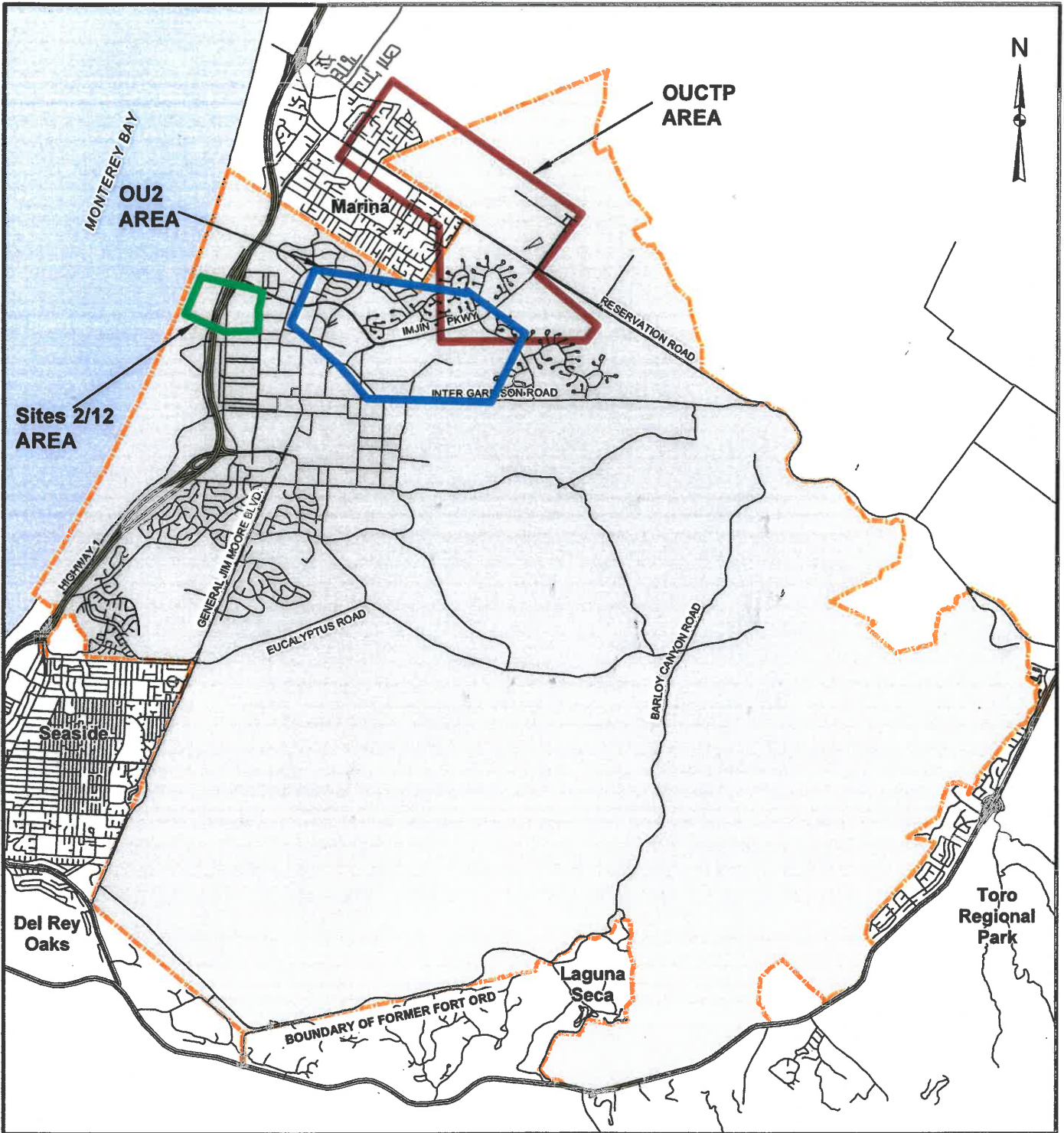
**Legend**

- Roads
- ▭ Buildings
- ▭ Former Fort Ord Boundary
- ▭ Well Type
- Monitoring Well - To Decommission
- Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





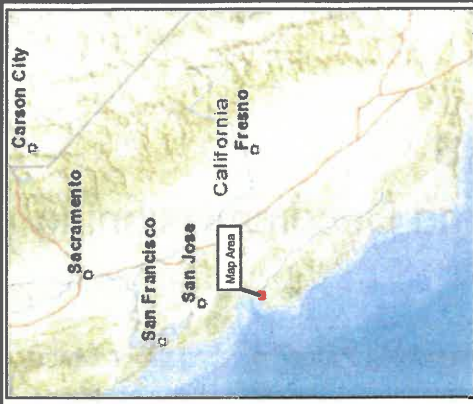
**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure

**1**



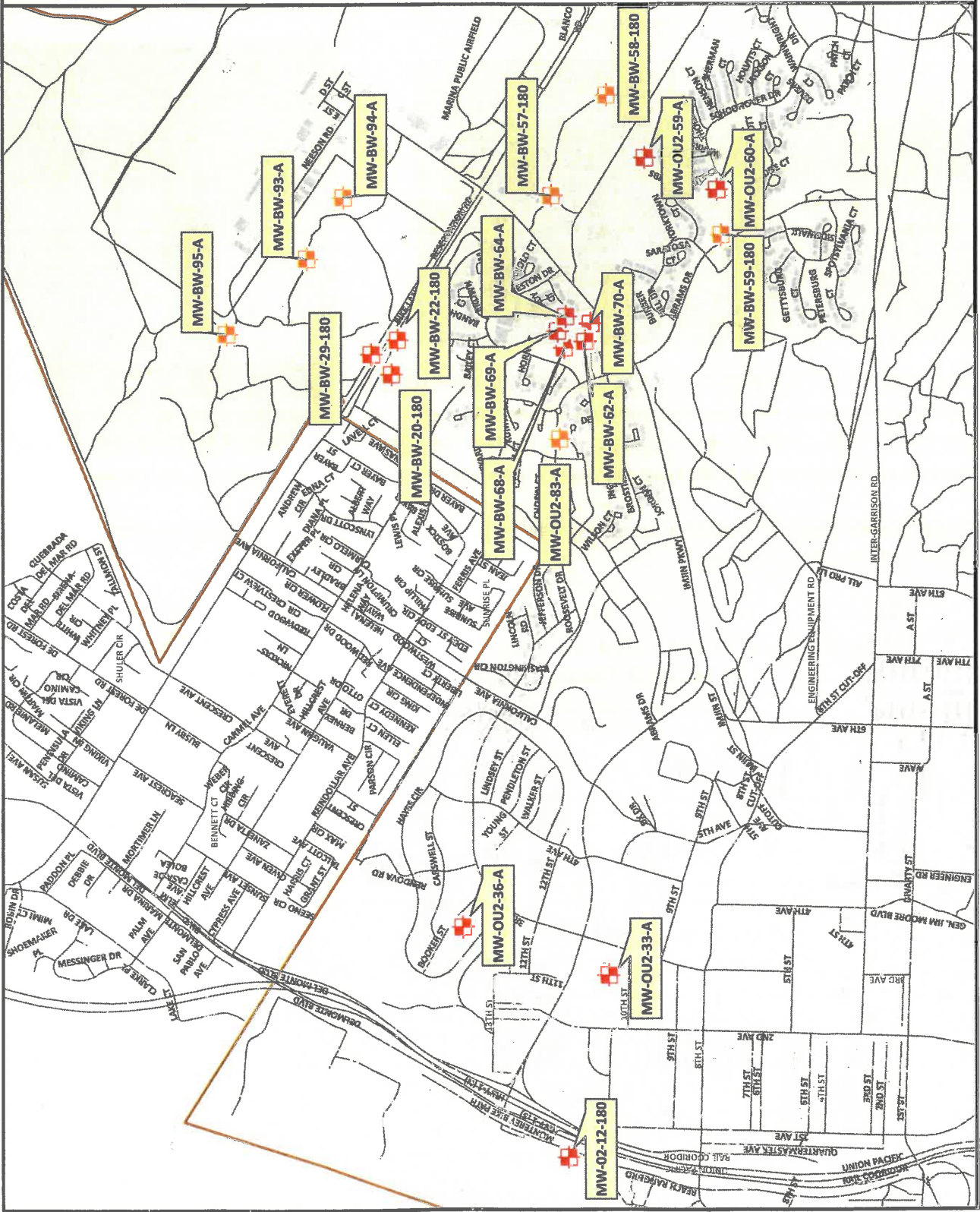


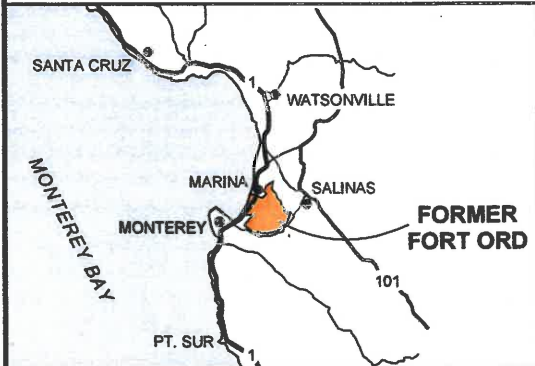
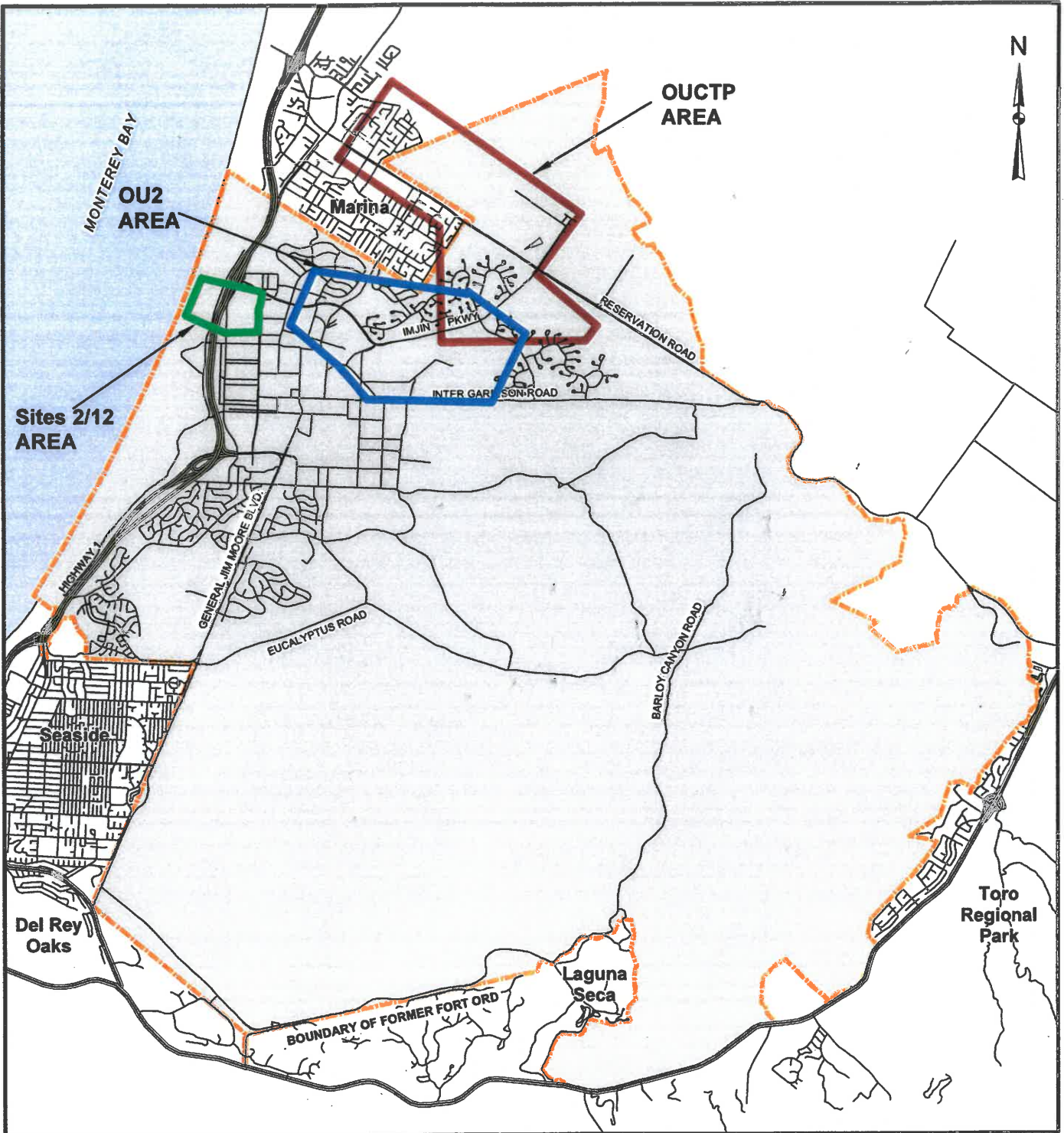
**Legend**

- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type**
- Monitoring Well - To Decommission
- Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





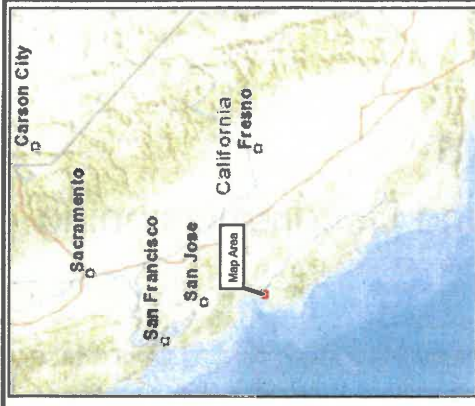
**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure

**1**





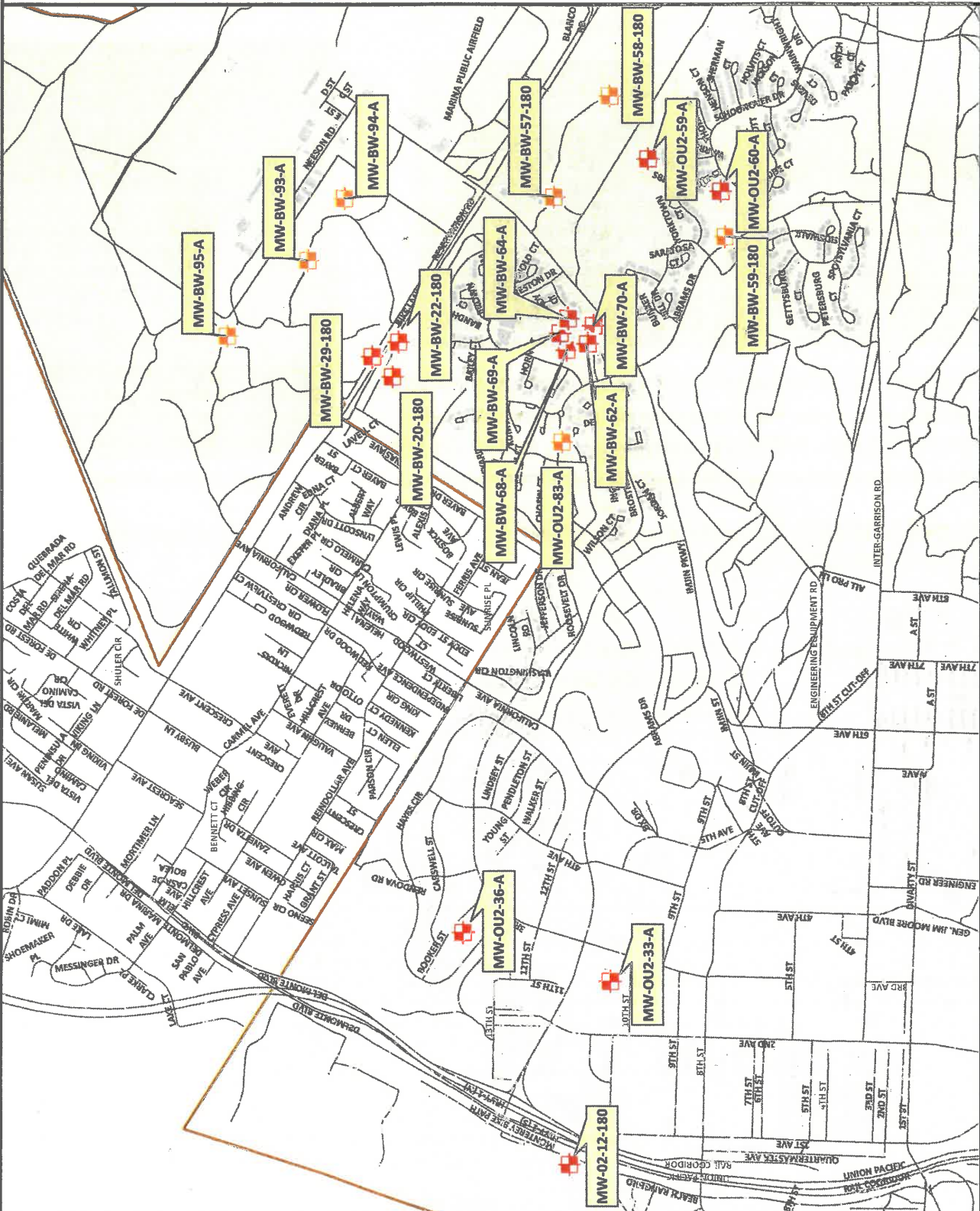
**Legend**

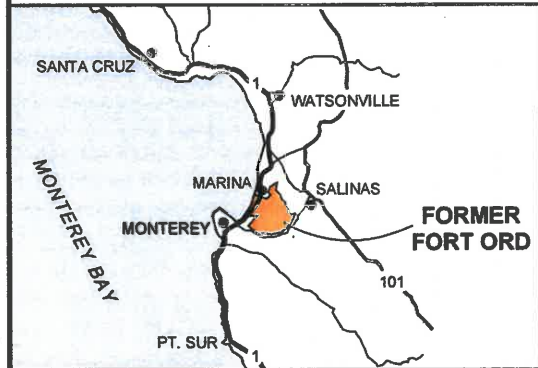
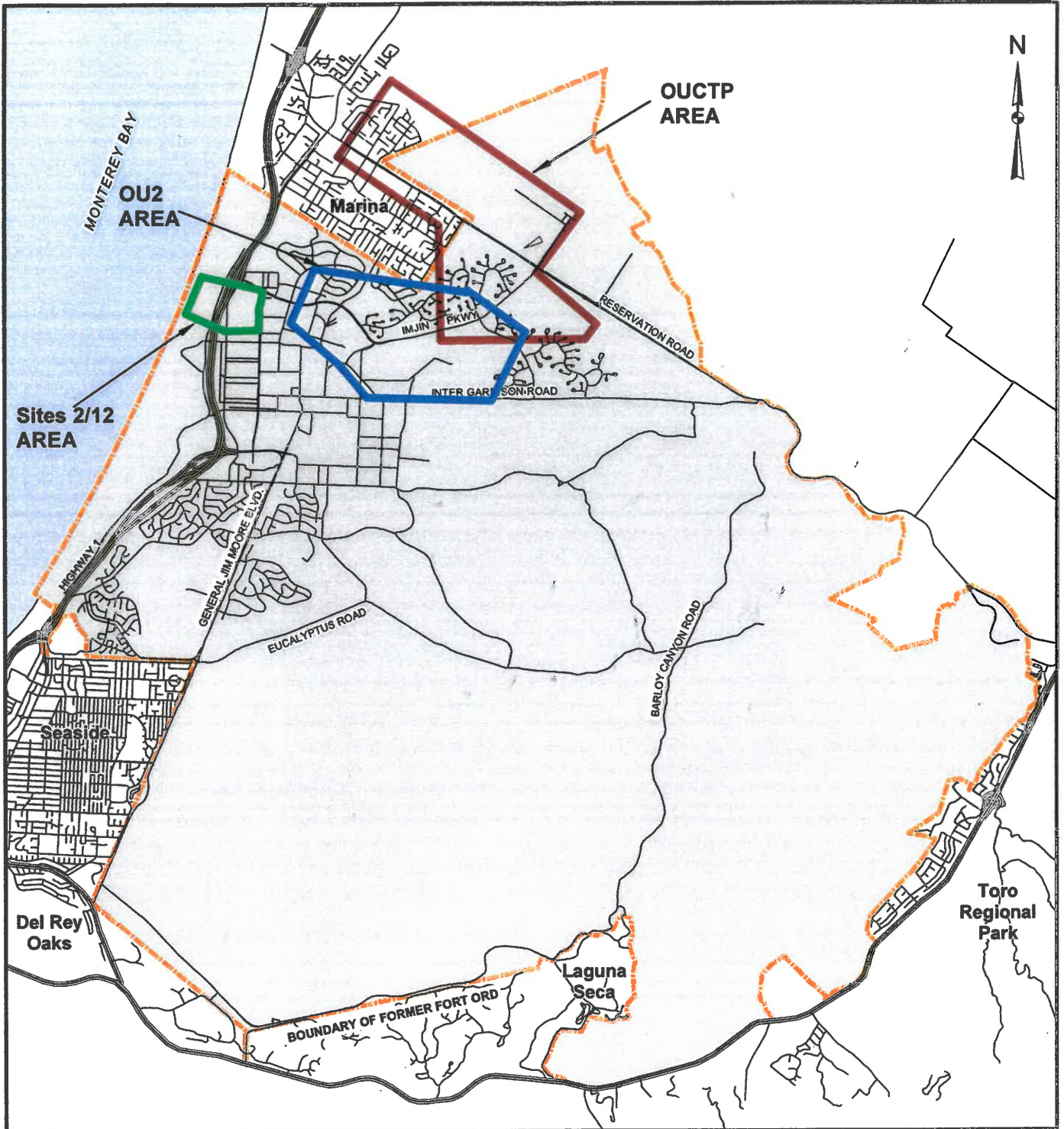
- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type**
  - Monitoring Well - To Decommission
  - Monitoring Well - To Install

N

0 750 1,500 3,000 Feet

**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

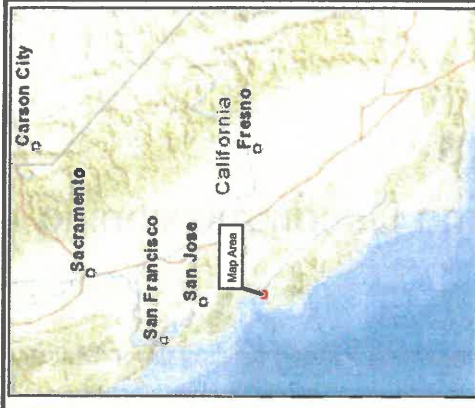
*Ahtna*

Figure

**1**





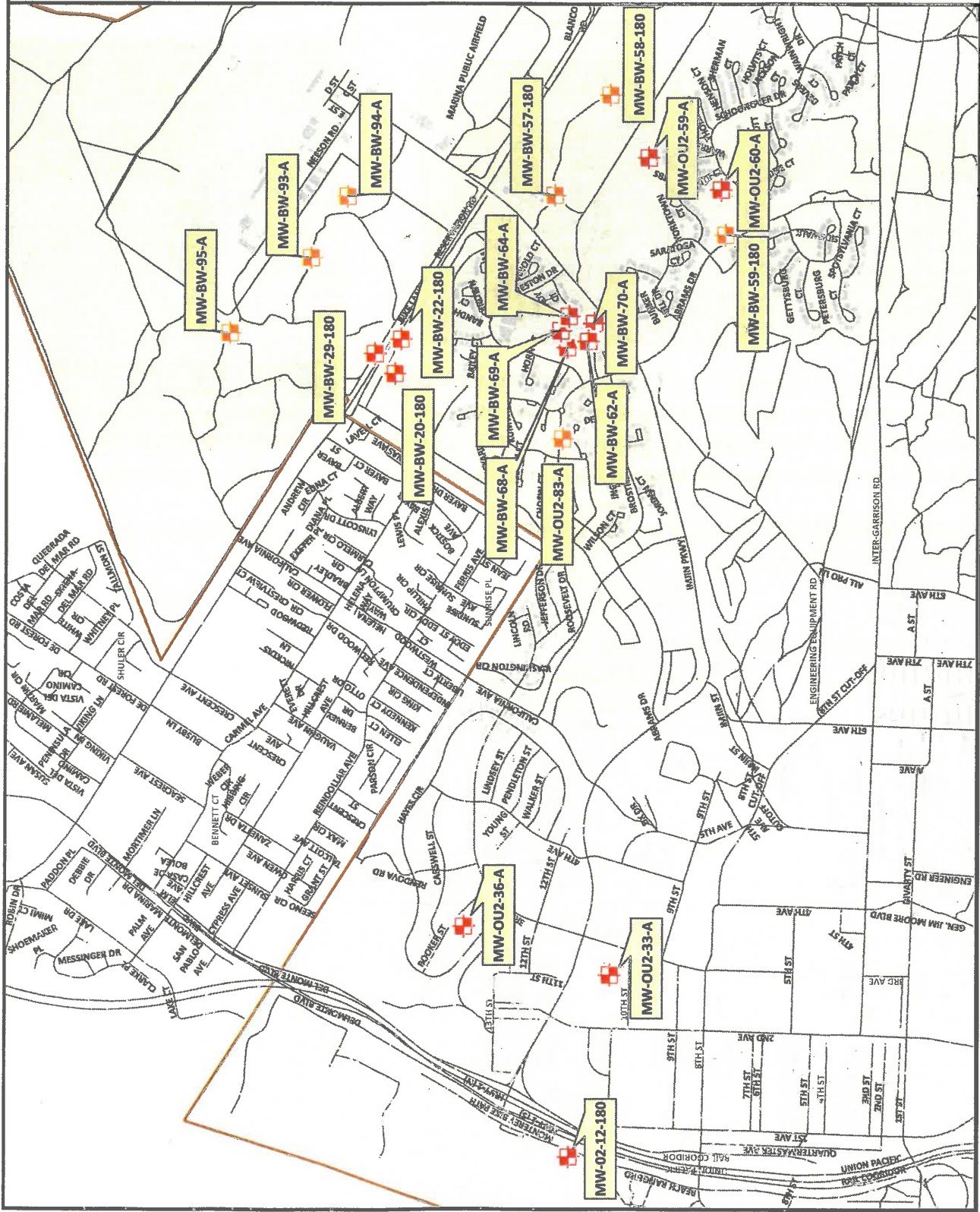


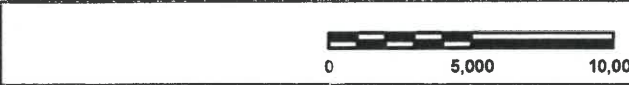
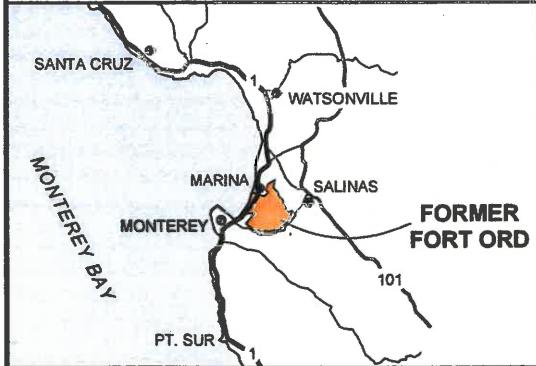
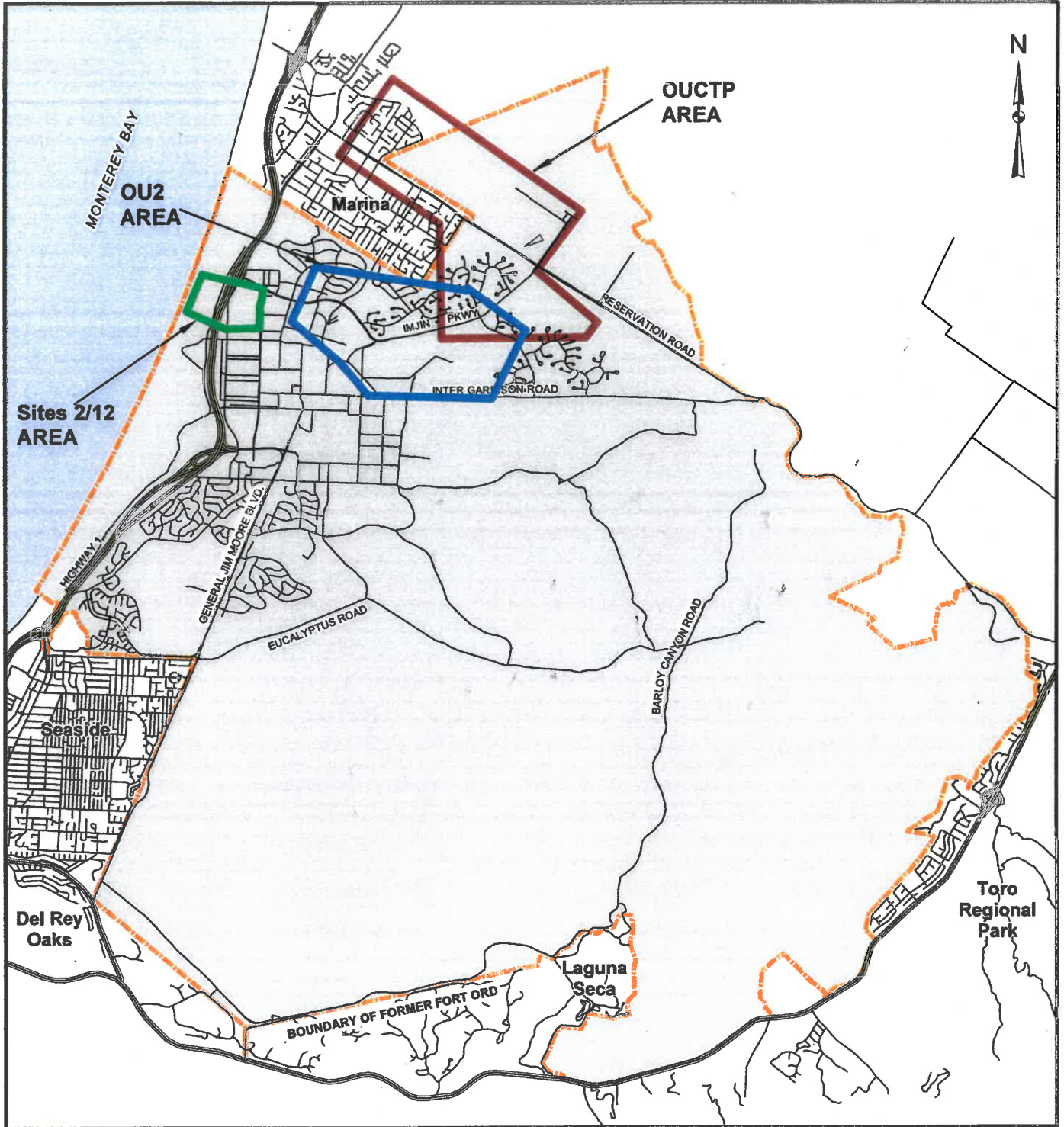
**Legend**

- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type**
- Monitoring Well - To Decommission
- Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





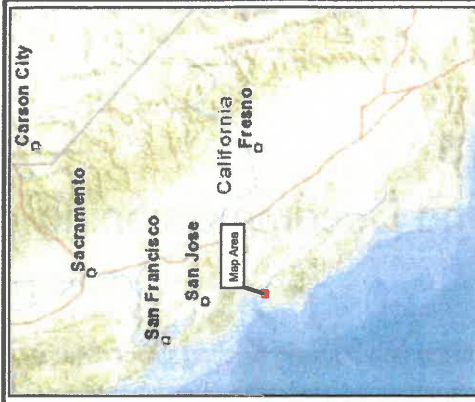
**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure

**1**





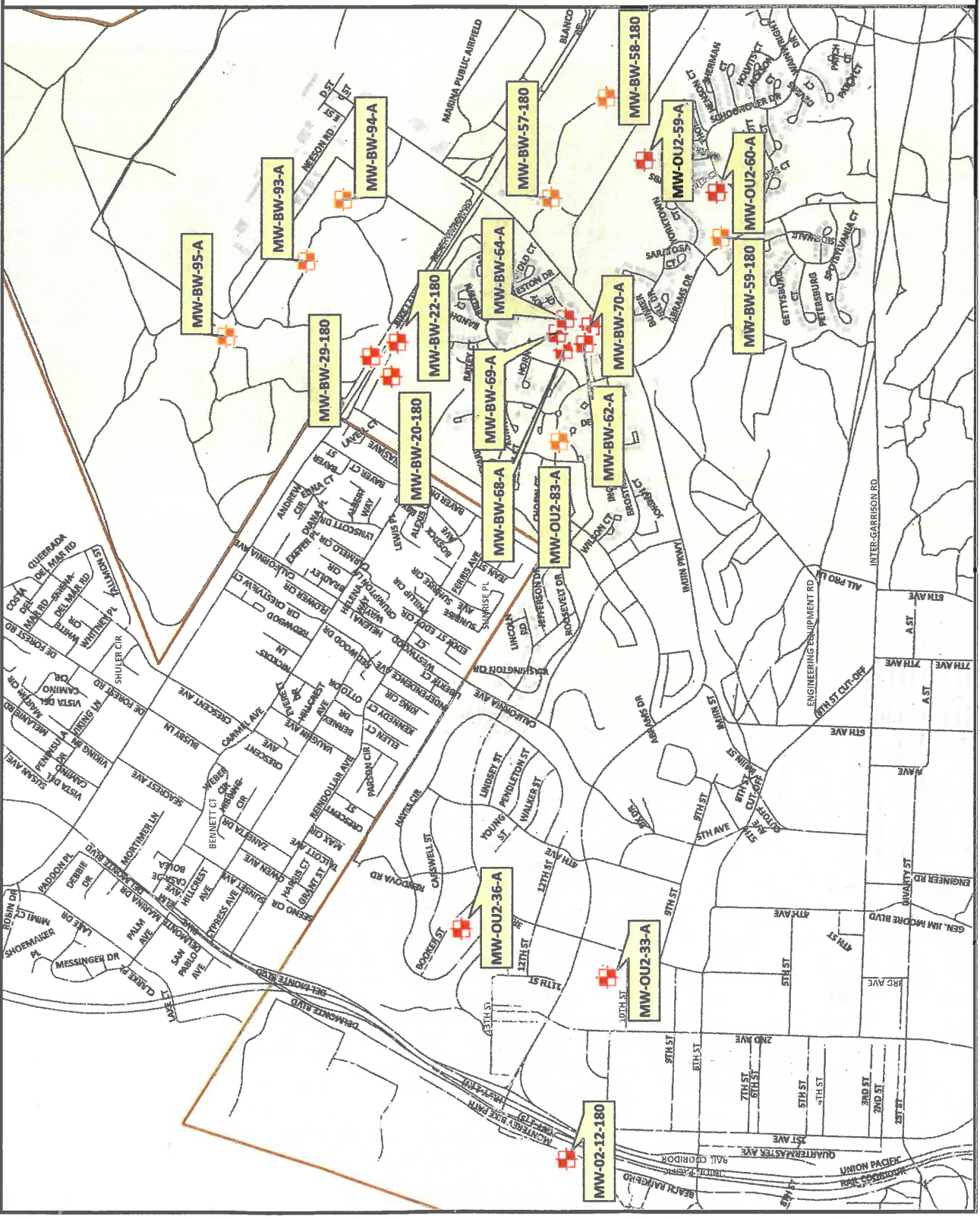
**Legend**

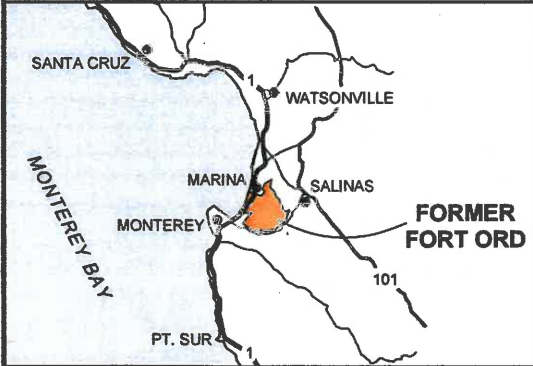
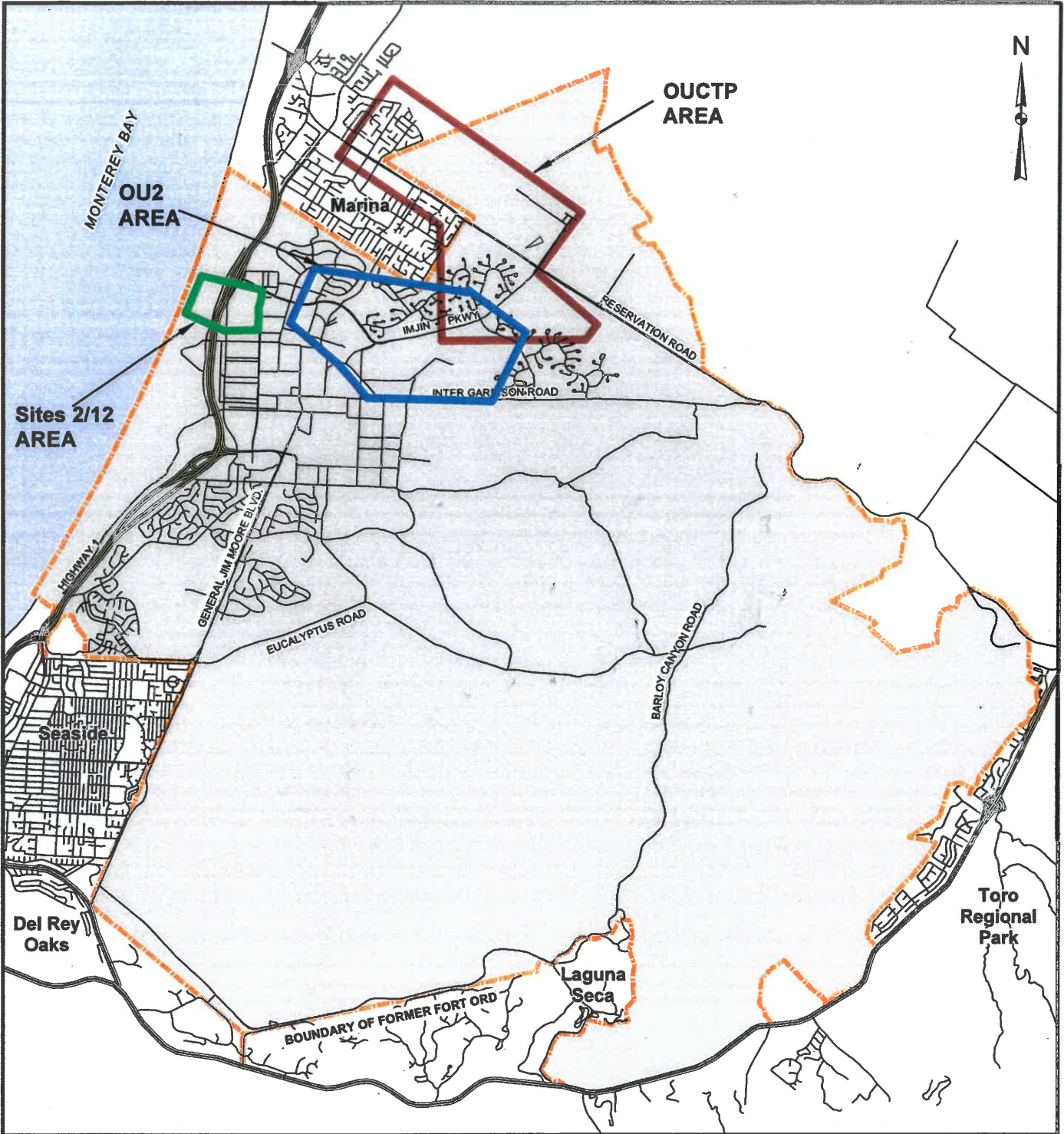
- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type**
  - Monitoring Well - To Decommission
  - Monitoring Well - To Install

N

0 750 1,500 3,000 Feet

**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**

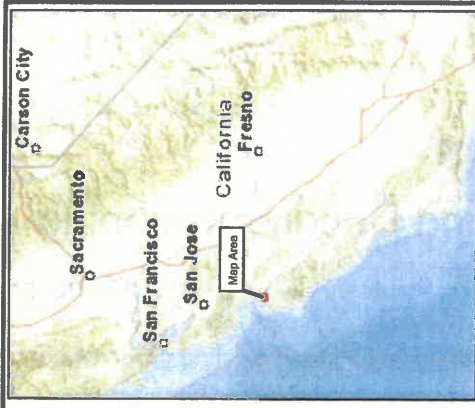




**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California  
*Ahtna*

Figure  
**1**





**Legend**

Roads

Buildings

Former Fort Boundary

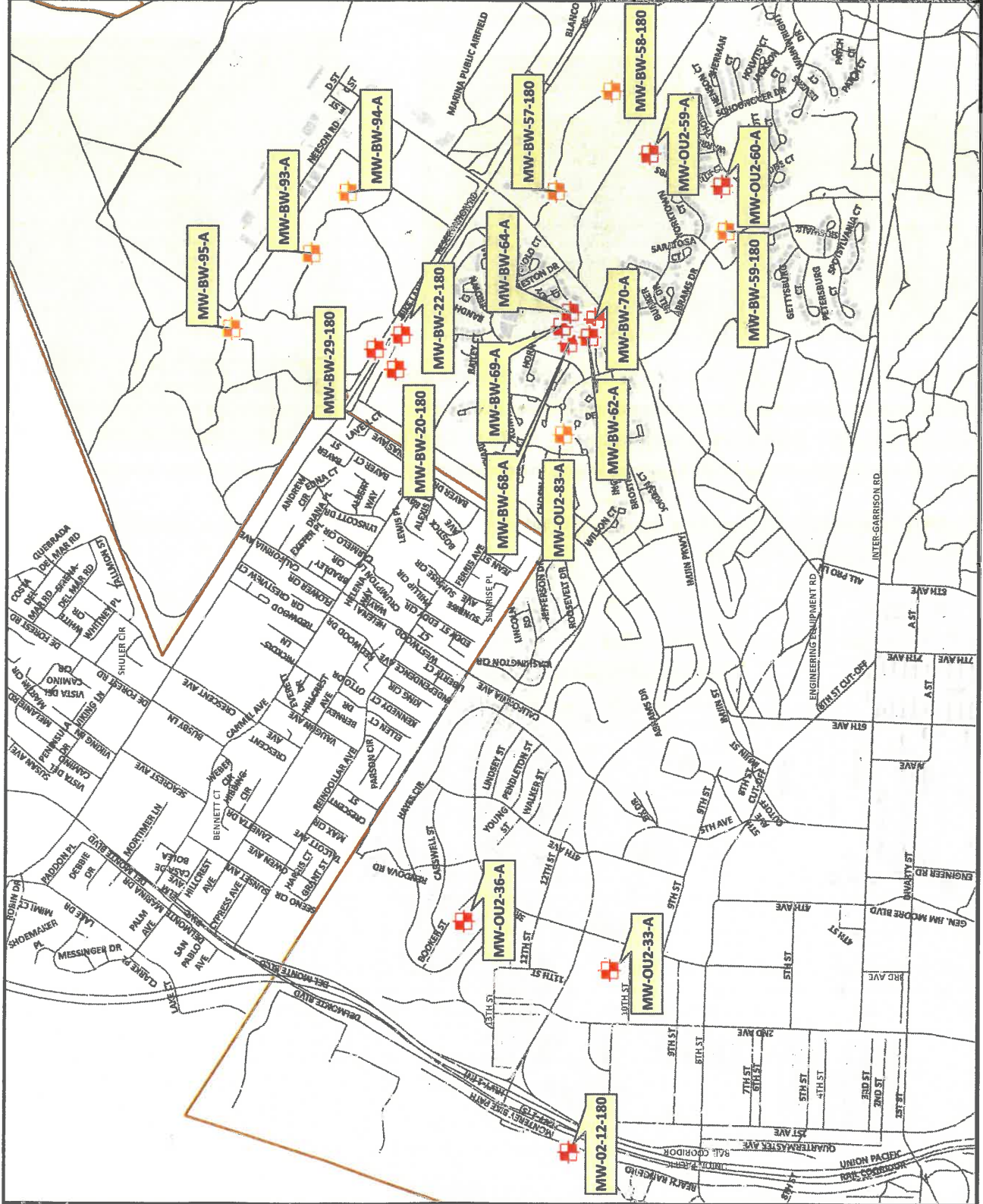
**Well Type**

Monitoring Well - To Decommission

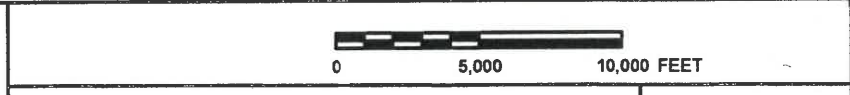
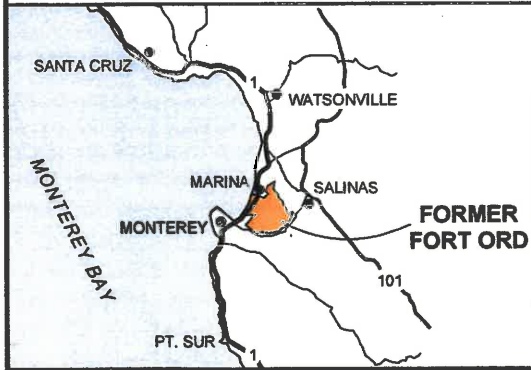
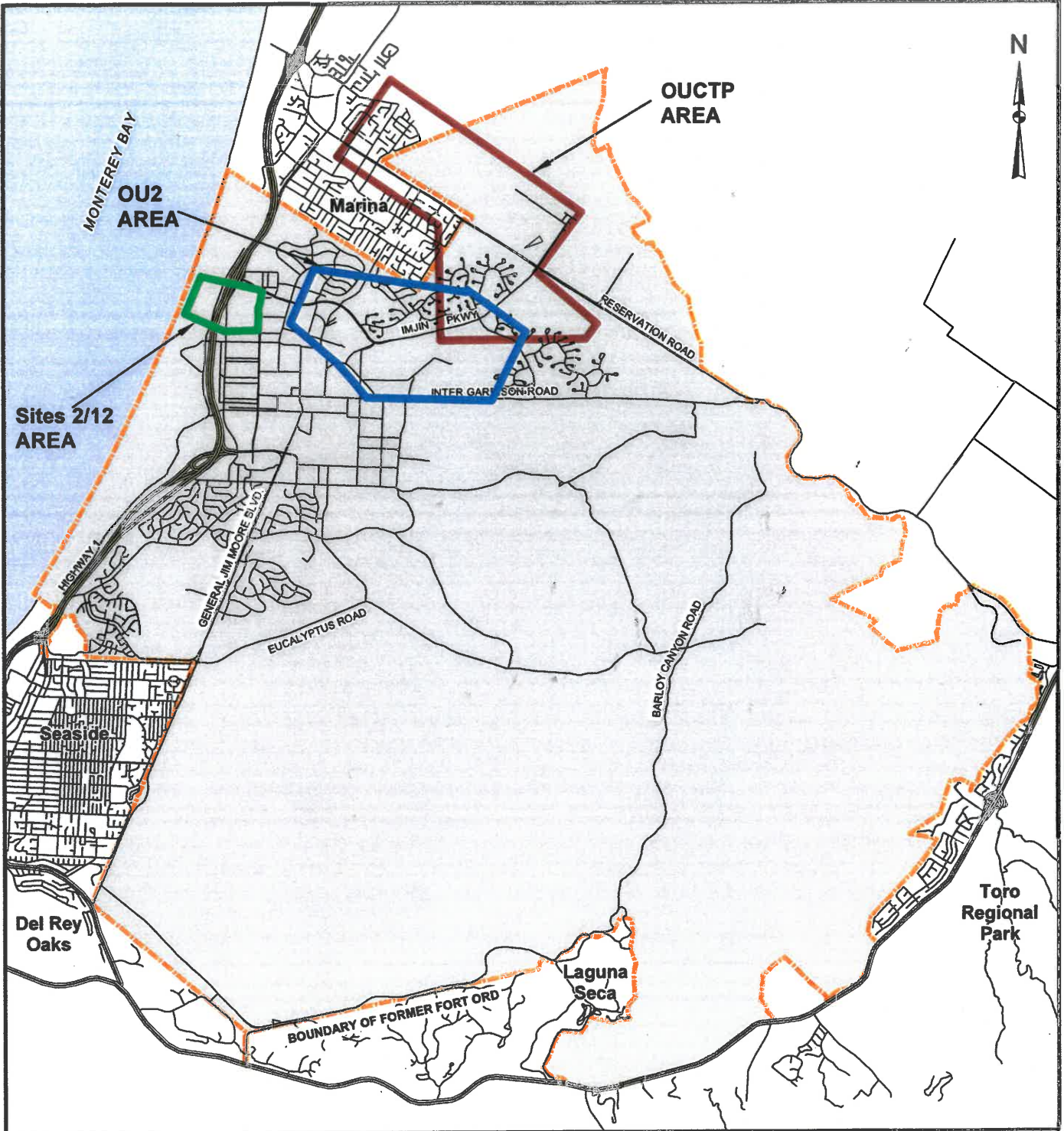
Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





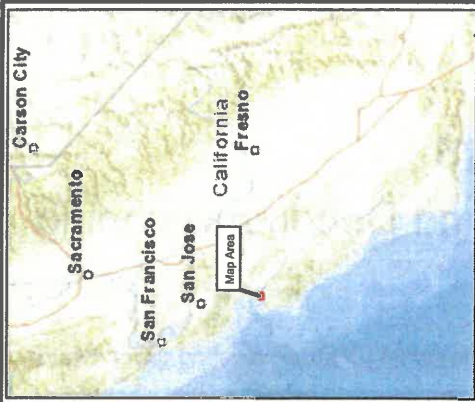


**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure  
1



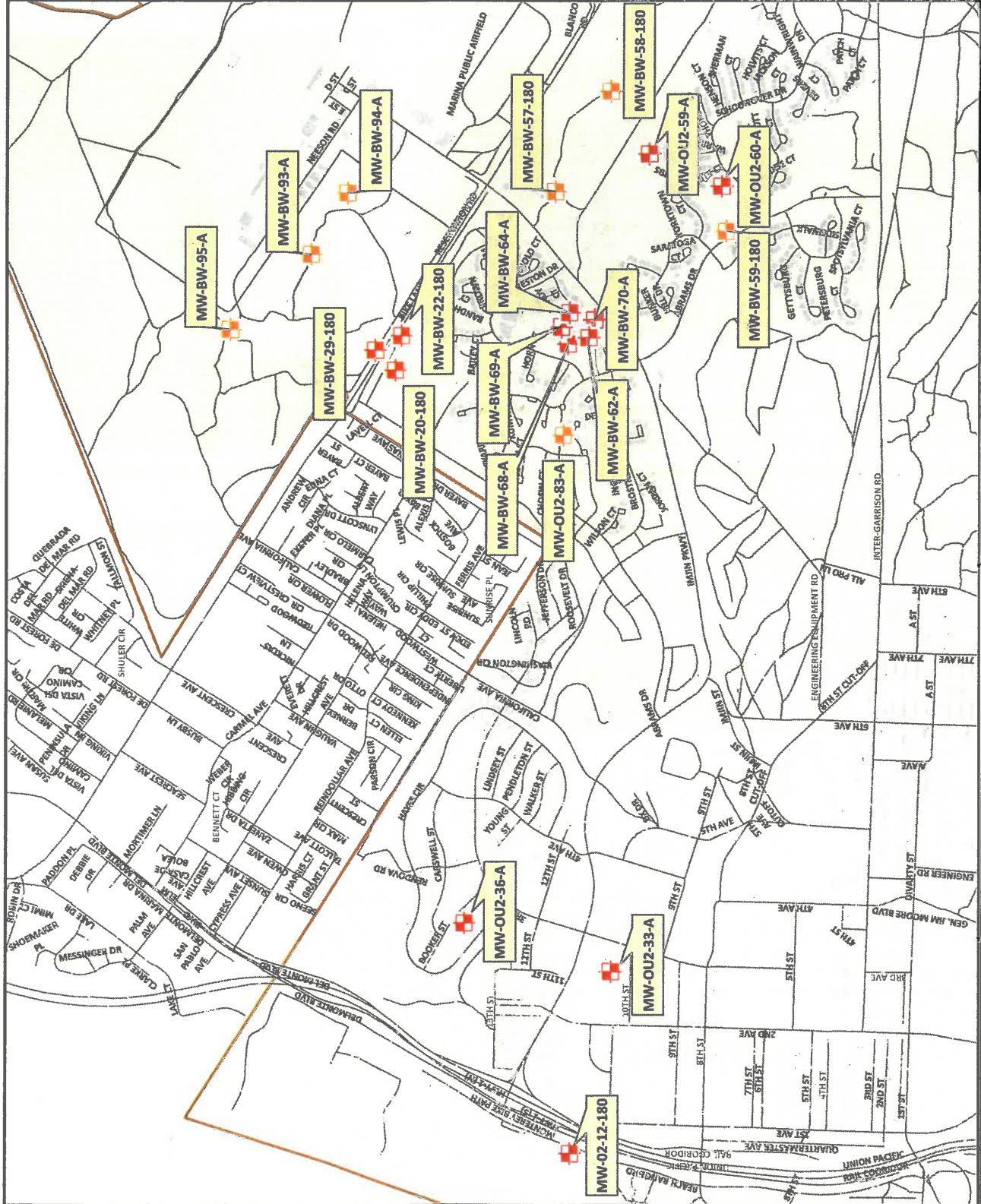


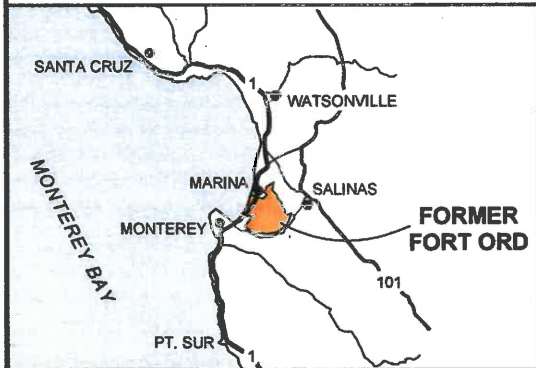
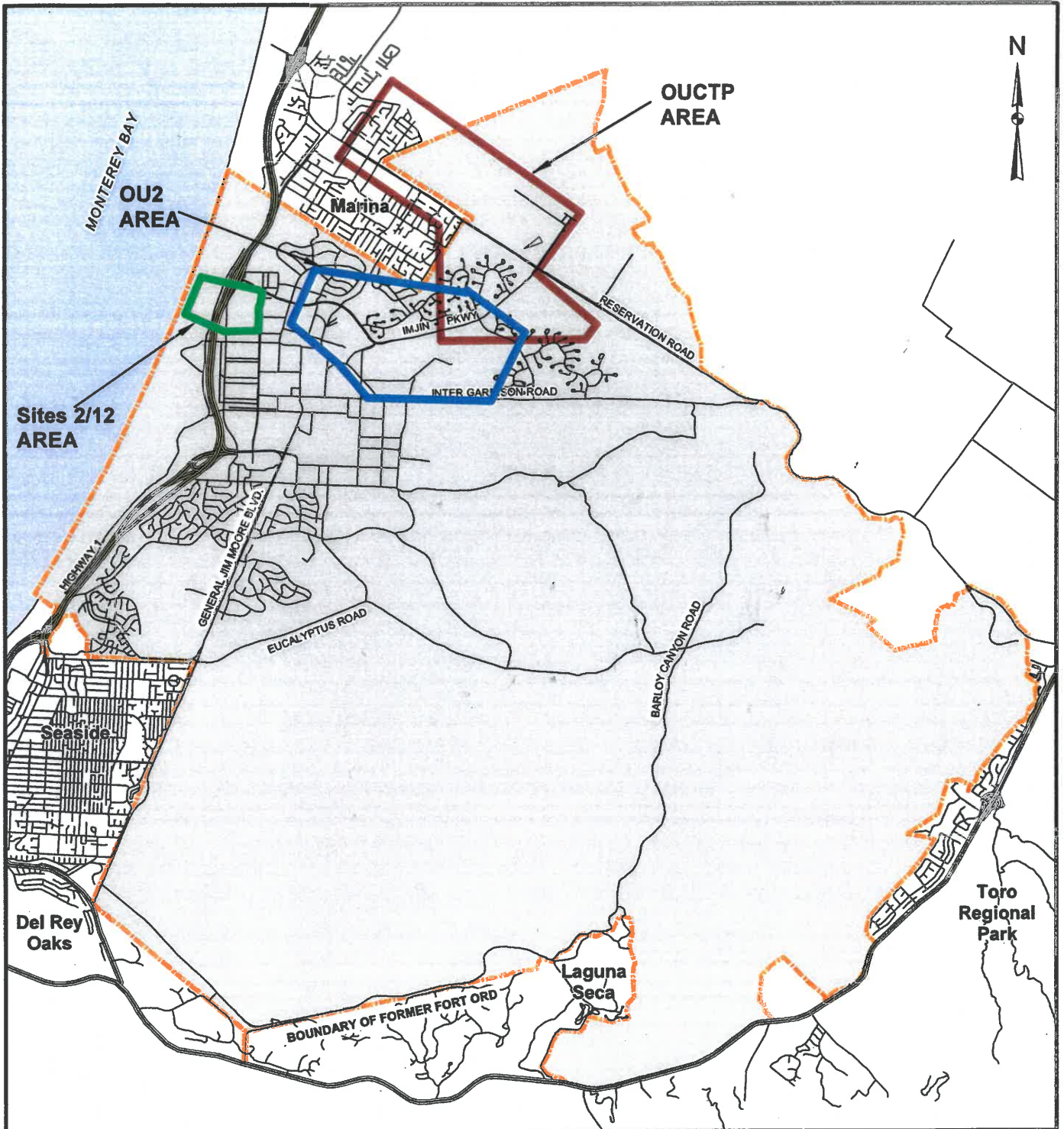
**Legend**

- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type**
  - Monitoring Well - To Decommission
  - Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure

**1**

\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California
Well Completion Report

Refer to Instruction Pamphlet
No. e0370549

Page 1 of 3

Owner's Well Number MW-BW-69-A

Date Work Began 08/21/2018

Date Work Ended 8/28/2018

Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT

Permit Number HZ-18913

Permit Date 8/6/18

DWR Use Only - Do Not Fill In
State Well Number/Site Number
Latitude Longitude
APN/TRS/Other

Geologic Log
Orientation Vertical Horizontal Angle
Drilling Method Drilling Fluid
Depth from Surface Description
PRESSURE ABANDON CEMENT GROUT
DRILL OUT TOP 5 FEET
Total Depth of Boring
Total Depth of Completed Well

Well Owner (confidential pursuant to CA Water Code 13752)
Name US ARMY CORPS OF ENGINEERS
Mailing Address 1325 J. STREET
City SACRAMENTO State CA Zip 95814
Well Location
Address
City County
Latitude Longitude
Datum Dec. Lat. Dec. Long.
APN Book 031 Page 201 Parcel 027
Township Range Section

Location Sketch
(Sketch must be drawn by hand after form is printed.)
North
See Attached.
West East
South
Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity
New Well
Modification/Repair
Deepen
Other
Destroy
Planned Uses
Water Supply
Domestic Public
Irrigation Industrial
Cathodic Protection
Dewatering
Heat Exchange
Injection
Monitoring
Remediation
Sparging
Test Well
Vapor Extraction
Other

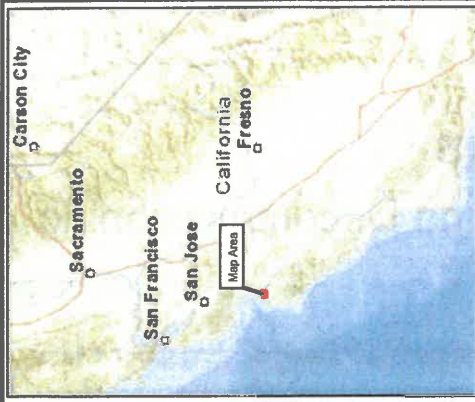
Water Level and Yield of Completed Well
Depth to first water (Feet below surface)
Depth to Static
Water Level (Feet) Date Measured
Estimated Yield \* (GPM) Test Type
Test Length (Hours) Total Drawdown (Feet)
\*May not be representative of a well's long term yield.

Casings table with columns: Depth from Surface, Borehole Diameter, Type, Material, Wall Thickness, Outside Diameter, Screen Type, Slot Size if Any.

Annular Material table with columns: Depth from Surface, Fill, Description.

Attachments
Geologic Log
Well Construction Diagram
Geophysical Log(s)
Soil/Water Chemical Analyses
Other MAPS

Certification Statement
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief
Name YELLOW JACKET DRILLING SERVICES, LLC
Person, Firm or Corporation
9460 LUCAS RANCH RD RANCHO CUCAMONG CA 91730
Address City State Zip
Signed Date Signed 10/8/2018 1034407
C-57 Licensed Water Well Contractor Date Signed C-57 License Number



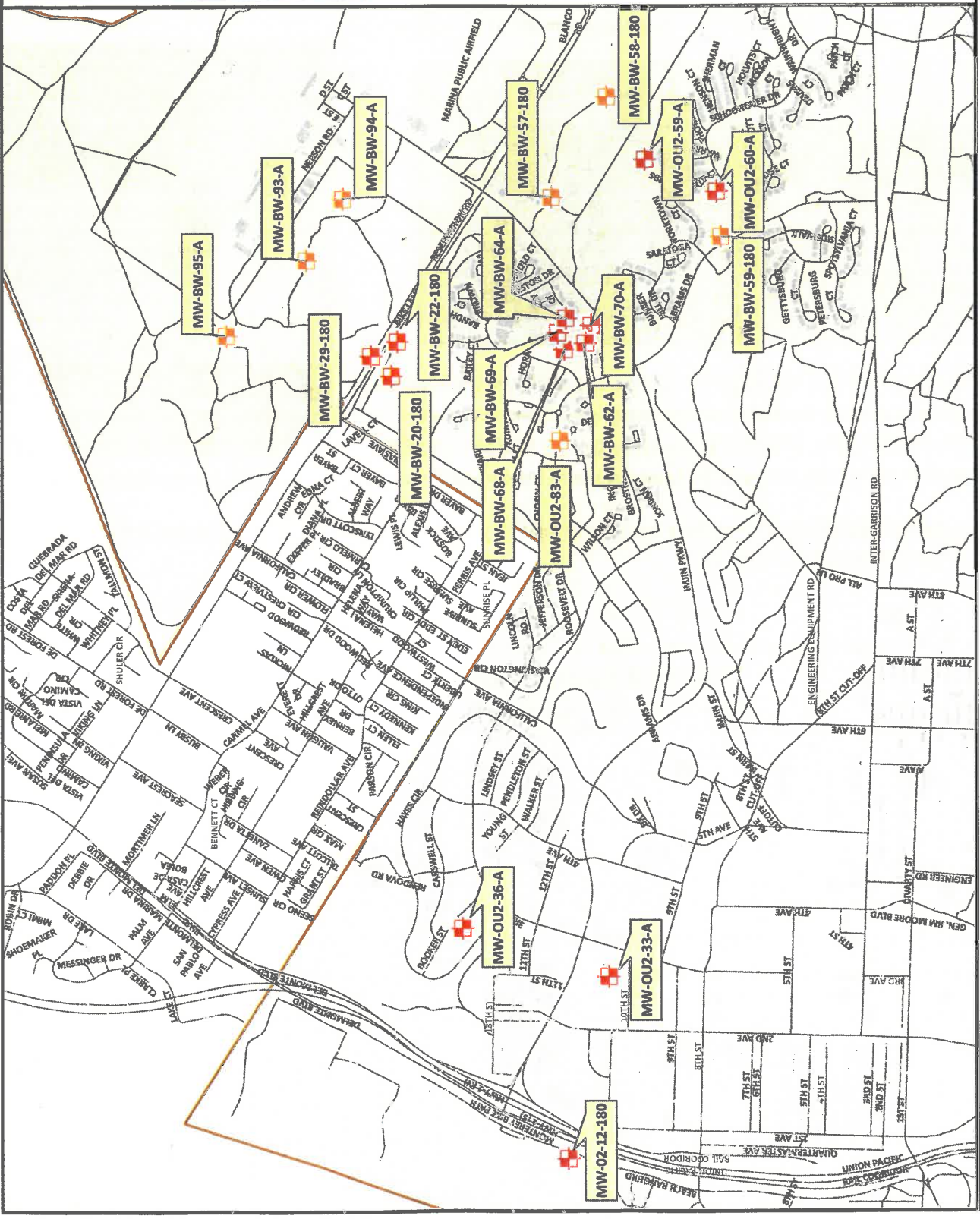
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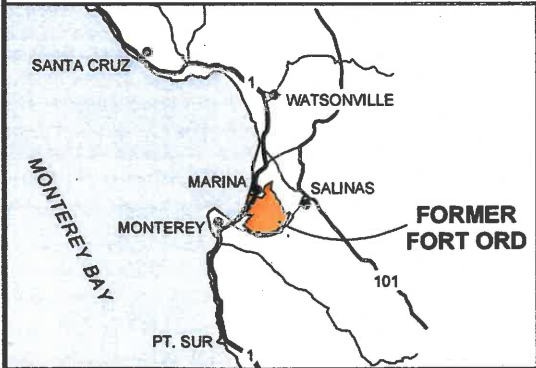
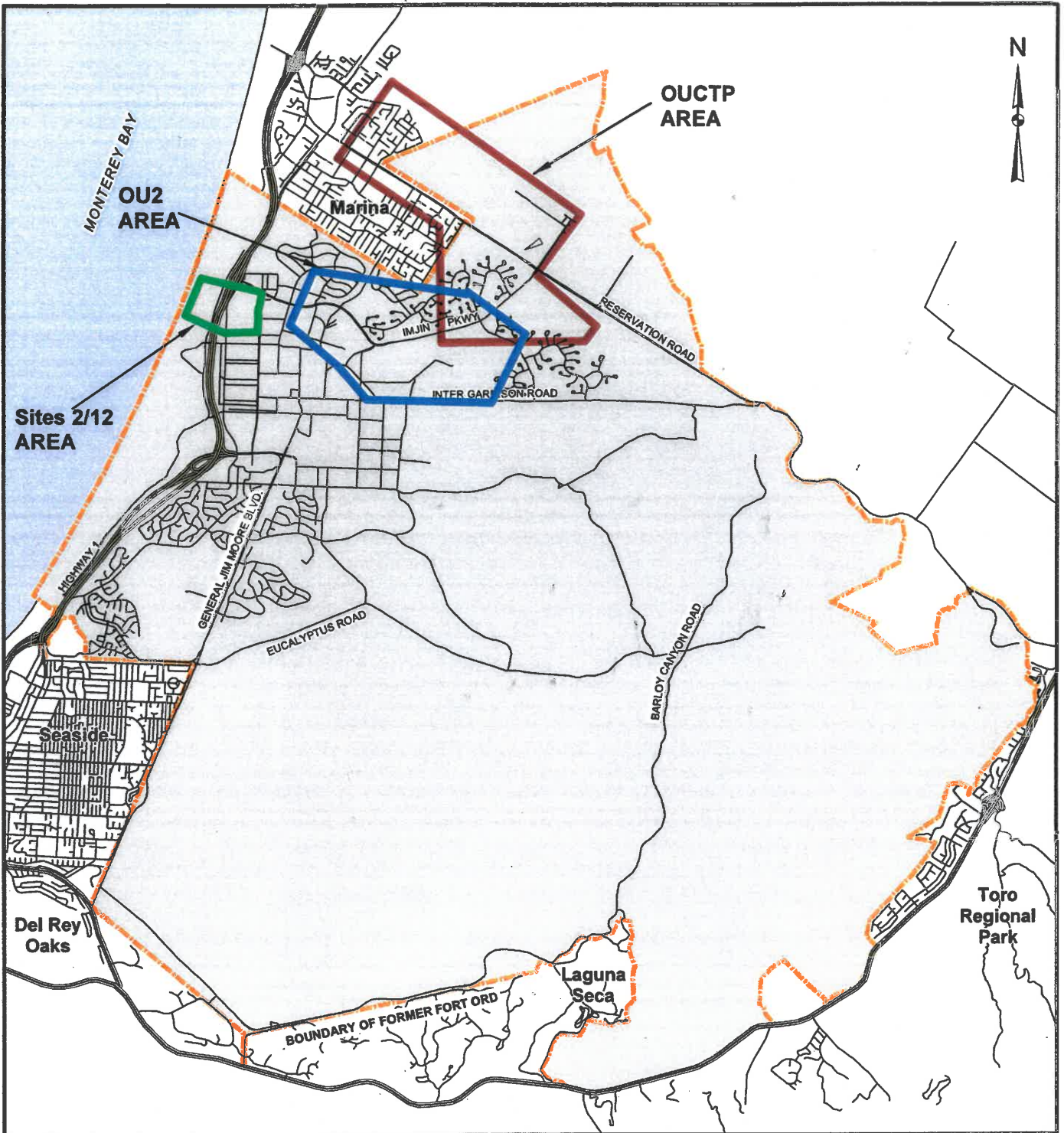
- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type**
  - Monitoring Well - To Decommission (Red square with cross)
  - Monitoring Well - To Install (Orange square with cross)

0 750 1,500 3,000 Feet

N

**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

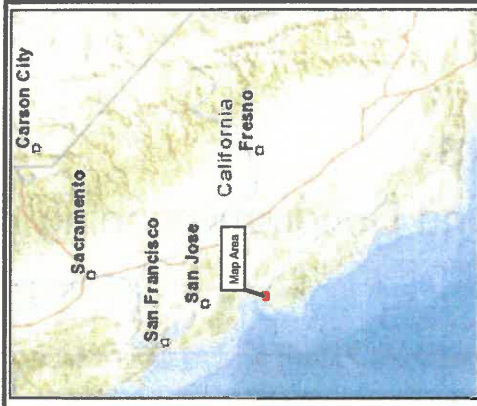
*Ahtna*

Figure

**1**





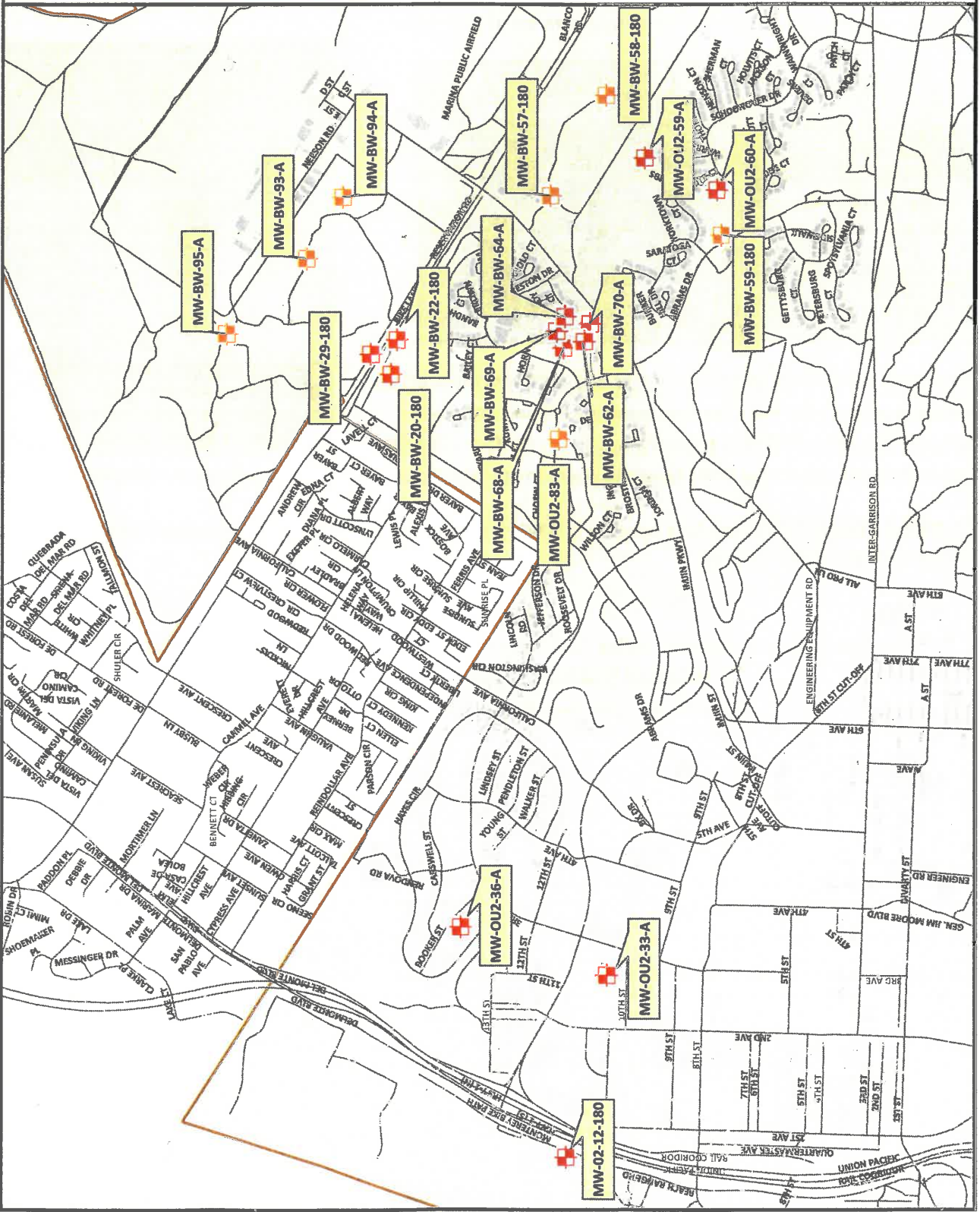


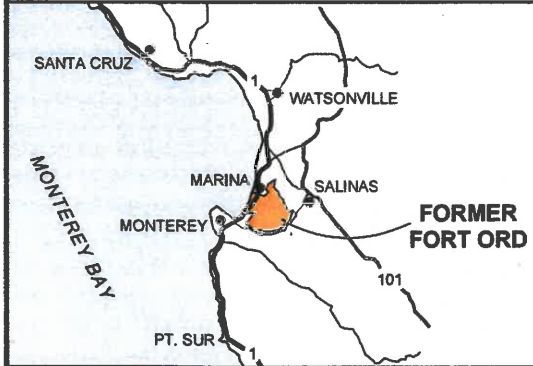
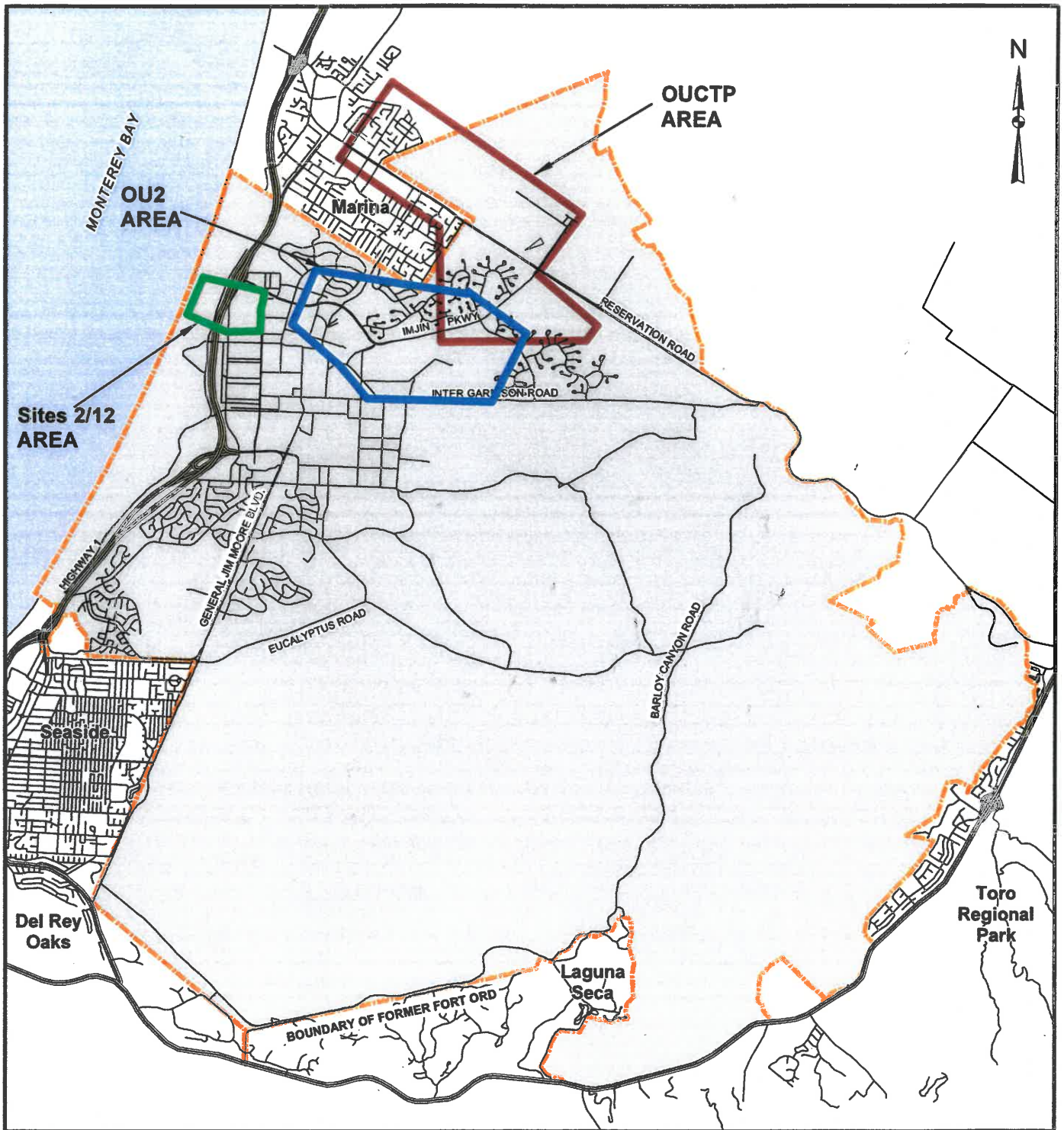
**Legend**

- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type**
- Monitoring Well - To Decommission
- Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure

**1**

File Original with DWR

State of California  
**Well Completion Report**

Refer to Instruction Pamphlet  
No. e0370557

Page 1 of 3

Owner's Well Number MW-BW-22-180

Date Work Began 08/21/2018

Date Work Ended 8/28/2018

Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT

Permit Number HZ-18916

Permit Date 8/7/18

DWR Use Only – Do Not Fill In									
State Well Number/Site Number									
Latitude					Longitude				
APN/TRS/Other									

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method _____		Drilling Fluid _____
Depth from Surface	Feet to Feet	Description
		Describe material, grain size, color, etc
		PRESSURE ABANDON CEMENT GROUT
		DRILL OUT TOP 5 FEET
Total Depth of Boring _____ Feet		
Total Depth of Completed Well _____ Feet		

Well Owner (confidential pursuant to CA Water Code 13752)
Name <u>US ARMY CORPS OF ENGINEERS</u>
Mailing Address <u>1325 J. STREET</u>
City <u>SACRAMENTO</u> State <u>CA</u> Zip <u>95814</u>
Well Location
Address _____
City _____ County _____
Latitude _____ N Longitude _____ W <small>Deg. Min. Sec. Deg. Min. Sec.</small>
Datum _____ Dec. Lat. _____ Dec. Long. _____
APN Book <u>031</u> Page <u>271</u> Parcel <u>008</u>
Township _____ Range _____ Section _____

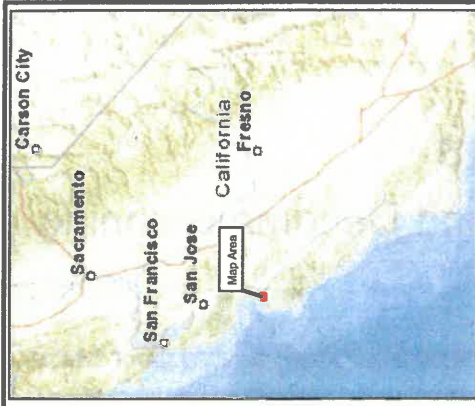
Location Sketch	Activity
(Sketch must be drawn by hand after form is printed.)	<input type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input checked="" type="radio"/> Destroy <small>Describe procedures and materials under "GEOLOGIC LOG"</small>
North	Planned Uses
<div style="border: 1px solid black; padding: 5px; text-align: center; font-size: 2em; color: blue;">See Attached</div>	<input type="radio"/> Water Supply <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input checked="" type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____
South	
<small>Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.</small>	

Water Level and Yield of Completed Well
Depth to first water _____ (Feet below surface)
Depth to Static _____
Water Level _____ (Feet) Date Measured _____
Estimated Yield * _____ (GPM) Test Type _____
Test Length _____ (Hours) Total Drawdown _____ (Feet)
*May not be representative of a well's long term yield.

Casings							Annular Material			
Depth from Surface <small>Feet to Feet</small>	Borehole Diameter <small>(Inches)</small>	Type	Material	Wall Thickness <small>(Inches)</small>	Outside Diameter <small>(Inches)</small>	Screen Type	Slot Size if Any <small>(Inches)</small>	Depth from Surface <small>Feet to Feet</small>	Fill	Description

Attachments
<input type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>MAPS</u>
<small>Attach additional information, if it exists.</small>

Certification Statement
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief
Name <u>YELLOW JACKET DRILLING SERVICES, LLC</u>
<small>Person, Firm or Corporation</small>
<u>9460 LUCAS RANCH RD</u> <u>RANCHO CUCAMON</u> <u>CA</u> <u>91730</u>
<small>Address City State Zip</small>
Signed <u>10/8/2018</u> <u>1034407</u>
<small>C-57 Licensed Water Well Contractor Date Signed C-57 License Number</small>

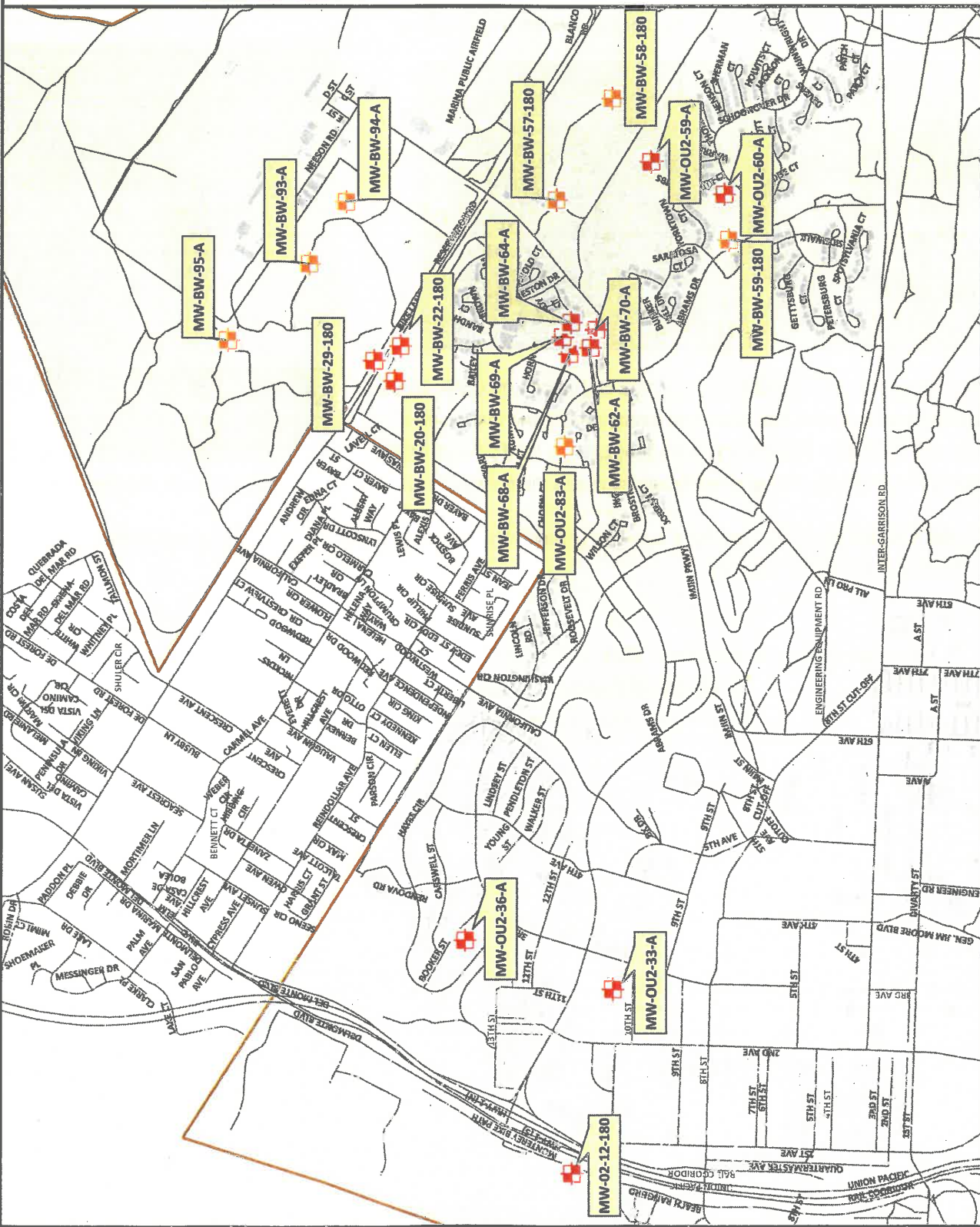


**Legend**

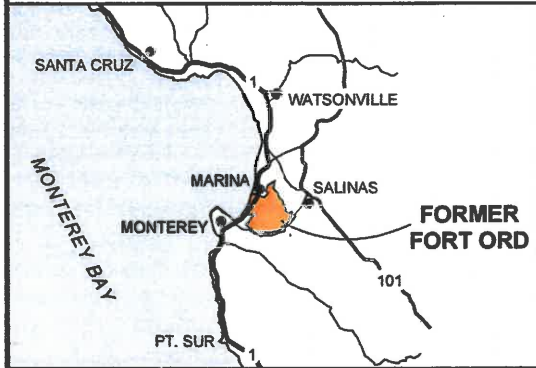
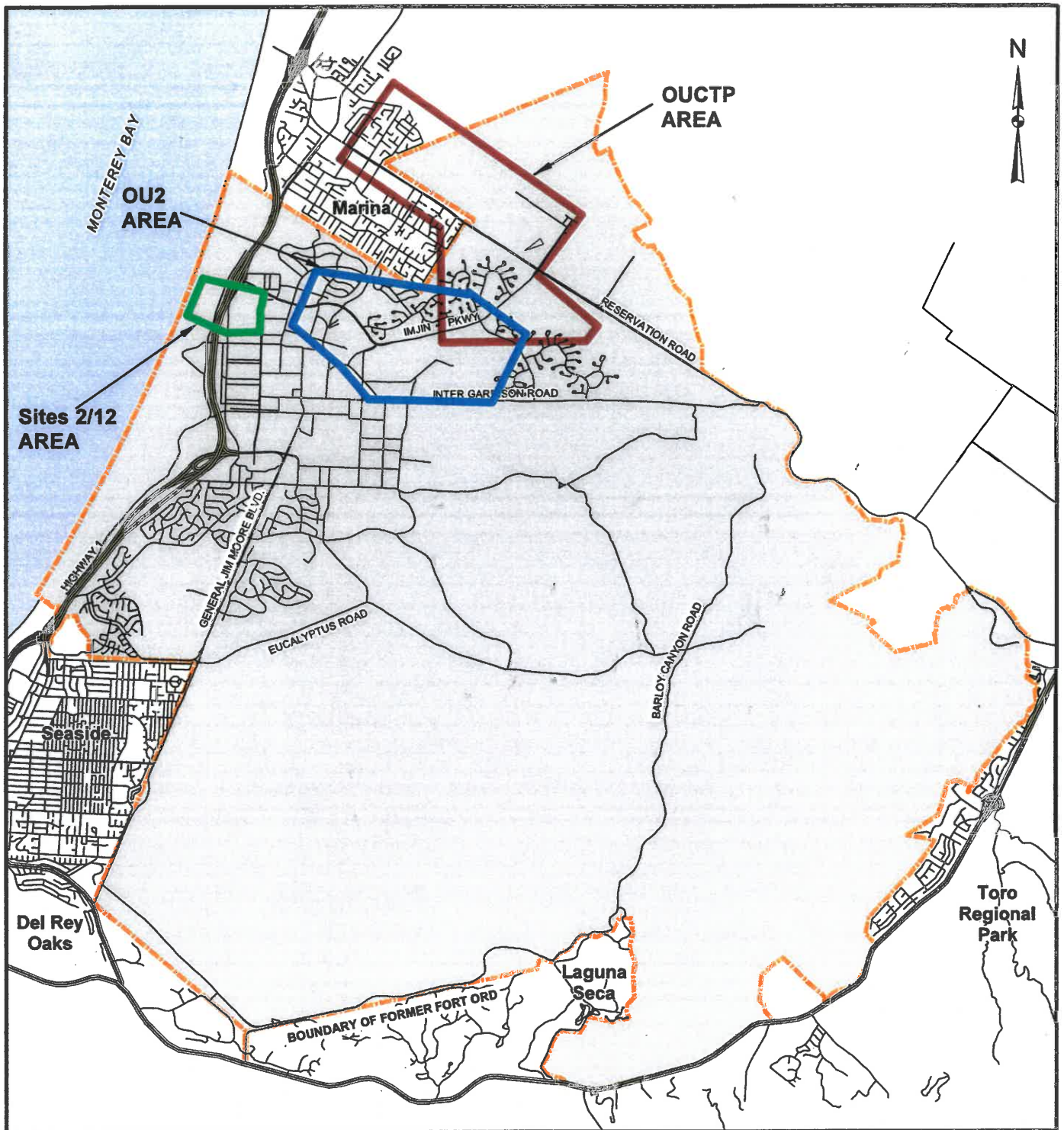
- Roads
- Buildings
- Former Fort Ord Boundary
- Well Type
  - Monitoring Well - To Decommission
  - Monitoring Well - To Install

Scale: 0, 750, 1,500, 3,000 Feet

North Arrow



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**



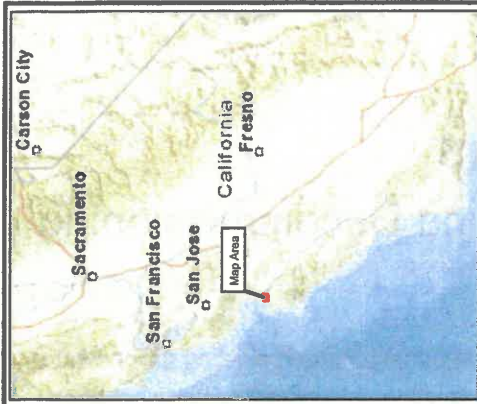
**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

Figure

**1**

*Ahtna*





**Legend**

Roads

Buildings

Former Fort Ord Boundary

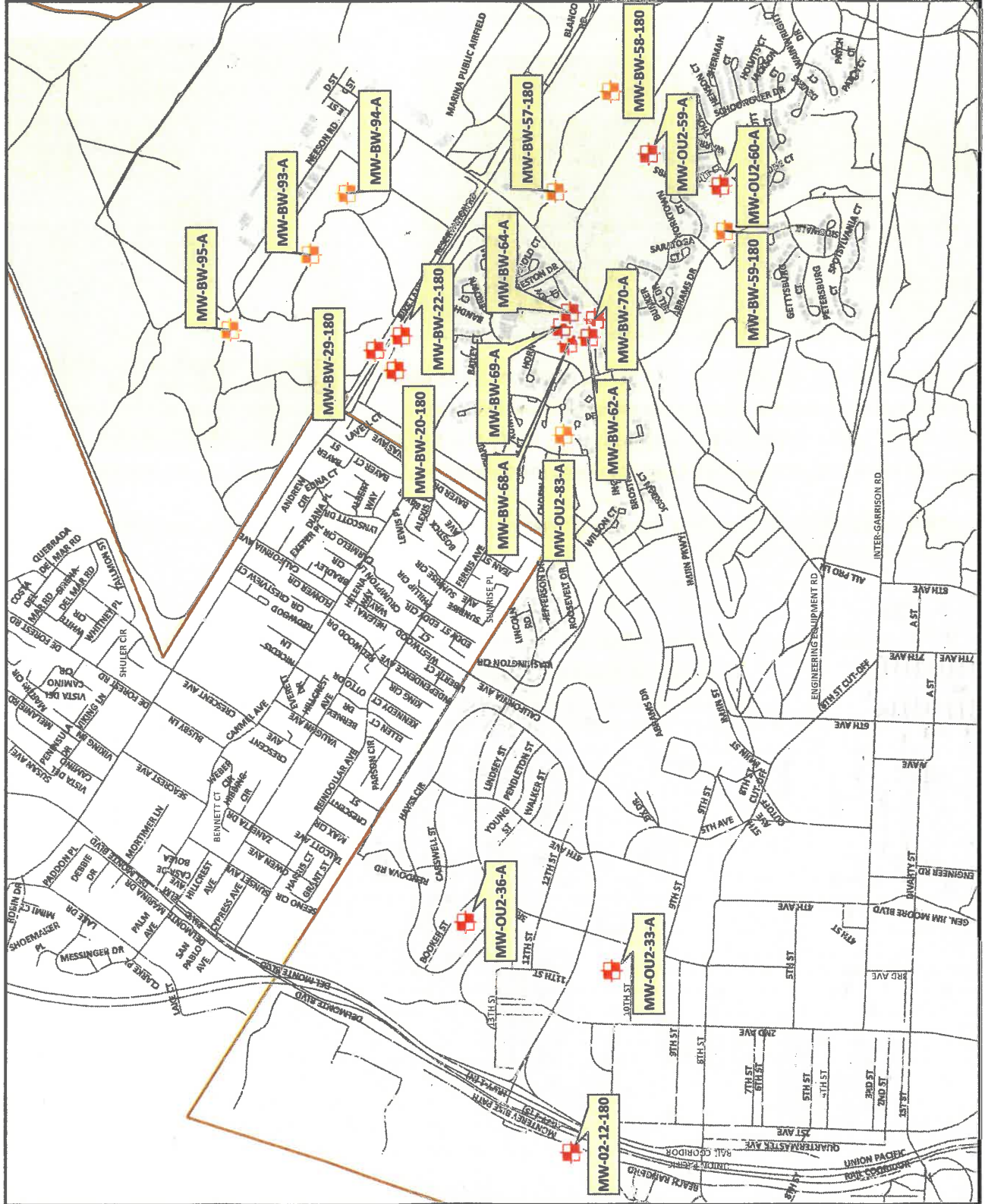
Well Type

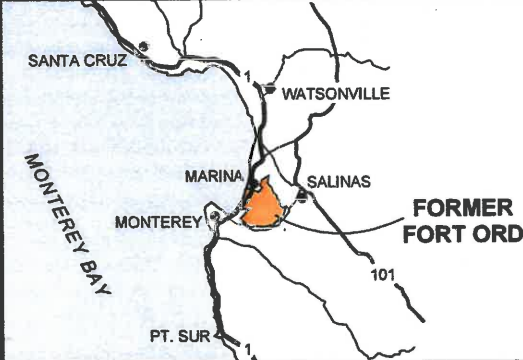
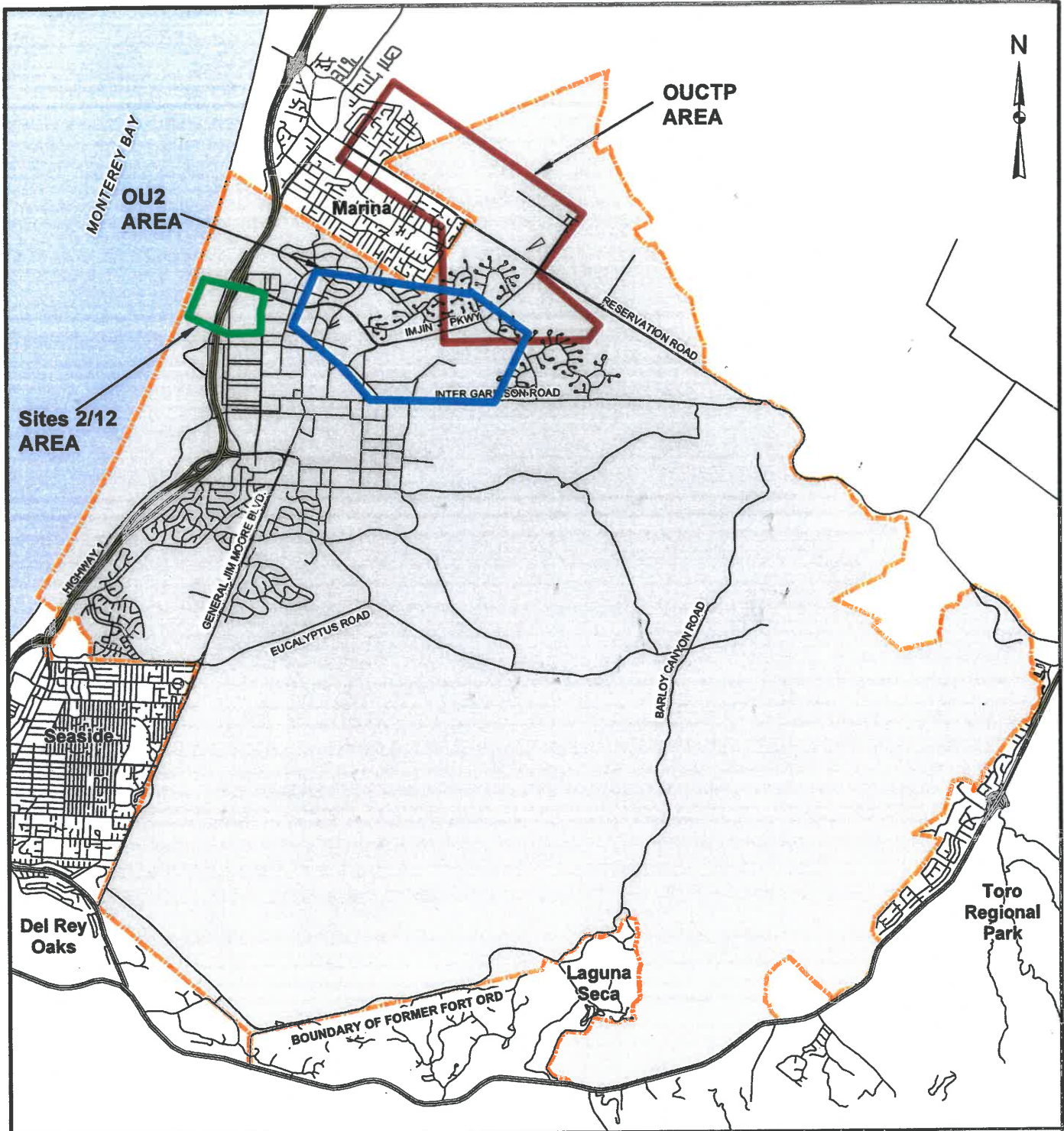
Monitoring Well - To Decommission

Monitoring Well - To Install



**Former Fort Ord  
2018 Well Installation and  
Well Decommissioning Map**





**Site Vicinity**  
 Well Decommissioning Work Plan  
 Former Fort Ord, California

*Ahtna*

Figure

**1**



**APPENDIX E**  
Site Habitat Checklists

## SITE HABITAT CHECKLIST

The following are requirements to minimize biological disturbances to protected species and habitat. Please notify the Ahtna Biologist (Denise Duffy and Associates) at 831-917-3242 *before* proceeding, if work tasks or work boundaries change, additional vegetation removal is necessary, vegetation cutting methods change, or any other conditions change.

<b>SITE:</b>	University of California – Fort Ord Natural Reserve	<b>Date:</b>	08/14/2018
<b>Work to be conducted:</b>	Well Installation and Decommissioning at Operable Unit 2 and Operable Unit Carbon Tetrachloride Plume		
<b>1. LAND USE:</b>	<b>Habitat Reserve</b> FONR North/South	<b>Development Area</b>	<b>Other (specify):</b>
<b>2. LAND OWNER:</b>	<b>Army:</b>	<b>Location:</b>	
	<b>BLM:</b>	<b>Location:</b>	
	<b>Other:</b>	<b>Location:</b>	University of California
<b>3. ENDANGERED SPECIES/Yes: <u>X</u> No: _____</b>	<b>Flagged/Marked: <u>X</u></b>		
<b>HMP Listed Species:</b>	CA Tiger Salamander, Black Legless Lizard, Coast Horned Lizard, Monterey Spineflower, and Monterey Gilia		
<b>Location:</b>	MW-OU2-59-A, MW-BW-29-180, MW-BW-93-A, MW-BW-94-A, MW-BW-95-A		
<b>Grid Numbers:</b>			
<b>Restrictions:</b>	<ul style="list-style-type: none"> <li>Restrict all vehicle access and staging to designated routes and staging areas.</li> <li>Stay on roads.</li> <li>Report all black legless lizard or California Tiger Salamander encounters to Ahtna field supervisor and biologist immediately. Do not touch Salamander unless it will otherwise be harmed.</li> <li>Coordinate with biologist first if additional areas are needed for access or staging of equipment or vehicles.</li> <li>Contact number for Ahtna Biologist (Denise Duffy and Associates) is 831-917-3242.</li> <li>Contact number for the BRAC Office Biologist Bart Kowalski is 831-595-5569.</li> <li>Pressure wash/brush off tires and tracks of equipment and vehicles that will encounter soils at the FONR locations before entry into area to prevent spread of non-native species.</li> <li>Walk in front of vehicles for coast horned lizard avoidance when accessing MW-BW-93-A, MW-BW-94-A, and MW-BW-95-A on inner roads.</li> <li>Contact Ahtna Biologist Matt Johnson with Denise Duffy and Associates before moving to a new location to assist in setting up equipment in approved locations.</li> </ul>		
<b>4. VERNAL POOLS/PONDS PRESENT: Yes: _____ No: <u>X</u> Flagged/Marked: _____</b>			
<b>Location:</b>	Access to MW-OU2-59-A has small seasonal ponding on required vehicle route.		
<b>Grid Numbers:</b>			
<b>Work Can Proceed in Pools/Ponds: Yes: <u>X</u> No: _____</b>			
<b>Restrictions:</b>			

<b>VEGETATION REMOVAL</b>	
<b>No Removal Needed:</b>	<b>Location:</b> MW-BW-29-180
<b>Manual Removal Needed:</b>	<b>Location:</b> MW-OU2-59-A, MW-BW-93-A, MW-BW-94-A, and MW-BW-95-A
<b>Mechanical Removal Needed:</b>	<b>Location:</b>
<b>Restrictions:</b> Areas of removal already approved by UC reserve manager Joe Miller on August 1 and conducted prior to drilling.	
<b>5. Surface Removal Needed:</b>	<b>Location:</b> well materials of MW-BW-29-180 and MW-OU2-59-A.
<b>Restrictions:</b> Ok to removing well materials above surface and 5 feet below surface (MW-OU2-59-A) or one foot below surface (MW-BW-29-180). Replace excavation with existing topsoil at MW-BW-29-180.	
<b>6. EROSION CONCERNS/SITE RESTORATION:</b> If water is produced during drilling and grouting activities it is ok to let penetrate ground surface. Wetted areas will be managed to reduce erosion of topsoil as needed.	
<b>7. SITE ACCESS:</b> Access to MW-BW-93-A and MW-BW-95-A through Neeson Rd gate. Access to MW-BW-94-A through gate adjacent to Reservation Rd. Access to MW-BW-58-180 through Don Chapin/Assured Aggregates facility and do not move past tree line into FONR. Stay on road and approved paths. Walk in front of vehicles on inner roads going to MW-BW-93-A, MW-BW-94-A, and MW-BW-95-A for coast horned lizard avoidance.	
<b>8. ADDITIONAL SITE CONCERNS:</b>	

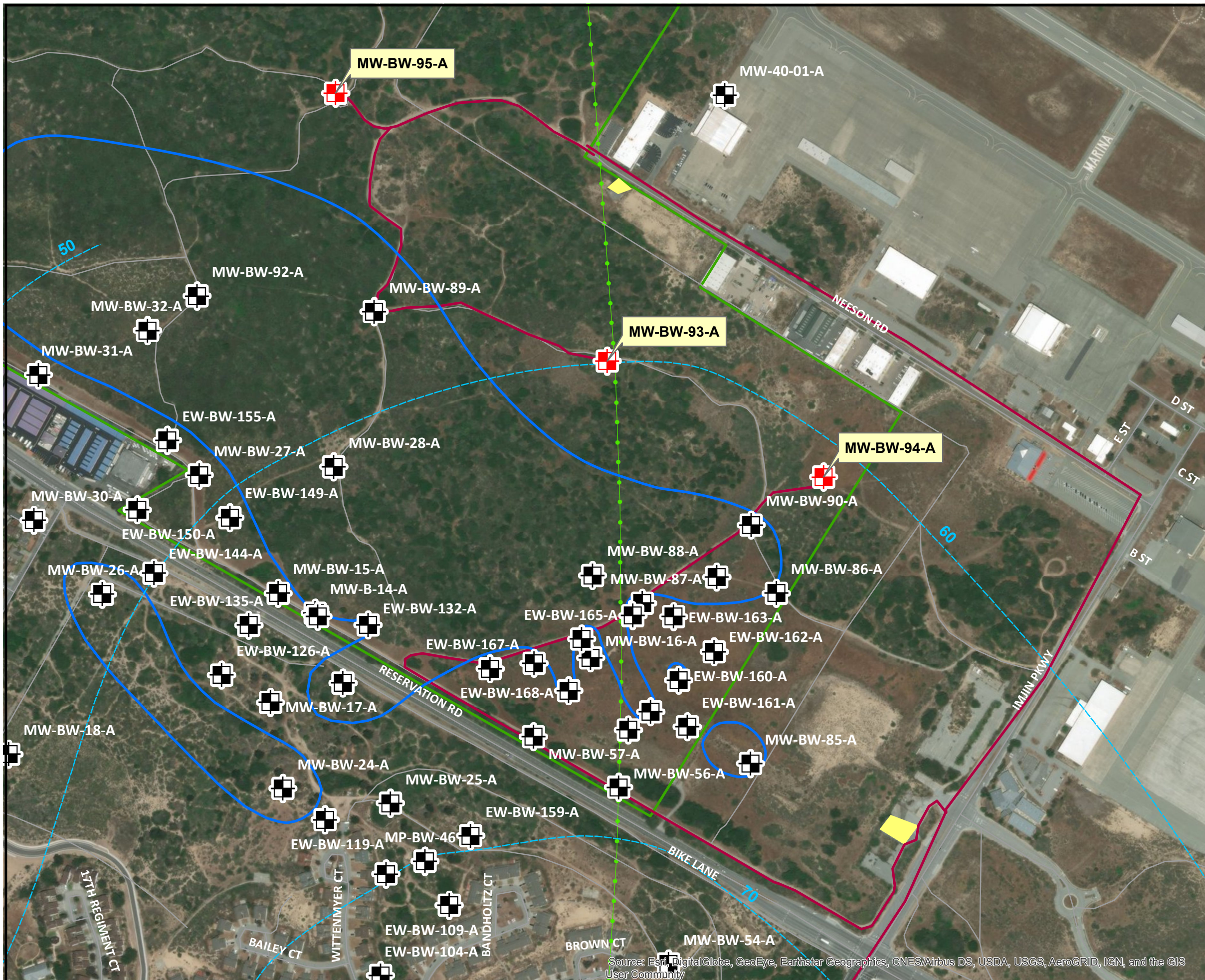
This checklist has been read, approved, and signed by the following:

Ahtna Biologist:  Date: 08/15/2018

Ahtna Field Supervisor:  Date: 08/16/2018

Army BRAC Biologist: 1387978115 Date: \_\_\_\_\_

KOWALSKI.BARTHOLOMEW.L. Digitally signed by KOWALSKI.BARTHOLOMEW.L.1387978115  
DN: c=US, o=U.S. Government, ou=DAI, ou=PII,  
serial=CONTRACTOR, cn=KOWALSKI.BARTHOLOMEW.L.1387978115  
Date: 2018.08.17 10:11:28 -0700



**Legend**

- Groundwater Divide
- - - Groundwater Elevation (ft MSL) 2017-4Q
- Carbon Tetrachloride (0.5 ug/L) 2017-4Q
- Roads
- FONR Boundary
- Existing Wells
- Proposed Well Location
- Access Routes
- Staging Areas

N

0 250 500 1,000 Feet

**OUCTP A-Aquifer  
New Monitoring Well Locations**

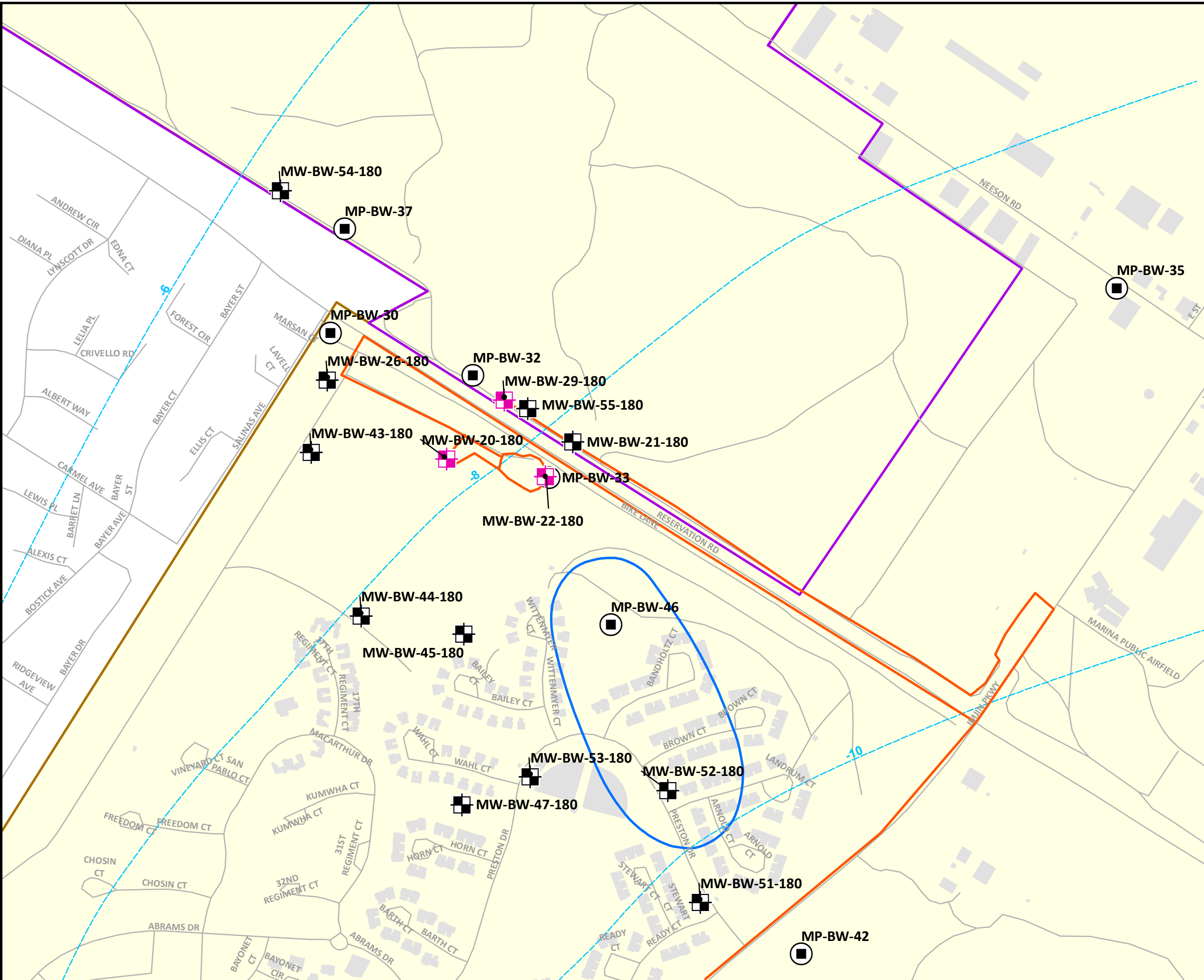
Well Installation  
Work Plan  
Former Fort Ord, California

Figure:

3

Ahtna

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**Legend**

- Roads
- Access Routes
- Carbon Tetrachloride (0.5 ug/L) 2017-4Q
- - - Groundwater Elevation (ft MSL) 2017-4Q
- ▭ Former Fort Ord Boundary
- ▭ FONR Boundary
- ▭ Buildings

**OUCTP Upper 180-Foot Aquifer Well Type**

- ⊗ Extraction Well
- ⊠ Monitoring Well
- ⊞ Multi-Port Well (Westbay)
- ⊠ Monitoring Well - To Decommission

0 250 500 1,000 Feet




N

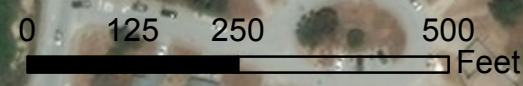
**OUCTP Upper 180-Foot Aquifer  
Monitoring Well  
Decommissioning Locations**

Well Decommissioning  
Work Plan  
Former Fort Ord, California



**Legend**

-  MW-OU2-59-A
-  Access Route
-  FONR Boundary




## SITE HABITAT CHECKLIST

The following are requirements to minimize biological disturbances to protected species and habitat. Please notify the Ahtna Biologist (Denise Duffy and Associates) at 831-917-3242 *before* proceeding, if work tasks or work boundaries change, additional vegetation removal is necessary, vegetation cutting methods change, or any other conditions change.

<b>SITE:</b>	Fort Ord Dunes State Park	<b>Date:</b>	08/14/2018
<b>Work to be conducted:</b>	Well Decommissioning at Sites 2 and 12		
<b>1. LAND USE:</b>	<b>Habitat Reserve</b>	<b>Development Area</b>	<b>Other (specify):</b>
	Fort Ord Dunes State Park		
<b>2. LAND OWNER:</b>	<b>Army:</b>	<b>Location:</b>	
	<b>BLM:</b>	<b>Location:</b>	
	<b>Other:</b>	<b>Location:</b>	California Parks and Recreation
<b>3. ENDANGERED SPECIES/Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> Flagged/Marked: <input checked="" type="checkbox"/></b>			
<b>HMP Listed Species:</b>	Black Legless Lizard, Smith's blue butterfly, Monterey spineflower, and buckwheat		
<b>Location:</b>	MW-02-12-180		
<b>Grid Numbers:</b>			
<b>Restrictions:</b>			
<ul style="list-style-type: none"> <li>• Restrict all vehicle access and staging to designated routes and staging areas.</li> <li>• Stay on roads.</li> <li>• Report all black legless lizard encounters to Ahtna field supervisor and biologist immediately.</li> <li>• Coordinate with biologist first if additional areas are needed for access or staging of equipment or vehicles.</li> <li>• Contact number for Ahtna Biologist (Denise Duffy and Associates) is 831-917-3242.</li> <li>• Contact number for the BRAC Office Biologist Bart Kowalski is 831-595-5569.</li> <li>• Contact Ahtna Biologist Matt Johnson with Denise Duffy and Associates before moving to the location to assist in setting up equipment in approved locations.</li> </ul>			
<b>4. VERNAL POOLS/PONDS PRESENT: Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/> Flagged/Marked: <input type="checkbox"/></b>			
<b>Location:</b>			
<b>Grid Numbers:</b>			
<b>Work Can Proceed in Pools/Ponds: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/></b>			
<b>Restrictions:</b>			

<b>5. VEGETATION REMOVAL</b>	
<b>No Removal Needed:</b>	<b>Location:</b> MW-02-12-180
<b>Manual Removal Needed:</b>	<b>Location:</b>
<b>Mechanical Removal Needed:</b>	<b>Location:</b>
<b>Restrictions:</b>	
<b>6. Surface Removal Needed:</b>	<b>Location:</b> well material from MW-02-12-180
<b>Restrictions:</b> Ok to remove well materials above surface and one foot below surface. Replace excavation with existing topsoil at MW-02-12-180.	
<b>7. EROSION CONCERNS/SITE RESTORATION:</b> If water is produced during drilling and grouting activities it is ok to let penetrate ground surface. Wetted areas will be managed to reduce erosion of topsoil as needed.	
<b>8. SITE ACCESS:</b> Access MW-02-12-180 from Beach Range Rd.	
<b>9. ADDITIONAL SITE CONCERNS:</b>	

This checklist has been read, approved, and signed by the following:

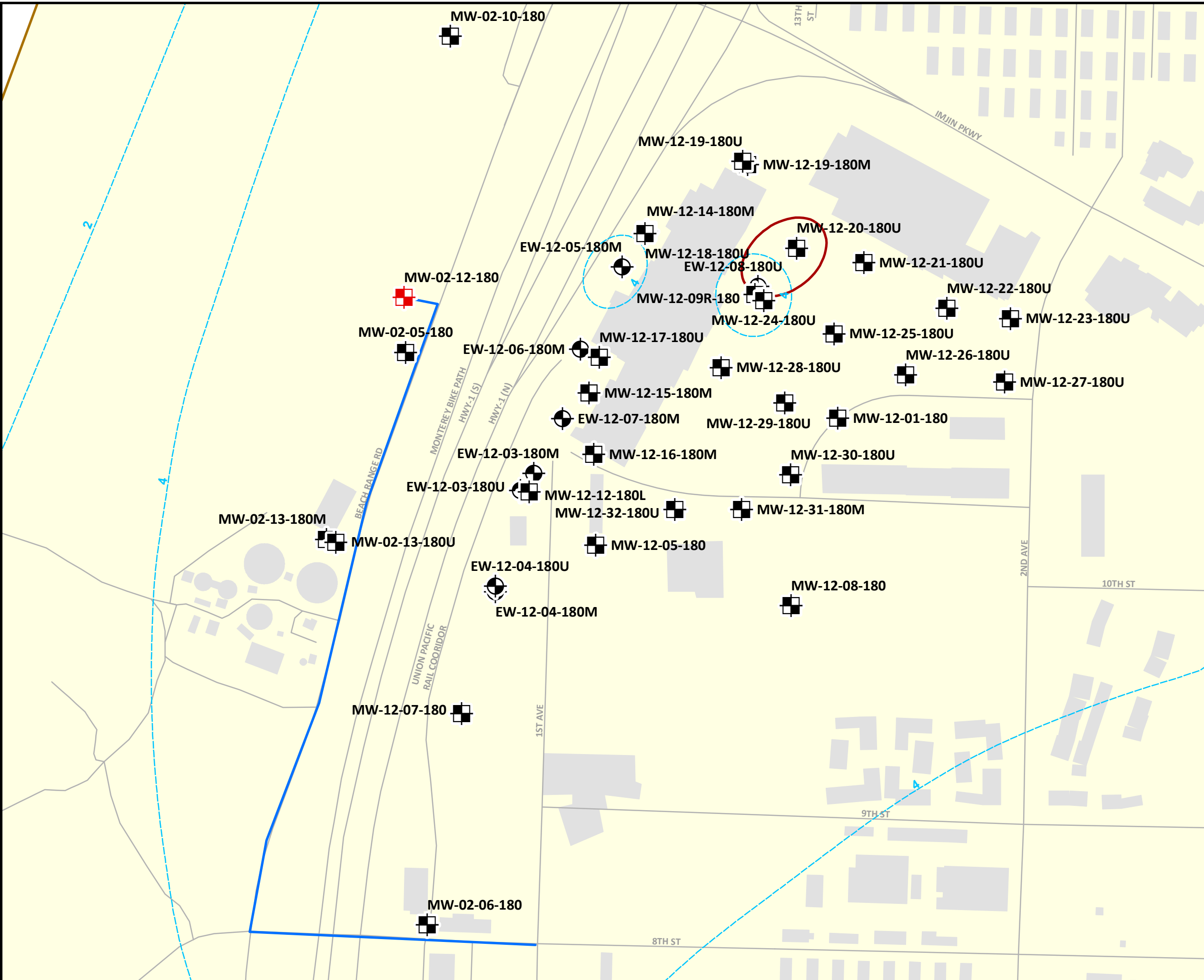
**Ahtna Biologist:**  **Date:** 08/15/2018

**Ahtna Field Supervisor:**  **Date:** 08/16/2018

**Army BRAC Biologist:** KOWALSKI.BARTHOLOMEW.L.1387978115 **Date:** \_\_\_\_\_

Digitally signed by KOWALSKI.BARTHOLOMEW.L.1387978115  
DN: cn=US, ou=US Government, ou=DoD, ou=PR,  
ou=CONTRACTOR, ou=KOWALSKI.BARTHOLOMEW.L.1387978115  
Date: 2018.08.17 10:13:12 -0700





**Legend**

- Roads
- Access Route
- PCE (5 ug/L) 2017-4Q
- Groundwater Elevation (ft MSL) 2017-4Q
- Former Fort Ord Boundary
- Buildings

**Sites 2/12 Well Type**

- ⊗ Extraction Well
- ⊠ Monitoring Well
- ⊠ Monitoring Well - To Decommission

0 125 250 500 Feet

N

**Sites 2/12 Monitoring Well Decommissioning Location**

Well Decommissioning Work Plan  
Former Fort Ord, California