N00217.000692
HUNTERS POINT
SSIC NO. 5090.3

Tetra Tech EM Inc.

135 Main Street, Suite 1800 ◆ San Francisco, CA 94105 ◆ (415) 543-4880 ◆ FAX (415) 543-5480

April 4, 2003

Mr. G. Patrick Brooks, R.G.
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division
1230 Columbia Street, Suite 1100
San Diego, CA 92101

Subject: **User Data Package 1 – Boring Logs and Well Construction Details**
Parcel C Treatability Study Support
Hunters Point Shipyard, San Francisco, California
Contract Number N68711-00-D-0005, Delivery Order 0013

Dear Mr. Brooks:

Between December 3 and 23, 2002, Tetra Tech EM Inc. (Tetra Tech) completed well drilling and construction activities for the Ferox^{sm} Injection Technology Demonstration at Parcel C, Remedial Unit C4, of Hunters Point Shipyard. This work was conducted under the above-referenced delivery order from the U.S. Department of the Navy (Navy), Naval Facilities Engineering Command, Southwest Division, under the Indefinite Quantity Contract for Architectural-Engineering Services to Provide CERCLA/RCRA/UST Studies (AECRU).

The technology demonstration project is being conducted in association with, and is partially funded by, the Navy's Alternative Restoration Technology Team, Naval Facilities Engineering Service Center (NFESC). This user data package letter report summarizes the results of field activities, which included the following:

- utility location
- borehole drilling
- monitoring well conversion
- land surveying
- monitoring well development

Each activity is discussed below. Enclosure 1 of this letter report provides copies of the boring and well construction logs, and Enclosure 2 provides copies of the monitoring well development data sheets.

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UTILITY LOCATION

Prior to the commencement of drilling activities, planned Ferox^{sm} injection borehole locations were screened for the presence of subsurface utilities. Precision Locating, a qualified subcontractor, cleared four locations (F1, F2, F3, and F4) for drilling on December 3, 2002.

BOREHOLE DRILLING

Precision Sampling, Inc. (Precision Sampling), a licensed subcontractor, drilled the four boreholes for the Ferox^{sm} injections on December 5 and 6, 2002. Each borehole was drilled using a 5-inch-diameter, solid-flight auger to approximately 35 feet below ground surface. A California registered geologist supervised the drilling activities and logged soil cuttings from the solid-flight augers. Enclosure 1 provides the boring logs.

MONITORING WELL CONVERSION

Following the Ferox^{sm} injections, Precision Sampling converted one borehole, F2, into a monitoring well, IR28MW362F, on December 18, 2002. The injection borehole was re-drilled using a 5-inch-diameter hollow-stem auger. The monitoring well was constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride and was screened from 10 to 20 feet below ground surface with No. 10 slot screens. A California registered geologist supervised the drilling and monitoring well installation activities. Enclosure 1 provides the well construction log.

LAND SURVEYING

Hunter Surveying, Inc, a land-surveying subcontractor, surveyed the four injection borehole locations (one of which was converted to a monitoring well) for horizontal and vertical coordinates on December 23, 2002. Locations were surveyed horizontally for northing and eastings in California State Plane Coordinates and vertically based on the National Geodetic Vertical Datum of 1929. Tetra Tech entered the survey data into the Hunters Point Shipyard database.

MONITORING WELL DEVELOPMENT

Precision Sampling developed two monitoring wells on December 23, 2002. IR28MW362F was developed following construction to remove fine-grained materials that may have been disturbed or introduced during the drilling process. An additional monitoring well, IR28MW360F, was redeveloped because zero-valent iron slurry was observed seeping from the borehole annulus of this well during the Ferox^{sm} injections. IR28MW360F was therefore developed to verify the

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integrity of the well and that future groundwater samples would be representative of groundwater in the formation. Enclosure 2 provides the monitoring well development data sheets.

If you have any questions or comments about this user data package, please contact me at (215) 656-8720 or Doug Bielskis at (415) 222-8242.

Sincerely,

John McCall, P.E.
Project Manager

Enclosures:
1. Boring and Well Construction Logs
2. Monitoring Well Development Data Sheets

cc: Mr. Keith Forman, Southwest Division
Mr. Dave DeMars, Southwest Division
Ms. Diane Silva (Admin. Record), Southwest Division
Mr. Doug Bielskis, Tetra Tech EM Inc.
AECRU File

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ENCLOSURE 1
BORING AND WELL CONSTRUCTION LOGS

Sheet 1 of 2

DO: Ø13

Bldg./Site: 272 - Parcel C

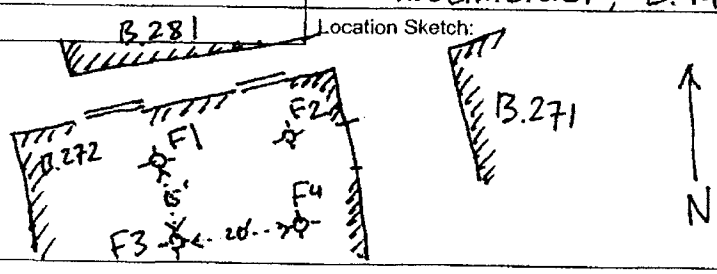
Project Name: 'Ferox'

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

Boring Number: F1	Date Started: 12/06/02
Drilling Method: (*Circle one*) HSA ~~Continuous Core~~/GeoProbe/Hand Auger	Date Completed: 12/06/02
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: V. Prilepin
Outer Diameter of Boring: 5"	Drilling Subcontractor: Clear Heart Drilling
Inner Diameter of Well Casing: 4.5	Driller: R. Schneider, D. Fiori
Depth to Water (ft./bgs.) ~32	Location Sketch:

Note: The logging is based on soil cuttings; solid auger rods were used in drilling



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
7:55						CONCRETE			
						Clayey SAND; brown 7.5 YR 4/16; dry to slightly moist; up to 50% of fines	SC		
	5								
						Color becomes darker brown 7.5YR 3/3 Clayey SAND to CLAY, very hard, low plasticity; with angular gravels; dry	SC/CL		
	10								
						(harder to drill) Clayey SAND with crushed bedrock?; angular gravels of chert(?) up to 1 inch in size to cobbles; dark brown 7.5 YR 2.5/1; with clay pieces.			
	15					(hard drilling) Clayey SAND with angular gravels (of chert?), crushed shale; with very hard clay of low cohesiveness; dark brown 7.5 YR 3/4			
	20								
						CLAY, darkbrown 7.5 YR 2.5/3, low plasticity, slightly moist; with occasional small gravels; color changes to darker brown 7.5 YR 2.5/1	CL		
	25								

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

F1 Continued

DO: 013
Bldg./Site: 272 - Parcel C
Project Name: 'Ferox'

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
~~8:35~~	~~25~~					CLAY, dark brown - 10YR 2/2 with 0.2" gravels, moderate to high plasticity, moderate cohesiveness; dry to slightly moist (driller reports bedrock)	CL		
	~~30~~				▽	CLAY, dark brown - 10YR 2/2, saturated; with 0.2" gravels; water encountered at approximately 32 ft bgs			
8:45	~~35~~					Depth of the boring - 35 ft Bgs			

Sheet 1 of 2

DO: Ø13

Bldg./Site: 272 - Parcel C

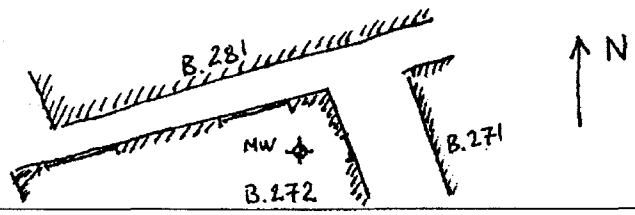
Project Name: 'Ferox'

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

Boring Number: 1R28MW362F	Date Started: 12/05/02
Drilling Method: (*Circle one*) HSA ~~Continuous Core~~/GeoProbe/Hand Auger	Date Completed: 12/18/02
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: V. Prilepin
Outer Diameter of Boring: 5"	Drilling Subcontractor: Clear Heart Drilling
Inner Diameter of Well Casing: 4.5"	Driller: R. Schneider, D. Fiori
Depth to Water (ft./bgs.) ~ 30 ft./bgs	Location Sketch:

Note: The logging is based on soil cuttings: solid auger rods were used in drilling



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
~~15:05~~						CONCRETE			
						CLAY with coarse sand; dark brown; high plasticity	CL	Portland cement with 5% bentonite	
	5					CLAY with fine gravels; dark brown 10YR 3/2; semi-wet, moderate plasticity, hard	CL	2 inch dia Sch 40 plastic PVC casing	
	10					SILTY CLAY with some fine gravels; almost dry; low plasticity; brown 10 YR 3/4	CL	0.25' Bentonite chips	
								2/16 Sand	
	15					(Drilling becomes harder) SILTY SAND, brown to light brown 10YR 3/3 DRY; SLIGHTLY COHESIVE	SC	2 inch dia. perforated PVC casing (0.010 screen slots)	
	20					(Drilling becomes real hard) SANDSTONE; WEATHERED; sand is fine with angular gravel 5mm in size; clayey pieces when squeezed; moisture appears to increase			
	25								

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

1R28 MW362F (continued)

DO: 013
Bldg./Site: 272 - Parcel C
Project Name: 'Ferox'

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
~~15:45~~	~~25~~					(hard drilling; "rocks & metal" sound) SILTY SAND with COBBLES OF WEATHERED BEDROCK (cherts, sandstone) to CLAY of MODERATE PLASTICITY	SC/CL		
	30					CLAYEY SILT AND CLAY, brown to light brown 2.5 YR 4/3; moderate to high plasticity; lean clay with occasional gravels or cobbles; color changes to lighter brown 2.5 YR 4/6; getting more moist	CL		
16:00	35					Terminated at 35 ft		Boring is completely sealed with heaving sands and grouting from 20 to 35 ft bgs	

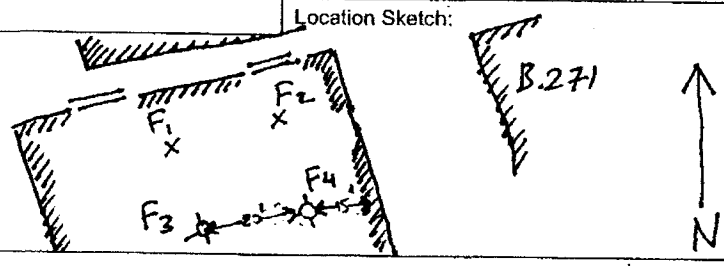
DO: Ø13
Bldg./Site: 272 - Parcel C
Project Name: 'Ferox'

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

Boring Number: F3	Date Started: 12/05/02
Drilling Method: (*Circle one*) HSA ~~Continuous Core~~/GeoProbe/Hand Auger	Date Completed: 12/05/02
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: V. Prilepin
Outer Diameter of Boring: 5"	Drilling Subcontractor: Clear Heart Drilling
Inner Diameter of Well Casing: 4.5	Driller: R. Schneider, D. Fiori
Depth to Water (ft./bgs.) ~31	Location Sketch:

Note: The logging is based on soil cuttings; solid auger rods were used in drilling



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
	12:05					Concrete			
						Silty SAND with occasional gravels, brown, 5YR 3/4; dry	SM/SC		
	5					Becomes darker in color, 5YR 2.5/2; dry			
	10					(Drilling becomes a lot harder) Silty SAND (weathered BEDROCK?) with occasional gravels	SC		
	15					Silty SAND/SANDY SILT with gravels of chert and sandstone (weathered BEDROCK?), very dark brown - 10YR 2/1; dry	SC/SM		
	20					(real hard drilling) SAME, a little more moist			
	25								

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

F3 continued

DO: 013
Bldg./Site: 272 - Parcel C
Project Name: 'Ferox'

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
~~12:30~~	~~25~~					(EASIER to drill) Sand silt to low plasticity CLAY, dark brown, hard with some gravels	CL		
	30					(very hard drilling); water encountered at ~31-32 ft below floor surface; Clay, moist, very dark brown; high plasticity; with small size gravels			
12:50	35					Bottom of the boring - 35 ft bgs			

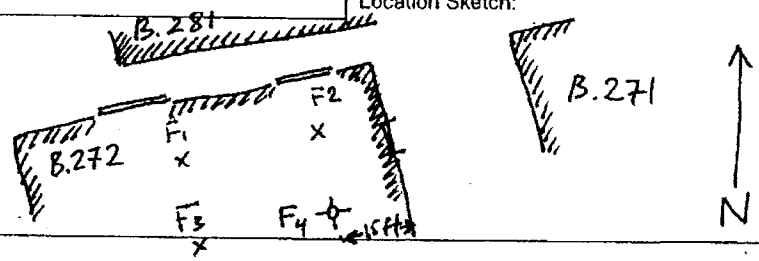
DO: Ø13
Bldg./Site: 272 - Parcel C
Project Name: 'Ferox'

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

Boring Number: F4	Date Started: 12/05/02
Drilling Method: (*Circle one*) HSA ~~Continuous Core~~/GeoProbe/Hand Auger	Date Completed: 12/05/02
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: V. Prilepin
Outer Diameter of Boring: 5"	Drilling Subcontractor: Clear Heart Drilling
Inner Diameter of Well Casing: 4.5	Driller: R. Schneider, D. Fiori
Depth to Water (ft./bgs.) ~ 30	Location Sketch:

Note: The logging is based on soil cuttings; solid auger rods were used in drilling



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
10:00						CONCRETE			
	5					Silty SAND, light brown, 5YR 4/4, with fines: 60% fine sand, 30% silt, 10% lean clay; dry	SM/SC		
	10					Color change to dark brown; pieces of chert of gravel size and cobbles			
	15					Silty SAND with clay, very dark brown 2.5YR 3/2; loose, poorly sorted, dry	SC		
	20					Color becomes darker (2.5YR 2.5/2); silty SAND with clay (weathered bedrock ?), loose, dry; with occasional gravels			
	25								

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

F4 CONTINUED

DO: 813
Bldg./Site: 272 - Parcel C
Project Name: 'Ferox'

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
10:30	25					Silty sand with clay and occasional fragments of sandstone, chert (deeply weathered bedrock?); very dark brown 2.5YR 2.5/1; dry	SC		
	30					▽ Water encountered at approximately 30-31 ft bgs			
	35					Bottom of the boring - 35 ft bgs			

TETRATECH EM INC

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
DATE 12/05/02 TIME 15:05
WELL INSTALLATION BEGAN:
DATE 12/18/02 TIME 8:15
WELL COMPLETION FINISHED:
DATE 12/18/02 TIME 11:30
DRILLING CO. PRECISION
DRILLER M. GARDNER
LICENSE
DRILL RIG

DRILLING METHOD:
■ HOLLOW STEM AUGER
☐ AIR ROTARY
☐

DIAMETER OF AUGERS:
ID 4" OD 4.25"

BENTONITE SEAL

AMOUNT CALCULATED
AMOUNT USED
☐ PELLETS, SIZE
■ CHIPS, SIZE 0.25"
☐
PRODUCT
MFG. BY
METHOD INSTALLED:
☐ POURED ☐ TREMIE
AMOUNT OF WATER USED

FILTER PACK

AMOUNT CALCULATED
AMOUNT USED 75 lbs
■ SAND, SIZE 2/16
☐ FORMATION COLLAPSE:
FROM TO
PRODUCT
MFG. BY
METHOD INSTALLED:
☐ POURED ■ TREMIE

SURVEY INFORMATION

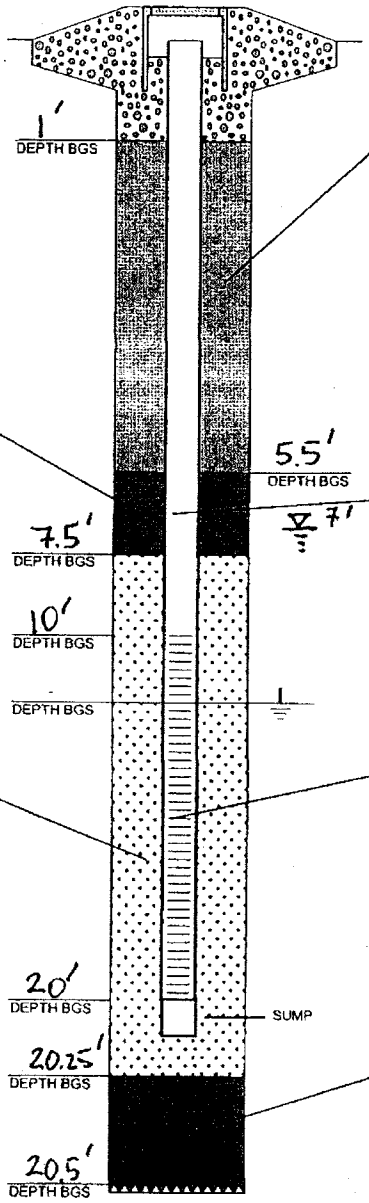
TOC ELEVATION
GROUND ELEVATION
NORTHING CORD.
EASTING CORD.
DATE SURVEYED
SURVEY CO.

CENTRALIZERS USED?

☐ YES ☐ NO;
CENTRALIZER DEPTHS: _____, _____

SURFACE COMPLETION

■ FLUSH MOUNT
☐ ABOVE GROUND W/BUMPER POST
■ CONCRETE ☐ ASPHALT



Boring sealed with heavy sands and grout from 20.5 to 35 ft bgs

MONITORING WELL

MONITORING WELL NO. 1R28MW362F
PROJECT DO 013 'FEROX'
SITE Building 272
BOREHOLE NO. F2
WELL PERMIT NO.
TOC TO BOTTOM OF WELL

ANNULAR SEAL

AMOUNT CALCULATED
AMOUNT USED
■ GROUT FORMULA
PORTLAND CEMENT 95%
BENTONITE 5%
WATER
☐ PREPARED MIX
PRODUCT
MFG. BY
METHOD INSTALLED:
■ POURED ☐ TREMIE

CASING

■ SCHEDULE 40 PVC
☐
PRODUCT
MFG. BY
CASING DIAMETER:
ID 2" OD 2.25"
LENGTH OF CASING

WELL SCREEN

■ SCHEDULE 40 PVC
☐
PRODUCT
MFG. BY
CASING DIAMETER:
ID 2" OD 2.25"
SLOT SIZE 0.010
LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED
AMOUNT USED
■ BENTONITE CHIPS, SIZE 0.25"
☐ BENTONITE PELLETS, SIZE
☐ SLURRY
☐ FORMATION COLLAPSE
PRODUCT
MFG. BY
METHOD INSTALLED:
☐ POURED ■ TREMIE

ENCLOSURE 2
MONITORING WELL DEVELOPMENT DATA SHEETS

Sheet 1 of 1

WELL DEVELOPMENT DATA SHEET

BORING NO. IR-28 WELL NO. 362F

Project: Hunters Point Bldg 272
Project No.: D.O. -13
Date(s) of Installation:
Date(s) of Development: 12 / 23 / 02
Personnel/Company: Mike Cramer - Precision
Type of Rig Used: Bobcat mounted boom + winch

Casing Diameter/Type: 2 inch
Borehole Diameter: 4 inch
Screened Interval(s): 10.0' BGS - 16.58 BGS
Total Length of Well Casing: 20.0'
Measured Total Depth (TOC): Initial 16.58 Final 16.89
Initial Depth to Water (TOC): 5.95 Date: 12/23/02 Time: 08:00
Stabilized Depth to Water (TOC): NA Date: — Time: —

DEVELOPMENT TECHNIQUE(S) / **EQUIPMENT TYPE/CAPACITY**

- ✓ Surging — Valved surge-block
- ___ Overpumping
- ___ Air Lift Pumping
- ___ Backwashing
- ✓ Bailing — S.S. bailer off bottom
- ___ Well Jetting

PURGE VOLUME CALCULATION

Casing Volume: 10.63 Ft. of water
x 0.163 Gallons/Foot
= 1.733 Gallons per Single Casing Volume
Sand Pack Volume: 10.63 Ft. of Saturated Sand Pack
x 0.653 Gallons/Foot (borehole diameter)
= 6.941 Gallons (in borehole)
- 1.733 Gallons of Casing Volume
= 5.208 x 0.3 (Assuming porosity = 30%)
= 1.563 Gallons Within Sand Pack
Single Purge Volume: 3.296 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 3.296 Gallons
Actual Purge Volume: 110 Gallons
Volume Measured by: slope indicator Measurement
Rate of Development: 2.5 Gallons/Minute (Hour/Day)
Pumping Rate/Depth: Bottom @ ___ Ft. (Below Grd.)
Immiscible Phases Present: Y (N) Thickness:

FLUIDS ADDED NA

Lost Drilling Fluid: NA Gallons
Lost Purge Water: NA Gallons
Water During Installation: NA Gallons
Total Fluids Added: NA Gallons
Source of Added Water: NA
Sample Collected of Added Water: Y N NA
Sample Designation of Added Water: NA

Development Criteria: Below 10 NTU Turbidity

Total Volume Discharged (gal.)	Rate of Discharge	Time	Temp	pH	Specific Conductance µS	Turbidity (NTU)	(O.D.), Clarity, Odor, PID Readings, Other:
1		08:30	14.8	8.39	.495	270	9.25 color Dark grey
20		09:00	15.4	8.03	.393	600	8.62
35		09:30	15.9	7.87	.434	999	8.48
50		11:30	15.6	7.68	.585	43	8.97
70		12:00	16.0	7.62	.578	999	9.07
90		12:30	15.8	7.62	.601	999	9.04
110		12:50	15.9	7.69	.523	999	8.95

Development Completed at: 110 Gallons Discharged. Date: 12/23/02 Time: 13:00

Personnel: Greg Mason Mike Cramer 2 drum in IDW

Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

WELL DEVELOPMENT DATA SHEET

BORING NO. JR-28 WELL NO. 359 F

Project: Hunters Point Bldg 272
Project No. DO-13
Date(s) of Installation 11/22/02
Date(s) of Development 12/23/02
Personnel/Company: Greg Mason - TTEMI
Mike Cramer - Precision
Type of Rig Used: Bobcat mounted Boom + winch

Casing Diameter/Type: 4 inch diam
Borehole Diameter: 11 inches
Screened Interval(s): 10.6' BGS - 20.5' BGS
Total Length of Well Casing: 20.5'
Measured Total Depth (TOC): Initial 19' 6" Final 20.4
Initial Depth to Water (TOC) 5.60 Date 12/23/02 Time 13:10
Stabilized Depth to Water (TOC) NA Date — Time —

DEVELOPMENT TECHNIQUE(S) / EQUIPMENT TYPE/CAPACITY

- ✓ Surging: Valved surge-block
- Overpumping
- Air Lift Pumping
- Backwashing
- ✓ Bailing: S.S. bailer off bottom
- Well Jetting

FLUIDS ADDED NA

Lost Drilling Fluid: NA Gallons
Lost Purge Water: NA Gallons
Water During Installation: NA Gallons
Total Fluids Added: NA Gallons
Source of Added Water: NA
Sample Collected of Added Water: Y (N)
Sample Designation of Added Water: NA

PURGE VOLUME CALCULATION

Casing Volume: 14 Ft. of water
x 0.653 Gallons/Foot
= 9.142 Gallons per Single Casing Volume
Sand Pack Volume: 14 Ft. of Saturated Sand Pack
x 4.937 Gallons/Foot (borehole diameter)
= 69.118 Gallons (in borehole)
- 9.142 Gallons of Casing Volume
= 7.913 x 0.3 (Assuming porosity = 30%)
= 17.993 Gallons Within Sand Pack
Single Purge Volume: 27.135 Gallons (Casing Vol. + Sand Pack Vol. - Fluids Added)
Minimum Purge Volume: 27.135 Gallons
Actual Purge Volume: 20.0 Gallons
Volume Measured by: Slope indicator measurem
Rate of Development: 1.6 Gallons/Minute (Hour/Day)
Pumping Rate/Depth: BOTTOM @ ___ Ft. (Below Grd.)
Immiscible Phases Present: Y (N) Thickness

Development Criteria: Below 10 NTU Turbidity

Total Volume Discharged (gal)	Rate of Discharge	Time	Temp °C	pH	Specific Conductance µS	Turbidity (NTU)	D.O., Clarity, Color, PID Readings, Other: color
1		13:15	15.4	7.03	.715	6	9.09 Light Brown
4		13:30	15.4	7.12	.727	999	9.12
8		13:45	15.4	7.12	.725	38	9.10
12		14:00	15.6	7.11	.689	999	9.11
16		14:15	15.6	6.93	.708	345	9.00
20		14:30	15.6	6.92	.703	999	9.30
							WENT DRY

Development Completed at 14:55 20 Gallons Discharged Date: 12/23/02 Time: 14:55

Personnel: Greg Mason + Mike Cramer 1 drum in IDW

Specific Conductance readings temperature compensated to 25°C, if not, report temperature at which reading obtained.

TETRA TECH EM INC.

TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N68711-00-D-0005 Document Control No. DS.A013.10171

TO: Mr. Ron Fuller, Code 02R1.RF
Contracting Officer
Naval Facilities Engineering Command
Southwest Division
1230 Columbia Street, Suite 1100
San Diego, CA 92101-8517

DATE: 4/7/03
DO: 013
LOCATION:
Hunters Point Shipyard, San Francisco
California

FROM:

Michael Wanta, Contract Manager

DOCUMENT TITLE AND DATE:

User Data Package 1 – Boring Logs and Well Construction Details, Parcel C Treatability Study Support, April 4, 2003

TYPE: ☐ Contractual Deliverable ☒ Technical Deliverable (DS) ☐ Other (TC)

VERSION: _____ (e.g., Draft, Draft Final, Final) REVISION #: Rev # or NA

ADMIN RECORD: Yes ☒ No ☐ CATEGORY: Confidential ☐

SCHEDULED DELIVERY DATE: 4/4/03 ACTUAL DELIVERY DATE: 4/7/03

NUMBER OF COPIES SUBMITTED TO NAVY: O/3C/4E

O = original transmittal form
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rev 07/22/02