



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090
Ser RAE30.TM/086
19 Mar 10

Ms. Cheryl Prowell
California Environmental Protection Agency
California Regional Water Quality Control Board
Mitigation & Cleanup Unit
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

Mr. Tayseer Mahmoud
California Environmental Protection Agency
Department of Toxic Substances Control
Office of Military Facilities
5796 Corporate Avenue
Cypress, CA 90630

Mr. Martin Hausladen
U. S. Environmental Protection Agency
Region IX, Code SFD-8-B
75 Hawthorne Street
San Francisco, CA 94105-3901

Subj: MEETING MINUTES FOR THE 99th FEDERAL FACILITIES
AGREEMENT (FFA) MEETING DATED FEBRUARY 18th, 2010, MARINE
CORPS BASE CAMP PENDLETON

Dear Ms. Prowell, Mr. Mahmoud, Mr. Hausladen:

Enclosed are the minutes to the Marine Corps Base, Camp Pendleton Federal Facilities Agreement (FFA) meeting, Number 99, held on February 18th, 2010. Should you have questions, please call me at (619) 532-1502.

Sincerely,

A handwritten signature in cursive script that reads "Theresa Morley".

THERESA MORLEY
By direction

5090
Ser RAE30.TM/086
19 Mar 10

- Enclosures: (1) 99th FFA Meeting Minutes
(2) 99th FFA Meeting Agenda
(3) Sign in Sheet
(4) Deliverables/Fieldwork Spreadsheets
(5) Design Review for Regulatory Agencies - Box
Canyon PV System
(6) 22/23 Area Groundwater RI/FS Preview
(7) Site 1D Update

Copy to: CG, MCB Camp Pendleton (Attn: ACOS, Environmental
Security - Mr. Joe Murtaugh)

PROJECT NOTE NO. 48

SUBJECT: Marine Corps Base (MCB) Camp Pendleton Federal Facilities Agreement (FFA) Meeting (No. 99)
DATE HELD: 18 February 2010

Attendees:

Onsite: Theresa Morley (Naval Facilities Engineering Command, Southwest [NAVFAC SW]), Tracy Sahagun (MCB Camp Pendleton), Derral Van Winkle (NAVFAC SW), Joseph Murtaugh (MCB Camp Pendleton), Cheryl Prowell (San Diego Regional Water Quality Control Board [RWQCB or Water Board]), Bill Mabey (Tech Law), Tayseer Mahmoud (California [Cal] EPA/Department of Toxic Substances Control [DTSC]), Kimberly Day (DTSC), Steve Griswold (Parsons).

By teleconference: Martin Hausladen (United States Environmental Protection Agency [USEPA or EPA]), Kelly Dorsey (San Diego RWQCB).

Onsite for the PV Design Review Presentation: Tom Kelly (Engineering Partners), Jerry Zapata (Synergy Electric), Domenic Lupo (AECOM), Annika Moman (AECOM), Ram Ramanujam (DTSC), Simon Kroon (Resident Officer in Charge of Construction [ROICC]), Charles Howell (FMD Energy), Jaime Rabacal (ROICC), Bernadette Rose (ROICC).

Introduction

A one-day meeting was held at MCB Camp Pendleton Environmental Security Office, and also at various sites on the Base. Refer to attached sign-in sheet and agenda. Following introductions, Ms. Morley asked Ms. Moman to proceed with the presentation on the photovoltaic (PV) Panel Design for the benefit of those present only for that issue.

Preliminary PV Panel Design

Ms. Moman of AECOM presented an overview of the preliminary design for the PV project that is planned for installation at the former Box Canyon landfill (see attached slides). The project team for the PV System includes Synergy Electric, Engineering Partners, and AECOM. Construction is currently scheduled to start by June 29 at the latest, and must be completed by December 17.

The PV system is designed to not penetrate the current landfill cap, and the civil design is in accordance with the allowable limits set forth in the CH2MHill report. The various structural, civil, and geotechnical design aspects were covered in the presentation. There were several questions about runoff from the panels and the vegetation that will be on the landfill cover. The runoff has been calculated to be fairly minimal and the vegetation will be in accordance with the design approved by the NAVFAC biologist. There will be no construction of new access roads, but the existing access roads will remain in place.

Ms. Morley noted that the Explanation of Significant Differences (ESD), which will be completed soon, does not change the remedy for the Installation Restoration (IR) site, but only the land use. Discussion focused on whether the design will be available for the FFA Team to review. Ms. Morley noted that the design is not subject to FFA review, but that overall design information can be included as an attachment to the ESD. Ms. Prowell requested that the hydrology calculations and the planned vegetation design be included in the ESD attachment.

Some meeting attendees left after the PV design presentation, as noted above in the attendees list.

Deliverables Status

Ms. Morley discussed the deliverable spreadsheet (see attached). The status of each document is shown on the spreadsheet. Those marked as final will be dropped from the next version of the spreadsheet.

- Regarding Item 1, the 26 Area site was found to be clean, and additional sampling is needed in the 52 Area site in order to determine status. This site did not have enough water to collect a sample.
- For the third item, the Remedial Action Closure Report for OU 4 Site 30 (Firing Range Soil), a decision needs to be made whether the large trees should be torn out from the southern edge of the site in order to remove the last significant detections of lead in site soils. The site will be visited later this day to help make a determination (see the Site Visits discussion below).
- Item 5 needs finalization from Navy Quality Control (QC) before being submitted to the agencies.
- For Item 6, very little water was present, but the data is starting to come in and some sites are showing contamination.
- Item 11, the Proposed Plan/Record of Decision (ROD) Amendment for Site 1D, was rescinded because of the need to discuss the path forward for the site. Refer to the discussion below under Status Update for Site 1D.

- Item 14 is going out a week from tomorrow to Tim Chauvel, the DTSC Public Participation specialist. Other agencies can comment if necessary, but the Department of the Navy (DON) is primarily looking for comments from Tim, given the nature of the document.
- For Item 15, over excavation was conducted once, but the contractor will be going out again to remove remaining contamination when the weather allows.
- Fieldwork status was also described as shown on the attached spreadsheet.

Status Update for Site 1D

Mr. Griswold and Ms. Morley summarized the groundwater cleanup activities that have been carried out to date at Site 1D (refer to attached slides). Following soil removal, localized groundwater contamination was found in at Grid G9. Groundwater removal has been carried out since September 2009, and the extracted groundwater is being treated onsite before being discharged in accordance with Base discharge requirements.

Solvents, metals, and pesticides have been detected above maximum contaminant levels (MCLs). Based on sampling results to date, contaminant concentrations have been generally decreasing, but the latest results are not yet available for review.

Discussion focused on the path forward for the groundwater issue at the site. Ms. Morley asked if a Remedial Investigation/ Feasibility Study (RI/FS) Addendum is needed, or if some other document would be appropriate. Mr. Hausladen said that, from his perspective, an RI/FS Addendum would be needed. Dr. Mabey added that a focused FS could be used to whittle down the alternatives to the couple that we think will actually work. Mr. Van Winkle said that the RI amendment could include all the new data. Dr. Mabey added that it may be necessary to know the mass in soil, and that maybe removal of more soil would be beneficial.

Regarding arsenic in groundwater, there was discussion about the possibility of solvents causing mobilization of metals in groundwater, and that it may be helpful to collect an upgradient samples from an unimpacted area. Mr. Van Winkle suggested that a data gap analysis would be a good next step, and Dr. Mabey asked what the timeline is for the steps going forward.

Ms. Prowell said that the current planned groundwater pumping should be done by July, so the data could be presented after that. Mr. Hausladen asked that a short 1-page outline be prepared with the game plan going forward.

22/23 Area Groundwater RI/FS Report

Mr. Griswold provided a summary of what to look for in the upcoming RI/FS Report for the 22/23 Area groundwater. The document is in pre-draft stage and undergoing Navy review, so certain aspects may change, but some of the main findings include:

- The chemicals of concern (COCs) in groundwater are trichloroethene (TCE), cis-1,2-dichloroethene (DCE), 1,1-DCE, 1,4-dioxane, 1,2,3-trichloropropane (TCP), and vinyl chloride.
- The presence of cis-1,2-DCE and vinyl chloride indicate reductive dechlorination is occurring in some areas; however, groundwater contamination is likely to remain above MCLs for several more decades if left untreated.
- Based on vapor intrusion modeling of soil gas concentrations, there is no significant risk to indoor air receptors from soil gas contaminants in the 22 Area.
- 1,2,3-TCP has been detected in Well 2202 and also in Base Wells 330923, 330925, and 33924 (cross gradient from the site), and agricultural well 2200 (down gradient from the site)
- 1,2,3-TCP has also been detected in Base well 26016 (about a mile upgradient of the site).

The alternatives that were found to be viable and for which rough cost estimates are being prepared are:

- No Action.
- Land Use Controls and Long Term Monitoring.
- Source Area Treatment via In Situ Technologies (zero-valent iron [ZVI] and carbon injection).
- Ex Situ Wellhead Treatment at Well 2202 (via carbon adsorption).
- Alternate Water Supply by Installing New Base Well or Wells.

Ms. Morley noted that field testing is planned using zero valent zinc (ZVZ) for the treatment of contaminated groundwater at Camp Pendleton, and that she will keep the team posted regarding the upcoming testing. If this new technology is found to be effective, then ZVZ may be considered in lieu of ZVI.

Site 1119 26 Area Groundwater Status

Ms. Morley said that a contract has been recently awarded that will address the observed contamination found in 26 Area groundwater (Base well 26016 and test well 26018).

Meeting Wrap-up and Schedule for Next Meeting

The next FFA Meeting is scheduled to be held in San Francisco, CA on May 20, 2010. The initial portion of the meeting was adjourned, but was followed by site visits, which were attended by members of the FFA Team listed on the above attendees list.

Site Visits

Various project sites were visited by members of the FFA Team in order to see the conditions of the sites, the proximity to potential receptors, and the progress of

activities. In the case of Site 30, it was decided that it was not necessary to remove the grove of tall trees along the Santa Margarita River in order to remove a parcel of soil with lead contamination; that is, the removal of the critical habitat would be more destructive than the benefit gained by the removal of a relatively small parcel of soils with some lead detections above background concentrations. The sites visited were:

- Site 1H
- Site 62
- Site 33
- Site 1114
- Site 30
- Site 1D
- Site 7
- 22/23 Area
- Site 21
- Site 1115

**99th FFA Meeting Agenda
Environmental Security Conference Room
Bldg. 22165
Marine Corps Base Camp Pendleton**

February 18th, 2010

- | | |
|--------------------|---|
| 0900 – 0905 | Welcome and Introductions |
| 0905 – 0915 | Project Deliverables Status |
| 0915 – 1000 | Presentation on Preliminary PV Panel Design |
| 1000 – 1030 | Status Update on Site 1D
Site 33 – Review of Significant Changes Due to Comments
What to Look for When Reviewing 22/23 Area RI/FS
Site 1119 26 Area Groundwater Status |
| 1030 - 1200 | Site Visits |
| 1200 – 1245 | Lunch |
| 1245 – 1500 | Site Visits (continued) |
| 1500 – 1530 | Meeting Conclusion / Action Items |

Feb 18, 2010

FFA Meeting

NAME

TITLE / ORG

E-mail

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Water Board

if conference call attendees

MCB Camp Pendleton Deliverables Spreadsheet

Date: 2/18/10

Item	Document	Contractor	Status	Date Due	Agency Comments	Response Received From:		
				to Agencies	Due By	EPA	DTSC	RWQCB
1	Site Inspection for Site 1118 (21/26/52 Area Groundwater) - CERCLA USTs in 21/26/52 Area	SeaAlaska	FINAL	6/18/09	8/10/09	X	X	X
2	Remedial Action Closure Report for OU5 Site 1A-1 - Burn Ash Site	Battelle	FINAL	8/3/09	10/1/09	X	X	X
	Remedial Action Closure Report for OU4 Site 30 - Firing Range Soil	Battelle	Overexcavation required	9/22/09	11/23/09	X	X	X
5	Remedial Investigation for Site 1114 - 41 Area Arroyo Site	Shaw/Trevet	Finalizing	10/19/09	12/18/09	X	X	X
6	Site Inspection for Site 1116 - CERCLA USTs in 14 Area	Shaw/Trevet	Finalizing	9/11/09	1/11/10	X	X	X
7	Engineering Evaluation/Cost Analysis for Site 33 - Armory Site	SDV/Battelle	Responding to Agency Comments	9/12/09	1/12/10	X	X	X
8	Non Time Critical Removal Action Memorandum Site 33 - Armory Site	Battelle	Responding to Agency Comments	9/12/09	1/12/10	X	X	X
9	Site 7 (Box Canyon) Annual Groundwater Monitoring Report	Trevet	With agencies	12/7/09	2/5/10	NC	X	X
10	Phase II Extraction Report for Site 7 (Box Canyon) LFG	TetraTech	With agencies	12/21/09	2/18/10			
11	Proposed Plan/ROD Amendment for Site 1D - Burn Ash Site	SDV/Parsons	Document being rescinded					
12	SAP for Groundwater Monitoring at 12 Area Site 13	SDV	With agencies	2/5/10	4/6/10			
13	Site Inspection Report for Site 62 (PCB Site in 62 Area)	SeaAlaska	Navy comments provided	Jan/Feb				
14	Community Involvement Plan Update	SDV/Barrett	Navy comments provided	2/26/10	4/27/10			
15	Remedial Action Closure Report for OU5 Site 1H - Burn Ash Site	SDV	Overexcavation in progress					
16	ESD for Site 7 (Box Canyon) Photovoltaic Panel Project	SDV	Design due in Jan/Feb	after design				
17	RI/FS for 22/23 Area Groundwater	SDV/Parsons	Preparing pre-draft	Feb				
18	Remedial Action Closure Report for OU3 Site 1A - Burn Ash Site	Battelle	Calculating risk					
19	Remedial Action Closure Report for OU4 Site 1D - Burn Ash Site	SDV	Waiting for groundwater treatment					
20	NTCRA Work Plan for Site 33 - Armory Site	Battelle	Once EE/CA & AM are final					

Agencies have commented

MCB Camp Pendleton Fieldwork Spreadsheet

Date: 2/18/10

Item	Field Work	Planned Start Date	Planned Completion Date
1	Groundwater at Site 1D - Burn Ash Site	In progress	
2	Site 1115 - FSSG Lot	January 19th	Complete
3	Site 62 - 62 Area PCB Site	August 5th	Complete
4	Site 21 - Oxidation Pond	Pilot Study Complete	1st GW Sampling in March
5	Site 1117 - CERCLA USTs in 15/16 Area	September 8th	Waiting for water in wells - May
6	Site 1118 - CERCLA USTs in 21/26/52 Area	November 30th ish	1st Phase Complete - second round at 52 Area in May
7	Site 1116 - CERCLA USTs in 14 Area	early February	Complete
8	Site 1114 - 41 Area Arroyo (PCE in well)	Started last week, drill rig stuck	Will resume once site is dry



Design Review for Regulatory Agencies

Box Canyon PV System, MCB Camp Pendleton

February 18, 2010

Agenda

- Project Team
- Project Description
- Design Considerations
- Project Design Components
- Construction
- Questions



Project Team



- Prime Contractor
- Installing Contractor
- O&M Contractor (5yrs)



- AC Electrical Design
- Reviewing Engineer



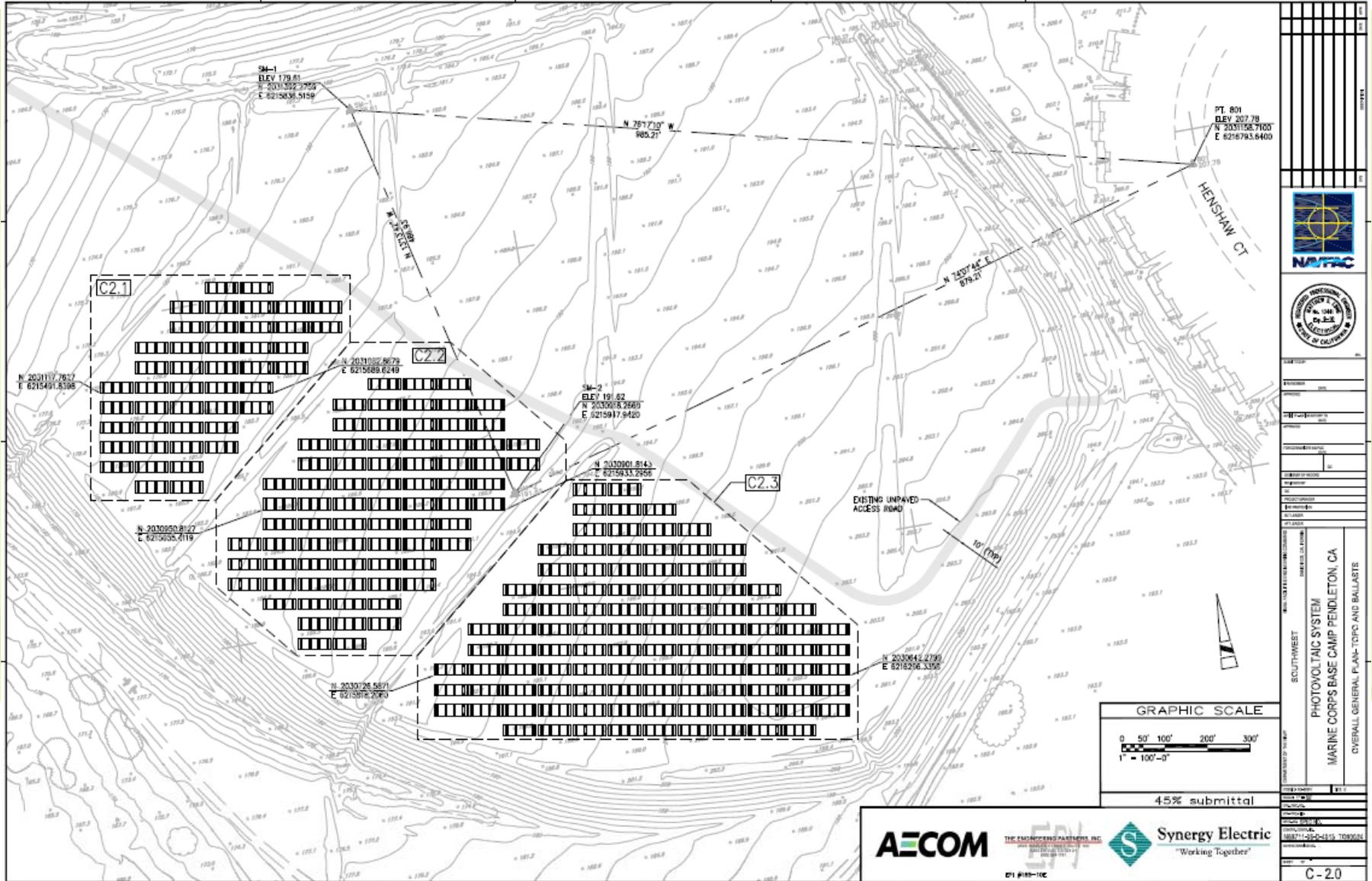
- DC Electrical Design
- Civil and Structural Design
- Geotechnical Design

Project Description



- 1.48 MW (DC)
- Fixed 15° tilt, 190° orientation
- Modular design for flexibility
- Self ballasted, non-penetrating system
- Gravel interface between ballasts and cover
- Adjustable system structure components
- Spacing between modules
- No excavation of ET cover

Overall General Plan



DATE:	01/11/2011
PROJECT:	PHOTOVOLTAIC SYSTEM
LOCATION:	MARINE CORPS BASE CAMP PENDLETON, CA
DESCRIPTION:	OVERALL GENERAL PLAN-TOPO AND BALLASTS
SCALE:	45% submittal
DESIGNED BY:	SP1
CHECKED BY:	SP1
APPROVED BY:	SP1
DATE:	01/11/2011
PROJECT NO.:	100071-20-00-1000
PROJECT NAME:	PHOTOVOLTAIC SYSTEM
PROJECT LOCATION:	MARINE CORPS BASE CAMP PENDLETON, CA
PROJECT DESCRIPTION:	OVERALL GENERAL PLAN-TOPO AND BALLASTS
SCALE:	45% submittal
DATE:	01/11/2011

AECOM THE ENGINEERING PARTNERS, INC. Synergy Electric
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Design Considerations



- Settlement
- Bearing Capacity
- Stability
- Displacement
- Erosion/Soil Loss
- Drainage Control
- Infiltration
- Site Access
- Landfill Gas Control System (*not affected by design*)

Project Design - Geotechnical



- Settlement
 - *Two components: settlement from the footings and settlement of the decomposing waste*
 - *Settlement will be controlled by the decomposing waste*
 - *Short term settlement of cover : $\frac{1}{2}$ to 1 inch due to solar array*
 - *Long term settlement of the waste: 18 to 24 inches*
 - *Differential settlement between supports will be much less than this total waste settlement amount.*
 - *Calculations generally agree with the CH2MHill estimates*
- Total settlement to date (2003-2008): 6-12 inches

Project Design - Geotechnical



- Bearing Capacity
 - *Solar loads distributed by precast ballast*
 - *18 inch wide ballast: allowable bearing capacity is 800 psf (SF =3)*
 - *24 inch wide ballast: allowable bearing capacity is 900 psf (SF=3)*
 - *Solar load will be less than 500psf*
 - *CH2MHill previously analyzed a 36 inch wide footing - higher allowable bearing capacity*
 - *Soil properties based on description of ET cover in CH2MHill report*

Project Design - Structural



- Stability - Wind Loading
 - *Exposure Class C – Open area, with scattered obstructions under 30 feet tall*
- Stability – Seismic Loading
 - *Gravel interface between ballast and cover provides friction (assumes vegetation is cleared under the gravel)*
 - *Sliding Safety Factor = 2.0*
 - *Overturning Safety Factor = 7.9*
- Displacement
 - *Landfill slope very slight – low sliding force*
 - *Ballast sized for wind load (greatest load)*

Project Design - Civil



- Erosion/Soil Loss
 - *Max Allowable per CH2MHill report: 2 tons/acre/year*
 - *Calculated in CH2MHill report: 0.52 tons/acre/year*
 - *Calculated for Final Design: 0.52 tons/acre/year*
- Runoff/Drainage Control
 - *Max Allowable per CH2MHill report : 11 cfs*
 - *Calculated in CH2MHill Report: 10.9 cfs max*
 - *Calculated for Final Design: 5.4 cfs max*
- Panel Drip Line Runoff
 - *Calculated in CH2MHill Report: 0.0006 cfs/foot*
 - *Calculated for Final Design: 0.0003 cfs/foot*
- Conclusions
 - *Final design impact is within limits identified in the CH2MHill Report*

Project Design - Civil

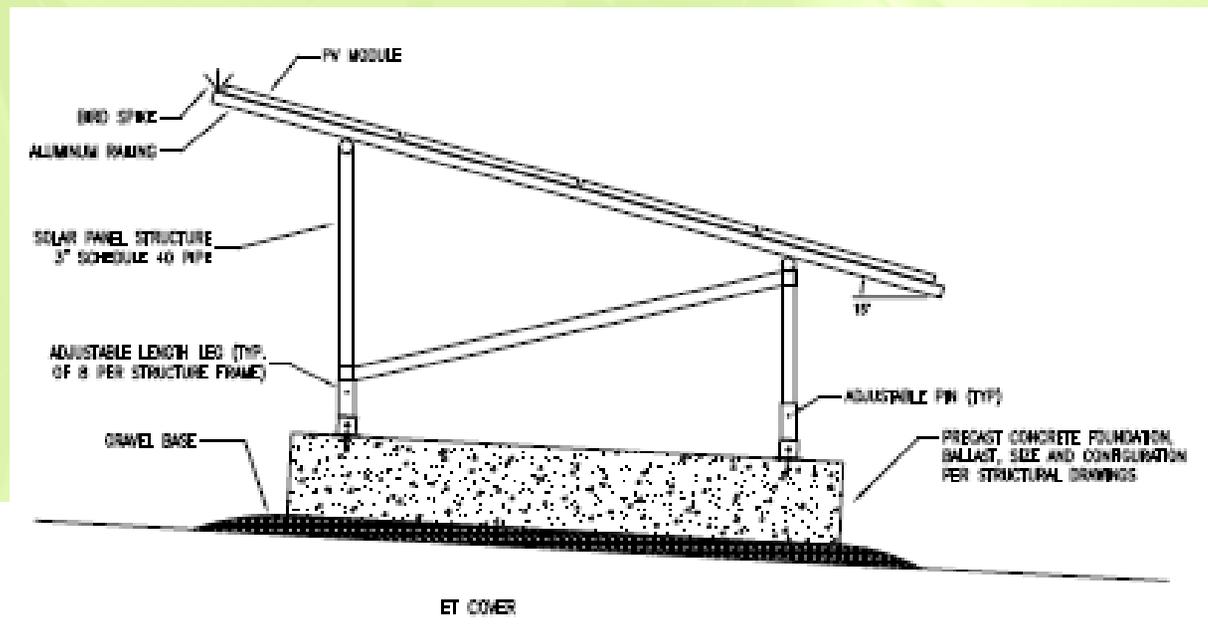


- Infiltration

- *Approved vegetation list provided by NAVFAC SW biologist*
- *Low growth, shade tolerant, vegetation specified for array area*
- *“Hearty” vegetation specified in between rows*
- *Minimized disturbance of vegetation during construction*

- Site Access

- *Existing improved surfaces will remain*
- *No additional improvements needed*



Construction



- Construction Start: NLT June 29th
- Key issues during construction:
 - Minimize disturbance of cover
 - Do not exceed cover bearing capacity
- Construction Methods
 - Setting of ballasts
 - Surface mounted conduits
 - Grounding

QUESTIONS?

THANK YOU



Synergy Electric
"Working Together"

THE ENGINEERING PARTNERS, INC.

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MCB CAMP PENDLETON 22/23 AREA GROUNDWATER

RI/FS Preview

18 February 2010

99th FFA Meeting



22/23 AREA GROUNDWATER

Draft 22/23 Area RI/FS Summary

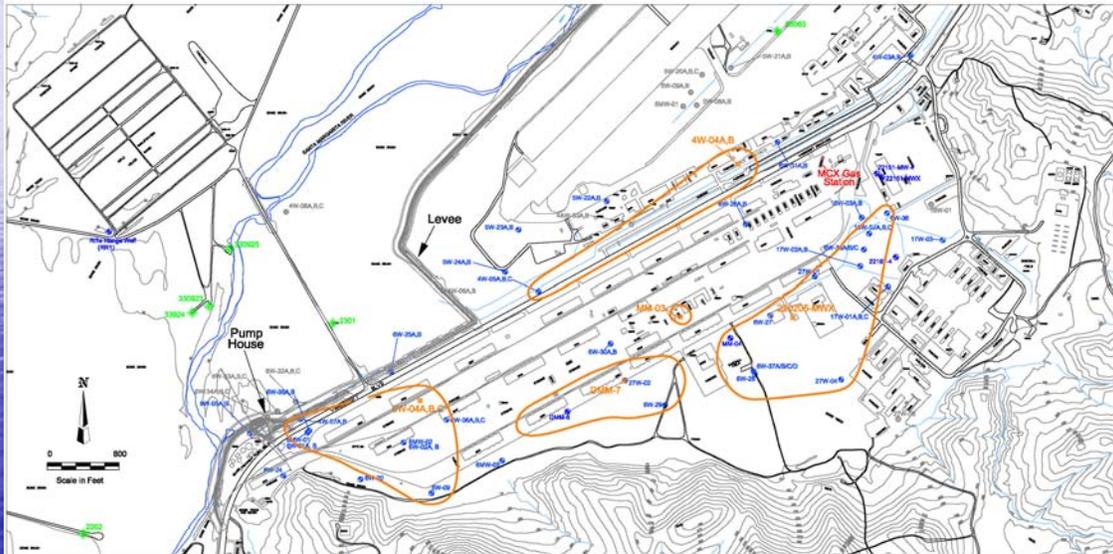
- ❖ COCs: TCE, cis-1,2-DCE, 1,1-DCE, 1,4-dioxane, 1,2,3-TCP, and vinyl chloride.
- ❖ Presence of cis-1,2-DCE and vinyl chloride indicate reductive dechlorination is occurring in some areas.
- ❖ However, groundwater contamination may remain above MCLs for several more decades if left untreated.
- ❖ There is no significant risk to indoor air receptors from soil gas contaminants in the 22 Area.



22/23 AREA GROUNDWATER

Draft 22/23 Area RI/FS Summary

- ❖ Five groundwater plume areas.

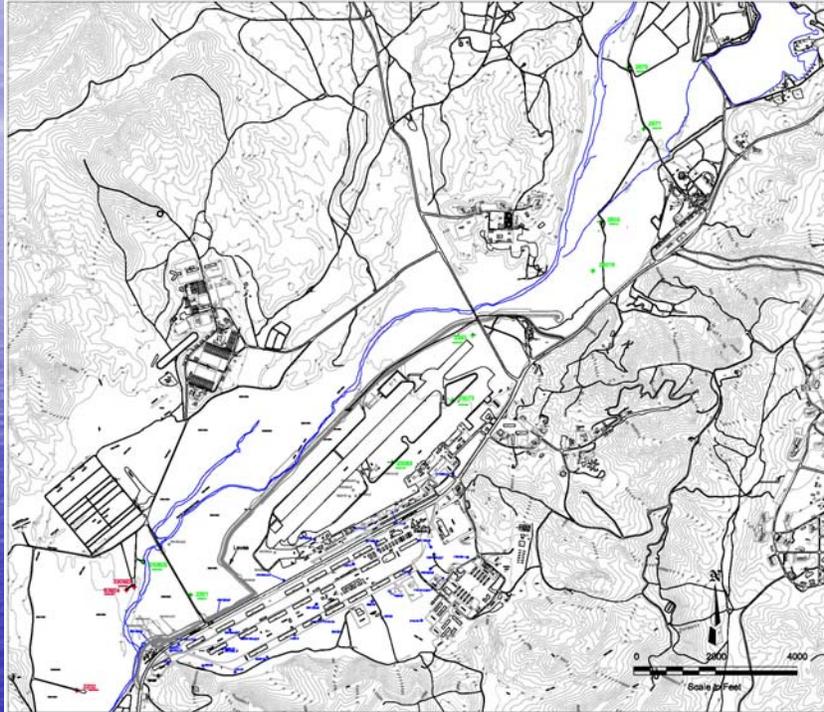


22/23 AREA GROUNDWATER

Draft 22/23 Area RI/FS Summary

- ❖ 1,2,3-TCP has been detected in Well 2202 and also in Base Wells 330923, 330925, and 33924 (cross gradient from the site), and agricultural well 2200 (down gradient from the site)
- ❖ 1,2,3-TCP has also been detected in Base well 26016 (about a mile upgradient of the site).

PRODUCTION WELLS



22/23 AREA GROUNDWATER

FS Alternatives

- ❖ No Action.
- ❖ Land Use Controls and Long Term Monitoring.
- ❖ Source Area Treatment via In Situ Technologies.
- ❖ Ex Situ Wellhead Treatment at Well 2202.
- ❖ Alternate Water Supply by Installing New Base Well or Wells.

MCB CAMP PENDLETON SITE 1D UPDATE

18 February 2010

99th FFA Meeting



SITE 1D UPDATE

Remediation

- ❖ During soil excavation, 85 to 90 buried steel drums and/or drum fragments were encountered in excavation cell G9, approximately 8 to 10 feet above groundwater. The Navy excavated deeper to remove contaminated soil, at which time groundwater was encountered.
- ❖ Groundwater was sampled in the excavation area and was found to be contaminated with metals, pesticides, and volatile organic compounds (VOCs) above the maximum contaminant levels (MCLs).



SITE 1D UPDATE

Groundwater

- ❖ Interim measures implemented to remove localized groundwater contamination as quickly as possible.
- ❖ Groundwater treatment at Grid G9 began in September 2009.
- ❖ The water is treated and then temporarily stored pending the receipt of laboratory results to confirm that the water meets the Base discharge requirements.
- ❖ 240,000 gallons of water have been removed and treated to date. An additional 20,000 gallons of water will be extracted and treated in February.

SITE 1D UPDATE

Groundwater (continued)

- ❖ Baseline samples were collected prior to the start of pumping. Additional groundwater samples were collected after removal of 40,000 gallons, 80,000 gallons, 140,000 gallons, and 240,000 gallons of groundwater.
- ❖ Chlorinated solvents (PCE, TCE, DCE, etc.), benzene, metals, and pesticides have been detected at concentrations exceeding the respective MCLs.
- ❖ Chemical concentrations continue to vary at the individual sampling locations. In general, it appears that TCE, PCE, and cis-1,2-DCE concentrations are generally decreasing. Arsenic concentrations decreased significantly during the February 2010 sampling event.

SITE 1D UPDATE

Groundwater (continued)

- ❖ Latest groundwater results will be evaluated to determine rate of contaminant reduction.
- ❖ If direct removal is proving to be effective, it will be continued. If not, other possible approaches will be evaluated.