

**MCB Camp Pendleton  
103rd FFA Meeting Agenda**

**Via Teleconference**

**January 27, 2011**

- 0900 – 0905**      **Welcome and Introductions**
- 0905 – 0925**      **Project Deliverables Status**  
- proposed sampling at Site 150  
- selected alternatives for 22/23 Area Groundwater  
- free product measurement at IR Site 1116 well RW-1  
- update on Site 1D
- 0925 – 0955**      **FFA Schedule**
- 0955 - 1000**      **Meeting Conclusion / Action Items**

MCB Camp Pendleton Deliverables Spreadsheet

Date: 1/27/11

Item	Document	Contractor	Status	Date Due	Agency Comments	Response Received From:		
				to Agencies	Due By	EPA	DTSC	RWQCB
1	Site Inspection Report for Site 62 (PCB Site in 62 Area)	SeaAlaska	FINAL	4/7/10	6/7/10	NC	X	X
2	RI/FS Report for 22/23 Area Groundwater	SDV/Parsons	FINAL	5/14/10	7/13/10	X	X	X
3	Annual Groundwater Monitoring Report - Site 7 Box Canyon	Trevet	FINAL	6/15/10	8/16/10	NC	NC	X
4	Remedial Action Closure Report for OU5 Site 1H - Burn Ash Site	SDV	Sent revised draft with RTCs	7/6/10	9/6/10	X	X	X
5	Site Inspection Report for Site 1116 - 14 Area Groundwater	Trevet	Responding to agency comments	8/12/10	10/12/10	NC	X	X
6	Design for GCCS - Site 7 Box Canyon	GeoSyntec	FINAL	8/20/10	10/19/10	NC	X	X
7	SAP for NMOC Sampling at Site 7 - Box Canyon	Trevet/Parsons	With agencies	11/8/10	1/17/11	X	X	X
8	RI/FS Work Plan for Site 1119 - 26 Area Groundwater	Parsons	With agencies	11/11/10	1/10/2011 (24)		X	X
9	SAP Addendum for Site 1117 - 15/16 Area Groundwater	ERRG	With agencies	11/30/10	1/31/11		X	
10	ESD for Site 7 (Box Canyon) 2nd Photovoltaic Panel Project	CH2MHill	With agencies	12/15/10	2/14/11			
11	Site Inspection Report for Site 1118 - 21/26/52 Area Groundwater	SeaAlaska	With agencies	12/15/10	2/14/11			
12	Remedial Action Closure Report for OU4 Site 1D for Soil - Burn Ash Site	SDV	With agencies	12/21/10	2/21/11			X
13	Data Gap Analysis Work Plan for Site 1D - Burn Ash Site	SDV	Preparing Pre-draft					
14	Site Inspection Work Plan for Site 150 - SEERMA Site	SDV/TEC	Preparing Pre-draft	Feb/Mar				
15	Remedial Investigation Report for Site 1114 - 41 Area Arroyo	Trevet	Preparing Pre-draft	Feb/Mar				
16	Proposed Plan for 22/23 Area Groundwater	Parsons	Preparing Pre-draft	April				

Agencies have commented

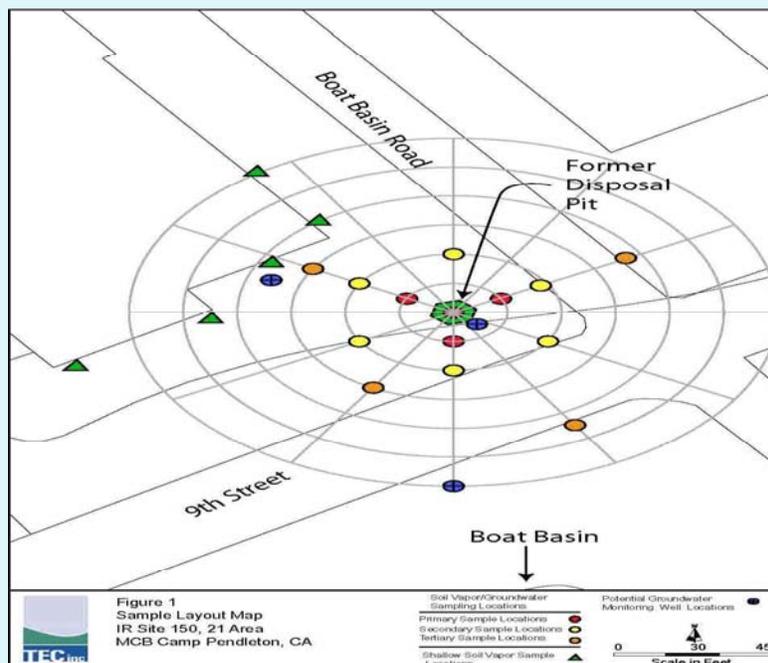
### MCB Camp Pendleton Fieldwork Spreadsheet

Date: 2/18/10

Item	Field Work	Planned Start Date	Planned Completion Date
1	Groundwater at Site 1D - Burn Ash Site	In progress	complete
2	Quarterly Sampling at Site 1115	4th quarter sampled in Dec	complete
3	Quarterly Sampling at Site 21	In progress	4th quarter sampled in Dec
4	Quarterly Sampling at 12 Area Site 13	In progress	3rd quarter in Mar

# FFA Meeting – January 27, 2011

## Proposed Sampling IR Site 150



## IR Site 150 – Phase I

- Collection of continuous cores to ground water from ten borings via direct push. Cores will be screened for organic vapors with a PID. A maximum of two soil samples per boring will be sent to a fixed lab and analyzed by USEPA Method 8260B.
- Collection of groundwater grab samples obtained from the bottom of each of the ten borings using hydro-punch sampling techniques. Groundwater samples will be analyzed by USEPA Method 8260 B using an onsite mobile laboratory.
- Twenty temporary soil vapor sampling probes will be installed in the ten borings. Soil vapor samples will be collected from each probe and analyzed by USEPA Method 8260 B using an onsite mobile laboratory.

## IR Site 150 – Phase II and III

- **Phase II - Shallow Soil Vapor Exposure Point Installation and Sampling.** Five soil vapor points will be installed and sampled for VOCs using USEPA Method 8260 B. They will be located in shallow soil adjacent to selected buildings to assess potential for VOC vapor impacts to indoor air.
- **Phase III - Long-Term Groundwater Investigation.** If the results of the Phase I sampling indicate that long-term monitoring is necessary, then up to three groundwater monitoring wells will be installed to evaluate long-term impacts. Groundwater samples will be collected from each well and analyzed for VOC analysis by USEPA Method 8260 B.

## 22/23 Area Alternatives

- Alternatives selected by team
  - Alternative 2 – Land Use Controls and Long-Term Groundwater Monitoring
  - Alternative 3 – Alternate Water Source and Additional Investigation
  - Alternative 4 – Source Area Treatment via In Situ Technologies

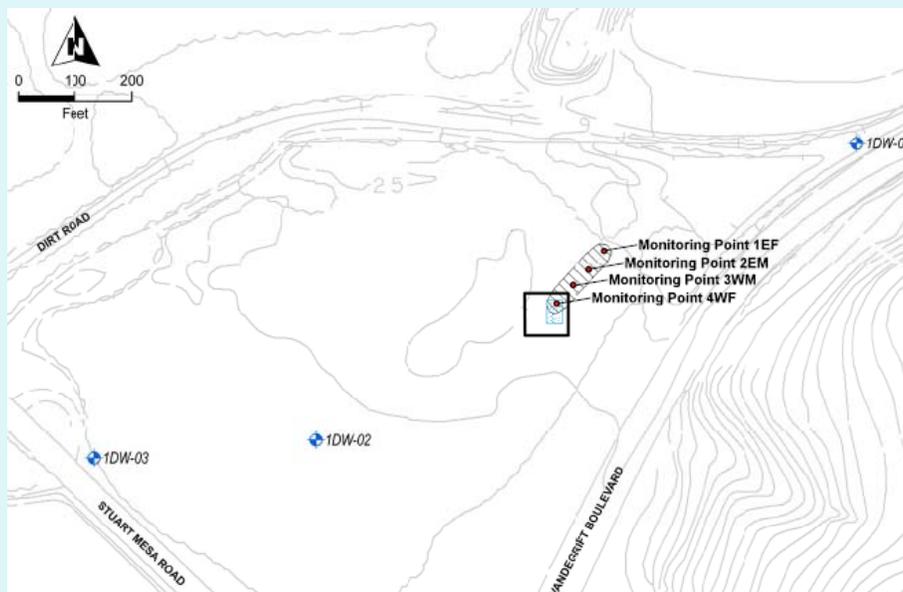
## 22/23 Area Alternatives (cont.)

- Issue – RWQCB would like alternative 5 added as a contingency
- MCBCP CO should make the decision if and when it is required in the future to conduct wellhead treatment or shut the well down

## Update on Site 1D

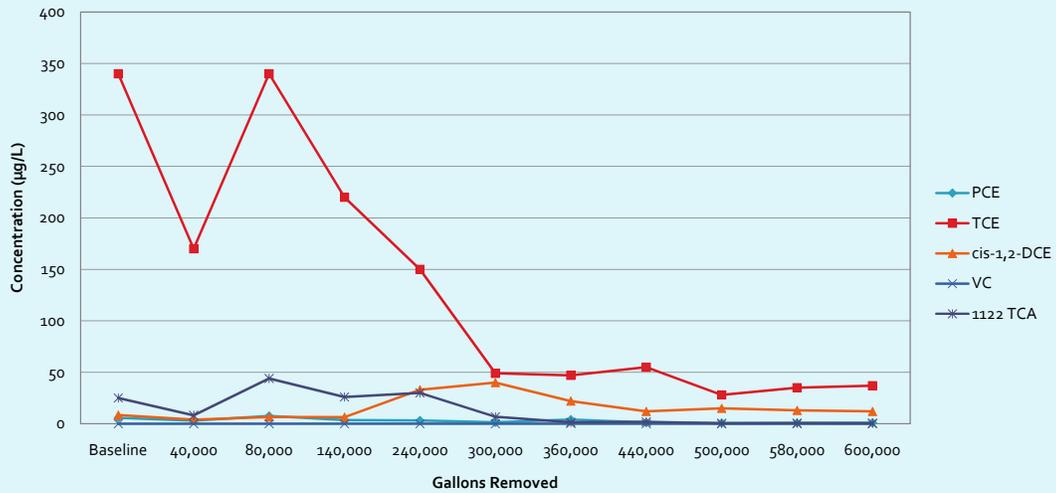
- Groundwater extraction started as interim measure while funds were secured to conduct a Data Gap Analysis and Focused Feasibility Study
  - These documents will provide enough information to compare remedial alternatives
- 640,000 gallons stipulated in contract
- Extraction is complete

## Update on Site 1D (cont.)



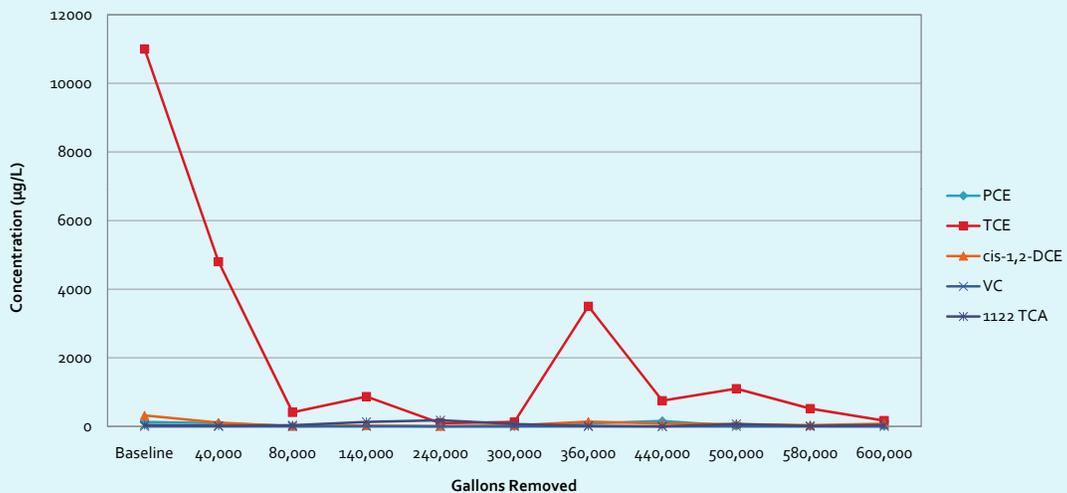
# Update on Site 1D (cont.)

## Chemical Variations Monitoring Location 1EF



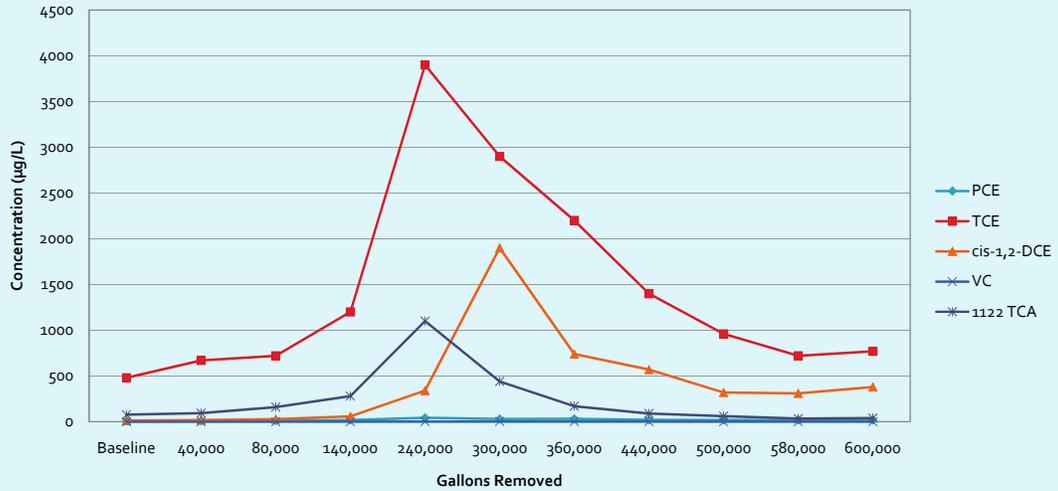
# Update on Site 1D (cont.)

## Chemical Variations Monitoring Location 2EM



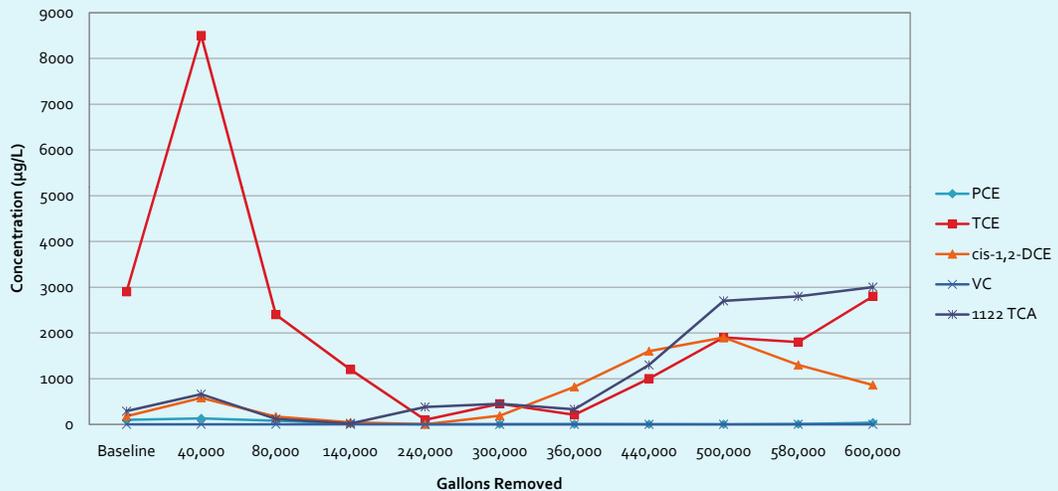
# Update on Site 1D (cont.)

## Chemical Variations Monitoring Location 3WM



# Update on Site 1D (cont.)

## Chemical Variations Monitoring Location 4WF



# Proposed Data Gap Field Work

- Proposed sequence of events at each location:
  - a. CPT survey (for lithologic data) mostly concentrated at locations that were not excavated or below extent of excavation
  - b. MIP survey for vertical delineation of COCs - primarily chlorinated solvents
  - c. Installation of temporary micro wells ( for pesticide, metals, VOC data)
- Installation of 4 to 5 permanent groundwater monitoring wells. Abandon/destroy 1DW-01 because it is screened too deep. Soil samples will be collected to obtain mostly physical soil characteristics.
- Sampling approach is dynamic. All proposed sampling points/monitoring well locations are tentative and can likely change as real-time data will dictate subsequent locations.

# Proposed Data Gap Field Work



## **MILESTONES AND SCHEDULE FOR CY11 DRAFT DOCUMENTS**

### **SITE 6 - 22/23 AREA GROUNDWATER**

Proposed Plan – 5/5/11 (depending on when alternatives are final)

Geotechnical and Design Information – 10/5/11

### **SITE 7 – BOX CANYON LANDFILL**

Annual Groundwater Monitoring Report – 6/9/11

Annual Maintenance Report (for CY10) – 1/27/11

Field work for Non Methane Organic Compounds – 6/6/11

Explanation of Significant Difference for Site 7 – 8/1/11

### **12 AREA SITE 13 – FORMER BUILDING 1280 AND 1283**

Groundwater Monitoring Report (last quarter in late June) – 10/19/11

### **SITE 21 – 14 AREA SURFACE AREA IMPOUNDMENT**

Tech Memo – 9/16/11

### **SITE 33 – 52 AREA ARMORY**

Removal Action Work Plan – 8/15/11

### **SITE 150 – 21 AREA, LOCATION 1**

Field work – 7/27/11

### **SITE 1003 – 20 AREA REFUSE BURNING GROUND**

Data gap analysis – 4/4/11

Field work – 10/11/11

SITE 1111 – ASH AND DEBRIS DISPOSAL AREA (26 AREA)

NFA Proposed Plan (also includes some of the Site 1116 sites) – 3/29/11

NFA iROD – 12/22/11

SITE 1114 – 41 AREA TCE PLUME

Remedial Investigation Report – 4/29/11

SITE 1115 – 13 AREA FSSG LOT

Tech Memo – 7/7/11

SITE 1116 – 14 AREA GROUNDWATER

Engineering Evaluation/Cost Analysis – 5/31/11

Action Memorandum – 6/30/11

SITE 1117 – 15/16 AREA GROUNDWATER

Field Work – 4/18/11

SITE 1119 – 26 AREA GROUNDWATER

Field Work 5/5/11

SITE 62 – ASPHALT BATCH PLANT

Extended Site Inspection Work Plan – 9/1/11