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FINAL MINUTES FROM PARTNERING TEAM MEETING DATED 20 AUGUST 2002 CSS
PANAMA CITY FL
8/20/2002
TETRA TECH

**Coastal System Station Panama City
Tallahassee, FL
Partnering Team Meeting Minutes
August 20, 2002**

MEMBERS PRESENT:

Pete Doa	USEPA	Dan Wadill	SOUTHDIV
Arturo McDonald	CSS PC - Timekeeper	Pete Paznokas	ICLD - Facilitator
Gerry Walker	TtNUS	Jamie Pelt	TtNUS - Scribe
Tracie Vaught	FDEP	Rich May	Tier II
Phil McGinnis	SOUTHDIV - Leader	Mike Clayton	CSS PC

GUESTS: Amy Twitty, CH2M Hill, Wayne Hansel, John Griffin, FDEP

1. Check-in/Opening Remarks/Resource Sharing/Announcements/Head Count and Proxies/Guests/Review Ground Rules/Action Item & Parking Lot Review/Approve Minutes

Action Item 1: Check out AOC1 IDW drum disposal and funding by September 1, 2002 - Phil

Action Item #2: Will send out the final meeting minutes for June 4, 2002 teleconference with the draft from this meeting by August 23, 2002 - Jamie

Action Item #3: Check on internet/WEB access for next teleconference call by September 17, 2002 - Pete D. /Dan

Consensus #1: Consensus to go final with the June 4, 2002 meeting minutes

2. Agenda Additions and Modifications

There were no additions to the agenda – some items were moved to better accommodate the time schedule and the guest's presentations. This would ensure the productivity of the meeting.

3. Tier II Update – Rich May

On August 27, 2002, there will be a joint meeting with Texas and Region 5. A regular Tier meeting will be held on August 28 and 29, 2002. There are many issues that are going to be discussed with the other regions, such as, what is the role of the individual Tier's, partnering differences, etc. It will be a good chance to trade and share information.

Tier II has been dealing with scheduling issues and day to day issues going on at the various site locations. The guest team at the meeting will be Pensacola. There is an LUC issue – there were different objections, such as post ROD authority. Rich will distribute copies of the CAMP at the Tier meeting next week.

4. HSWA Permit – John Griffin

The Land Use Control (LUC) language has been approved up the ladder of command. The language is so far specific for Cape Canaveral and Patrick AFB. The same language will be used at CSS Panama City. A boilerplate on the LUC document is available, however the problem with it is that LUC's are expensive to implement. John will provide the LUC boilerplate from existing permits. Mike asked who determined the LUC boilerplate. John did not know whether it was DOD, NAVY or Air Force. Arturo asked if the facility is not currently proposing LUC, is the wording needed in the permit? John replied yes. It's needed for potential future LUC's.

John indicated that the current draft HSWA permit does not address all SWMU's. John cannot identify which SWMU's were left out, but he did indicate that the petroleum sites need to be included. John asked about satellite accumulation areas, whether they were just isolated drums. Mike said yes, they are isolated locations. John said those count as SWMU's and need to be listed and also areas with a potential problem, especially roll-off boxes, near industrial areas, need to be listed, but as no further action. Mike said they would go back and review their roll-off box locations. Phil asked John if all of the roll-off and satellite locations need to be put on the map. John requested that the property boundary be on an 8 1/2 x 11 paper and it needs to identify where they are, but does not need to be on a regular map. A description of where it is would also be acceptable. They also need to be numbered and named.

John mentioned that he cannot identify SWMU 7, he needs a building or location description. After looking back on the HSWA permit, John found the description list, it looks good.

Gerry asked about adding petroleum sites, John replied that if you have a tank with petroleum products in it, and a spill occurs but gets cleaned up immediately, that is not considered a SWMU – when it spills you do not need to list it. As a generator, you have the right to go in and clean up. But, if you have a site that has leaked over a period of time with problems, and cannot get it cleaned up immediately, because of groundwater contamination, that would need to be listed.

All satellite accumulation areas need to be listed because they handle hazardous waste. The higher the potential of having a problem (things disposed other than general trash), the higher the need to have it on the list.

John mentioned that we will also need to include the waste streams (n/a is not acceptable), Attachment P needs to be more elaborate. John also indicated that section P-3 needs to be filled in, listing all spills at the facility and the base map needs to be larger. Finally, John said that the permit needs to be signed and certified.

Action Item #4: Send sample of LUC language used in permit to Tracie, by August 23, 2002 - John/Tracie

Action Item #5: Send to team list of attendees on LUC Permit Conference Call -Tracie

Action Item #6: Get with legal concerning what to list on the HSWA Permit by August 30, 2002 (inclusion of SWMU's - Phil)

5. **BREAK**

6. **Contractor's Update – Gerry**

All of the fieldwork is completed, the field crew went out the July 15, 2002 and removed the drums of ID generated, sampled all the wells and added wells around SWMU 9 and SWMU 3. There have been minor issues with the Environmental Graphical Information System (EGIS); several sampling points are erroneously located within buildings, TtNUS needs to either move the building or the sampling location. Phil asked how many wells were installed at SWMU 3. Gerry replied three.

SOUTHDIV has talked to TtNUS about doing an ecological risk assessment (ERA) on the new samples at SWMU3. We received the funding last week, the ERA will hopefully begin the week of August 26, 2002.

Phil indicated that the ERA would be an appendix to the RFI Addendum that SOUTHDIV is writing. The RFI addendum will be a relatively small document. Also Phil brought up that the previous Corrective Measures Study (CMS) had been approved, but the approval has been rescinded. Phil asked the team if we can do a CMS addendum, or will a full CMS be necessary? A full CMS could be a very large document. Phil asked if there is any legal requirement that says we have to do a full CMS, or can we do a CMS addendum? Pete D. does not have a problem with streamlining the original, but he will have to check. The only problem was the Statement of Basis. The RFI Addendum and CMS addendum will include All the SWMU's. Phil would like to try to use the documents already completed (streamline) and go forward.

The team also discussed the fact that a building contractor destroyed monitoring well 3-1 and TtNUS was to supply a cost estimate to the facility for replacement. Gerry indicated that the replacement cost was \$1,348. Mike and Arturo will check to see if the facility can get the contractor to pay the cost and TtNUS will wait to hear from them prior to submitting an invoice.

7. Success Story Update – Gerry

Gerry distributed copies of the Team's updated success story. He also distributed the Success Story Topic List completed during last January Partnering Team meeting. The Team needs to determine which topics to work on next. The Team decided to update and reprioritize the current success story list. The top three topics were determined following an individual ranking.

1. Successful exit strategy for the Bioslurper at AOC1.
2. Completion of document Addendum's to the RFI and CMS to streamline the document review process.
3. Use of WebX or Meeting Place to enhance teleconferencing.

Success Story Topic Update

1. Successful exit strategy for the Bioslurper at AOC 1
2. Addendum to the RFI and CMS to streamline the document review process
3. Use of WebX or Meeting Place to enhance teleconferencing
4. Meeting with John Griffin early on for gathering information, etc.
5. Discuss E.I. at past and future meetings to get a better handle on the issue
6. Embracing partnering from the beginning

The draft Success Story should be worked on during the October 22 & 23, 2002 meeting and finalized by December 2002.

Consensus #2: Consensus on the ranking of the 3 top Success Story Topic's

8. LUNCH

9. Petroleum Update – Amy Twitty/Wayne Hansel

Amy Twitty made a presentation on Site 278 and Site 325. Please see attachment of presentation handout.

Wayne Hansel spoke on Site G300 and Site 333/AOC2/SWMU 1. Please see attachment of presentation handout.

10. AOC1 Update – Dan Wadill

Dan gave a Power Point Presentation on AOC1. The following topics were discussed: the AOC 1 Conceptual Model, presence and location of chlorinated solvents, monitoring well locations, 1,1-DCE Concentrations, benzene concentrations, 1,1,1-TCA vs. time, 1,1-DCE vs. time, 1,1-DCA vs. time, chloroethane vs. time, benzene vs. time and Dissolved oxygen concentrations.

In summary:

- There are 19 new wells clustered in well nests at 9 locations
- There was very little contamination detected within 500 feet of the original source zone.
- 1,1,1-TCA was detected in only one well
- There are general aerobic conditions across the site
- Groundwater flow measured upward in wells within 100 feet of the bay

11. **CAMP Update - Gerry Walker**

Gerry submitted the updated Corrective Measures Management Plan (CAMP) to the Team.

12. **Training Schedule – Pete P.**

Pete P. would like to hold off on discussing the training schedule until the next meeting in October. Pete P. passed out a video list and asked for everyone to decide on which ones we would like to see at future meetings.

13. **Partnering Training – Pete P.**

Pete P. showed the “Think or Sink” video to the Team.

Summary of the Training Video: There are four basic steps in making decisions:

- 1st stage: Develop a good helpful question - help and involve the team in creating a good question. Everyone needs to agree on it.
- 2nd stage: Give yourself some options. Create alternatives.
- 3rd stage: Try to see the things that could go wrong or right and discuss each opportunity.
- 4th stage: Review the options, and add a percentage of success to each one, and review the consequences of each option. Weigh the risks against the rewards.

There was a team discussion and question and answer period.

Action Item #7: Check with RCRA about a CMS addendum instead of a full CMS document by October 10, 2002 - Tracie

14. **Facility Update – Arturo/Mike**

Dan mentioned that with the construction at SWMU 10, we need to determine which monitoring wells have been compromised or destroyed. Mike said that should not be a problem. Arturo mentioned that the facility map would be changing soon.

Additional contamination may be present at SWMU 10 as a result of the removal of an empty waste oil tank that was breached during removal. An immediate cleanup was conducted however the final result is not known. Phil indicated SOUTH DIV plans to conduct an additional sampling event in February 2003. If the sampling event determines that the groundwater is clean, sampling will be complete. If contamination is identified, additional assessment will be completed.

Action Item #8: Locate and assess conditions of wells at SWMU 10 September 24, 2002 – Arturo/Mike

15. **Meeting Closeout – review action items/ next agenda/ + / - list/ consensus/ facilitator evaluation**

There were new action items from this meeting. See updated list attached. The Team discussed the next upcoming meeting dates, times and places:

- ❖ The September 2002 Teleconference will be held on September 24, 2002 from 2:00pm - 4:00pm Eastern time.
- ❖ The October 2002 Meeting will be held on October 22 (1/2 day tour beginning at 1pm) - 23 (all day meeting), 2002, in Panama City.
- ❖ The November 2002 Teleconference will be held on November 19, 2002 at 2:00pm, Eastern Time.

Meeting Critique

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Meeting Room
 E.I. on GW
 Amy's endepth summary
 Emptied the parking lot
 Training video was informative
 Added items to the agenda
 Flexible Agenda
 Finished Agenda
 Team Dynamics: Humor, cooperation, trust
 "I need an action item" (team members stepping forward)

(-)

Petroleum Update HSWA permit
 Not enough time
 Got off schedule
 Lunch ran too long, got
 off schedule
 Sidebar was distracting

The Team discussed the next meeting agenda (see below).

Facilitator Evaluation

Any facilitator comments can be sent to Phil.

Action Items CSS Panama City Partnering Team Updated August 20, 2002

Action Item No.	Responsible Party	Status	Due Date	Action Item
Action Items from October 16, 2001 Meeting				
01.10.01	Phil	Closed	11/15/01	Follow-up with legal LUCIP-MOA
01.10.02	Phil	Closed	11/15/01	Follow-up funding for indoor air quality at AOC 1
01.10.03	Phil	Working	11/15/01	Send letter to EPA/FDEP for NFA. Gerry needs copies of the letter
01.10.04	Phil/Dan	Closed	11/15/01	Contact FDEP to send rep. To Partnering Meeting when needed
01.10.05	Gerry	Closed	11/16/01	Send letter of recommendation (summary) to SOUTHDIV concerning air quality at AOC1
01.10.06	Arturo	Closed	11/05/01	Send letter to FDEP/EPA/SOUTHDIV w/ revised CAMP schedule
01.10.07	Dan	Closed	11/05/01	Check w/ Bechtel on the removal of the Bioslurper
01.10.08	Phil/Dan	Closed	11/05/01	Check w/ Nick to see if the Bioslurper can be used at another site
01.10.09	Denise	Closed	11/05/01	Update Charter and distribute to the Team
01.10.10	Gerry	Closed	10/26/01	Proposed plan for well locations w/ descriptions at AOC 1
Action Items from December 10, 2001 Meeting				
01.12.01	Pete D	Closed	01/28/01	Add air quality to next agenda
01.12.02	Gerry	Closed	12/31/01	Send proposed monitoring well location map to Team
Action Items from January 23 and 24, 2002 Meeting				
02.01.01	Mike	Closed	02/01/02	Contact the Lt. to see when the letter to the Native Americans will be sent. Gerry needs a copy of the letter
02.01.02	Mike/Phil	Closed	09/28/02	Find out if funds will be available for the HSWA permit

Action Item No.	Responsible Party	Status	Due Date	Action Item
				(due 10/30/02)
02.01.03	Gerry/Arturo	Closed	02/07/02	Draft a success story for the team
02.01.04	Mike/Tracie	Closed	03/05/02	Arrange a site visit for Tracie – Tracie will let Mike/Arturo know when she is in PC
02.01.05	Dan	Closed	03/05/02	Dan will send the Final Report to the team before the next meeting
Action Items from March 05 and 06, 2002 Meeting				
02.03.01	Denise	Closed	03/13/02	e-mail Draft HSWA permit to the Team
02.03.02	Arturo/Mike	Closed	03/29/02	Contact John for HSWA permit clarification w/ cc to Merlin Russell
02.03.03	Dan	Closed	03/20/02	Send the Final Battelle's Bioslurpper Report to the Team for review and comments
02.03.04	Gerry	Closed	04/11/02	Draft a success story and e-mail to the Team
Action Items from April 18, 2002 Meeting				
02.04.01	Mike	Closed	6/4-5/02	Check on application fee process for the HSWA permit
02.04.02	Jamie	Closed		Bring CAMP to next meeting for review and update
02.04.03	Phil	Closed	6/1/02	Clarify LUC issue for permit
02.04.04	Gerry/Jamie	Closed	4/22/02	Send CD of the Admin. Record to Team
02.04.05	Jamie	Closed	5/3/02	Update partnering list
02.04.06	Gerry	Closed	5/3/02	Send out updated "success story"
02.04.07	Gerry	Closed	6/1/02	Update facility wide map to include all active petroleum sites (including sites 325, 278 and 307)
New Action Items from August 20, 2002 Meeting				
02.08.01	Phil	Working	9/1/02	Check on AOC1 IDW drum disposal and funding
02.08.02	Jamie	Working	8/23/02	Send out final June 4, 2002 meeting minutes with the draft from this meeting
02.08.03	Pete D./Dan	Working	9/17/02	Check on internet/WEB access for next teleconference call
02.08.04	John/Tracie	Working	8/23/02	Send sample of LUC language used in permit to Tracie
02.08.05	Tracie	Working		Send to team list of attendees on LUC Permit Conference Call
02.08.06	Phil	Working	8/30/02	Check with legal concerning inclusive of SWMU's, etc. on the HSWA Permit
02.08.07	Tracie	Working	10/10/02	Check with RCRA about CMS addendum instead of another CMS document
02.08.08	Gerry	Working	9/24/02	Locate and assess conditions of wells at SWMU 10
02.08.09	Arturo/Mike/ Phil	Working		Set date to contact the Captain for a meeting in October to discuss final version of application for the permit

**CSS Panama City Partnering Team Parking Lot
Updated August 20, 2002**

Parking Lot No.	Parking Lot Issue
1	Petroleum Sites listed in HSWA Permit.- CLOSED
2	Check with Battelle on the removal of the Bioslurpper. Facility requests follow-up to expedite this – CLOSED
3	Get a date for Capt. Review and signature of HSWA permit. – re-address: getting a date – CLOSED BECAME AN ACTION ITEM
4	LUC Issue Concerning Permit – CLOSED, MOVED TO THE AGENDA

There were no new parking lot issues.

New Action Items

1. Check on AOC1 IDW drum disposal and funding by 9/1/02 (Phil)
2. Send out final June 4, 2002 meeting minutes with the draft from this meeting by Friday, August 23, 2002. (Jamie)
3. Check on internet/WEB access for next teleconference call by 9/17/02 (Pete D./Dan)
4. Send sample of LUC language used in permit to Tracie, by 8/23/02 (John/Tracie)
5. Send to team list of attendees on LUC Permit Conference Call (Tracie)
6. Check with legal concerning inclusive of SWMU's, etc. on the HSWA Permit by 8/30/02 (Phil)
7. Check with RCRA about CMS addendum instead of another CMS document by 10/10/02 (Tracie)
8. Locate and assess conditions of wells at SWMU 10 by 9/24/02 (Gerry)
9. Set date to contact the Captain for a meeting in October to discuss final version of application for the permit. (Arturo/Mike/Phil)

Summary of Consensus Items

1. Approval of last meeting minutes
2. Consensus on the Top 3 Success Story Topic's

**DRAFT AGENDA CSS PANAMA CITY
PARTNERING TEAM MEETING
Teleconference
September 24, 2002**

Leader: Tracie Vaught

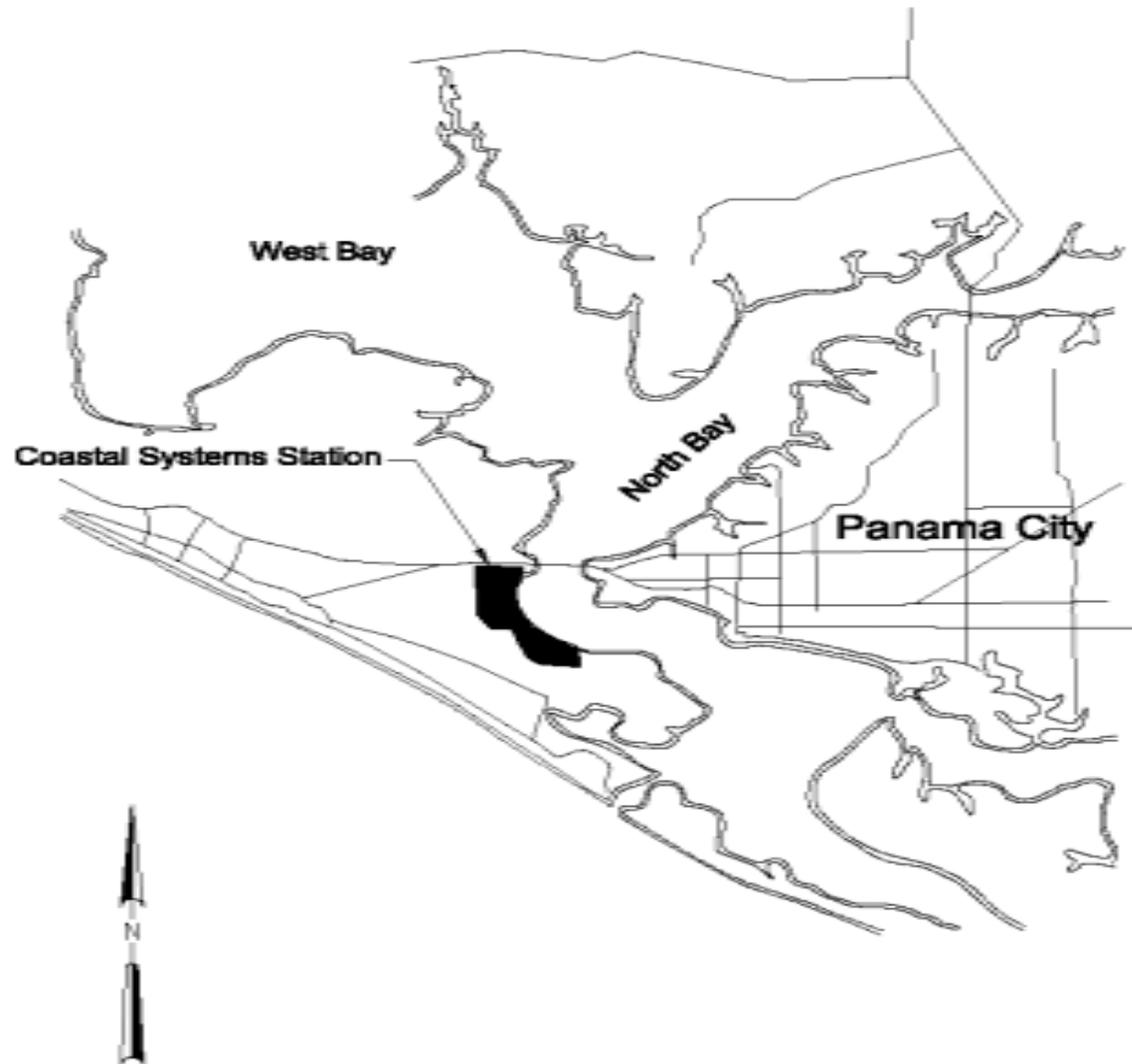
Scribe: Jamie

Timekeeper: Phil

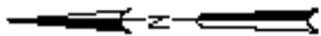
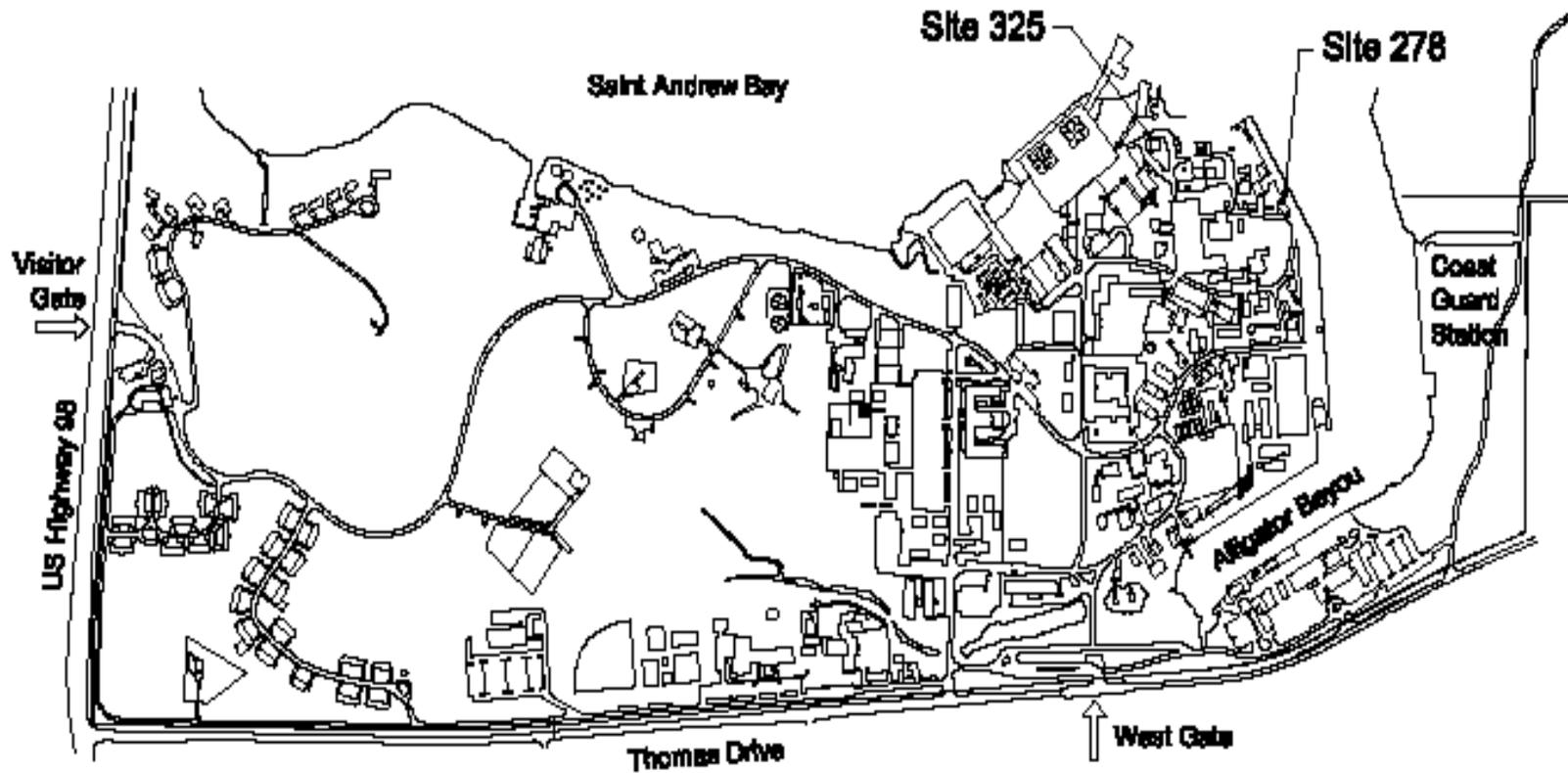
 Item	Description	Presenter	Time	Category
1	Check-In/ Opening Remarks/ Resource Sharing/ Announcements/ Head Count and Proxies/ Guests/ Review Ground Rules/ Action Item & Parking Lot Review/ Approve minutes	Tracie	2:00 - 2:15	Info
2	Agenda additions / modifications	Tracie	2:15 – 2:30	Info
3	HSWA Permit Update	Phil/Arturo	2:30 - 3:00	Info
4	Contractor's Update	Gerry	3:00 - 3:30	Info
5	Review Action Items	Gerry	3:30 - 3:45	Info
6	Meeting Closeout – review action items/next agenda	Tracie	3:45 - 4:00	

Sites 278 and 325 Coastal
Systems Station (CSS),
Panama City, Florida

Coastal Systems Station Facility Location Map



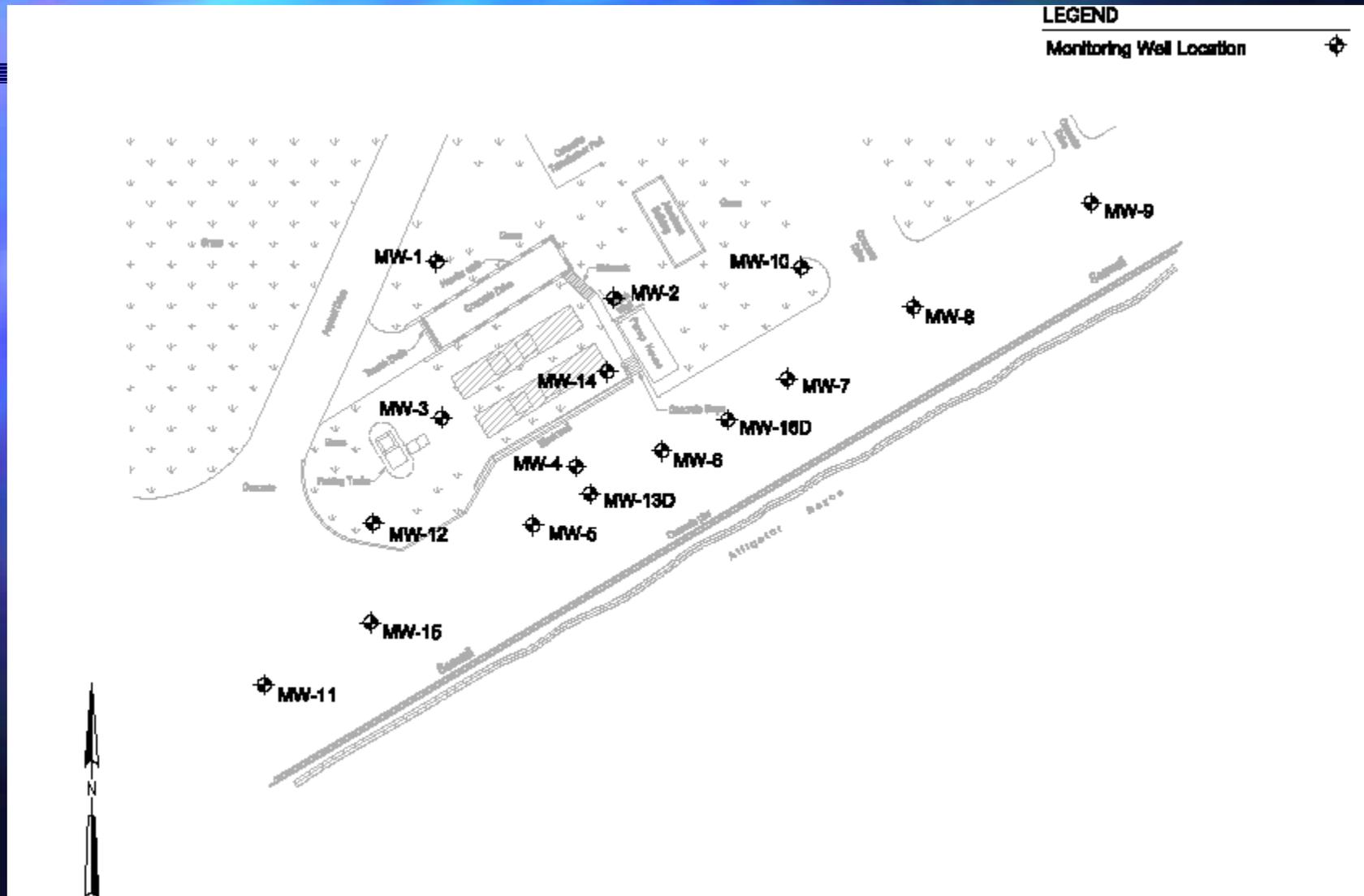
Site 278 and 325 Location Map



Site History Site 278

- Site 278 is the former location of four 7,500-gallon underground storage tanks (USTs) and is located on the east dock adjacent to Alligator Bayou at CSS
- The tanks were removed and replaced by two 15,000-gallon, double-walled, resin coated steel tanks with interstitial leak detection equipment

Site 278 Site Map



Site 278 History (Continued)

- During Tank removal excessively contaminated soil was encountered and excavated in the areas adjacent to the tanks
- The 1993 Contaminant Assessment Report (CAR) identified contamination in excess of State of Florida parameters for Class II groundwater, along with free product

Site 278 History (Continued)

- The 1996 RAP recommended continued groundwater monitoring and removal of free product using a portable slurper/vacuum-enhanced extraction (VEE) system
- The system operated on a bimonthly schedule through December 2001

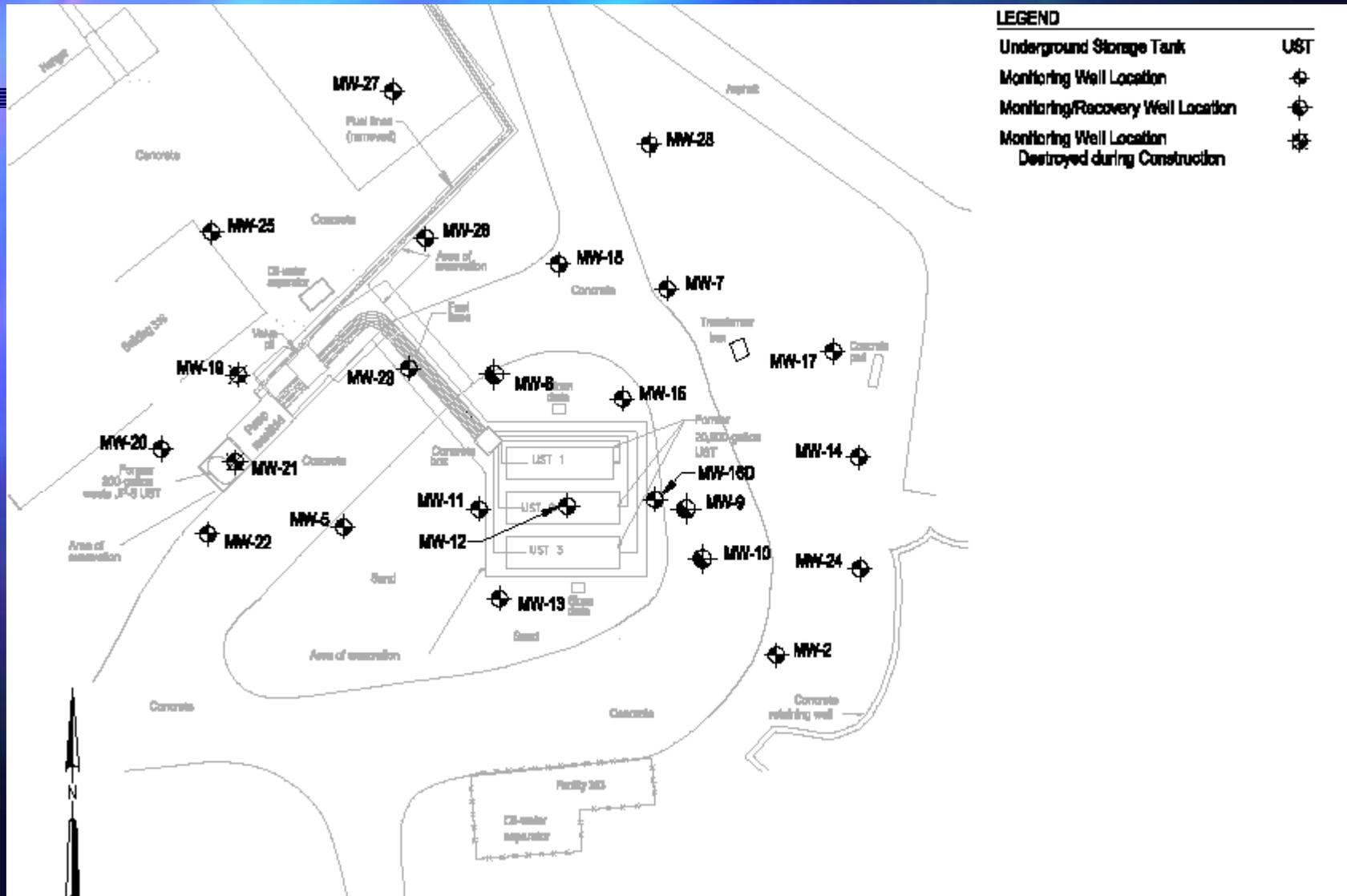
Site 278 History (Continued)

- Product levels decreased during the VEE system's operational period
- No free product presence has been recorded since June 2001

Site History Site 325

- Site 325 is the former location for three 20,000-gallon USTs, one 300-gallon UST, and associated underground pipelines
- The USTs and associated piping were removed in 1995, along with approximately 490 cubic yards of excessively contaminated soil

Site 325 Site Map



Site 325 History (Continued)

- A source removal excavation was not conducted, only soils adjacent to the USTs and piping were removed
- The 1996 Remedial Action Plan recommended VEE/slurping of free product and limited extraction of groundwater, VEE of soil and treatment of soil vapor, groundwater monitoring, and the future installation of an Aquifer Air Sparge (AAS) System

Site 325 History (Continued)

- The VEE system was installed in October of 1997 and operated on a bimonthly schedule through December 2001
- Product levels decreased during the VEE system's operation
- No free product presence has been recorded since June 2001

Current Groundwater Results

- CCI conducted groundwater monitoring at Sites 278 and 325 on April 18 and 19, 2002
- No measurable levels of free product were present at either site
- COCs in groundwater include BTEX, 1-Methylnaphthalene, 2-Methylnaphthalene, Naphthalene, and TRPH

Current COCs in Groundwater and Soils

COCs for Soil and Groundwater at Sites 278 and 325
Coastal Systems Station, Panama City, Florida

Parameters:	Regulatory Criteria	COC at Site 278	COC at Site 325
Groundwater			
Volatile Organic Compounds (µg/L)			
Benzene	1	yes	yes
Toluene	40	yes	yes
Ethylbenzene	30	yes	yes
Total Xylene	20	yes	yes
Polynuclear Aromatic Hydrocarbons (µg/L)			
1-Methylnaphthalene	20	yes	yes
2-Methylnaphthalene	20	yes	yes
Naphthalene	20	yes	yes
Total Recoverable Petroleum Hydrocarbons (µg/L)			
TRPH	5,000	yes	yes
Soils			
Total Recoverable Petroleum Hydrocarbons (mg/kg)			
TRPH	340	yes	yes
1-Methylnaphthalene	2.2	no	yes
2-Methylnaphthalene	6.1	no	yes
Naphthalene	1.7	no	yes

Notes:

Groundwater criteria used are from 62-777, FAC, Tables 1 and 2

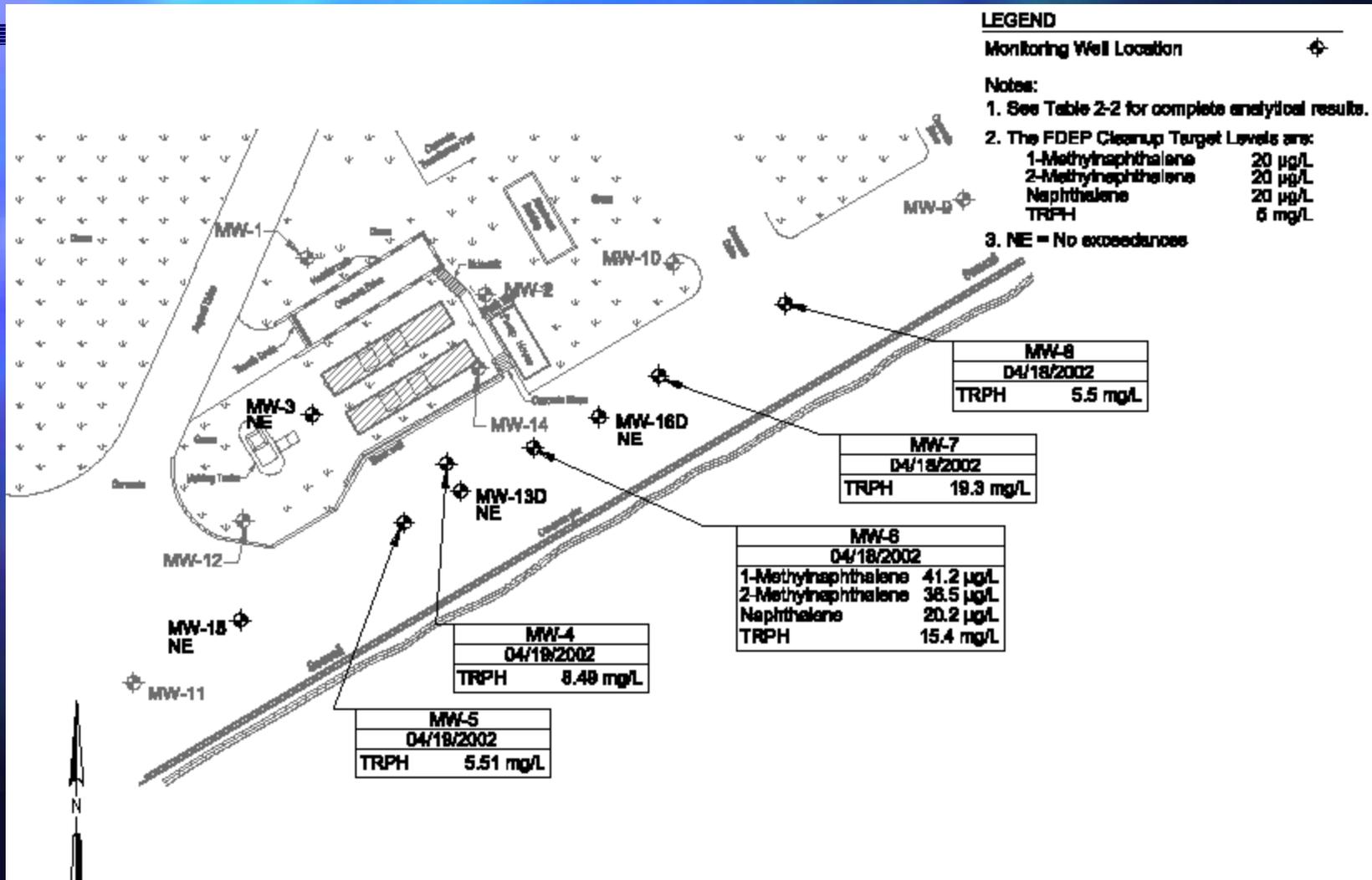
µg/L = micrograms per liter

GCTL = groundwater cleanup target level

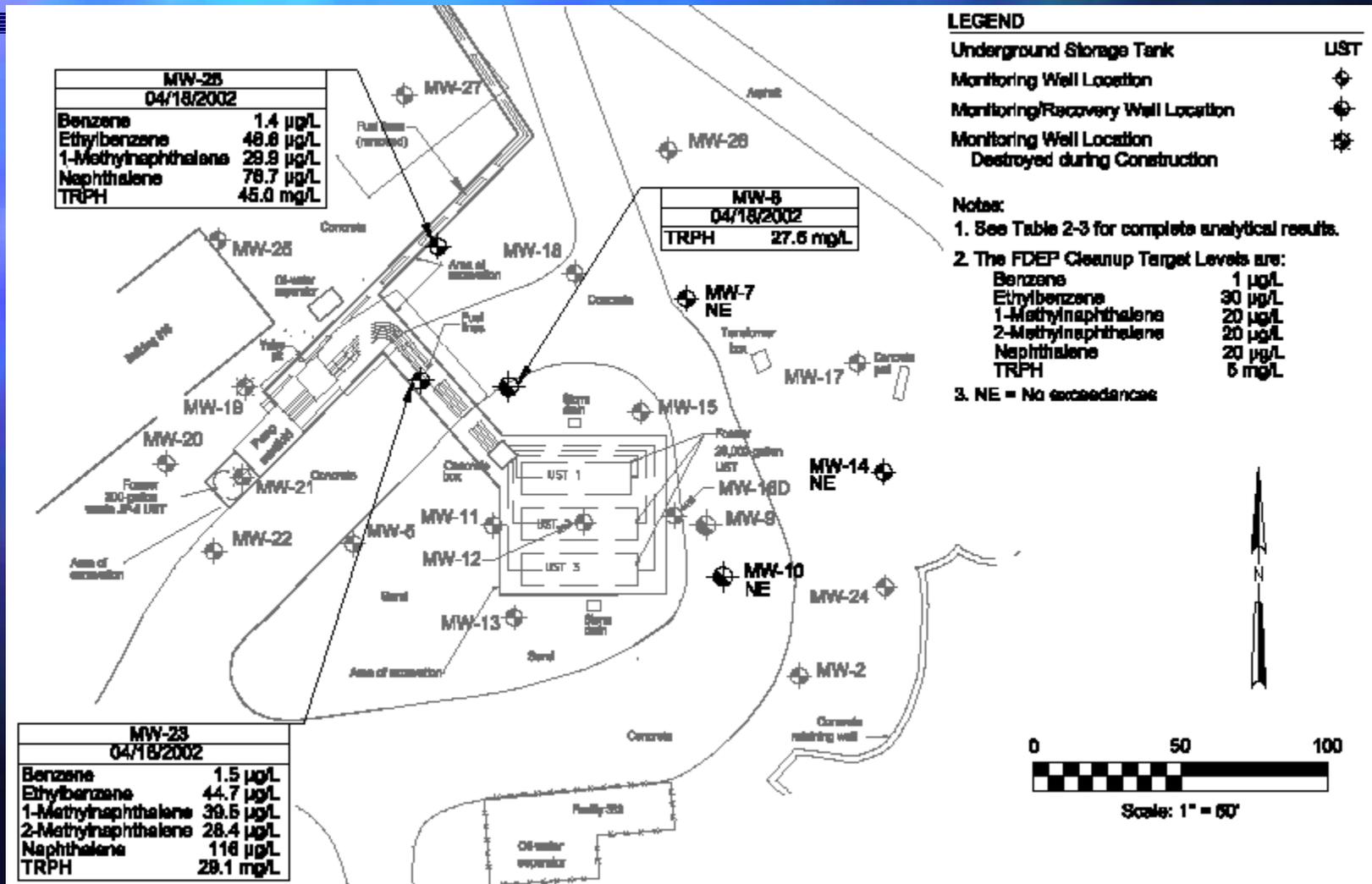
ND = non-detect

J = estimated

Site 278 Groundwater Contaminant Concentrations



Site 325 Groundwater Contaminant Concentrations



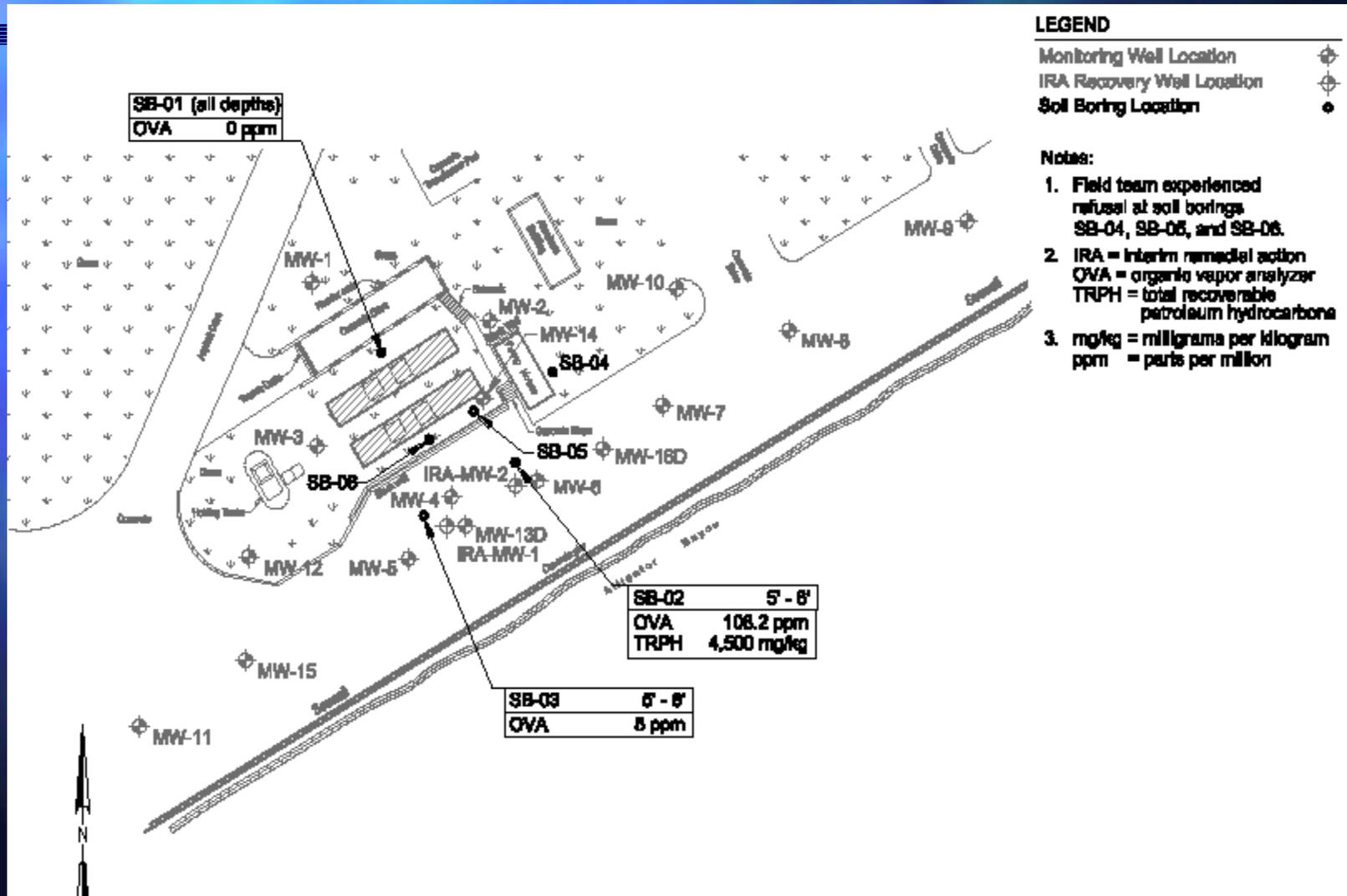
Current Soil Results

- CCI conducted soil sampling at Sites 278 and 325 on May 16, 2002
- OVA headspace and select soil samples were collected at both sites
- TRPH is a COC in soils at both sites, exceeding the leachability criteria of 340 mg/kg

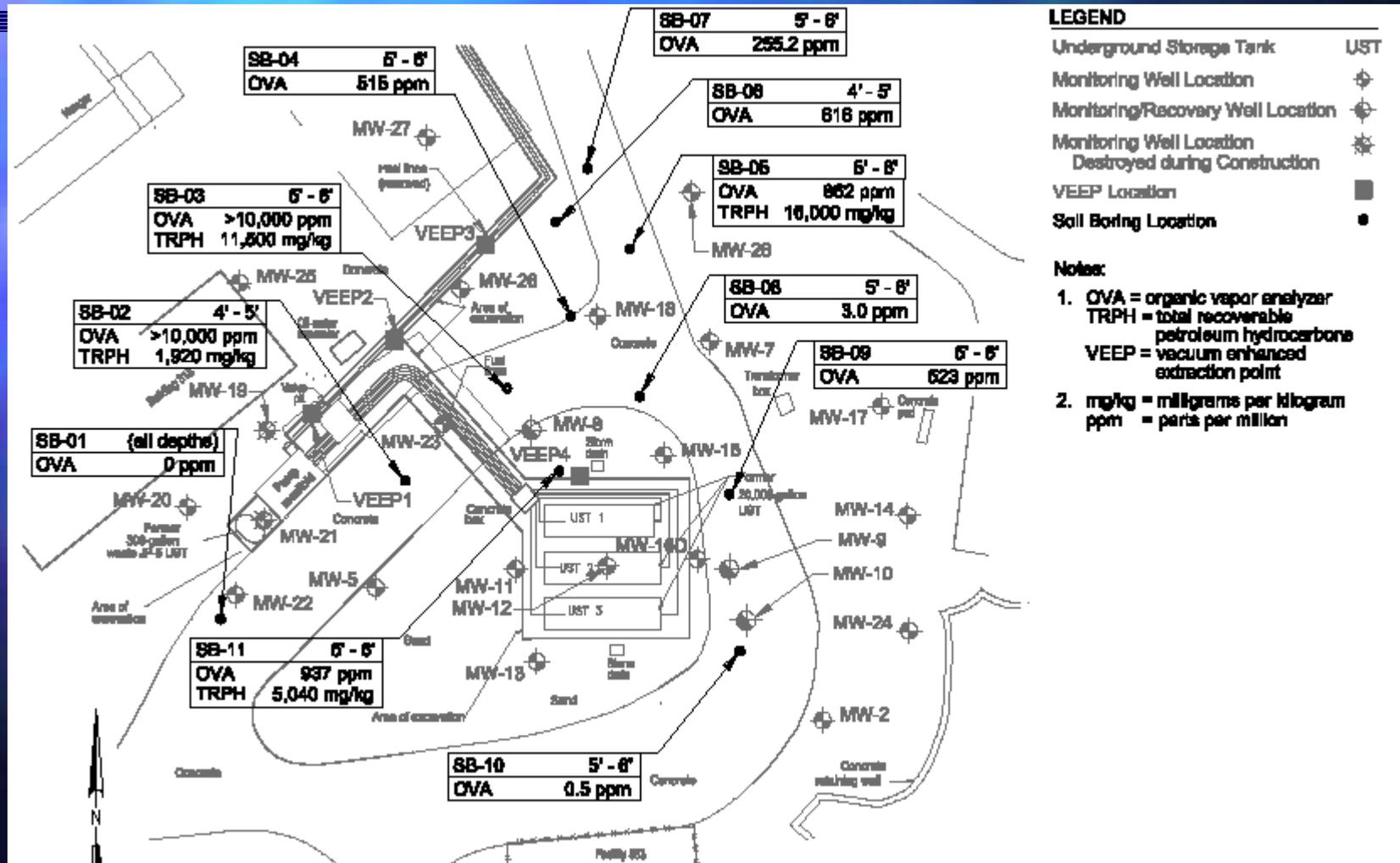
Current Soil Results

- 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene are COCs present in the soils at Site 325 in addition to TRPH

Site 278 Soil Boring Locations and Results



Site 325 Soil Boring Locations and Results



Current Soil Results, Mass Estimates

- Mass estimates are based on historical groundwater data, current soil and groundwater data, and engineering judgement

Current Soil Results, Site 278

Mass Estimate

- Site 278 contains approximately 3,320 kg of TRPH of which 2,600 kg exceed permissible levels
- Treatment area encompasses approximately 7,031 ft² (based on AutoCAD rendering)

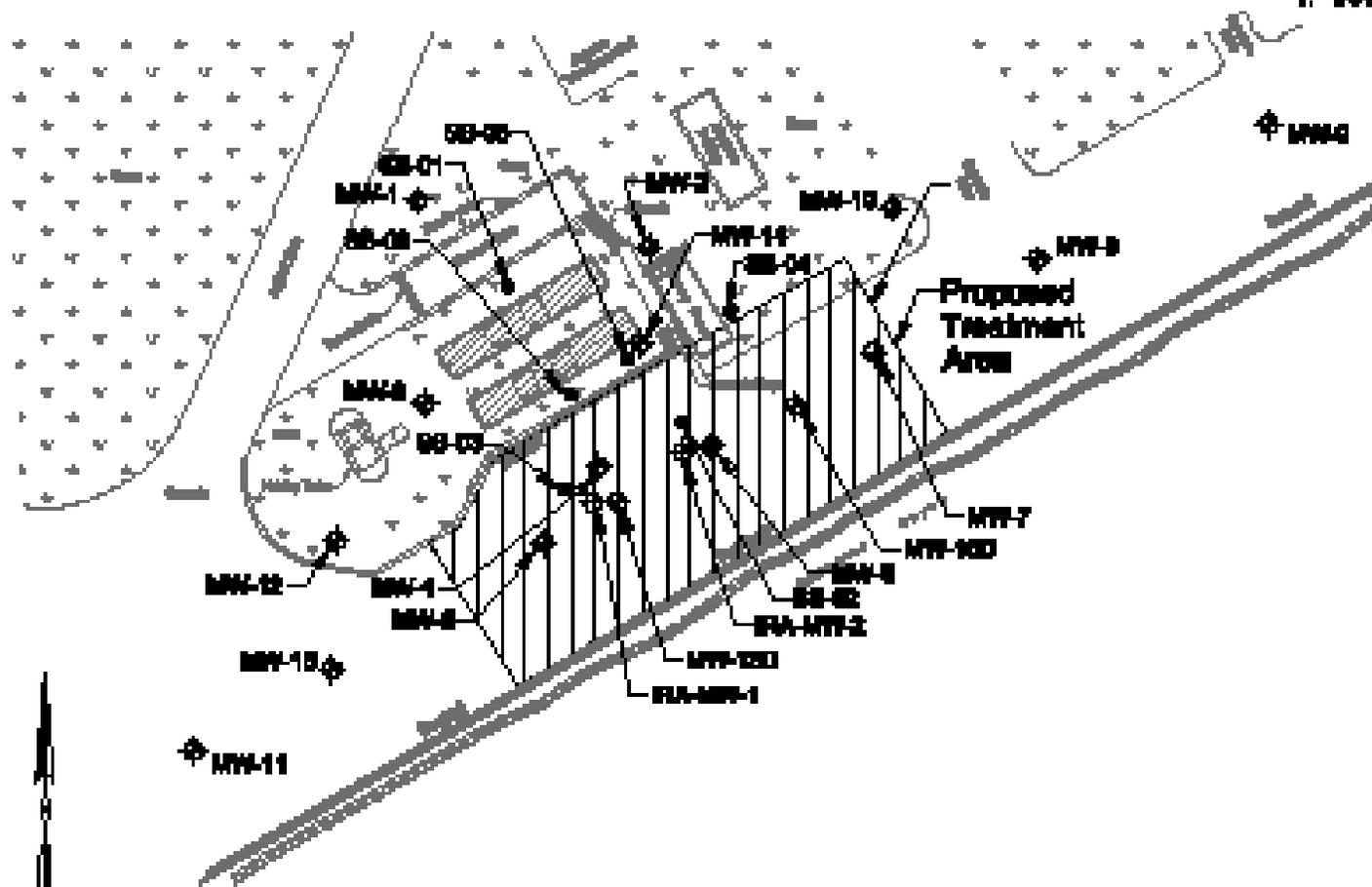
Site 278 Treatment Area

LEGEND

Monitoring Well Location	⊕
IRM Recovery Well Location	⊕
Soil Boring Location	⊕

Note:

1. IRM = Interim Remedial Action

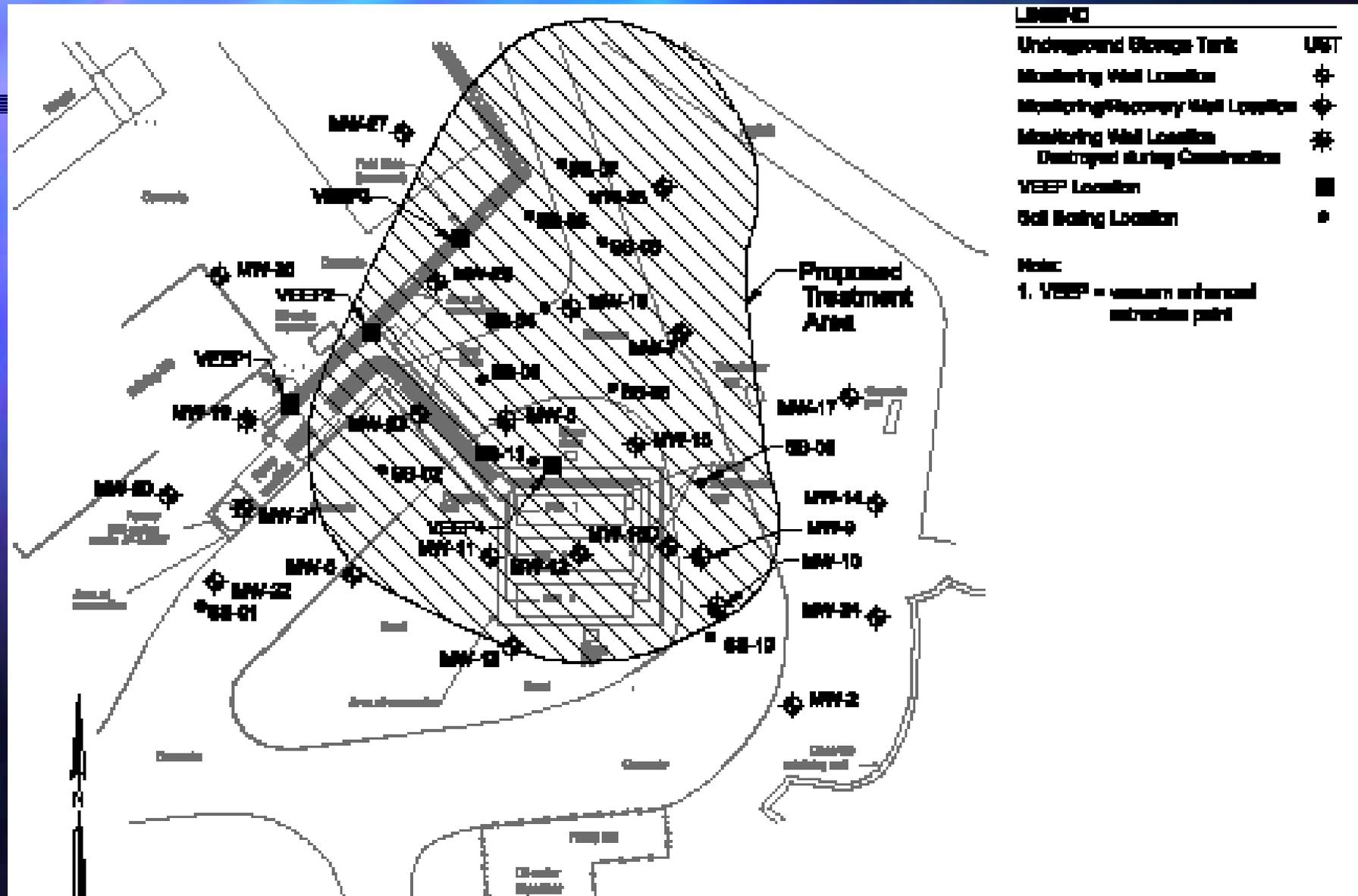


Current Soil Results, Site 325

Mass Estimate

- Site 325 contains approximately 36,820 kg of TRPH of which 34,000 kg exceed permissible levels
- Treatment area encompasses approximately 26,726 ft² (based on AutoCAD rendering)
- Further delineation is required on the northern portion of Site 325

Site 325 Treatment Area



Site 278 Remediation System

- An Aquifer Air Sparge (AAS) system and a Passive Soil Vapor Extraction (SVE) piping system will address both soil and groundwater contamination at Site 278
- Existing monitoring wells 278-MW-13D and 278 MW-16D will be modified to AAS wells
- It is anticipated that a 30-foot radius of influence will be achieved from each AAS well

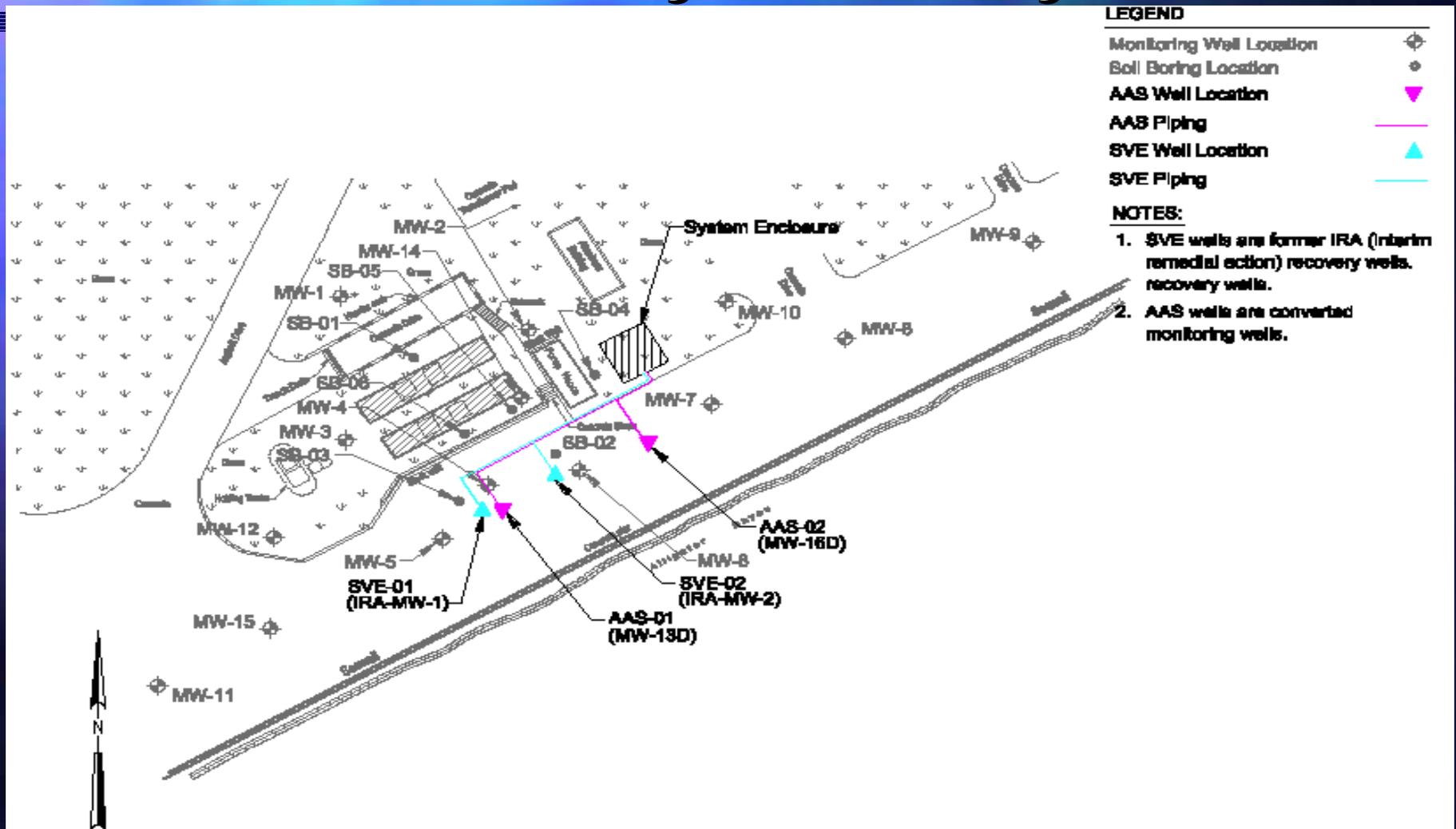
Site 278 Remediation System

- AAS wells will be piped underground and manifolded to a compressor feeding approximately 25 standard cubic feet per minute (scfm) of air to each of the two AAS wells at 15 pounds per square inch (psi)
- Globe valves will be used for flow control to each of the two AAS lines

Site 278 Remediation System

- Existing vapor extraction wells (IRA-MW-01 and IRA-MW-02) will be modified and used as passive SVE wells
- Wells will be piped underground near the system components and manifolded, providing a preferential path for off-gases to vent to the atmosphere

Site 278 System Layout



Site 325 Remediation System

- An AAS system and a SVE system will address identified soil and groundwater contamination at Site 325
- Existing Vapor Enhanced Extraction (VEE) wells will be modified into SVE wells by grouting the wells above the water table and modifying each wellhead and associated field piping

Site 325 Remediation System

- Wells will be individually piped underground and manifolded to an SVE blower extracting a total of 450 scfm of off-gas from the vadose zone soils (approximately 112 scfm per well) at 60 inches of water
- Gate valves will be used for flow control for each of the four SVE well lines

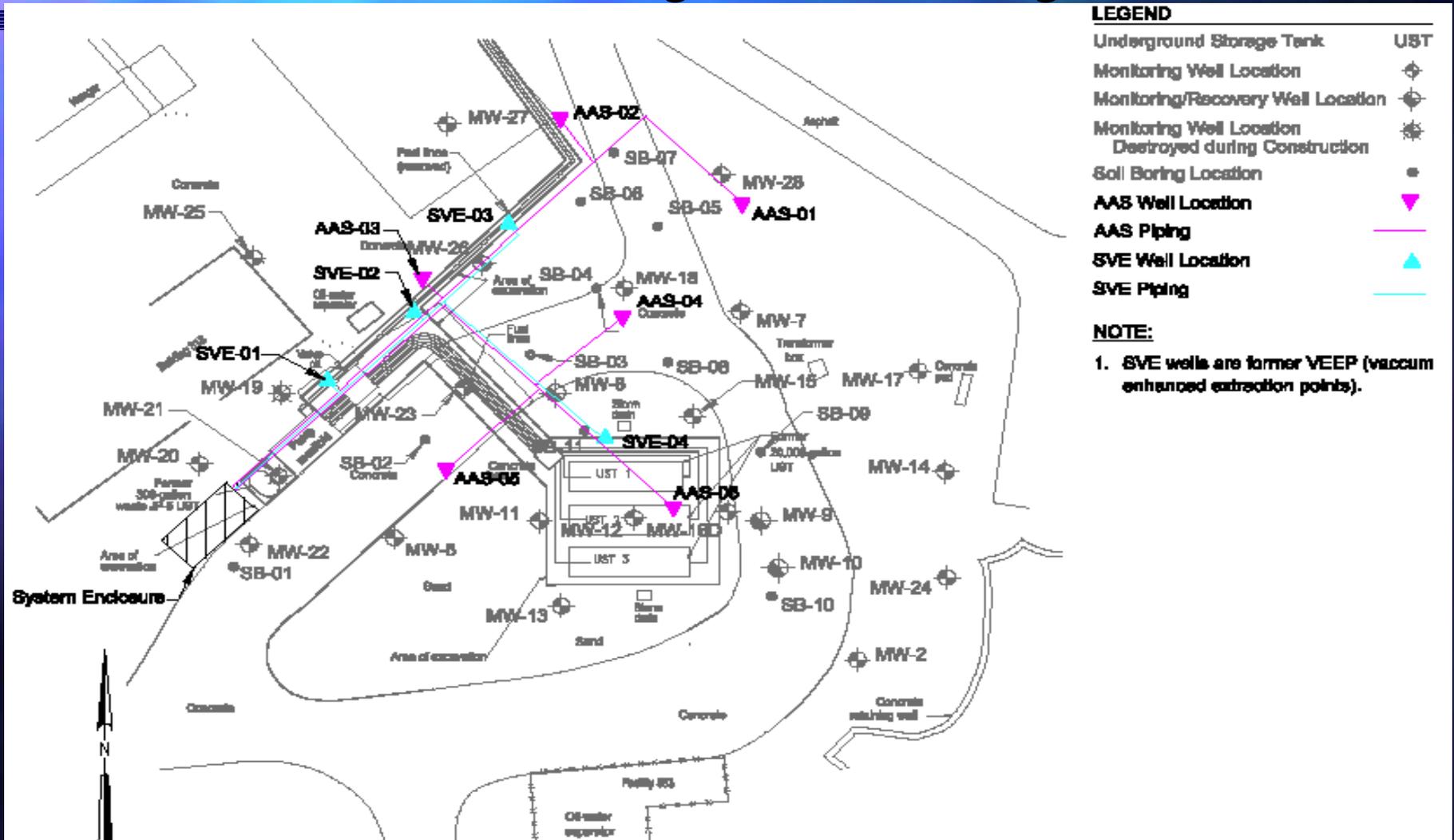
Site 325 Remediation System

- Six, two inch diameter AAS wells will be installed to a depth of approximately 36 feet below land surface (bls)
- Each well will be screened from 34 to 36 feet bls
- It is anticipated that a 40-foot radius of influence will be achieved from each AAS well

Site 325 Remediation System

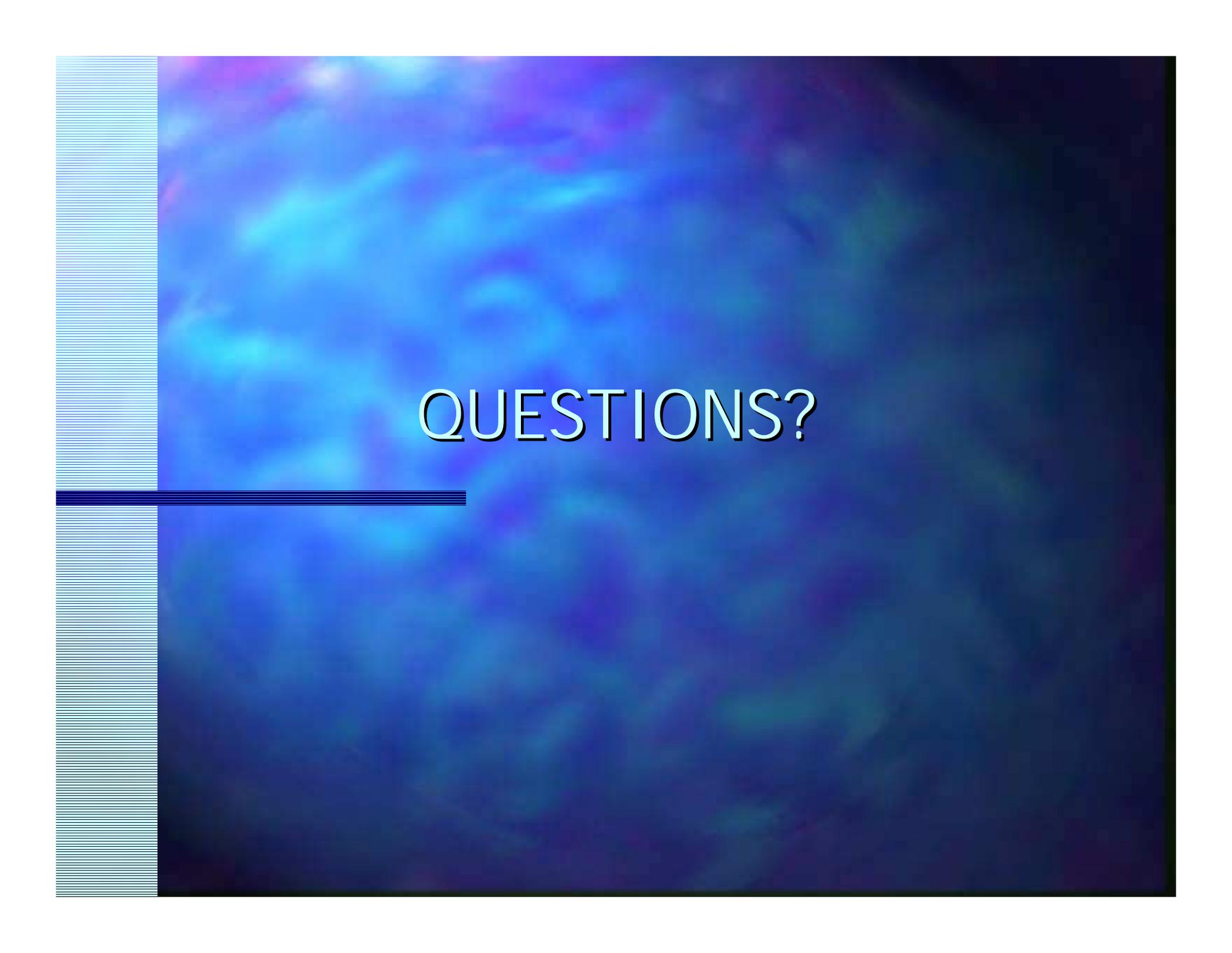
- A compressor will feed approximately 50 scfm of air (approximately 300 scfm total) to each of the six AAS wells at 25 psi

Site 325 System Layout



Action Items

- Operate systems for one year, collecting groundwater, air and systems operation data
- After one year of operation, evaluate system performance and modify system operations in order to optimize remediation efforts at Sites 278 and 325



QUESTIONS?

Coastal Systems Station Panama City
UST Update
August, 2002 Partnering Meeting

Site G300 - A SAR was submitted in August 1997. A SAR Addendum was submitted in December 1998 recommending Natural Attenuation Monitoring for the site. A MOP was approved by the FDEP and the first semi-annual monitoring event was conducted in June 1999. The second semi-annual monitoring event was conducted in November 1999. During the November 1999 sampling event, free product was detected in the source well (PCY-300-MW01) at a thickness of approximately 1.05 feet. The second semi-annual monitoring report recommended that free product recovery be initiated and a risk assessment be performed. The FDEP issued a response requesting that additional assessment be conducted.

Free product recovery was initiated in April, 2001. Free product recovery was discontinued in November, 2001 when recharge rates decreased significantly. A groundwater sampling event was conducted in March, 2002. The results of the groundwater sampling event indicate that free product has returned the source well (thickness of approximately 0.7 feet). However, no free product was detected in any of the other wells and dissolved hydrocarbon concentrations remain below GCTLs in all of the perimeter wells. Based on the results of the groundwater sampling event, interim free product recovery will be resumed and a RAP will be prepared to address free product at Building G300.

Site 333/AOC2/SWMU1 - A CAR was submitted for Site 333 in February 1997. No excessively contaminated soil was detected. Dissolved hydrocarbon concentrations exceeded the GCTLs in some wells. Overpumping of these was performed in June 1997. The wells were resampled and the CoC concentrations were below the GCTLs, however, while the report was in preparation a product release occurred in Alligator Bayou and it was agreed to cancel preparation of the report. A letter was then submitted to the FDEP notifying them that the Site 333 investigation would be combined with the AOC2 investigation.

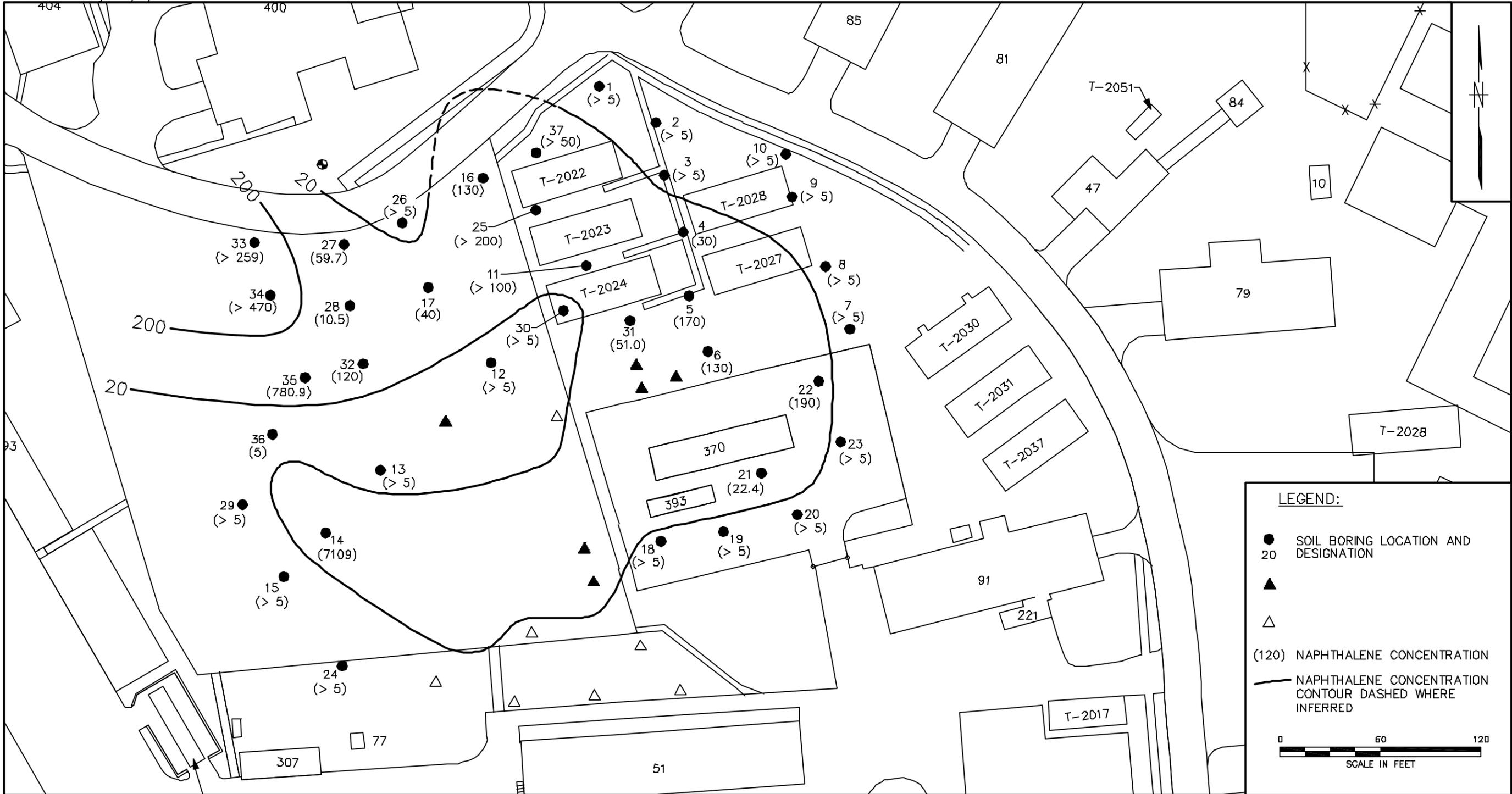
A DPT investigation was conducted in May 1998. Monitoring well installation and sampling was conducted in September and October 1998. A Preliminary Assessment Report (PAR) was submitted in December 1998. Additional soil and groundwater sampling was conducted in August and September 1999. A PAR Addendum was submitted in November 1999. The PAR Addendum recommended that Site 333 and AOC2 be combined into one site investigation and that a closure assessment be performed on the AOC2 product line. In addition, the PAR Addendum recommended that additional assessment be performed to delineate the extent of free product detected in monitoring well PCY-AOC2-MW07, and determine the source of the free product if possible. Additional assessment activities were conducted in August 2000. A PAR was submitted in September 2000. The PAR indicated that the dissolved hydrocarbon plume and free product plume were more extensive than originally estimated. The PAR recommended that a pipeline closure assessment be conducted, followed by additional groundwater assessment to delineate the extent of free product and dissolved hydrocarbons.

A geophysical survey was conducted by Florida Spill Response Corporation (FSRC) in February 2001 to locate buried portions of the fuel lines associated with AST 11. The survey identified an abandoned 6 inch transfer line and two 3 inch transfer lines. Following the geophysical survey, the ends of the identified pipelines were excavated for cleaning and capping. During the pipeline cleaning process, a vacuum truck was used to remove the contents of lines. Water was recovered from the 6 inch transfer line, but no petroleum product was present. One of the two 3 inch transfer lines was empty but the other 3 inch line contained approximately 100 gallons of diesel fuel. The exposed ends of the pipelines were grouted and the excavations filled.

Following the pipeline cleaning, a closure assessment was conducted on the portions of the pipeline identified during geophysical survey. A Pipeline Closure Assessment Report (PCAR) was submitted to the Bay County Health Department in December, 2001. The PCAR indicated that petroleum products' contaminants of concern exceeded the target levels in soil and groundwater in the vicinity of the former location of Tank 11. The PCAR concluded that the contamination was likely the result of releases from Tank 11 and not associated with the transfer lines. The PCAR recommended that additional assessment be conducted to delineate the petroleum impacted soil and groundwater in the vicinity of Tank 11. The Navy has issued a SOW for the additional assessment and a POA is in preparation.

In June, 2002, subsequent to FDEP approval of the PCAR, 36 additional DPT soil borings were installed to further delineate the petroleum impacted soil and groundwater at the site. Soil samples were collected from each boring for screening with an OVA and on-site analysis by a mobile lab. In addition, groundwater samples were collected from each boring for on-site analysis by the mobile lab. Based on the data collected during this investigation, the apparent extent of the dissolved hydrocarbon plume appears to be defined in all directions except to the north and north west. The data suggests that another source area may exist to the north of the site in the vicinity of Building 400. After some research it was discovered that a fuel dispensing facility was formerly located in this area (SE of Building 400). Based on this information, 26 additional hand auger soil borings were installed in the vicinity of Building 400. Soil samples were collected from these borings for screening with and OVA. The OVA results suggest that the soil and groundwater have been impacted in the vicinity of Building 400 (near the former USTs associated with the former gas station).

Based on the results of the DPT/hand auger investigation conducted in June, 2002, 11 water table and one vertical extent monitoring well were installed the week of August 12, 2002. The monitoring wells are scheduled for sampling the week of August 19, 2002. Subsequent to sampling of the monitoring wells, a letter report will be prepared summarizing the results of the investigation and providing recommendations for future actions.



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY	DATE
MF	8/19/02
CHECKED BY	DATE
COST/SCHED-AREA	
SCALE	
AS NOTED	



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