

N62604.AR.001551
NCBC GULFPORT
5090.3a

TIER I MEETING MINUTES AND PRESENTATION SLIDES 24 MAY 2010 NCBC GULFPORT
MS
5/24/2010
TIER I MEETING MEMBERS

**MINUTES
NCBC GULFPORT TIER I MEETING
GULFPORT, MISSISSIPPI**

MAY 24 – 25, 2010

MEETING ATTENDEES

Team Members:

| | |
|-----------------|---------------------------------------|
| Bob Merrill | MDEQ, State RPM |
| Greg Roof | Tetra Tech NUS, Inc., Project Manager |
| Gordon Crane | NCBC Gulfport, IRP Manager |
| Robert Fisher | Navy RPM |
| Nancy Rouse | The Management Edge, Facilitator |
| Debra Humbert | Tier II, Tetra Tech NUS, Inc. |
| Jon Overholtzer | CH2M Hill, Project Manager |

Guests:

| | |
|-------------------|---|
| Bill Olson | Tetra Tech NUS, Inc., Project Scientist |
| Jacqueline Strobl | Tetra Tech NUS, Inc., Scribe |

1. 1ST DAY CHECK-IN (TUESDAY, MAY 24, 2010)

Welcome and Administrative:

- Announcements: Gordon Crane will not be able to attend the first half of today's meeting. The agenda will need to be revised in order to accommodate his absence.
- Team Check-In/Introductions: Each meeting attendee took a turn providing a brief personal update.
- Proxies/Guests: None.
- Review Agenda: The meeting agenda was distributed and reviewed; an agenda scheduling error concerning the time allotted for the lunch break was noted. The team briefly discussed additional topics to cover. Topics to be led by or requiring the involvement of Mr. Crane were moved to allow for his absence from the first half of today's meeting. Revisions to the agenda were discussed and finalized.
- Personnel Updates: Jacqueline Strobl will continue to be involved with the NCBC Gulfport Partnering Team as a scribe. Yariisa Martínez's status/role on the team has changed; Mrs. Martínez will be utilized as a technical resource.

2. BREAK

3. REVIEW ACTION ITEMS

The team reviewed the action item list, noting completed items and updating information corresponding to ongoing action items (see table below). Shaded rows have been noted as "Completed" and will be removed from the Ongoing Action Items Table prior to the next action item review.

| Action Item No. | Responsible Party | Status | Due Date | Action Item | Comments |
|-----------------|---------------------|----------|----------|---|---|
| A-0210-01 | G. Crane | Ongoing | 3/2/10 | Determine fencing standards for 8B&C. | The fencing currently meets NAVFAC standards. This is an ongoing base issue. |
| A-0210-02 | N. Rouse & G. Crane | Complete | 2/12/10 | Determine details concerning cost/availability for RAB relocation. | RAB Meeting Review/ Community Relations Path Forward to be discussed per the scheduled agenda topic. The RAB Meeting will be relocated to the Isaiah Fredricks Community Center. |
| A-0210-03 | N. Rouse | Complete | 2/12/10 | Contact each RAB member to determine continuing interest and scheduling for the next proposed meeting date. | RAB Meeting Review/ Community Relations Path Forward to be discussed per the scheduled agenda topic. |
| A-0210-04 | G. Roof | Complete | 2/5/10 | Contact AR specialist (Glen) for input concerning the AR. | Tetra Tech is beginning AR compilation. |
| A-0210-05 | R. Fisher | Complete | 2/12/10 | Remind Kerstin about the Alvin B. Young collection. | Discussion with Kerstin (Department of Justice) has been ongoing |
| A-0210-06 | G. Roof | Complete | 2/12/10 | Pick up state correspondence from Mr. Fisher. | |
| A-0210-07 | R. Fisher | Complete | 2/18/10 | Discuss the MOA and LUC RD for Site 5 with Steve Beverly. | The Florida MOA was used as a model. Steve Beverly has provided a Draft MOA for Mr. Fisher. |
| A-0210-08 | G. Crane | Overcome | 2/26/10 | Complete Site 5 LUC RD review. | This Action Item has been overcome by events/new direction. |

These minutes are a summary based on informal notes taken at the meeting. They are not intended as a verbatim transcript and may not have captured everything that was discussed.

| Action Item No. | Responsible Party | Status | Due Date | Action Item | Comments |
|-----------------|-------------------|----------|----------|--|--|
| A-0210-09 | B. Merrill | Complete | 2/12/10 | Provide Air Force MOA to Navy. | |
| A-0210-10 | R. Fisher | Overcome | 3/26/10 | Fund 5-year Review. | |
| A-0210-11 | G. Roof | Complete | 2/12/10 | Review RD for Site 4 with Bob Mertz. | |
| A-0210-12 | J. Overholtzer | Complete | 2/3/10 | Send base irrigation design to Tetra Tech. | |
| A-0210-13 | R. Fisher | Complete | 2/12/10 | Determine whether this area will continue to be utilized as a golf course long term. | |
| A-0210-14 | G. Crane | Complete | 2/12/10 | Provide original golf course design (if available) to Tetra Tech. | |
| A-1109-02 | R. Fisher | Overcome | | Contact Earl Bozeman to determine the proper USEPA contact. | Corresponds to previous Action Item # A-0809-08 (also overcome by events). New Action Item A-0510-02: Debbie Humbert will work with Tier II to address EPA CERCLA involvement. |
| A-1109-04 | R. Fisher | Complete | | Send email to the Team to describe the phases and dates for Low/Medium/High. | R. Fisher will resend email to the team. |
| A-1109-06 | N. Rouse/Tier II | Ongoing | | Provide the process for stepping down Tier I to the next partnering level. | Long-term planning concerning Tier I Partnering will be discussed during the next Tier II meeting. This should be covered in the next Tier II update. |

These minutes are a summary based on informal notes taken at the meeting. They are not intended as a verbatim transcript and may not have captured everything that was discussed.

| Action Item No. | Responsible Party | Status | Due Date | Action Item | Comments |
|-----------------|---------------------------|----------|----------|---|---|
| A-0809-10 | Y. Martínez & N. Rouse | Ongoing | 11/15 | Discuss the issue of public meetings & review requirements. | RAB Meeting Review/ Community Relations Path Forward to be discussed per the scheduled agenda topic. Resolution concerning this action item has been put on hold until the team determines how to move forward with the RAB. |
| A-0509-02 | R. Fisher | Complete | 6/4/09 | Verify the correct process (is there something needed for the landowner to close the investigations) to close the investigation (final step) for Canal Road with Steve B. | All Steve Beverly concerns are merged together per B. Fisher's request. Currently on hold (02/02/10). |

These minutes are a summary based on informal notes taken at the meeting. They are not intended as a verbatim transcript and may not have captured everything that was discussed.

Additional details/discussion related to specific ongoing actions items are noted below.

Action Item A-0210-01: It was noted that the golf course is to cease operations this year. MWR has plans to replace the golf course with a recreational area, which includes a 4-hole golf "experience". The plan includes continuing to use Site 4 area as a golf course feature. There are plans to use the land west of Colby as a paintball course. Mr. Fisher provided a figure concerning the projected plans for team review. The possibility of the station creating a simulated warfare area is under discussion. The Navy is currently in the process of trying to purchase the Arndt property. It was also noted that the cover for Sites 1, 2, and 7 would need to incorporate changes to the training area. The western half of the base is rapidly changing.

Action Item A-0510-01: Greg Roof – Contact Bobby Miller about the Site 4 golf course greens and irrigation. (Due 7/2/10)

A-1109-02 (formerly A-0809-08): Debbie Humbert is currently working with the EPA to determine if there will be a Tier II contact. Bob Merrill noted that MDEQ's specific concern was who to copy on information corresponding to CERCLA.

Action Item A-0510-02: Debbie Humbert – Work with Tier II to address EPA CERCLA involvement. (Due XX/XX/10)

A-0509-02: Mr. Merrill noted that MDEQ had wanted to determine if there were drums buried on the property north of the base in locations reported by local residents. Robert Fisher replied that the NAVFAC legal department has stated that beginning a physical search for the drums without documentation would appear to be accepting responsibility. At this time, the Navy is not planning to perform any off site investigations, unless documentation of the drums is provided.

4. NCBC GULFPORT UPDATE

Mr. Fisher provided the update on the NCBC Gulfport facility noting the following:

- There continues to be a lot of ongoing construction on base.
- The RAC 5 contract was awarded to Shaw.
- Shaw will not be involved with the NCBC Gulfport Partnering Team until Tetra Tech provides a draft design, which will likely occur next year.
- Awareness concerning requirements for base passes was stressed; security requires a minimum of 5 days to process access paperwork.

5. NAVFAC RPM UPDATE

Mr. Fisher provided a NAVFAC RPM update noting:

- NAVFAC is nearly ready to begin funding for both NCBC Gulfport and NAS Meridian. Tetra Tech is not finished at NAS Meridian; any new investigation will incorporate Tetra Tech. Tetra Tech has not been removed from the team, but is on hold pending additional work/funding.
- Funding for LTM at Gulfport has been added.
- Aerostar won the LTM contract; the contract starts next week and includes Sites 5 and 10.

Parking Lot: Aerostar NCBC Gulfport Partnering Team involvement.

6. LUNCH

7. AGENDA REVIEW

The team reviewed the remaining agenda item topics and adjusted the schedule accordingly. The RAB Meeting Review/Community Relations Path Forward topic was moved to Day 2.

8. SITE 6 QUARTERLY MONITORING REPORT

Bill Olson provided a presentation on the Site 6, Fire Fighting Training Area, quarterly monitoring event/report. At the time of the last partnering meeting, Tetra Tech had just completed a quarterly sampling event, but had not yet received the data. The following background information was noted:

- Two remediation systems have been installed and subsequently removed from the site.
- Post remedial action monitoring took place in February and August 2005; free product was still present at the site at that time.
- LTM has been in progress since 2008. There have been 6 LTM events: 4 in 2008, 1 in 2009, and 1 in 2010.

Mr. Olson displayed a site figure noting that GPT-6-9 is screened deeper, is farther away, and is somewhat cross gradient. He went on to note that in January 2010, the water level was nearly 2 feet higher than in October 2009. COC and LNAPL trend diagrams indicated the water level changes have had a significant effect on each with increasing concentrations as water levels decrease. Mr. Olson also suggested that the vinyl chloride area might have a smaller source area.

It was noted that the monitoring wells for the southern pit did not show quite the same trend.

The Site 6 Quarterly Monitoring Report recommendations are to continue the groundwater monitoring program. Site conditions could be sufficiently monitored on a semiannual basis.

The team briefly discussed the possibility not sampling wells with LNAPL, proposed semiannual sampling schedule, the removal of GPT-6-9, and the placement/installation of 3 additional wells.

Consensus Item C-0510-01: Reduce sampling at Site 6 to semiannual monitoring.

Consensus Item C-0510-02: Sample only wells without product at Site 6.

Consensus Item C-0510-03: Discontinue sampling of GPT-6-9 and add 3 new wells and a surface water gauging station at Site 6.

The team discussed details concerning placement and construction of the northernmost well; the preference for flush mounted wells was noted.

9. REVIEW EXIT STRATEGY/LONG & SHORT TERM GOALS

Mr. Fisher led the team in a site-by-site review of the exit strategy; the most recent changes are noted by boldface (see attached).

SITE 3: NORTHWEST LANDFILL/BURNING PIT

- Tetra Tech recently sent the FS to Mr. Fisher for internal Navy review.
- PP and Public Meeting dates will need to be determined/finalized.
- The projected DD date was changed to 09/30/10.

- This site is considered a high priority.
- A plan for long-term site use is as a grass field.

SITE 4: GOLF COURSE LANDFILL

- Tetra Tech DD is currently in internal review; delays were encountered in determining what regulatory requirements to follow.
- The projected DD date was changed to 06/30/10.
- RIP Baseline date was changed to 09/30/10.
- RIP Projected date was changed to 09/30/10.

SITE 8: HERBICIDE ORANGE STORAGE AREA

- It was noted that though the Navy is not tracking 8B & 8C separately.
- The projected DD date was changed to 01/30/11.

SITE 10: PCB IN THE DITCH

- It was noted that this was funded as a remedial action operation.
- The DD date of 9/30/10 was noted as actual.

The team discussed and decided that the station's first 5-Year Review would be completed by 12/30/10. The 5-Year Review will include Sites 5, 6, and 8.

10. BREAK

11. SITE 4 DESIGN UPDATE

Greg Roof presented a Site 4 design update to the team. It was noted there is not significant change and, as far as the state should be concerned, the design is still a landfill cap. Mr. Roof noted that everyone should have received the corresponding size D figures. Mr. Merrill noted that he had not received the figures.

Action Item A-0510-03: Greg Roof – Check FedEx tracking info corresponding to the Site 4 RD package sent to Bob Merrill. (Due XX/XX/10)

Mr. Roof provided figures displaying the following:

- Planned landfill gas collection area, which will be along the southern perimeter of the site
- EM61 Survey with magnetometer readings
- Groundwater plume, which includes TCE and all breakdown products (it was noted that breakdown products in the western section of the plume are a little hotter).
- Site and LUC boundary lines.
- Planned future site use.
- Landfill cover limits and details
- Sloping, specifically noting the eastern/southern edge details.

The only substantial change is the gas collection trench. The team discussed the design further noting that CH2MHill is hoping to begin as soon as possible, preferably within the next 60 days. It was noted

These minutes are a summary based on informal notes taken at the meeting. They are not intended as a verbatim transcript and may not have captured everything that was discussed.

that the RD was, technically, still considered to be in draft form. Further discussion concerning the proposed design regarding the landfill gas management and the maximum hydraulic conductivity led to the following decision:

Consensus Item C-0510-04: As long as the maximum vertical hydraulic conductivity of the infiltration layer is less than or equal to 10^{-5} , construction of the Site 4 cap will begin prior to completion of the final design.

Further discussion concerning warning sign placement ensued. Mr. Crane noted that having several points for signs adds to the costs of grounds maintenance. Mr. Fisher suggested that the warning signs be posted on the bridges.

12. AGENDA REVIEW

The team reviewed the remaining agenda item topics. It was decided that a Tier II update discussion was not necessary.

13. INFORMAL REGULATORY DISCUSSION

Mr. Roof noted that he had received a comment from the Tetra Tech technical focal point asking why NCBC Gulfport was using a CERCLA Presumptive Remedy instead of the CERCLIS regulatory guidance. Mr. Roof requested clarification on whether or not NCBC Gulfport was a federal CERCLA site. Further discussion led to the statement that this site could be called a nonNPL CERCLA site, being remediated under the IRP, which follows the CERCLA rules and guidance.

Action Item A-0510-04: Robert Fisher – Discuss regulatory driver language with Steve Beverly. (Due XX/XX/10)

14. REVIEW DAY 1 ACTION & CONSENSUS ITEMS

The scribe read the Day 1 Action and Consensus Items aloud to the team.

15. TEAM BUILDING

16. 2ND DAY CHECK-IN (WEDNESDAY, MAY 25, 2010)

Announcement: Gordon Crane will be unable to attend today's meeting due to illness. Each meeting attendee provided a brief personal update.

17. ROUND TABLE DISCUSSION

Outstanding Actions/Loose Ends:

Mr. Fisher led the round table discussion; the team reviewed the remaining agenda item topics and parking lot items, then adjusted the schedule accordingly.

Mr. Fisher briefly noted that the RIP dates and the Navy's desire to close everything out by 2014 put things with NCBC Gulfport's IR sites in a difficult position.

Action Item A-0510-05: Robert Fisher – Discuss post ROD significant changes at Site 8B&C with Steve Beverly. (Due XX/XX/10)

Parking Lot:

Aerostar NCBC Gulfport Partnering Team involvement.

Aerostar's new LTM contract begins next week. The team briefly discussed whether to incorporate Aerostar into the NCBC Gulfport Partnering Team as members, adjunct members, or guests. Mr. Fisher noted that requiring Aerostar to attend quarterly meetings would require a contract modification and expressed a preference to keep them as guests for now.

Consensus Item C-0510-05: Aerostar will be invited to participate in future Tier I Partnering Meetings as a guest when appropriate.

Action Item A-0510-06: Robert Fisher – Contact Aerostar and invite them to the next meeting. (Due XX/XX/10)

Site 3 PP public meeting date scheduling.

Mr. Merrill requested clarification on the rush and process. Mr. Fisher explained that the rush corresponded to a program deadline; the process is RI → FS → PP → Public Meeting. Mr. Merrill asked whether the RI review would be required to be completed prior to the public comment period. Mr. Fisher stated that the Navy preferred stated involvement to the end, but that it was not necessary for MDEQ to have the RI completely reviewed prior to the public meeting.

FS: The hydraulic conductivity of the cap will be less than 1×10^{-5} ; the presumptive remedy will be used.

PP: The focus of the PP will be on the presumptive remedy approach.

Public Meeting: The team discussed scheduling. Mr. Fisher stated that he would need to have something to look at by the June 7th or 8th, even if it was still in draft form, since he would be taking vacation. Mr. Roof responded that the plan was for Mr. Olson to complete the DD no later than June 25th, then to distribute the internal draft to NAVFAC by July 9th. Mr. Fisher noted that there might be issues concerning who will need to sign the document due to an upcoming change of command. It was estimated that it would take a month to get the document signed. The team decided on a Public Comment Period of July 19th to August 19th. The Public Meeting will be held on July 19th.

18. SITE 7 DQOs

Guest Peggy Churchill arrived to facilitate the Site 7 DQO discussion.

Mr. Roof and Ms. Churchill provided a presentation on the Site 7 Rubble Disposal Area (see attached power point presentation).

Mr. Roof began the presentation noting that boundary lines for Site 7, which is located north of Site 2, was adjusted after review of older documents related to the site. Since both Site 7 and Site 2 will need to be addressed, it is unlikely that this will change anything significantly.

A summary of the previous investigations and their corresponding findings and recommendations was provided and noted the following:

Initial Assessment Study (NEESA, 1985)

The IAS determined that the landfill, which had been in use from 1978 to 1984, was approximately 3 acres in size. At that time, no further study was recommended. Recent review has led to the conclusion that it may be that Site 2 actually extended much further north than originally thought. A geophysical survey will be conducted for both Site 7 and Site 2. The survey for Site 7 will extend all the way to the concrete drainage area.

These minutes are a summary based on informal notes taken at the meeting. They are not intended as a verbatim transcript and may not have captured everything that was discussed.

Brief discussion took place on whether any surface water/sediment samples were necessary at the concrete drainage area location. Mr. Fisher stated that surface water/sediment samples should be collected.

Verification Study (HLA, 1987)

The Verification Study stated that there was no evidence of chemical disposal and recommended no remedial action. Confirmation sampling had been recommended due to detected chlorinated organic contaminants.

Brief discussion concerning why Site 2 and Site 7 were separated noted that there had been reason to believe the sites were used at different time periods and with different uses; though they will be treated as separate sites, there may be no hard line separating the two.

Basewide Groundwater, Surface Water, and Sediment Field Sampling (ABB, March 1995)

The basewide groundwater, surface water, and sediment field sampling events included the installation and sampling of three monitoring wells near Sites 2 and 7. The results prompted a recommendation for further investigation of Sites 4 and 5 as well as an additional investigation of Site 7 due to a TCDD detection exceeding MCLs.

Groundwater Monitoring Report (HLA, December 1999)

It was noted that the Groundwater Monitoring Report only included one well from Site 7. Mr. Fisher stated that while the Phase 2 investigation had determined that this well contained 51.6 ppq dioxin with an estimated 25 ppq attributed to TCDD, the main HO dioxin congener, there was question whether this was an accurate result due to a lack of down gradient wells. When this well was re-sampled, the result was non-detect.

It was noted that approximately 2,000 HO steel drums had been crushed on site, but there was no evidence showing they left the base. There had been stories that the drums were smelted, but there is no official paper work to back that up. This supposedly occurred in 1978, which corresponds to when the landfill was active; the concern is that these drums may have been disposed at the landfill.

Site 7 Dioxin Groundwater Investigation (Harding ESE, 2001)

The Site 7 Dioxin Groundwater Investigation included a geophysical survey and DPT investigation. The corresponding report was completed by ABB. Of eight samples collected, only two had detections of methylene chloride.

Action Item A-0510-07: Greg Roof – Send the 2000 ABB Groundwater Investigation Report for Site 7 to Bob Merrill. (Due XX/XX/10)

Mr. Roof concluded his portion of the presentation concerning previous investigations and turned the presentation over to the DQO Facilitator, Ms. Churchill.

Problem Statement:

Ms. Churchill noted that it had already been accepted that the presumptive remedy was appropriate, but asked whether anything would need to be changed due to the chlorinated solvents. It will be necessary to confirm that nothing has migrated from Site 7. A determination will need to be made concerning what kind of cover will be necessary.

Mr. Fisher noted that the problem statement should mention something about the waste disposal boundary. The text was modified to say the following:

“Because of these site characteristics, the Site 7 landfill is appropriate for the application of the Presumptive Remedy for CERCLA Municipal Landfill Sites (USEPA, 1993). A streamlined RI must be conducted to define the landfill boundary and determine if contamination is migrating from the site and if any unacceptable human or ecological risk from exposure to contaminated site media exists. Data gathered from this investigation will also be used to support landfill cover assessment and design, which will be presented in the Feasibility Study (FS).”

Information Inputs:

- Geophysical Survey
- Passive Soil Gas Survey
- Landfill Gas Survey
- PID Subsurface Soil Screening
- Groundwater Field Parameters
- Chemical Data
- Project Action Limits

Ms. Churchill stated the information inputs determine the information used to make decisions. The study goal and decision statement have now been combined into one step. These information inputs include all the data gathered to create the RI. PALs are the screening values used to determine if contamination is present. The existing data collected during the survey should be used instead.

Study Area Boundaries:

A figure of the 100' X 100' grid over the area to be investigated was displayed for the team. Mr. Fisher stated that a random sampling grid approach seemed unnecessary considering the survey data will be collected first. The first step will be to determine the boundaries, the next will be to determine the boundary conditions; the plan does not include investigation of the hot spots, so there would be no point in approaching things this way. Mr. Roof replied that the grid would only be utilized for the GORE-SORBERS®. There are no plans to define any soil or groundwater sample locations until the GORE-SORBERS® data is received.

Ms. Churchill noted that the populations of interest needed to be described. The team discussed the vertical boundary definitions. It was noted that this depth would need to describe the top and bottom of the disposal cell. The vertical boundary definitions were revised as follows:

- The vertical boundary for soil extends to a depth of 40 feet below land surface (bls).
- The vertical boundary for groundwater includes the depth to the surficial aquifer, which is approximately 40 feet bls.

Mr. Roof stated that cross section information showing where the clean fill starts, the landfill, and the bottom of the landfill would need to be collected/tested.

Action Item A-0510-08: Gordon Crane – Provide Tetra Tech with pre- and post-golf course construction topographic maps. (Due XX/XX/10)

Characterization Rules:

Waste Characterization Decision Rule: The Waste Characterization Decision Rule was displayed for the team to review. Mr. Fisher noted that the presumptive remedy does not preclude the addition of nonpresumptive remedy treatments (for example, on small cells).

Containment Decision Rule: The Containment Decision Rule was displayed for the team to review. It was noted that the goal determine the edges of the landfill to create the boundary, data will continue to be collected until an accurate boundary is determined. Investigation of the potential for contaminant migrations will need to be delineated as well. The containment focus goal is to determine where the edge of the cap will be.

Risk Assessment Decision Rule: The Risk Assessment Decision Rule was displayed for the team to review. Ms. Churchill noted that this was a typical Risk Assessment Decision Rule, with the addition of additional remedy components if migration is determined. The guidance allows for LUCs or even treatment routes if necessary.

Sampling Approach:

- Event I: Geophysical survey
- Event II: Soil Gas & Landfill Gas Survey,
- Event III: Subsurface soil samples, sediment samples, surface water samples, and groundwater samples will be collected based on Event II findings
- Event IV: Based on Event III sampling additional sampling may be performed.

Mr. Fisher noted that concerning the surface water and sediment samples, it should be understood that the ditch was completely stripped out in 2004. Because of the possible drum disposal issue, surface water and sediment samples will need to be analyzed for dioxin. If we do get hits of dioxin, the complication will be in determining whether it came from Site 7 or Site 8. Mr. Fisher suggested moving a little upstream in order to make the comparison.

Mr. Roof noted that Site 2 and Site 7 had been a part of the MRP investigation and asked whether the corresponding report had been received. The concern was whether the findings might push this out of the presumptive remedy path. Mr. Fisher stated that he had not yet received the MRP report.

19. BREAK

20. RAB PATH FORWARD

Nancy Rouse led the team in discussion concerning the RAB Path Forward noting that it was unfortunate that Mr. Crane was unable to attend since they had not yet compared notes. Ms. Rouse informed the team that the RAB was down to 11 members, 10 of which come occasionally, and only 6 or 7 of which come regularly. Though the RAB used to be larger, these numbers are not unusually low. This is still a substantial RAB compared to most. All RAB members polled felt that the RAB meetings should continue to be held either on a quarterly or as needed basis.

Ms. Rouse went on to state the main point that should be noted is that the RAB does want to continue. While the RAB stated that they liked the Westside Community Center better than the previous meeting location, there was poor attendance. It was suggested that this might be due to safety concerns.

Ms. Rouse noted that she had asked the RAB members about there meeting day of the week and time of the day preferences. The RAB members have stated that they would prefer to continue meeting on Monday nights and that they liked the earlier schedule.

Ms. Rouse stated that she had been informed that the populated area to the north of the base had greatly increased in size since Hurricane Katrina, and most of these people were unaware of the RAB. A recommendation was made to attempt to increase attendance by going door to door to advertise the meeting. Ms. Rouse also recommended updating the community relations plan. Concerns were expressed on presenting information in a door-to-door campaign. The approach must be balanced to inform without creating unnecessary alarm.

Ms. Rouse stated that she was hoping to conduct a survey of the community and see how/if they want to stay informed about the process. Ms. Rouse noted that people had expressed interest in updates via email or a website. Ms. Rouse also stated Mr. Crane had expressed he did not have the necessary information to provide to the press and suggested a press packet should be put together.

A determination on whether the community relations plan should be updated was not made. The last official community relations plan was compiled in 1997.

21. EGIS

Mr. Roof stated that an EGIS agenda topic was not necessary for team discussion; Mr. Roof will discuss EGIS separately with Mr. Fisher at another time.

Mr. Roof briefly noted he had created a table to track the NCBC Gulfport reports status. The table will show the current stage of each document.

22. NEXT TIER I MEETING AGENDA

The team discussed the possibility of transferring the meeting to a different location. The accommodations and attitude of the personnel at the current location has been lacking. A brief discussion took place concerning what amenities/accommodations were important to the team members.

Action Item A-0510-09: Greg Roof – Tetra Tech will find a new meeting place location. (Due XX/XX/10)

Proposed Agenda Topics - Tier I Partnering Meeting (August 10-11, 2010):

- Site 8B&C
- Site 3
- Site 4 Kickoff (Remedial Action)
- Site 2 (Field Investigation)
- Site 7 (RI)
- Aerostar – LTM
- Site Tour (windshield)

23. PLUS/DELTA

MEETING REVIEW

| + (pluses) | Δ (deltas) |
|---|--|
| Team building exercise A lot got accomplished DQO process went well Bill's presentation Team gets along well Humor | Greg didn't get "initiated" Meeting room was not upgraded yet Need to mind the ground rules Carpet glue smell |

23. FACILITATOR FEEDBACK

Ms. Rouse provided facilitator feedback noting there had been a lot accomplished during this meeting; the Site 3 DD schedule was ironed out, the Site 7 DQO was focused, issues concerning Site 2 were aired, Site 6 LTM optimization details were determined; and the team-building event went well. Ms. Rouse also commented she had enjoyed the use of humor to bring people back to the main points of the discussion, and she appreciated that people stuck around for the team building function, The only suggestion was that team members may want to work a little harder on getting here on time and getting back from breaks on time.

24. CLOSE MEETING/LUNCH

25. PARTNERING/FACILITATOR EXERCISE

The NCBC Gulfport and NAS Meridian facilitator training sessions were merged to avoid repeating the presentation to those who are members of both teams.

Nancy Rouse distributed handouts for her facilitator training session entitled, "Crucial Conversations". Ms. Rouse noted that the training session had been adapted from the book *Crucial Conversations: Tools for Talking When Stakes are High* by Kerry Patterson, Joseph Grenny, Ron McMillan, and Al Switzler.



TETRA TECH

SITE 6 NCBC Gulfport

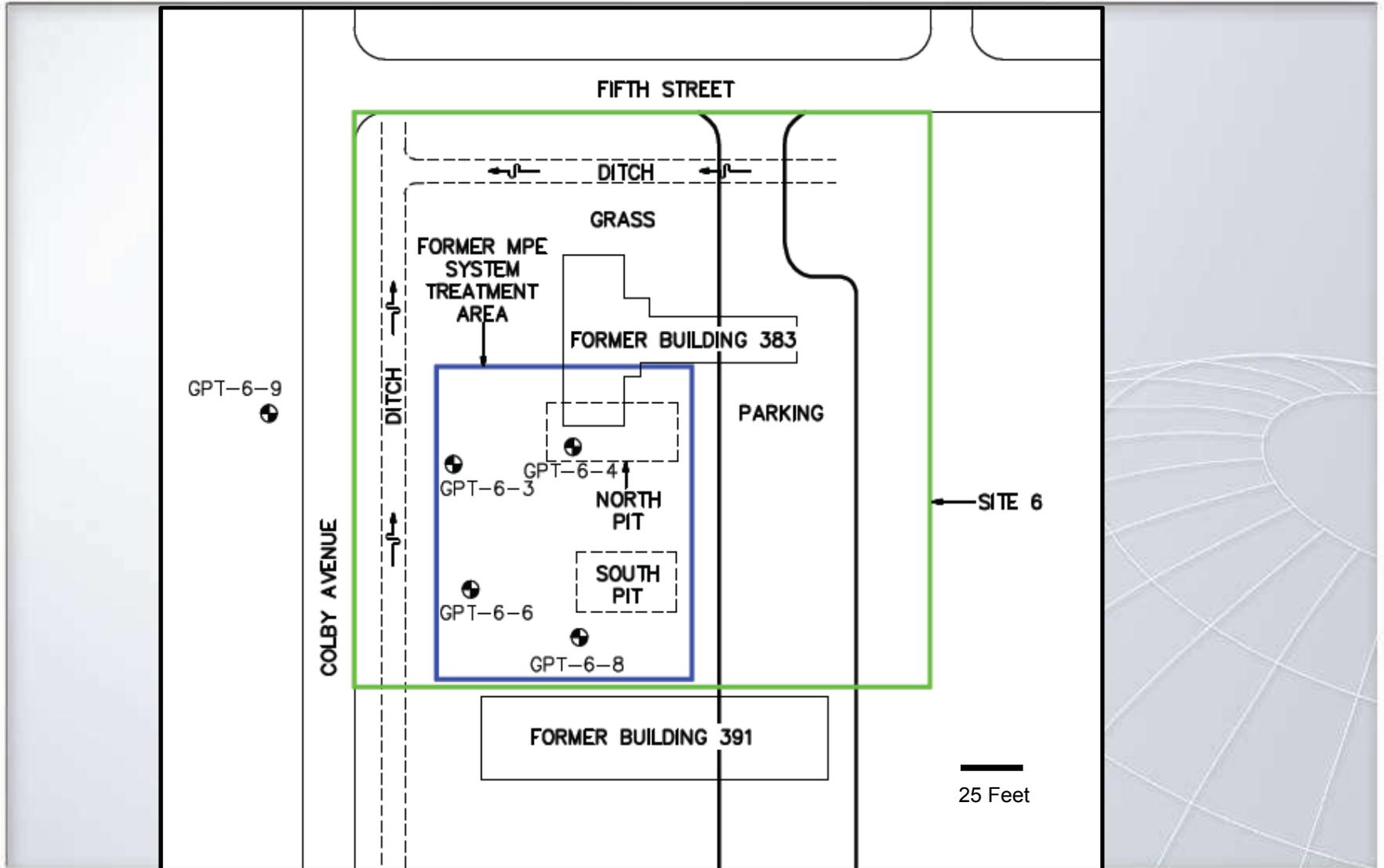
Long Term Monitoring Update

May, 2010

SITE 6 LTM

- Site 6 Background
 - Operated from 1966 to 1975
 - An estimated 500,000 gallons of flammable liquids placed in 2 burn pits
 - Interceptor Trench operated September 1995 to November 1996 and recovered 5,000 gallons of product
 - Bioslurper MPE operated November 2001 to October 2004 and recovered 2,330 gallons of product

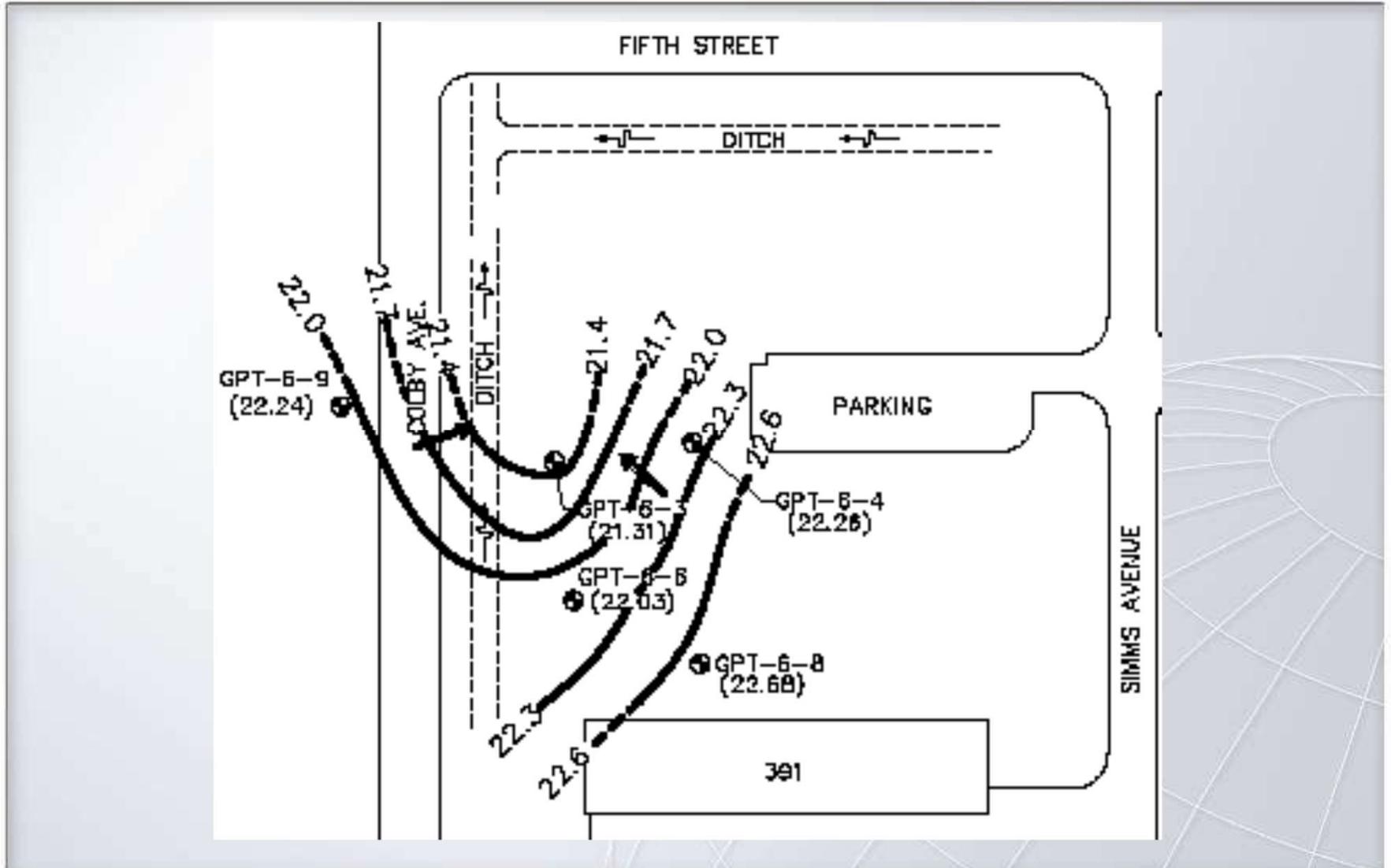
SITE 6 LAYOUT



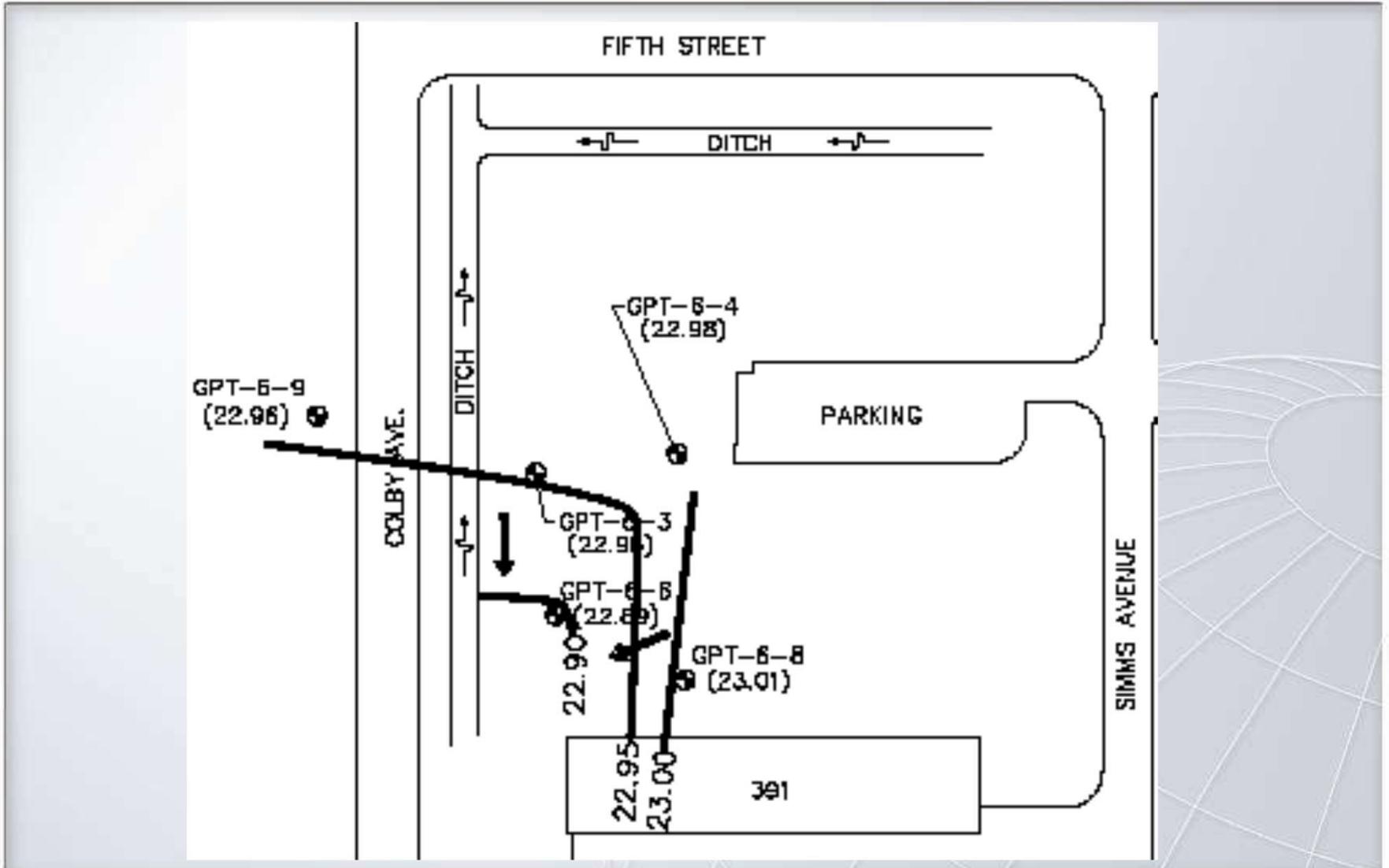
SITE 6 LTM

- Post-Remedial Action Monitoring
 - February and August 2005
 - Naphthalene and DRO identified as COCs greater than TRGs
 - Free product still present at Site 6
- Long Term Monitoring
 - Six events in 2008 (4), 2009 (1), and 2010 (1)
 - April 2008 – Vinyl chloride concentration greater than TRG in one well

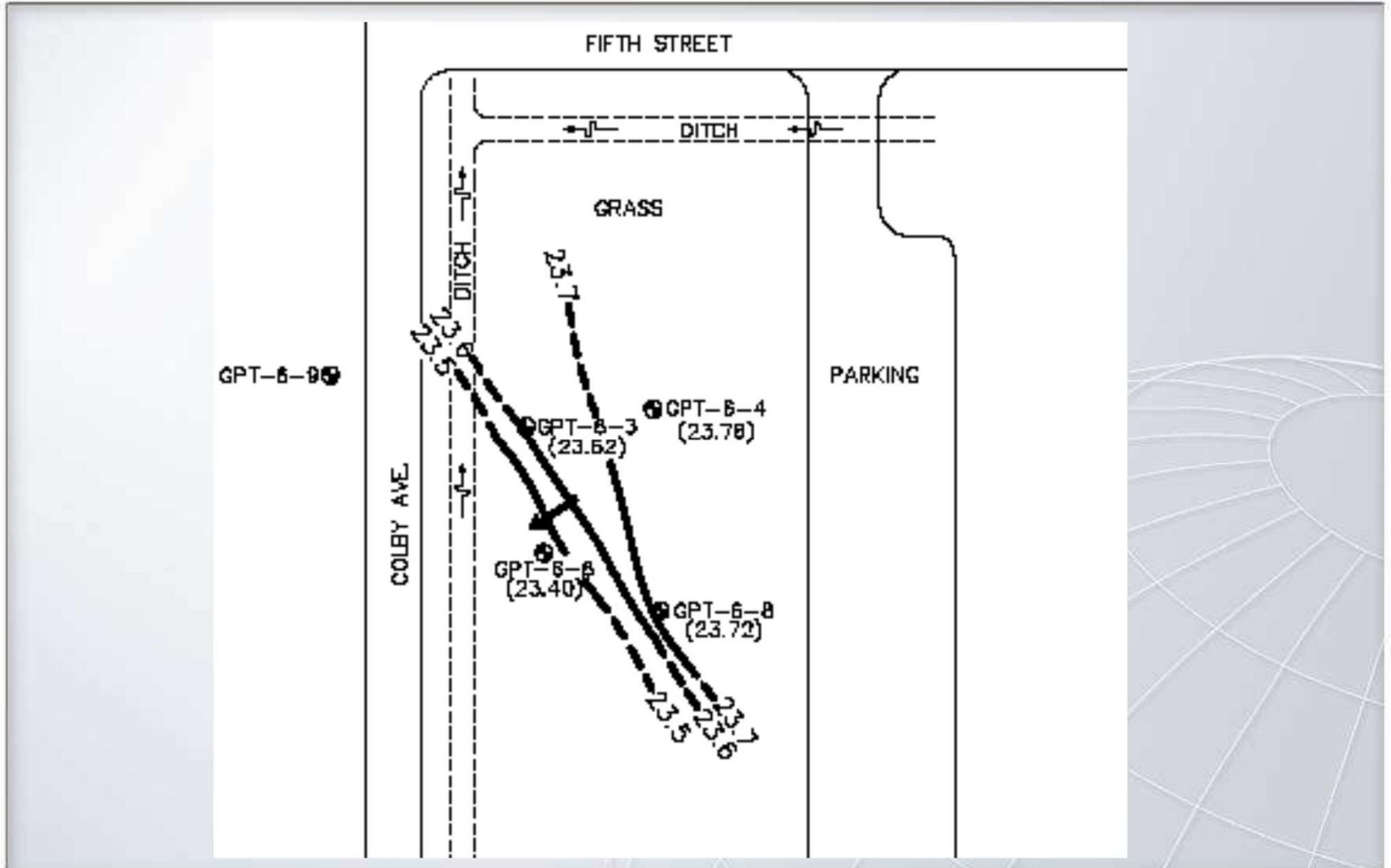
OCTOBER 2008



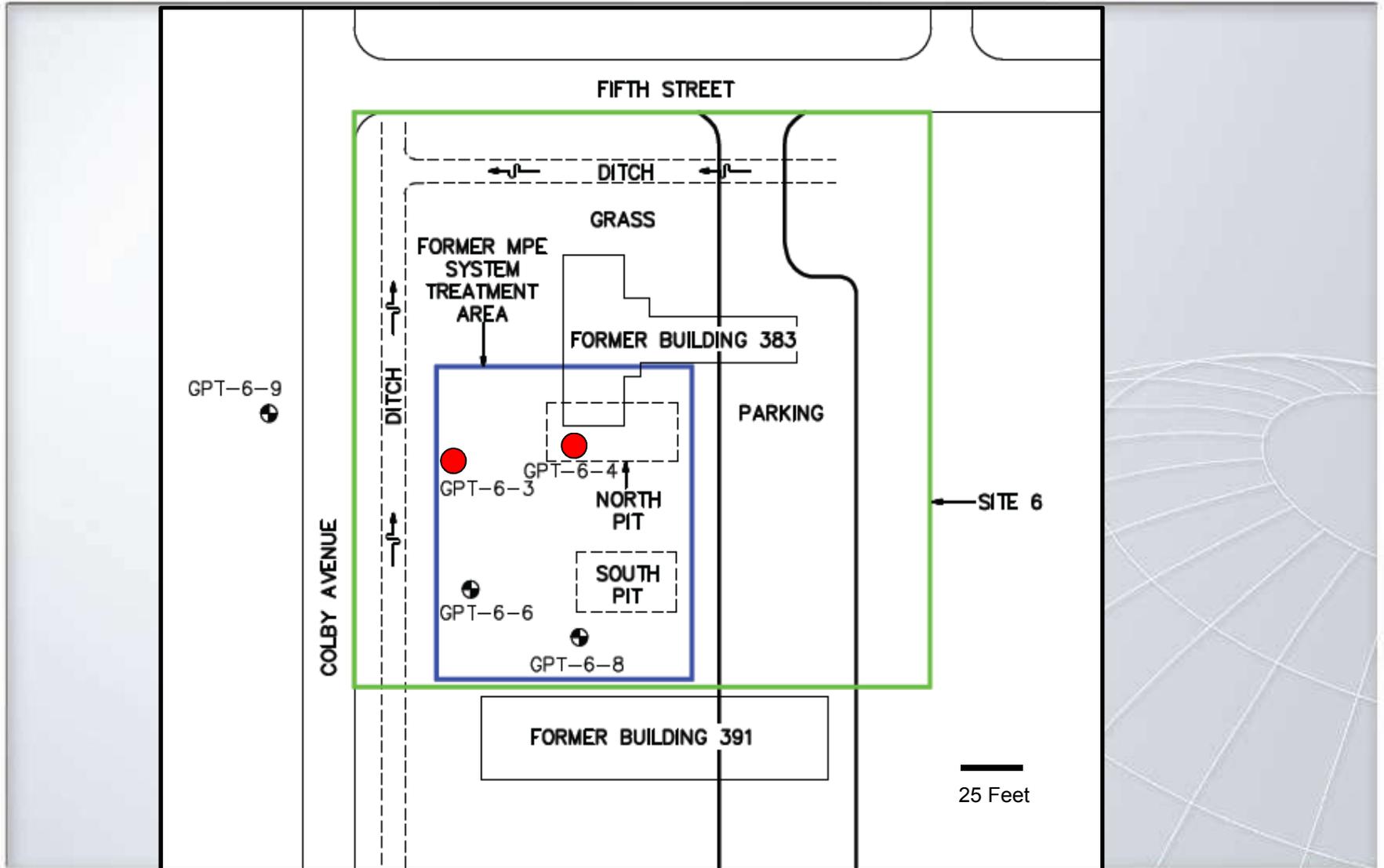
OCTOBER 2009



JANUARY 2010



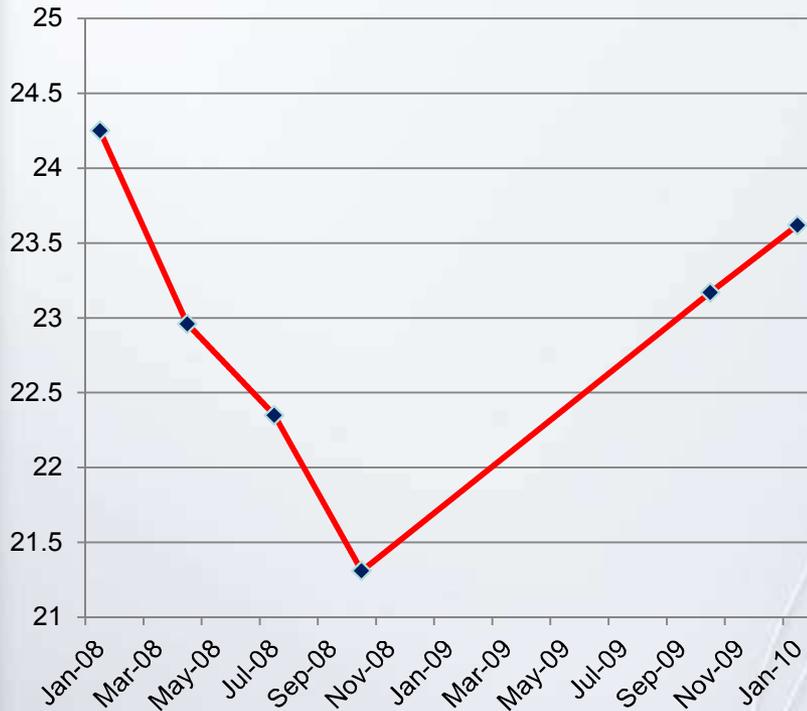
NORTH PIT MONITORING WELLS



NORTH PIT MONITORING WELLS

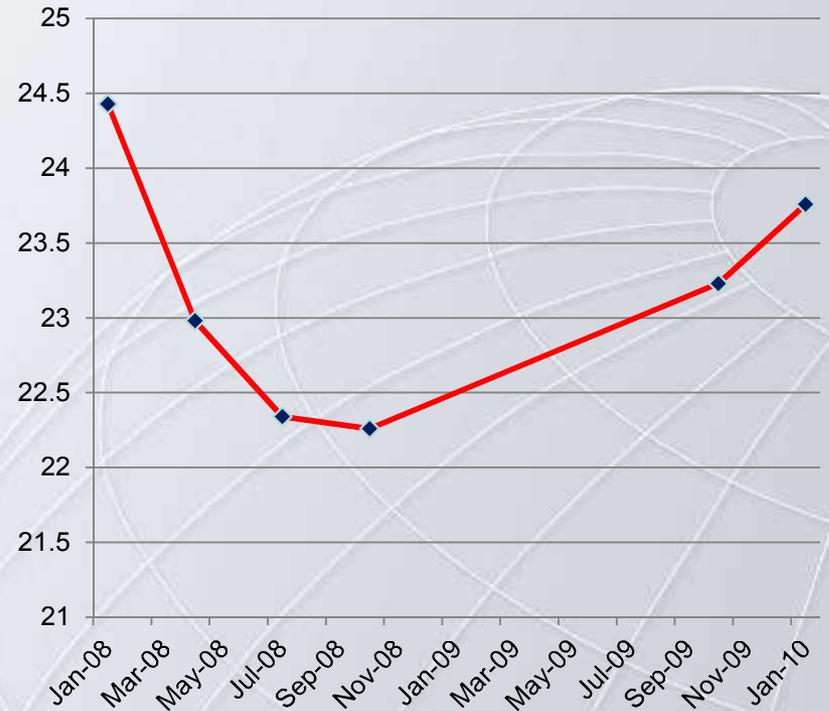
GPT 6-3

Groundwater Elevation



GPT-6-4

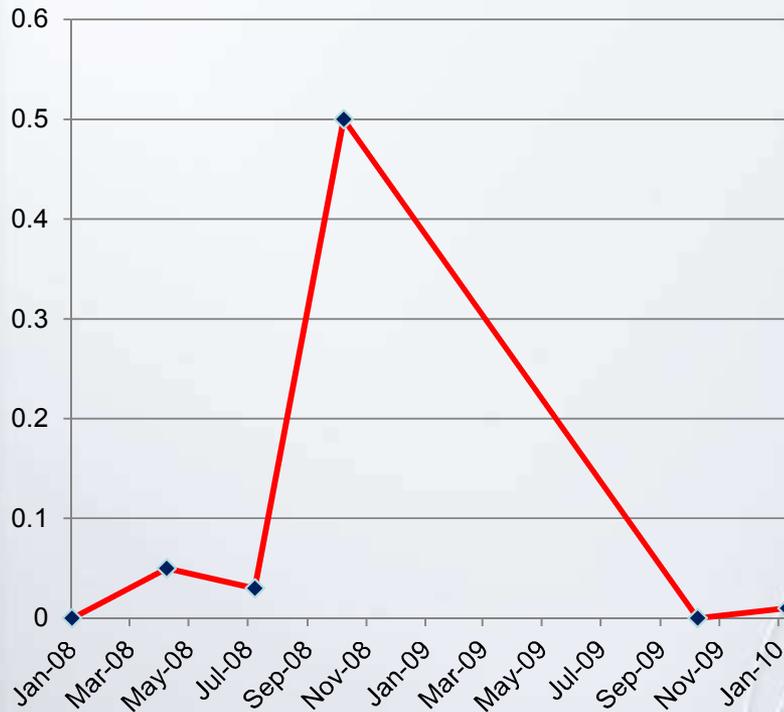
Groundwater Elevation



NORTH PIT MONITORING WELLS

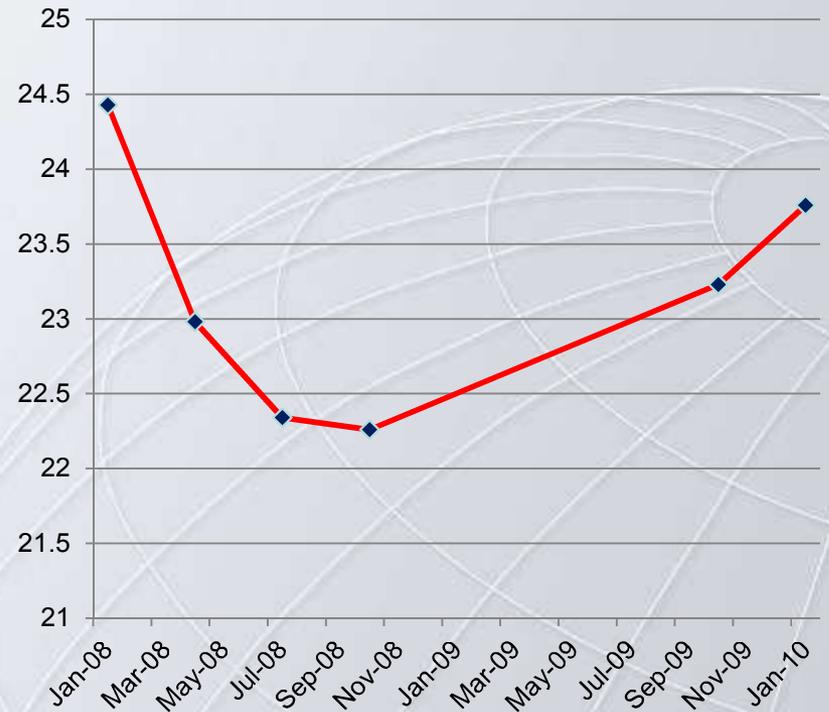
GPT 6-4

LNAPL Thickness



GPT-6-4

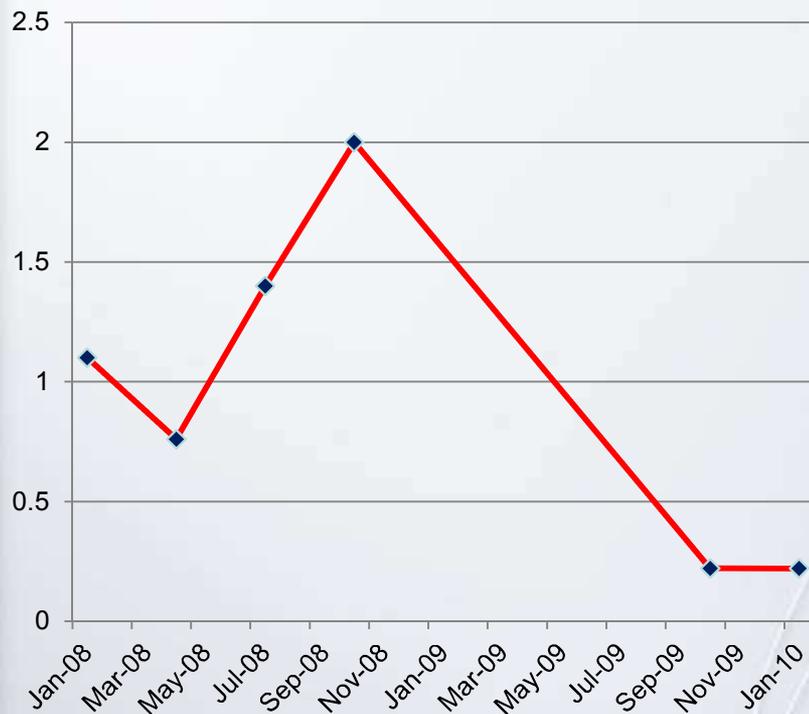
Groundwater Elevation



NORTH PIT MONITORING WELLS

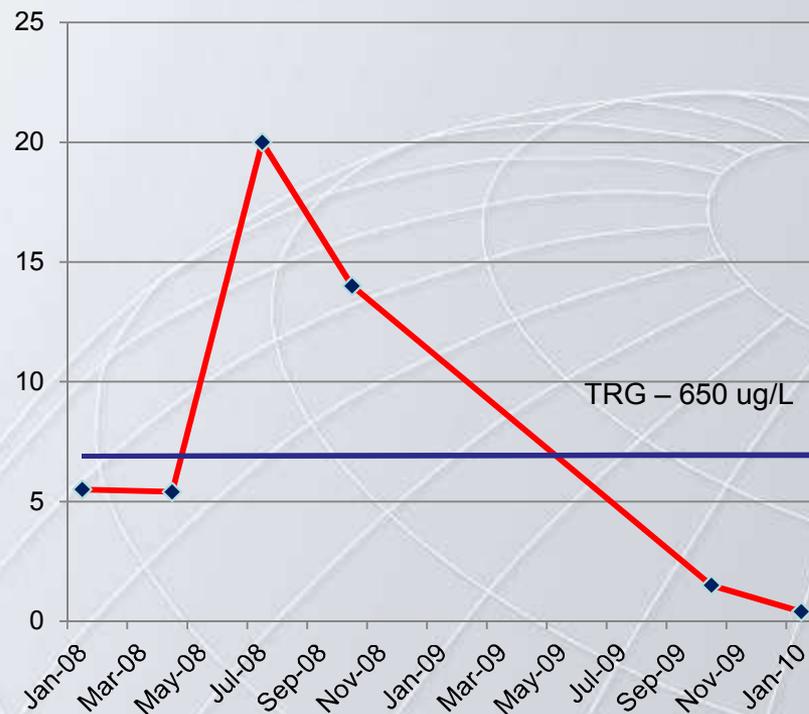
GPT 6-3

Naphthalene



GPT-6-4

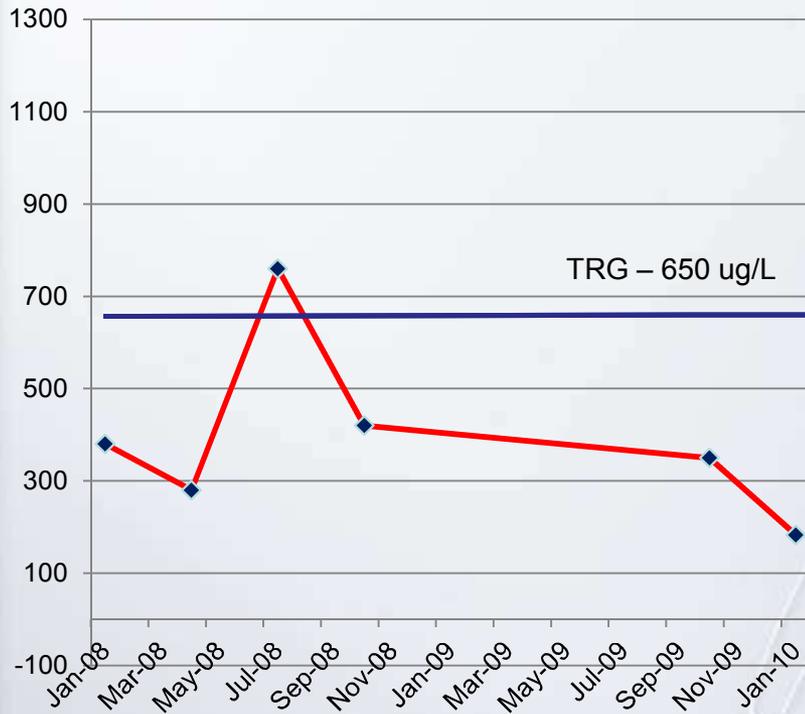
Naphthalene



NORTH PIT MONITORING WELLS

GPT 6-3

DRO



GPT-6-4

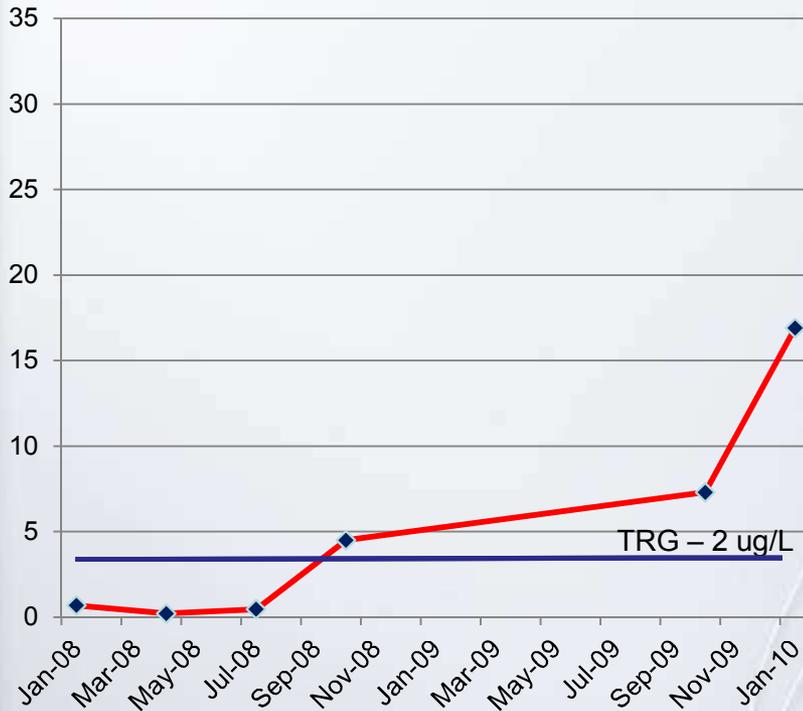
DRO



NORTH PIT MONITORING WELLS

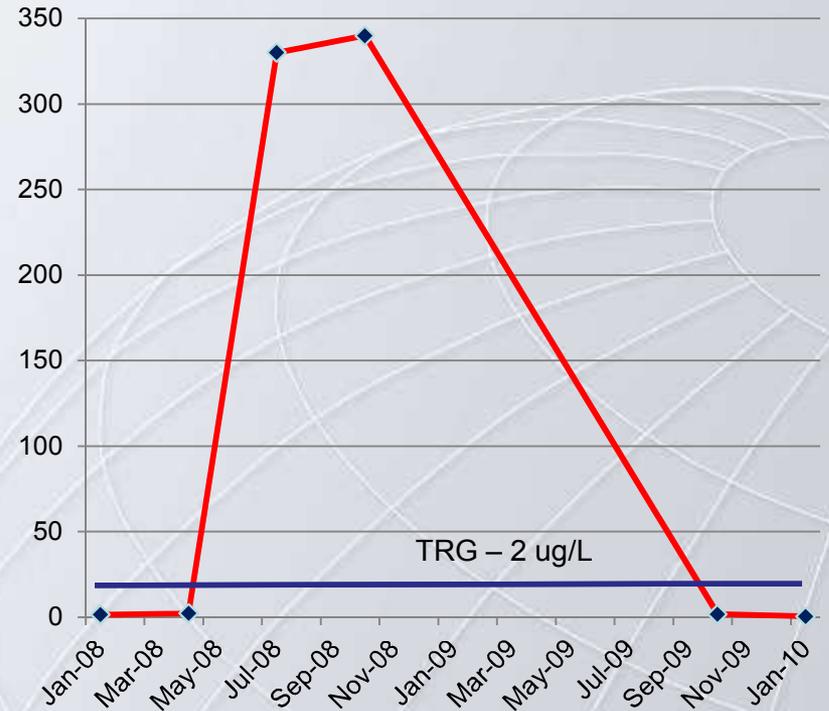
GPT 6-3

Vinyl Chloride



GPT-6-4

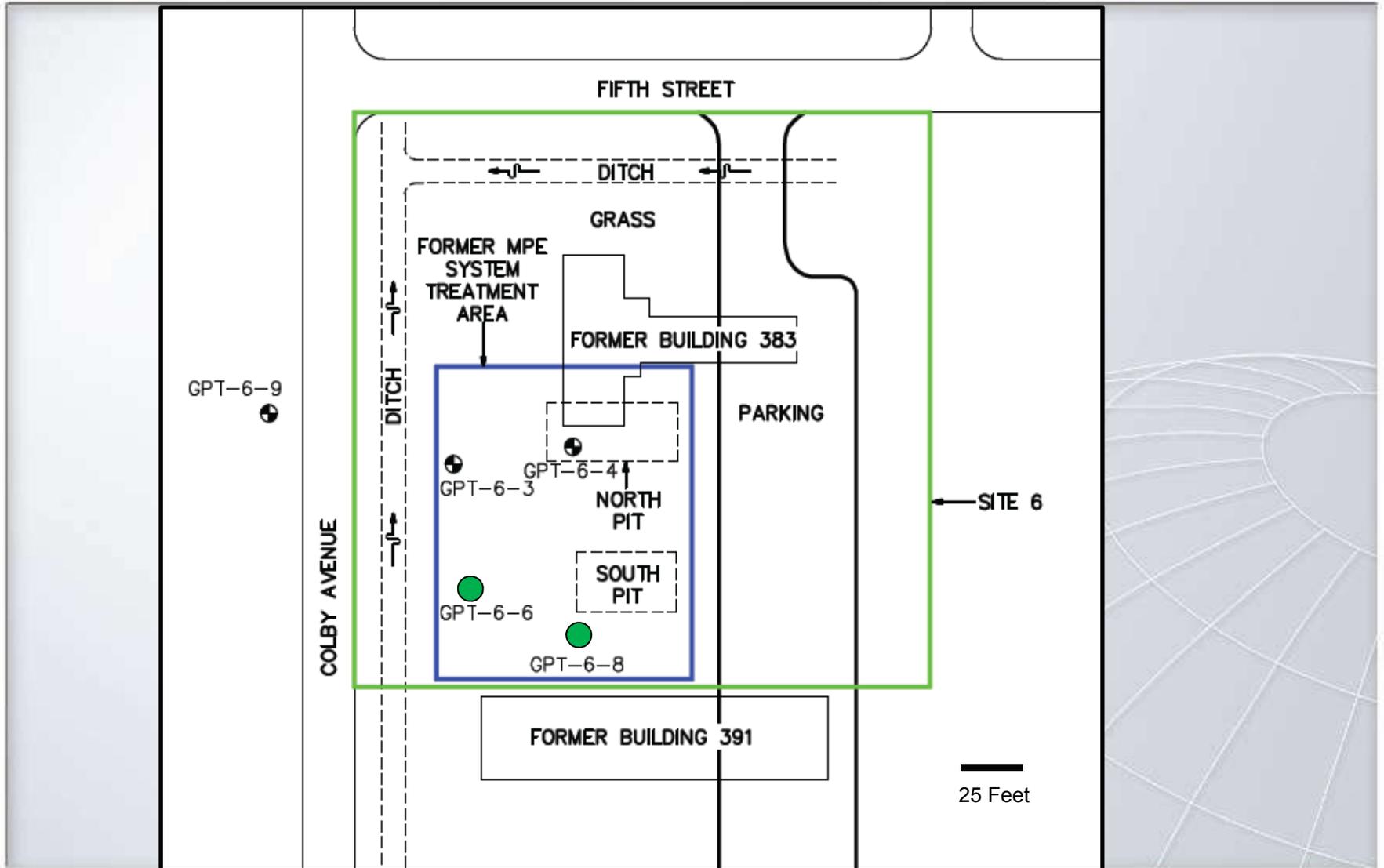
Vinyl Chloride



NORTH PIT MONITORING SUMMARY

- Lowest groundwater elevations in October 2008
- Greatest LNAPL thickness in GPT 6-4 corresponds to low water level
- Highest concentrations of naphthalene and DRO occur at low water levels
- Vinyl chloride concentration was highest in GPT 6-4 when water level was low, but is increasing in GPT 6-3

SOUTH PIT MONITORING WELLS



SOUTH PIT MONITORING WELLS

GPT 6-6

Groundwater Elevation



GPT-6-8

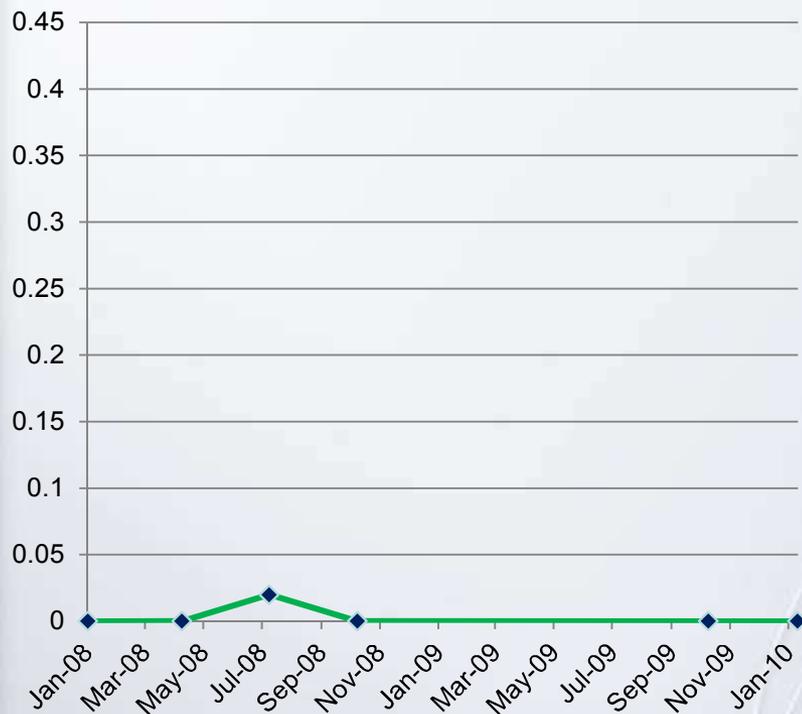
Groundwater Elevation



SOUTH PIT MONITORING WELLS

GPT 6-6

LNAPL Thickness



GPT-6-8

LNAPL Thickness



SOUTH PIT MONITORING WELLS

GPT 6-6

Naphthalene



GPT-6-8

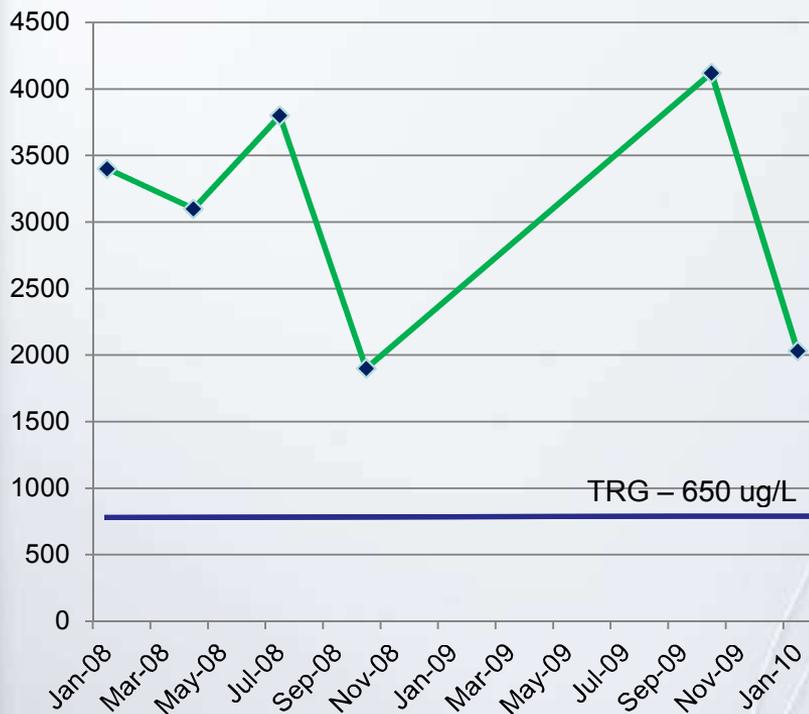
Naphthalene



SOUTH PIT MONITORING WELLS

GPT 6-6

DRO



GPT-6-8

DRO



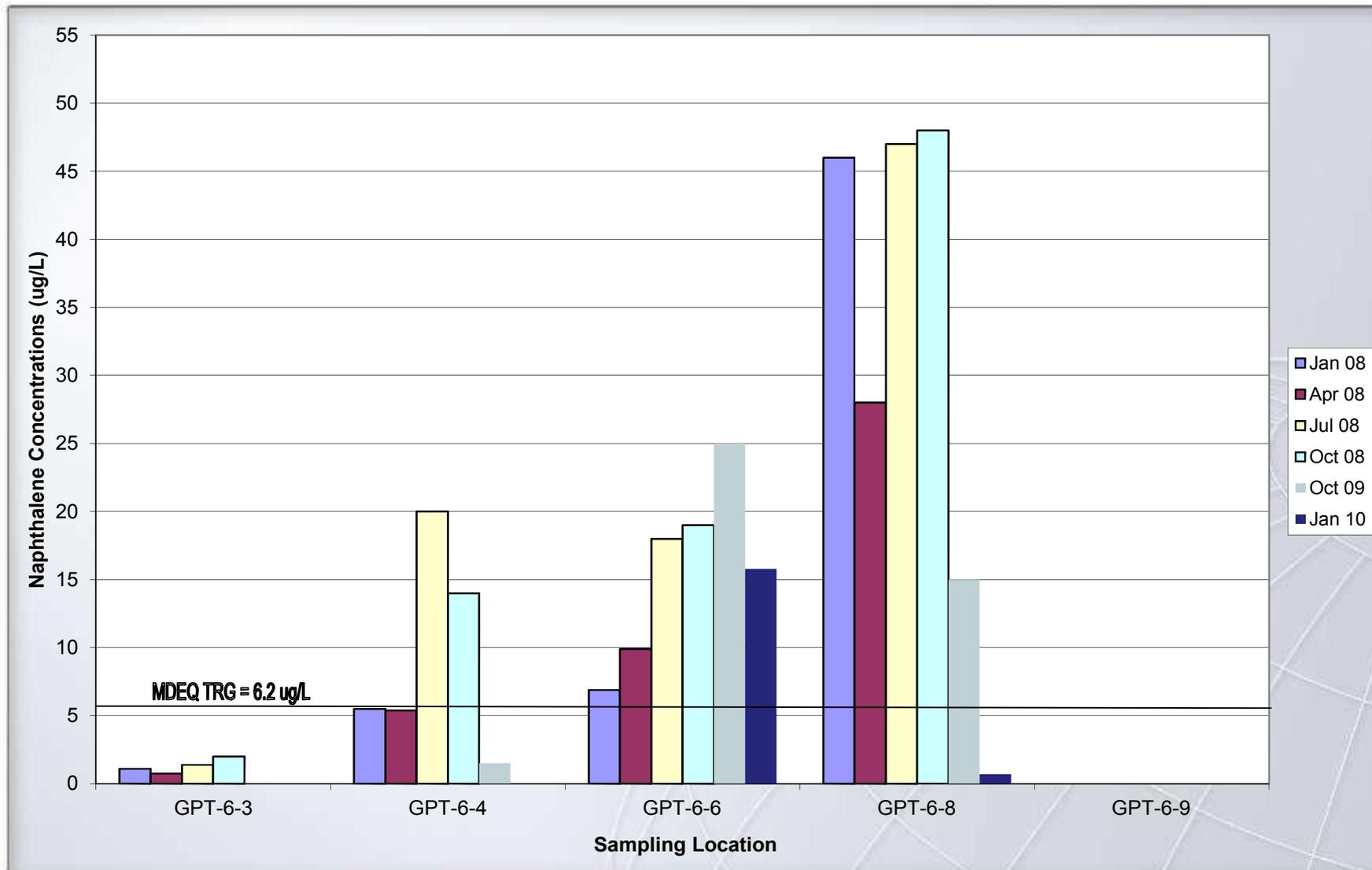
SOUTH PIT MONITORING SUMMARY

- Lowest groundwater elevations in July 2008
- Greatest LNAPL thickness in GPT 6-6 and GPT 6-8 corresponds to low water level
- Highest concentrations of naphthalene and DRO occur at low water level and have declined
- Vinyl chloride not detected in either well

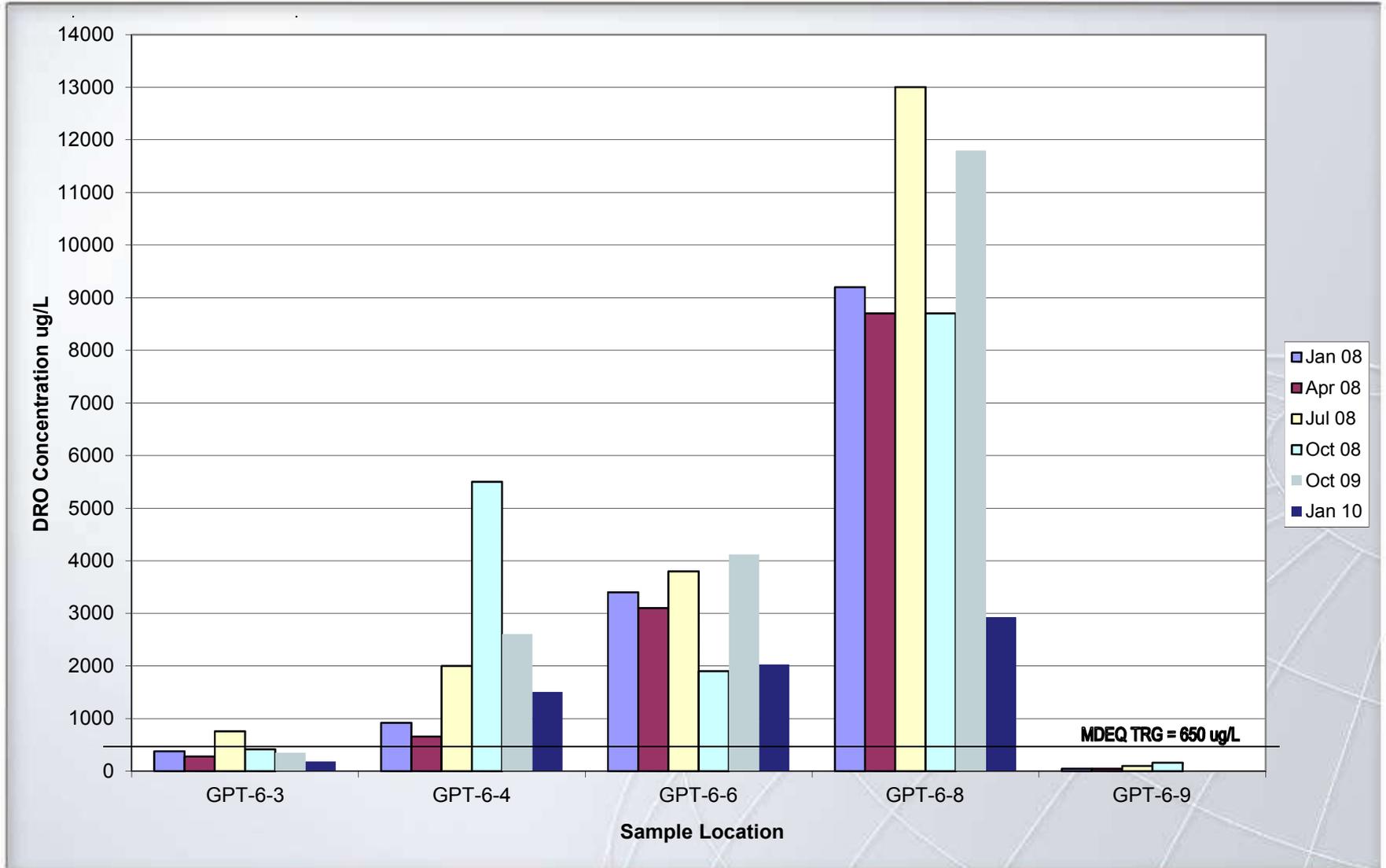
SITE 6 COC COMPARISON

| | NAPHTHALENE | | DRO | | VINYL CHLORIDE | |
|---------|-------------|------|-------|------|----------------|------|
| | 2005 | 2010 | 2005 | 2010 | 2005 | 2010 |
| GPT 6-3 | ND | ND | ND | 183 | 0.39 J | 16.9 |
| GPT 6-4 | 2.8 J | ND | 690 J | 1510 | 0.52 J | 0.45 |
| GPT 6-6 | 22.7 | 15.8 | ND | 2030 | ND | ND |
| GPT 6-8 | 36.4 | 0.7 | 7750 | 2490 | ND | ND |
| GPT 6-9 | ND | ND | ND | ND | ND | ND |

SITE 6 NAPHTHALENE SUMMARY



SITE 6 DRO SUMMARY



CONTAMINANT TRENDS

| Monitoring Well | Naphthalene | DRO | Vinyl Chloride |
|-----------------|------------------|--------------|------------------|
| GPT-6-3 | Stable < TRG | Stable < TRG | Increasing > TRG |
| GPT-6-4 | Decreasing < TRG | Stable > TRG | Non-stable < TRG |
| GPT-6-6 | Increasing > TRG | Stable > TRG | Not detected |
| GPT-6-8 | Stable <TRG | Stable > TRG | Not detected |
| GPT-6-9 | Not detected | Not detected | Not detected |

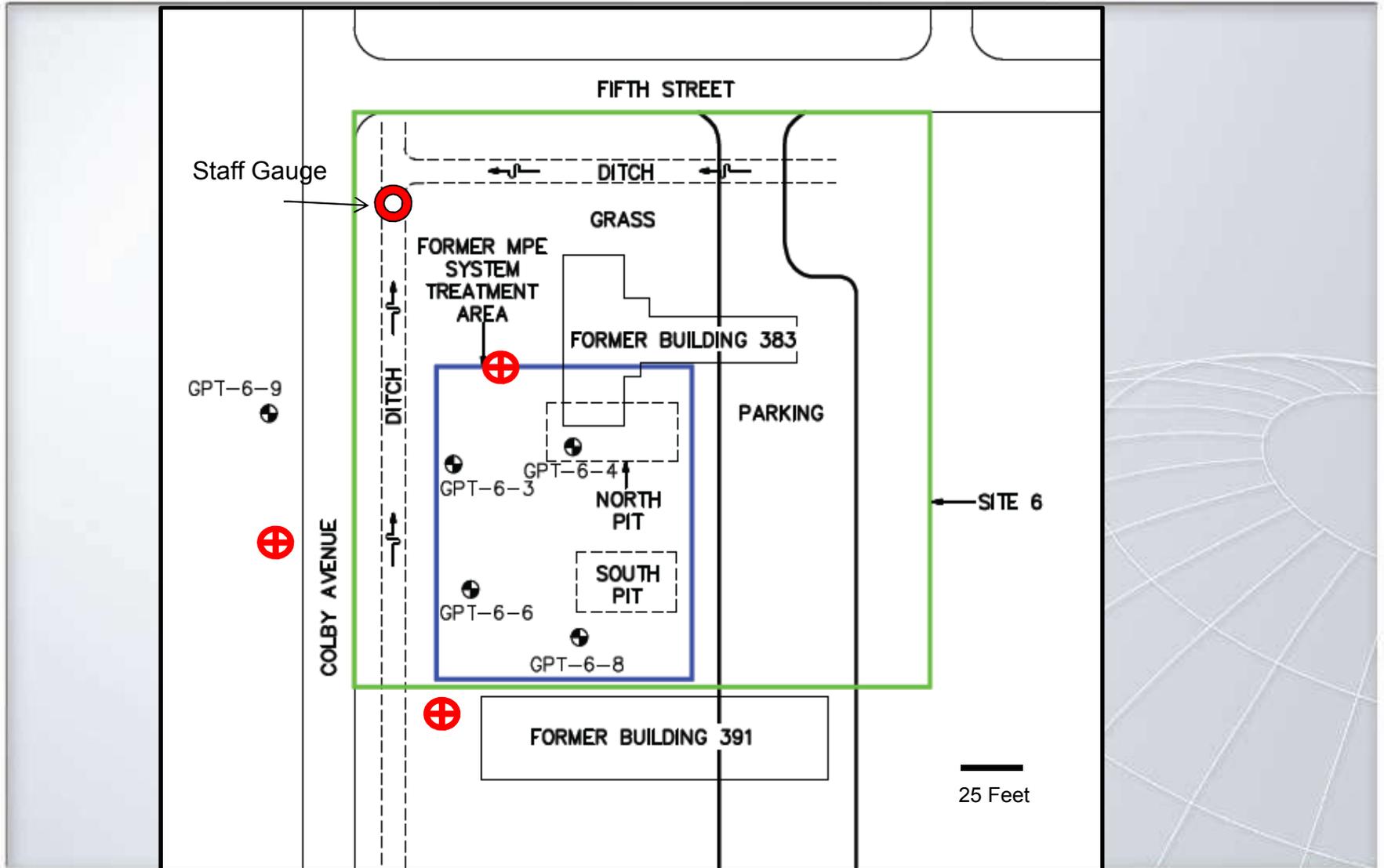
CONCLUSIONS

- LNAPL present in the smear zone is released when the water level declines
- DRO concentrations are greater than the TRG when LNAPL is present
- Highest concentrations of naphthalene and DRO occur at low water level
- Chlorinated solvent source is near the north pit

RECOMMENDATIONS

- Continue groundwater monitoring program
- Site Conditions are sufficiently stable to sample on a semi-annual basis
- Consider not sampling wells with LNAPL
- Install a staff gauge in the adjacent ditch to allow comparison of surface water and groundwater levels
- Install an additional monitoring well downgradient
- Install monitoring wells side-gradient of the north and south pit well pairs

PROPOSED ADDITIONAL LOCATIONS





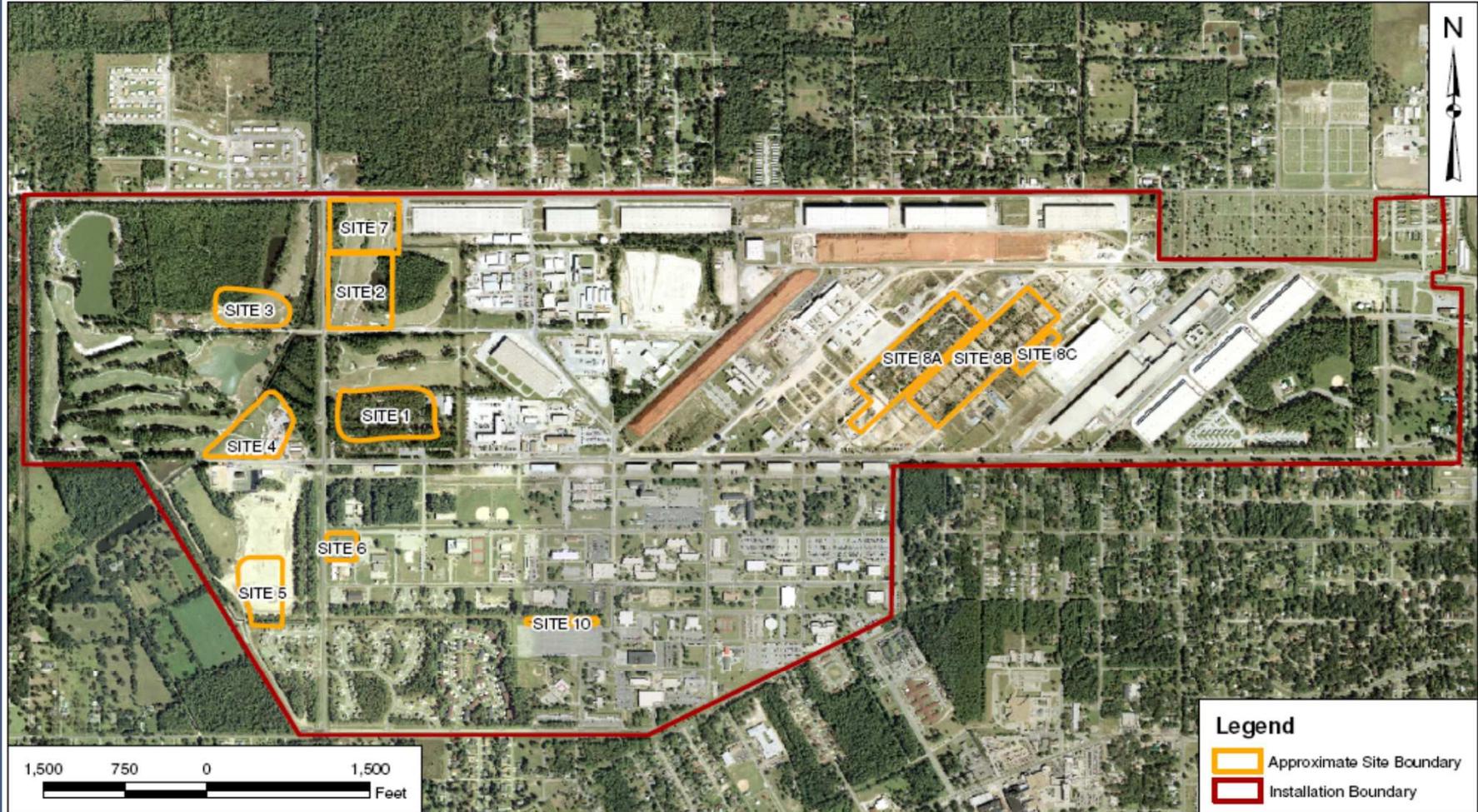
Site 7 “Rubble Disposal Area”

Remedial Investigation Work Plan

Gulfport Tier I Quarterly Partnering Meeting
Biloxi, MS
May 26th, 2010

Site Location

P:\GIS\GULFPORT_NCBC\MXD\FACILITY_MAP\MXD 4/15/10 KM



Legend

- Approximate Site Boundary
- Installation Boundary

| | |
|---------------------------|-----------------|
| DRAWN BY K. MOORE | DATE 5/6/09 |
| CHECKED BY Y. MARTINEZ | DATE 4/15/10 |
| COST SCHEDULE AREA | |
| SCALE AS NOTED | |



FACILITY MAP
NCBC GULFPORT
GULFPORT, MISSISSIPPI

| | |
|-----------------------------|----------|
| CONTRACT NUMBER CTO 0150 | |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| FIGURE NO. 1 | REV 0 |

Previous Investigations

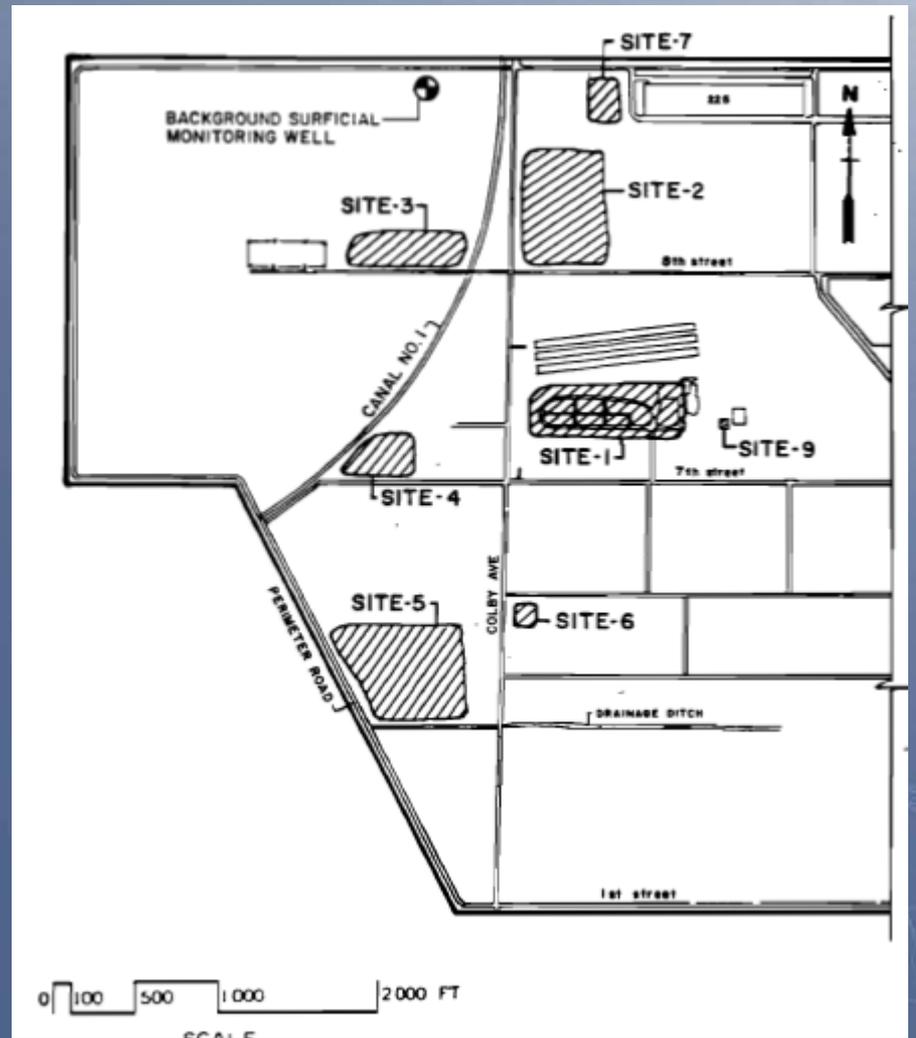
- Initial Assessment Study (NEESA, 1985)
- Verification Study (HLA, 1987)
- Dioxin Groundwater Investigation
- Basewide Groundwater, Surface Water, Sediment Field Sampling and Analytical Results (ABB, March 1995)
- Groundwater Monitoring Report (HLA, December 1999)
- Site 7 Dioxin Groundwater Investigation (Harding ESE, 2001)

Initial Assessment Study

- Approximately 3 acres in size
- Used as a landfill from 1978 -1984
- Waste disposed included concrete, lumber, scrap metal. Surficial disposal of tree clippings, sawdust and lumber was identified in the southeastern portion of the site.
- Recommended no further study for this site because of the inert materials disposed.

Initial Assessment Study cont.

Site 7 as identified by the IAS

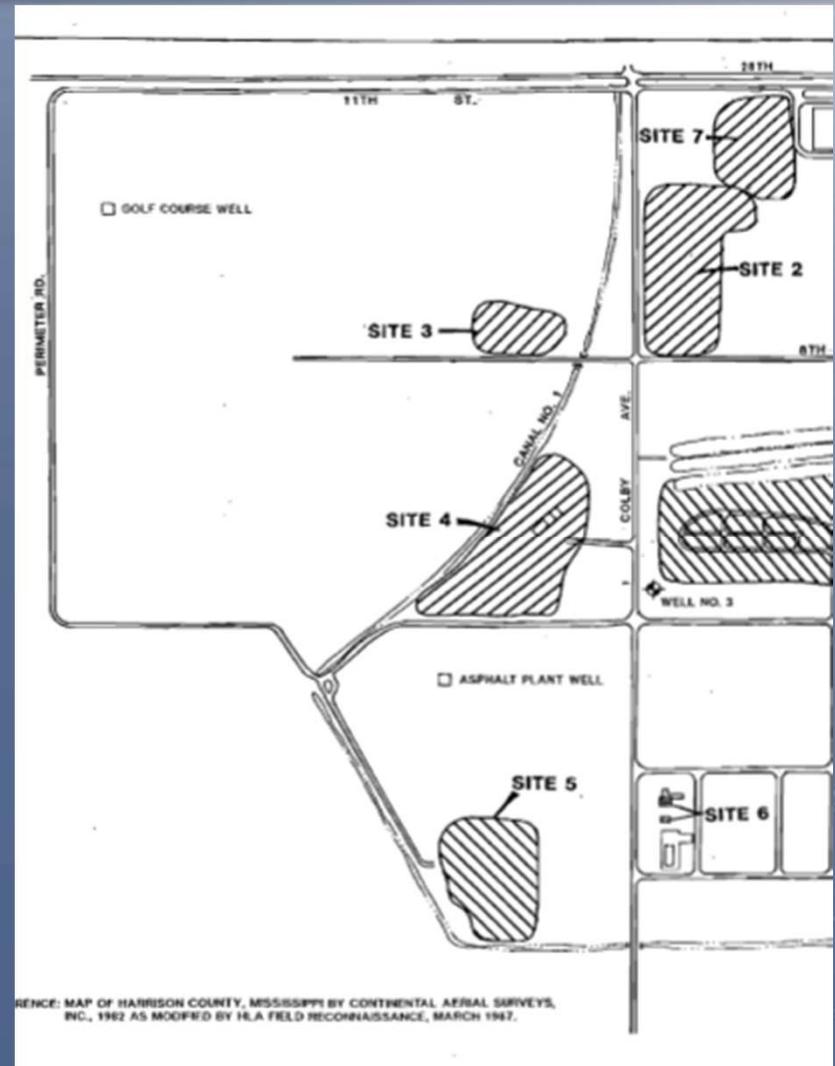


Verification Study (1987)

- Rubble disposal was ongoing and visible in Site 7
- No evidence of chemical disposal
- Recommended no remedial action. However, confirmation sampling was recommended because chlorinated organic contaminants were detected.

Verification Study (1987)

Site 7 as identified by the Verification Study.



Basewide Groundwater, Surface Water, Sediment Field Sampling

- Included the installation and sampling of 3 monitoring well in the vicinity of Site 2 and 7. The report also includes potentiometric surface maps that show the groundwater flow generally to the west.
- Recommended further investigation of Sites 4 and 5 and requested additional investigation of Site 7 due to a TCDD detection above MCLs.

Groundwater Monitoring Report

- Only included the installation and sampling of one well in Site 7 during the second phase of the investigation:
 - Phase 2 activities included installation and sampling of permanent monitoring wells. Downgradient wells were installed at Sites 1, 2, 3, and 7 based on surficial aquifer flow directions. One well at Site 7 contained 51.6 ppq dioxin with an estimated 25 ppq attributed to TCDD, the main HO dioxin congener.

Site 7 Dioxin Groundwater Investigation

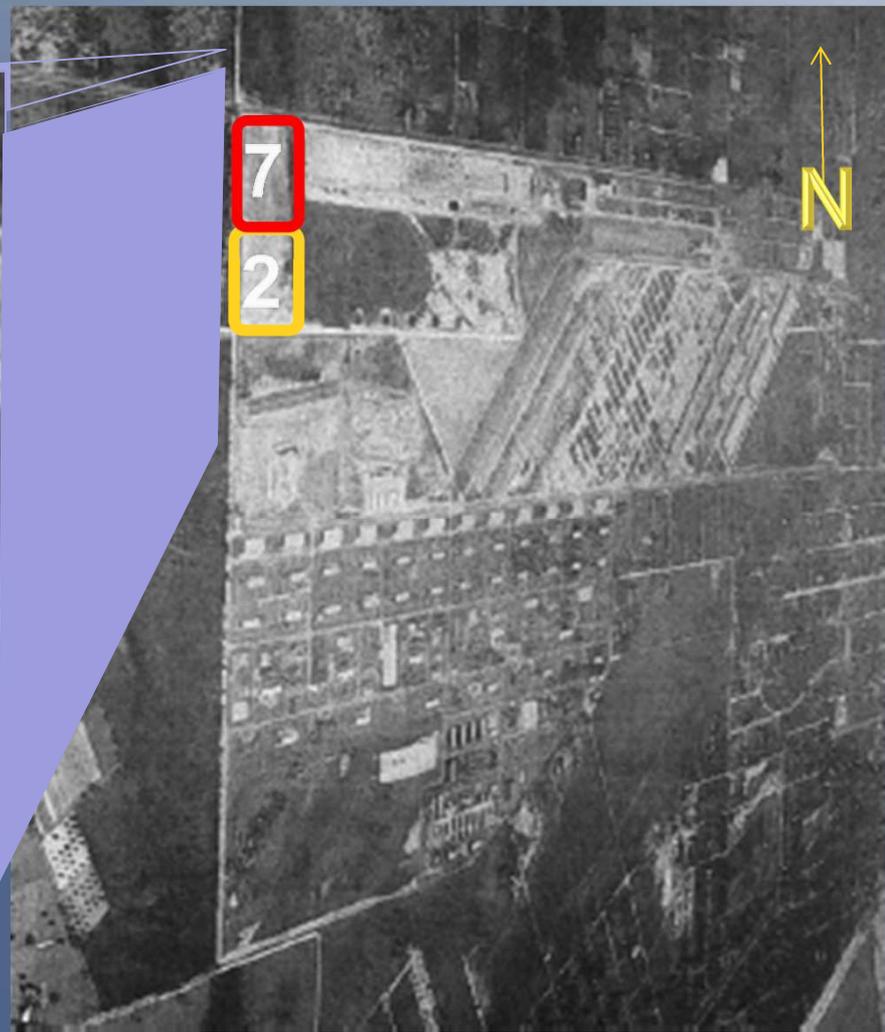
- This effort included a geophysical survey and a DPT investigation.
- The concentrations reported in those eight samples for dioxins ranged from non-detects to 0.71 ppq.
- Methylene chloride was detected above the MCL of 0.005 ppm, ranging from 0.05 to 5.2 ppm.

Aerial Pictures (revealed during 2009 MRP Investigation)

This 1953 aerial picture shows Site 2 being disturbed, but Site 7 is shown as undisturbed



Aerial Pictures (revealed during 2009 MRP Investigation)



According to aerial pictures dated 1954, the area where Site 7 is located was used during that time period.

Problem Statement

Because of these site characteristics, the Site 7 landfill is appropriate for the application of the Presumptive Remedy for CERCLA Municipal Landfill Sites (USEPA, 1993). A streamlined RI must be conducted to define the landfill boundary, determine if contamination is migrating from the site and if any unacceptable human or ecological risk from exposure to contaminated site media exists. Data gathered from this investigation will also be used to support landfill cover assessment and design, which will be presented in the Feasibility Study (FS).

Information Inputs

- **Geophysical Survey**
- **Passive Soil Gas Survey**
- **Landfill Gas Survey**
- **PID Subsurface Soil Screening**
- **Groundwater Field Parameters**
- **Chemical Data**
- **Project Action Limits**

Study Area Boundaries

100' X 100' grid
over the area to
be investigated as
Site 7



Study Area Boundaries (Cont.)

- The vertical boundary for soil extends to a depth of 40 feet below land surface (bls).
- The vertical boundary for groundwater includes the surficial aquifer, which generally occurs at about 40 feet bls.

Presumptive Remedy Criteria: Characterization Rule

- Presumptive Remedy Criteria:
- Risks appear to be low-level, except for hotspots.
- Waste types are generally household, commercial, non-hazardous sludge, and industrial solid wastes.
- Lesser quantities of hazardous wastes are present as compared to municipal-type wastes, if any.
- No hazard military-specific wastes (such as unexploded ordnance, radioactive waste, or biological/ chemical warfare agents).

Waste Characterization Decision Rule

- Following the investigation of the site, the Project Team will evaluate the results. If any of the above criteria are not met, the Project Team will evaluate in the FS other remedial alternatives that are more appropriate for the site. If the above criteria are met, the Project Team will only apply the Presumptive Remedy at the site.

Containment Decision Rule

- If the data are sufficient to define the extent of contamination at the site, data collection will cease. If the data are not sufficient to delineate the extent of contamination, then data collection will continue until the extent of contamination is known.
- Note: lateral & vertical extent for migration

Risk Assessment Decision Rule

- In order to determine whether ecological and human health risks are acceptable under current site conditions a cancer risk of 10^{-6} and below a hazard quotient of 1 for non-cancer risk will be used. If preliminary risks are shown to be unacceptable, the Project Team will determine if the Containment Presumptive Remedy will adequately mitigate the unacceptable risk. If not, additions to the containment remedy, such as LUCs, will be presented and evaluated in the FS.

Sampling Approach

- Event I: Geophysical survey
- Event II: Soil Gas & Landfill Gas Survey,
- Event III: Subsurface soil samples, surface water/ sediment and groundwater samples will be collected based on Event II findings. Chemical and geotechnical analysis.
- Event IV: Based on Event III sampling, additional samples may be collected.

- Note: collect SW & sediment samples upstream as potential background for Site 7