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NAS JACKSONVILLE
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PARTNERING TEAM MEETING MINUTES 24 AUGUST 2010 WITH UPCOMING MEETING
AGENDA NAS JACKSONVILLE FL
10/29/2010
PARTNERING TEAM

NAS JACKSONVILLE PARTNERING TEAM MEETING MINUTES

August 24th & 25th, 2010

Jacksonville, Florida

Attendees: Mark Peterson Pete Dao- Chair Adrienne Wilson
Tim Curtin Casey Hudson Eric Davis-via phone
Hal Davis, USGS Julie Johnson – Scribe Tim Flood, Facilitator
David Grabka Gate & Time Keeper

Mike Singletary, Day 2

Guests: Mike Maughon, TtNUS; Alan Pate, TtNUS; Donald Hardison, TtNUS; Loren Lund, CH2M Hill

1.0 Team Meeting and Introduction

- 1.1 Team member greeting, introductions, and check in – Done
- 1.2 Assignment of Team Roles: Chair –Pete Dao;
Gate/Timekeeper – David Grabka; Scribe – Julie Johnson
- 1.3 Read Team Ground Rules – Ground rules were read by Mark Peterson.

2.0 Initial Agenda Items

- 2.1 Review, submit revisions to, and reach consensus on previous meeting minutes. Done

Consensus: Team members approved the minutes from the June 2010 meeting.

- 2.2 Report on Assigned Actions Items and Parking Lot Items. Done.
- 2.3 NAVFAC SE presents current budget execution plan – Adrienne expects to have the new plan at the next meeting.

3.0 Agenda

- 3.1 Schedules/SCAP/Exit Strategy/FDEP Document Tracker: Dave provided a copy of the FDEP tracker for review. Mark provided the team with a copy of the TtNUS and CH2MHill Document Review status list and the GANT chart. These were reviewed throughout the agenda.

Mark Peterson explained the process of checking the SMP dates and plans to review the exit strategy dates throughout the meeting as each site is discussed. Adrienne provided the team with a copy of the UXO Munitions Response sites Draft FFA SMP.

Action Item: Alan to contact Ralph Basinski regarding the MRP ID soil.

Casey discussed the outstanding reports for CH2M Hill.

Mark suggested talking with Tier II regarding adding the SMP dates in the exit strategy to keep it in the radar. Will revisit this when Mike Singletary comes to meeting on day 2.

- 3.2 OU 1 LTM Update and O&M on LNAPL Area –
 - 3.2.1 LTM Update and Landfill Maintenance – Tim said there is not much to report. The contractor hasn't cut the grass in about a year. The grass is not growing a lot, but needs cutting.

Mark Peterson asked about the solar farm and Tim said he didn't believe it would move forward anytime soon due to cost effectiveness. Installation of solar panels may still be years out.

3.2.2 LNAPL Recovery System – Nothing new to report

Mark reviewed the OU 1 portion of the SMP and compared the exit strategy. Said SMP information should be added to the exit strategy. This site is pending regulatory approval letters to shut down LNAPL recovery system. The LUCRD is in review and needs regulatory comment by November 30, 2010 for distribution by December 2010.

3.3 OU 3 –

3.3.1 OU 3 Preliminary Groundwater Results Discussion – Donald gave a presentation of the OU 3 monitoring well/DPT results for TCE. The 2-D plume map presented was created in EVS using 3-D kriging to interpolate data collected at various depths. The monitoring well data includes results of OU 3-wide sampling in February 2010. The most recent DPT data was collected in June 2010 to fill data gaps across OU3.

Mark said the map shows the TCE plume in Area A to be erroneously extrapolated beneath Building 101 because of the lack of data beneath Building 101 to the west of Area A and north of Area E plumes. It is difficult to get a DPT rig in the building to collect groundwater samples and verify if the plume extends beneath the building.. Loren said Building 101 is being recommended as a high priority building for the next phase of the Vapor Intrusion investigation. Loren suggested that sub-slab soil gas samples to be collected in the building may help determine whether the Area A groundwater plume extends beneath Building 101. If soil gas beneath the slab is high it may be an indication that groundwater concentrations beneath the building are high.

Donald asked what the depth of the Area A plume is. Hal thinks it is 5 to 13 feet. Donald doesn't believe that DPT would be necessary; he believes that they could install piezometers instead since the plume is so shallow. This will be revisited on day 2 during the VI discussion.

The plume map in Area C also displayed some questionable extrapolation of data like Area A.

Upgradient of Building 106, need another DPT sample location to the north and west and this will be added in during the Building 200 (PSC 45) investigation. During this same investigation Mark P. will also have another DPT taken to the south of Area C to bound the extrapolated plume in this area..

Area F: Mark suspects that there is some CH2M Hill data missing from the plume map because there were some hot spots that aren't showing up. Donald will recheck and make sure all the data has been included. Casey looked at the data and he believes that all of the data has indeed been included.

Action Item: Donald is going to verify that all Area F data (CH2MHill) is included in the MW/DPT model.

This MW/DPT plume map will be used in the final design of the offshore sampling. Donald expects the offshore sampling to be completed by the end of October.

Dave G. asked why the plume boundary shown in the plume map abruptly stopped at the green line to the west of Area G.

Action Item: Donald to see what data is available upgradient of Area G.

Pete stated that the reason one of his recent RODs at another facility got derailed was due to lack of data underneath the buildings and concern that there could be DNAPL under the slab.

Donald also presented a plume map generated from MIP results. The MIP plume map did not correlate very well with the plume map prepared from MW/DPT data in some areas, e.g., the area southwest of Building 200 Wash Rack. Casey noted it is difficult to correlate MIP data with other data unless the MIP response is high.

- 3.3.2 Storm Sewer Outfalls Discussion/Review. Last meeting we were discussing SE-03 with 11 ug/L vinyl chloride measured in a manhole during monitoring performed by the BOA contractor in Area A. There was a discussion to include SE-03 in the current investigation, in addition to the closest manhole to the outfalls. The goal is to determine a clean manhole downstream of Area A that can be used as a compliance point.

The team discussed which manhole to sample and agreed to sample the manhole at the intersection of two storm sewers extending downstream respectively from Area A and Area E. In the RI on Figure 4-15A it is labeled as U3ZMH1401 at the intersection of Enterprise Avenue and Wright Street. Loren Lund stated that stormwater drains have been shown to be a preferential pathway for vapor migration. Recommended considering the results of the storm sewer sampling in the next phase of the vapor intrusion investigation. Loren said the vapors like to go uphill in the sewers.

Action Item: Mark and Donald to include the evaluation of storm sewer manhole at the intersection of Enterprise Ave and Wright Street (labeled as U3ZMH1401 in the RI) in the existing storm sewer sampling plan for OU 3.

- 3.3.3 Vapor Intrusion Discussion – Casey Hudson/Loren Lund -

Action Item: Mike M. to see what the status is on the ESTCP Paper for VI/source area depletion at Building 103.

Loren gave the team a presentation on the Vapor Intrusion Phase I screening analysis. Loren said that they are only in the screening stage at this point. The purpose is to identify the buildings with the highest priority that will be retained for further VI investigation.

See complete presentation in the attachments to these minutes.

- Identify Preliminary Buildings of Interest for Surveys
 - Determined usable GW monitoring well/piezometer locations, excluded the following wells, abandoned, screened >15 ft below the water table, screens >20 feet long, the screened interval is unknown, no analytical VOC data
 - Kept a little more than half of the wells in OU3 for the screening process. Loren said they use the shallow water within 15 feet of the water table.
 - Determined usable DPT sampling locations. Excluded if samples were collected >15 ft below water table,

Dave Grabka stated that there appears to be DPT points missing from the Area A and Area E areas. Donald agreed, Mark P. said Tetra Tech will make sure that CH2M Hill is provided the data that is missing.

Action Item: Donald to provide CH2M Hill all the DPT data for Areas A and E.

There are a lot of uncertainties in using groundwater to predict vapor intrusion. Mike asked if there was some way to identify a concentration of soil gas that could be left under a building and not have any concerns of VI at a later date. Loren said “ Modeling alone is no longer an acceptable tool in determining the VI risk. Multiple lines of evidence, including soil gas and indoor air sampling, are recommended to evaluate VI risk.”

Mike asked if carbon disulfide would be considered a laboratory contaminant. He was not familiar with this constituent being a problem on the site.

Action Item: Casey to send Julie the VI presentation with attachments for attachment to these meeting minutes.

Loren continued with the building identification portion of the presentation and reviewed the primary priority buildings of interest. All other buildings are secondary priority buildings due to the uncertainty of chemical usage, shallow vadose zone VOC sources, and/or lack of groundwater data within 100 feet of the building. (Figure 3-8).

Donald stated that there is current data for Area C that was taken in the upper portion of the shallow aquifer. He said there is MIP data. Donald showed some rough draft figures reflecting recent monitoring well/DPT data at 10 feet, 20 feet, 30 feet, and 40 feet.

Action Item: Donald to provide Casey/Eric with the June 2010 DPT data for OU 3.

Casey indicated they will consolidate all groundwater data and develop 3-D kriged maps and generate 2-D slices at shallow depths through the top 15 feet below the water table to facilitate the screening analysis and update the list of primary and secondary priority buildings for site-specific VI investigation.

Hal said to be careful when using the deep data, especially in Area C, because the deeper concentrations will reflect upward when using the data for 3-D kriging.

Loren said this data will be confirmation as to why Building 103 is retained as a building of interest.

Loren stated once you identify the building you can then use the soil gas data... Mark asked about including Building 200, Loren said once you identify that the contamination is not related to OU 3 then the building can be eliminated.

Regarding dry cleaning facilities, Dave stated that you chase the soil gas because the soil gas can move in a different direction than the groundwater.

Loren said the rationale for including the buildings outside of OU 3 was determining whether the contamination was related to OU 3. Mike said you can consider the data since it is there. Soil gas tends to move horizontally in the vadose zone and you can find concentrations upgradient.

Adrienne said that she wants to be sure it is stated clearly, with regards to the CERCLA process, as to why these buildings are being considered in this early phase.

Eric reviewed the primary survey form, discussed the site visit and activities while at the site. They took photographs and completed the survey forms. Confirmed occupants, floor space, ceiling height, construction type/materials, were there modular offices, reviewed as-built, expansion joints, floor drains, is there a basement (Building 140-paint shop), ventilation. Loren said it is important to identify compartments within a building that the air exchange would not be as good, are there multiple HVAC units. Loren said that the building may be large but with the smaller, compartmentalized units it makes a difference in how they are evaluated. This helped for them to determine which screening levels to use.

Tim asked how buildings are handled that have paint waste that is dumped in the sump. Loren stated that you retain it initially and review it later to see if the data matches the contaminants of concern or are they generated from daily use.

Loren stated that if the building has a sump, subsurface structure that contacts the groundwater it changes the screening level. He stated that the air would be sampled directly.

Loren stated that this was the most comprehensive building survey he has ever seen. That Eric and his team and the base personnel did a great job.

Buildings that had offices on one side and a hangar on the other side were compartmentalized, so they were looked at as possibly being categorized as falling into a smaller building category.

Summary:

- Buildings within 100 ft of measured/extrapolated GWSL exceedance of site specific GWSLs
- Buildings overlying or near (100 ft) known or suspected vadose zone VOC sources.
- Buildings located over very shallow groundwater or with basements/subsurface structures
- Demolished, unenclosed/elevated, and unoccupied structures eliminated
- 37 of the 76 Preliminary Buildings of Interest were identified as Final Buildings of Interest (Figure 4-1). Rationale summarized in Table 4-8 (attached).

Action Item: Tim to provide Eric/Casey a list of the buildings slated for demolition within OU 3.

Next steps:

Multiple Lines of Evidence – The fundamental truths

- Multiple lines of evidence are almost always needed
- Not all lines of evidence are created equal
 - Some are better at showing VI is occurring
 - Some are better at showing VI is not occurring.
- Consider the strength of the evidence in the context of the VI CSM
 - Groundwater
 - Exterior soil gas
 - Subslab vapor
 - Indoor air
 - Outdoor air (collect concurrently with indoor sample to verify if indoor air should be a concern)

Loren finished with summarizing that there are 37 buildings that cannot be counted out for VI issues. The next phase is to build the CSM for each building, and that there could potentially be up to 37 VI CSMs – one for each building. However, the buildings will most likely be grouped by similar features and with CSMs developed for specific groups of buildings. The focus now should be on the higher priority buildings. If the higher priority buildings are acceptable then there would be no need to further analyze the secondary priority buildings. He said that at this point the team would prioritize each building for the investigation.

Loren said they are now completing the draft Phase I report and will verify the results based on the most recent (June) DPT data.

Action Item: Mike Singletary to send the team a copy of the ESTCP VI report.

Mike Singletary stated looking at building use that the team is going to have to come up with a prioritized list. Mike suggested prioritizing future funding by highest priority buildings and progressing overtime in order of priority, including risk exposure to occupants, Human Health is a big concern. Loren stated that we have to look at the magnitude of the concentrations, the source areas, and what is the potential for vapor to get into the building.

Loren suggests further classification and prioritizing buildings to see which ones should have near slab or sub-slab or indoor/outdoor, etc. For example, buildings where a release occurred are more likely to have vadose zone source areas that could still be generating CVOC soil gas that may not be reflected in shallow groundwater data alone.

Dave asked that when the VI gets to the RI stage, should air sparging be considered as a remedial option. He said it may not be a good option close to a building unless potential vapor migration is controlled with SVE.

Results of the Phase I VI screening analysis:

- 1) COCs of interest
 - 2) Screening values for large and medium size buildings to help identify final buildings of interest.
 - 3) Final buildings of interest for prioritized VI investigation
- 3.4 OU 6 (PSC 52) Hangar 1000 – Alan indicated all four quarters of investigations have been completed. The reports are being prepared. The Long Term Monitoring Plan will be updated according the data evaluation in the annual report.
- 3.5 OU 7 PSC 46 Update – DRMO – Casey - The ESS is in review. The regulators would just like a final version of the ESS. Vinky is incorporating the last set of comments from NOSSA. Once approved by NOSSA, DDSB will get the ESS for review. Once the final is approved it will be provided to the team for informational purposes.

Action Item: Adrienne to discuss with Robbie the exit strategy RIP date for PSC 46, DRMO. It is currently 12/31/2010.

Tim said that a fencing contractor wants access to the site to do repairs and Adrienne and the team agreed is not safe for the contractor to go in the western and southern sides of PSC 46 which are off limits to the contractor.

- 3.6 OU 8 PSC 47 – Eric - No field activity since March 2009. There are two reports, as discussed during the schedule section that are out for review and awaiting comments. Eric will provide copies of reports to Tetra Tech for completion of the Five-Year Review.

Action Item: Adrienne to add the Annual Monitoring Report for 2010, Remedial Action Completion Report, and the Five-Year Review to the SMP.

3.7 Petroleum Sites

- 3.7.1 Gas Hill (PCA 4)– Eric Davis – 2ND semi-annual event will kick off in September 2010. Documents out for review: Draft Annual Monitoring Report and CH2M Hill will issue the draft-final to the partnering team. 2010 Annual Report is in production and they will incorporate the September 2010 data into that report.

CH2M Hill provided a response to comments for the RAP and the SAR to David Grabka, FDEP. FDEP approved the SAR but Eric stated they need a concurrence letter that they are addressing FDEP's concerns for the RAP so they can issue the final report. Hill is looking for concurrence to their response to comments issued on July 1, 2010. Dave wants to see that the plume is bounded. Dave stated he will pull up the electronic response to comments and respond. Dave is looking for the results of the first monitoring report to see that the plume is bounded. Dave said the RAP is MNA plus groundwater restrictions. He said he has already approved the MNA Plan. Casey asked if the RAP was going to remain open. Dave stated that the groundwater restriction is probably going to be put into the base master plan, and he can approve the RAP, and an MNA approval order, which includes source wells, compliance wells, etc.

The comments to the RAP have been addressed and a response to comments was issued. The comments from FDEP were incorporated in the MNA Plan, which was approved.

Action Item: Dave to issue a letter of concurrence to the Gas Hill RAP response to comments issued to FDEP by CH2M Hill. In that letter Dave will include language that states that FDEP comments on the RAP were resolved in the MNA Work Plan.

- 3.7.2 Hawkin's Property – nothing to report.

- 3.7.3 PCA 25- Boat House Area – Mike M. said that he and Donald were going to take another look at the depth of excavation and the alternatives and discuss the alternatives with Mike Singletary. Excavation to the water table is probably not necessary since leachability should not be an issue as COCs are not reflected in groundwater. Likely just need to excavate top foot or two of soil in a few spots to meet the three times rule and eliminate the need for LUCs.

Action Item: Mike M. to discuss the LUC alternatives and excavation alternatives with Mike Singletary.

- 3.7.4 NEX Gas Station – Alan Pate – Sampled 19 wells at the site with detections at five wells. Wells still show some petroleum constituents, e.g., naphthalene and MTBE. They also show TCE and PCE (approximately 80 ppb). The purpose of the well installation was to complete the petroleum well network. Identified additional VOCs at the site. Install wells MW45, MW46, and MW47 and only MW47 had concentrations detected. There are concerns with the data because Empirical was 1X the holding time. Mark asked if the data would be validated since there were issues with the laboratory with regard to flooding at the time of sample receiving.

Mike Singletary asked if this site could be placed in the IR program now since most contamination is CVOCs (PCE and TCE) and it will end up eventually in CERCLA anyway. Mike said this more streamlined approach would be more effective. Adrienne will talk with Beverly Washington and Robbie Darby about this. Mark asked Alan if there were DPT locations to the west that bounded that area. Alan said yes, one point.

Adrienne said there is not enough data to close this site out in the petroleum program.

Mark and Adrienne are going to meet offline to discuss the data and see what the path forward will include.

Action Item: Alan to prepare a data package for NEX Gas Station to facilitate Navy discussions on path forward for this site.

- 3.8 MRP Sites Update– Alan Pate – No update.
- 3.9 PSC Sites with LUCs and no RODs – Received comments on the UFP-SAP from Tim Curtin, Dave G., and Pete Dao's, will look for Adrienne's comments.
- 3.10 Five-Year Review – Mike Whitten is authoring the five year review. Mike and Tim are going to conduct site walks this week. Mark expects the draft five-year review may be available for review at the next team meeting.

Action Item: Tetra Tech to generate a public notice for the five-year review, time frame to be determined.

4.0 Miscellaneous

- 4.1 Proposed Construction Update – Tim Curtin – Tim gave an update of proposed construction and current construction projects.
- Looking to put in a new golf course maintenance building.
 - Marina mooring field is going away, they are redoing the marina. Make the docks bigger to hold more boats.
 - The hospital addition is finishing up. Some of the floors have been occupied already.
 - Repairs have been underway for storm sewers.
 - Three or four demo contracts awarded. Some of these demo projects include 20 to 30 buildings.
 - The P8 simulator building is moving along. They are cast in place walls.
 - They finished painting the antenna tower.

- There were issues with expanding the pond near the ranges on the golf course. Found a lot of metals in the soil. They're going to use the dirt to build a berm down the middle of the pond.
- Phase II energy project, looking at putting photovoltaic cells within OU 1, and looking at the south antenna farm.
- They are going to update the deluge sprinklers in Building 101 and 101S.
- They are going to repair the storm water drain near the composite shop.
- Going to repair the windows in Building 101.
- The underground tank that was replaced with aboveground tanks is not providing the fuel flow they need to run the engines. They are looking at repairing that.
- There is a project at FRC to update copper phone lines.

Loren asked what processes are in place as they look at building new buildings with regard to the VI. Tim said there is nothing in place, but a good question. Tim sees all plans for capital improvements.

4.2 Tier II Update – nothing to update.

4.3 Institutional Controls Implementation Plans Update – Tim has been conducting his inspections and he is getting new signs.

4.4 NIRIS Update – The administrative record and site library is at the subcontractor and I expect the draft by first week of September.

Action Item: Tim to provide Mark Peterson a copy of the Base Master Plan for NAS Jacksonville for inclusion in the Admin Record in NIRIS.

4.5 RCRA Activities – Nothing new to report.

4.6 Exit Strategy Review – reviewed for each site as meeting progressed. **BOLD ALL CHANGES.**

Action Item: Adrienne to check with Robbie Darby regarding adding a column for the SMP date to the Exit Strategy.

4.7 BOA Contracts Update – Nothing new to report.

4.8 Team Development – OU 3 VI encroached into team development.

5.0 Meeting Closing

5.1 Review Meeting Consensus Items – Done

5.2 Review Meeting Understandings – None

5.3 Review Action Items – Done

5.4 Next Meeting Proposed Agenda Changes

5.5 Set the future meeting dates in advance.

Meeting Date	Meeting Time	Location	Meeting Chairman
10/26/10 10/27/10	1:00 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	Jacksonville	David Grabka
1/11/11 1/12/11	1:00 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	TBD – Jacksonville office not available	Casey Hudson
3/8/11 3/9/11	1:00 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	TBD	Mark Peterson
5/10/11	8:00 a.m. to 5:00 p.m.	Jacksonville	Adrienne Wilson
7/12/11 7/13/11	1:00 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	TBD (Jacksonville office not available)	Tim Curtin

5.6 Set the next meeting location, duration, and roles

- Location – Jacksonville, FL – TtNUS office
- Dates – October 26th & 27th, 2010
- Duration – two days
- Chair – David Grabka
- Gate/Timekeeper – Casey Hudson
- Scribe – Julie Johnson

5.7 Facilitator Plus/Deltas – Done

Plus

VI Presentation/discussion
 Coordination of team & VI with other activities
 SMP/Exit strategy review during meeting site by site.
 Donald's OU 3 DPT/MIPs presentation
 Everyone working together on the OU 3

Deltas

No Eric
 no drinks with caffeine and sugar
 Lots of tangents/side bars
 Talking over each other

5.8 Facilitator Evaluation – offline

Agenda Item No.	<u>CONSENSUS ITEMS</u>
2.1	Team members approved the minutes from the June 2010 meeting.
Agenda Item No.	<u>PARKING LOT</u>
PSC 46, DRMO	CH2M Hill will complete the RA Completion Report which, according to Pete Dao, needs to include a reference to completion of the LUCRD, the removal action, and the groundwater monitoring annual report and engineer certified for PSC 46, DRMO. Revisit this in 2011.

<u>ACTION ITEMS</u>					
Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
Action Items from April 20th & 21st, 2010 Meeting					
A-90410	Hal	Done	4/30/10	OU 3	Hal to send shape files for storm sewers to Mark Peterson and Casey Hudson <i>Via email 4/23/10 Hal wrote "I am going to wait until I see Mike Wadel drawings (showing the inverts) before I send the sewer shapefiles to Mark and Casey. Hopefully, I can update the sewer shapefiles to show the inverts also. That way, the information can be plotted as an overlay."</i>
Action Items from June 22nd & 23rd, 2010 Meeting					
A-10610	Pete and Dave	Done	8/24/10	OU 1 LNAPL Area	Dave and Pete to send response letter regarding the decommissioning of the LNAPL recovery system at OU 1.
A-30610	Donald/Mark	Working	8/24/10	OU3 storm sewer sampling plan and SE-03 (Area A)	Mark and Donald to include the evaluation of storm sewer SE-03 in the existing storm sewer sampling plan for OU 3.
A-60610	Mark	Done	6/25/10	Exit Strategy	Talk to Rich May to get instruction on the best way to distinguish the PSC sites with LUCs no RODs on the exit strategy.

ACTION ITEMS

Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
Action Items from August 24th & 25th, 2010 Meeting					
A-10810	Alan	Done	8/25/10	MRP Sites	Alan to contact Ralph Basinski regarding the MRP Investigation derived soil.
A-20810	Mike M.	Done	8/27/10	OU 3/Bldg 103	Mike M. to see what the status is on the ESTCP Paper for VI/source area depletion at Building 103.
A-30810	Donald	Working	8/27/10	OU 3, Area F.	Donald is going to verify that all Area F data (CH2MHill) is included in the MW/DPT model.
A-40810	Donald	Working	8/27/10	OU 3, Area G	Donald to see what data is available upgradient of Area G.
A-50810	Mark/Donald	Working		OU 3, Area A and Area E	Mark and Donald to include the evaluation of storm sewer at the intersection of Enterprise Ave and Wright Street (labeled as U3ZMH1401 in the RI) at in the existing storm sewer sampling plan for OU 3.
A-60810	Adrienne	Done	By next meeting	PSC 46, DRMO	Adrienne to discuss with Robbie the exit strategy RIP date for PSC 46, DRMO. It is currently 12/31/2010.
A-70810	Adrienne	Done	By next meeting	SMP	Adrienne to add the Annual Monitoring Report for 2010, Remedial Action Completion Report, and the Five-Year Review to the SMP.
A-80810	Dave G.	Done	9/7/10	Gas Hill Fuel Farm	Dave to issue a letter of concurrence for the Gas Hill RAP response to comments issued to FDEP by CH2M Hill. In that letter Dave will include language that states that FDEP comments on the RAP were resolved in the MNA Work Plan.

ACTION ITEMS

Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
A-90810	Alan Pate	Done	9/7/10	NEX Gas Station	Alan to prepare a data package for NEX Gas Station to facilitate Navy discussions on path forward for this site.
A-100810	Donald	Done	8/27/10	OU 3 VI screening	Donald to provide CH2M Hill all the DPT data for Areas A and E.
A-110810	Casey	Done	9/7/10	OU 3 VI screening	Casey to send Julie the VI presentation with attachments for attachment to these meeting minutes.
A-120810	Donald	Done	8/27/10	OU 3 June Data	Donald to provide Casey/Eric with the June 2010 DPT data for Area C.
A-130810	Tim Curtin	Done	9/7/10	OU 3 VI screening	<p>Tim to provide Eric/Casey a list of the buildings slated for demolition within OU 3.</p> <p><i>Tim replied in an email 8/30/10 – " Eric, Casey;</i></p> <p><i>The following buildings are scheduled for demolition:12, 1960, 640, 640B, 640C, 640D, 640E, 640F, 459, 127, 127E, 127F, 127I, 72, 1913, 1964, 152, 153, 234, 151, 947, 1205, 108, 790, 184, 1524, 151, 152, 153, 234, 947, 1205, 108, 790, 184, 103, 111 and 11."</i></p>
A-140810	Mike Singletary	Done	9/7/10	OU 3/Basewide	Mike Singletary to send the team a copy of the ESTCP VI report.
A-150810	Adrienne	Done	By next meeting	Exit Strategy/SMP	Adrienne to check with Robbie Darby regarding adding a column for the SMP date to the Exit Strategy.
A-160810	Tim Curtin	Done	9/7/10	Base Master Plan	Tim to provide Mark Peterson a copy of the Base Master Plan for

ACTION ITEMS

Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
					NAS Jacksonville.
A-170810	Mark P.	Done	TBD	5-year Review	Tetra Tech to generate a public notice for the five-year review, time frame to be determined.
A-180810	Mike M	Working	11/26/10	PCA 25	Mike M. to discuss the LUC alternatives and excavation alternatives with Mike Singletary.

NAS Jacksonville Team Agenda
Jacksonville, Florida
October 26th & 27th, 2010

Chair – David Grabka
Gate/Timekeeper – Casey Hudson
Scribe – Julie Johnson

Item	Description	Presenter	Time	Category
1.0	TEAM MEETING AND INTRODUCTIONS	Team		
1.1	Team member Greeting, Introductions, and Check-in; Guest Introductions	Team		
1.2	Assignment of Team Meeting Organization: Chair, Gate/Time Keeper, Scribe	Chair		
1.3	Read Team Ground Rules	Team		
2.0	INITIAL AGENDA ITEMS FOR EACH MEETING			
2.1	Review, submit revisions to, and reach consensus on previous meeting minutes	Team		
2.2	Reports on assigned action items and parking lot items	Team		
2.3	NAVFAC presents current budget execution plan	Adrienne		
3.0	AGENDA			
3.1	Schedules/SCAP/Exit Strategy/FDEP Document Tracker/FFA SMP	Team		
3.2	OU-1			
	3.2.1 LTM Update and Landfill Maintenance			
	3.2.2 LNAPL Recovery System			
3.3	OU-3			
	3.3.1 OU 3 Preliminary Groundwater Results Discussion – Tag Map/Contour Map	Donald		
	3.3.2 Storm Sewer Outfalls Discussion/Review	Team		
	3.3.3 Vapor Intrusion Discussion – Casey Hudson	Casey		
3.4	OU-6 – PSC 52 – Hangar 1000 - Annual data results	Alan		
3.5	OU-7 – PSC 46 DRMO update	Casey/Eric		
3.6	OU-8 – PSC 47 – Pesticide Shop	Casey/Eric		
3.7	Petroleum Sites			
	Gas Hill	Eric		
	Hawkins			
	PCA 25			
	NEX Gas Station - Sampling Results	Alan		
3.8	MRP Sites – Presentation of SI	Alan/Ralph		
3.9	PSC Sites with LUCs and no RODs –	Alan		
3.10	PSC 45-Building 200 Wash Rack – UFP SAP review/comment	Alan		
3.11	PSC 55-UFP SAP review/comment	Alan		
3.12	PSC 38 – UFP SAP review/comment	Alan		
3.13	Five Year Review	Mike Whitten		
4.0	MISCELLANEOUS			
4.1	Proposed Construction Update	Tim		
4.2	Tier II Update			

Item	Description	Presenter	Time	Category
4.3	Institutional Controls Implementation Update	Tim		
4.4	NIRIS Update -			
4.5	RCRA Activities –	Tim		
4.6	Exit Strategy Review	Mark		
4.7	BOA Contracts Update	Tim/Adrienne		
4.8	Team Development	Tim Flood		
5.0	MEETING CLOSING			
5.1	Review Meeting Consensus Items			
5.2	Review Meeting Understandings			
5.3	Review Action Items			
5.4	Next Meeting Proposed Agenda			
5.5	Set Dates for Future Meetings			
5.6	Set the Next Meeting Location, Duration, and Roles			
5.7	Facilitator Plus/Deltas			
5.8	Facilitator Evaluation			

NAS Jacksonville Partnering Team Document Review Status

Date of Status: 24-Aug-2010

No.	Document Name	Date Submitted (or to be submitted)	Comments Received from				NAS JAX
			FDEP	EPA	NAVFAC SE RPM	NAVFAC SE Chemist	
Tetra Tech Documents							
1	Areas B&G Remedial Action Completion Report	4-Feb-2010	OBE	OBE	OBE	NA	OBE
2	Draft-Final OU-1 LUCRD	24-Jun-2010				NA	
3	UFP-SAP -PSC Sites with No ROD	30-Apr-2010	X	Verbal		X	X
4	Draft MMRP SI Report	30-Jun-2010					X
5	Draft UFP-SAP for PSC 45	10-Sep-2010					
6	Draft UFP-SAP for PSC 55	10-Sep-2010					
7	Draft UFP-SAP for PSC 38	10-Sep-2010					
CH2MHILL Documents							
1	Draft Annual Monitoring Report - Gas Hill	5-Feb-2010	NA	NA	NA	NA	X
2	Final Vapor Intrusion Work Plan - OU 3	16-Apr-2010		NA	NA	NA	NA
3	Draft Final Pesticide Shop Annual Groundwater Monitoring Report	7-Jun-2010			NA	NA	NA
4	Draft Remedial Action Completion Report - Pesticide Shop	14-Jun-2010	NA	NA	NA	NA	X

**Tetra Tech NUS, Inc. Schedule
Naval Air Station Jacksonville**

ID	Task Name	Actual Start	Actual Finish	Start	Finish
1	Hangar 1000 MNA Baseline Study	Tue 8/12/03	NA	Tue 8/12/03	Wed 11/24/10
2	First Quarter Sampling	Tue 8/12/03	Tue 8/12/03	Tue 8/12/03	Tue 8/12/03
3	Team Review of Draft-Final FFS Report	Wed 8/13/03	Tue 3/16/04	Wed 8/13/03	Tue 3/16/04
4	Submit Final R/FFS to Team	Wed 3/17/04	Wed 3/17/04	Wed 3/17/04	Wed 3/17/04
5	Submit Draft Proposed Plan	Tue 8/30/05	Tue 8/30/05	Tue 8/30/05	Tue 8/30/05
6	Team Review of Draft Proposed Plan	Wed 8/31/05	Fri 4/28/06	Wed 8/31/05	Fri 4/28/06
7	Submit Final Proposed Plan	Wed 5/10/06	NA	Wed 5/10/06	Wed 5/10/06
8	Submit Draft ROD	NA	NA	Fri 6/9/06	Fri 6/9/06
9	Team Review of Draft ROD	NA	NA	Thu 1/11/07	Thu 1/11/07
10	Submit Final ROD	NA	NA	Fri 1/12/07	Fri 1/12/07
11	Hangar 1000 LUCRD - Draft	NA	NA	Mon 7/2/07	Tue 7/31/07
12	Team Review of LUCRD	NA	NA	Wed 8/1/07	Thu 8/30/07
13	Submit Final LUCRD	NA	NA	Mon 10/1/07	Fri 10/12/07
14	Hangar 1000 MNA Work Plan - Draft	NA	NA	Fri 8/24/07	Fri 10/12/07
15	Team Review - MNA Work Plan	NA	NA	Mon 3/24/08	Fri 5/2/08
16	Submit Final MNA Work Plan	NA	NA	Mon 5/5/08	Fri 5/16/08
17	Hangar 1000 Semiannual Monitoring Report	Mon 11/23/09	NA	Mon 11/23/09	Mon 8/30/10
18	Team Review - Semiannual Monitoring Report	NA	NA	Thu 9/30/10	Thu 9/30/10
19	Submit Final Semi-annual Monitoring Report	NA	NA	Mon 10/4/10	Fri 10/8/10
20	Submit Hangar 1000 Draft Annual Monitoring Report	NA	NA	Fri 9/3/10	Fri 10/15/10
21	Team Review Draft Annual Monitoring Report	NA	NA	Thu 11/18/10	Thu 11/18/10
22	Submit Final Annual Monitoring Report	NA	NA	Tue 11/24/10	Wed 11/24/10
23	OU 3 - RIFS Addendum	Tue 9/15/09	NA	Tue 9/15/09	Fri 11/16/12
24	DQO Meeting # 1	Tue 9/15/09	NA	Tue 9/15/09	Tue 9/15/09
25	Prepare Draft UFP SAP	Fri 10/16/09	NA	Fri 10/16/09	Fri 3/12/10
26	Team Review of UFP SAP	NA	NA	Mon 4/5/10	Fri 5/14/10
27	Submit Final UFP SAP	NA	NA	Fri 5/28/10	Wed 6/30/10
28	Field Execution	NA	NA	Tue 6/1/10	Fri 1/5/10
29	Prepare Draft RI Addendum	NA	NA	Mon 1/31/11	Fri 3/11/11
30	Team Review RI Addendum	NA	NA	Mon 3/14/11	Mon 4/18/11
31	Prepare Draft FS	NA	NA	Tue 4/19/11	Tue 8/2/11
32	Team Review Draft FS Addendum	NA	NA	Wed 8/3/11	Mon 9/5/11
33	Submit Final FS Addendum	NA	NA	Tue 9/6/11	Fri 11/18/11
34	Draft Proposed Plan	NA	NA	Mon 9/3/12	Fri 10/26/12
35	Team Review Draft Proposed Plan	NA	NA	Mon 10/29/12	Mon 10/29/12
36	Final PP/2Public Meeting	NA	NA	Tue 10/30/12	Fri 11/16/12
37	Prepare Draft ROD	NA	NA	Fri 3/16/12	Fri 6/8/12
38	Team Review Draft ROD	NA	NA	Mon 6/11/12	Fri 7/27/12
39	Incorporate Final ROD comments	NA	NA	Fri 8/31/12	Fri 8/31/12
40	Issue Final ROD	NA	NA	Mon 9/3/12	Mon 9/3/12
41	OU 1 - Investigation	Mon 8/15/05	NA	Mon 8/15/05	Mon 9/20/10
42	Submit Draft OU 1 SAP	Mon 8/15/05	Mon 8/15/05	Mon 8/15/05	Mon 8/15/05
43	Team Review of Draft OU 1 SAP	Tue 8/16/05	Mon 10/3/05	Mon 10/3/05	Mon 10/3/05
44	Submit Final OU 1 SAP	Fri 10/7/05	Fri 10/7/05	Fri 10/7/05	Fri 10/7/05
45	Issue Final OU 1 Soil Gas Survey and GW Letter Report	Mon 11/7/05	NA	Mon 11/7/05	Thu 4/30/09
46	Submit Draft SAP for area west of OU-1	Mon 1/1/07	NA	Mon 1/1/07	Fri 1/19/07
47	Team Review of Draft SAP for area west of OU-1	Fri 1/19/07	Fri 1/19/07	Fri 1/19/07	Fri 1/19/07
48	Submit Final SAP for area west of OU-1	Mon 2/19/07	Mon 2/19/07	Mon 2/19/07	Mon 2/19/07
49	Submit Draft Sampling Event Report for OU-1 West Side	Fri 7/20/07	Fri 1/1/08	Fri 7/20/07	Fri 1/1/08

Project: NAS JAX Sched 2-01
Date: Tue 8/24/10

Page 1

Task

Split

Progress

Milestone

Summary

Roll Up Task

Roll Up Split

Roll Up Milestone

Roll Up Progress

External Tasks

Project Summary

External Milestone

Legend:

- Task: [Blue Bar]
- Split: [Dashed Line]
- Progress: [Black Bar]
- Milestone: [Diamond]
- Summary: [Dotted Line]
- Roll Up Task: [Thick Blue Bar]
- Roll Up Split: [Dashed Line]
- Roll Up Milestone: [Diamond]
- Roll Up Progress: [Thick Black Bar]
- External Tasks: [Blue Bar]
- Project Summary: [Dotted Line]
- External Milestone: [Diamond]

Draft
NAS JAX FAsMP
 UXO Munitions Response Sites

Adrienne Wilson

	Calendar yr 1 2010	Calendar yr 2 2011	Calendar yr 3 2012
PSC 22 Fort Dix Desc: 8 acres, 8 skeet ranges, active from 1943-mids 1950s. Range features demolished late 1990s. 12 guage shot guns used. COCs:lead &PAHs SI to be approved end of 2010 Primary Document None Secondary document UFPSAP RI/FS		12/31/2011	
PSC 23A .50 Caliber Range Desc: 2.25 acres, active from 1941-1978. Range features demolished late 1990s. 12 guage shot guns used. COCs:lead &PAHs SI to be approved end of 2010 Primary Document None Secondary document UFPSAP RI/FS		12/31/2011	
PSC 23B Former Skeet Range Desc: 9.2 acres, 2 skeet ranges, active from 1941-1978. Range features demolished late 1990s. 12 guage shot guns used. COCs:lead &PAHs SI to be approved end of 2010 Primary Document None Secondary document UFPSAP RI/FS		12/31/2011	

	Calendar yr 1 2010	Calendar yr 2 2011	Calendar yr 3 2012
<p>UXO1(PSCs 56,57,58) PSC 56 Akron Road Pistol Range Desc: 2.3 acres, 8 skeet ranges, constructed in 1941. Aug '94 soil samples from backstop exceeded leachable lead(5mg/l), June '95 lime applied to reduce leachability of heavy metals. 1997 range condition inspection determined baffles beyond repair & range was closed. Addtl lime & bullet removal done in 2000. Range officially closed 8/19/02 COCs:antimony, arsenic, copper, nickel, zinc, lead azide/lead styphnate, lead SI to be approved end of 2010 Primary Document None Secondary document UFPSAP RI/FS</p>		12/31/2011	

	Calendar yr 1 2010	Calendar yr 2 2011	Calendar yr 3 2012
<p>PSC 57 .30 Caliber Range Desc: 1.3 acres, active from 1941-1978. Range used as machine gun range & .30 caliber. Closed 8/19/02. COCs: lead, COCs:antimony, arsenic, copper, nickel, zinc, lead azide/lead styphnate SI to be approved end of 2010 Primary Document None Secondary document UFPSAP RI/FS</p>		12/31/2011	

<p>PSC58 Trap Ranges Desc: 10.5 acres, active from 1941-1978. Small arms trng used as machine gun range & .30 caliber. Closed 8/19/02. COCs: lead, COCs:antimony, arsenic, nickel,lead &PAHs from pitch tar in clay pigeons SI to be approved end of 2010 Primary Document None Secondary document UFPSAP RI/FS</p>	<p>Calendar yr 1 2010</p>	<p>Calendar yr 2 2011</p> <p>12/31/2011</p>	<p>Calendar yr 3 2012</p>
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Vapor Intrusion Screening Results

Operable Unit 3

Naval Air Station Jacksonville

Partnering Meeting – August 24-25, 2010



Process to Identify Buildings for Subsequent Site-Specific Vapor Intrusion Evaluations

- Reviewed and compiled available analytical data into a database
- Identified preliminary chemicals of potential concern (COPCs)
 - Updated USEPA (2002) VI generic groundwater screening levels (GWSLs)
 - Compared concentrations with generic vapor intrusion screening levels.
- Identified Preliminary Buildings of Interest
 - Within 100 ft of measured/extrapolated concentrations > generic GWSLs
- Conducted building surveys
 - Building size, HVAC, history/use, and whether chemicals used/stored/released
- Gathered site-specific information for computer modeling
 - Soil type, groundwater depth/temperature, & building characteristics
- Calculated refined site-specific GWSLs using EPA-endorsed J&E model
- Identified final VI Buildings of Interest by determining each building's:
 - Location relative to site-specific GWSL exceedances, potential vadose zone VOC source(s), and the groundwater table
 - Demolition status, occupancy, and the extent to which the building is enclosed.

Identifying Preliminary Buildings of Interest for Surveys

- Determined usable GW monitoring well/piezometer locations (**Figure 3-2**)
Excluded the following wells:
 - Abandoned
 - Screened >15 ft below the water table
 - Screens are >20 ft long
 - The screened interval is unknown
 - No analytical VOC data
- Determined usable DPT sampling locations (**Figure 3-4**). Excluded if:
 - Samples were collected >15 ft below water table
 - There was no sampling date in the current database
- Compared maximum detected concentrations from most recent 2 yrs at each location with VI “generic” GWSLs
 - “Generic” GWSLs derived per the work plan using USEPA (2002) VI methods **and** USEPA (2010) air risk-based screening levels (**Table 3-1**)

Identifying Preliminary Buildings of Interest for Surveys (cont'd)

- COPCs identified based on concentrations > generic GWSLs
 - 1,1,1-TCA; 1,1- and 1,2-DCA; 1,1-DCE; benzene; carbon disulfide; cis- and trans-1,2-DCE; PCE; TCE; and vinyl chloride
- Preliminary Buildings of Interest identified for building surveys
 - Within 100 ft of GW or DPT exceedance of industrial GWSL
 - Within 100 ft of an extrapolated GW plume > industrial GWSL
- Preliminary buildings of interest (**Figure 3-8**)
 - Primary Priority Building. Within 100 ft of monitoring well, DPT, or extrapolated GW plume exceedance of industrial GWSLs
 - Secondary Priority Building Surveys. All other buildings, given uncertainty about chemical usage, shallow vadose zone VOC sources, and/or lack of groundwater data within 100 ft of building

Buildings Surveys

- Primary Priority Building Surveys
 - Detailed surveys conducted by CH2M HILL staff; included pictures
 - Refer to **completed example**
- Secondary Priority Building Surveys
 - Simple questionnaire (**refer to completed example**)
 - What types of operations are being conducted in this building? What was the building used for in the past?
 - Were there ever any chemicals or solvents used or stored in the building?
 - Were there any past chemical releases/spills in or around the building?
 - What is the approximate ceiling height(s) in this building?
 - How many offices and employees are there in this building?
 - CH2M HILL field staff took pictures of and verified dimensions
 - Information used to refine GWSLs using J&E model and help select buildings of interest for site-specific vapor intrusion investigations
- Refer to **Table 4-1** for summary of survey results

Refined Site-Specific GWSLs (**Table 4-7**)

- USEPA (2004) version of Johnson and Ettinger (1991) VI model
 - Capillary fringe/vadose zone diffusion and convective transport into bldg
- Site-specific inputs:
 - **Depth of Contamination of 5 ft bgs.** Historical “average” water table data
 - **Soil Type – Sand.** OU3 cross sections - predominantly sand, with some interspaced clays. Sand selected since clays layers not uniformly present
 - **Enclosed Space Volume.** Two categories of building sizes used to develop site-specific “medium” and “large” building GWSLs.
 - “Medium” and “Large” Building model inputs
 - 6,400 ft² and 26,000 ft² footprints
 - Ceiling heights of 12 and 20 ft
 - Based on range of actual (median) dimensions and professional judgment
 - Medium buildings/spaces: >1,000 ft² to 20,000 ft²
 - Large buildings/spaces: >20,000 ft² to 60,000 ft²
 - Buildings/spaces with > 100,000 ft² footprints or ceiling heights > 40 ft not used
 - **Soil Gas Entry Rate.** Calculated per NJDEP (2005) VI guidance using building footprints (6,400 ft² and 26,000 ft²)
 - **Indoor Air Exchange Rate of 1 hr⁻¹** for Industrial Buildings (CalEPA, 2005)

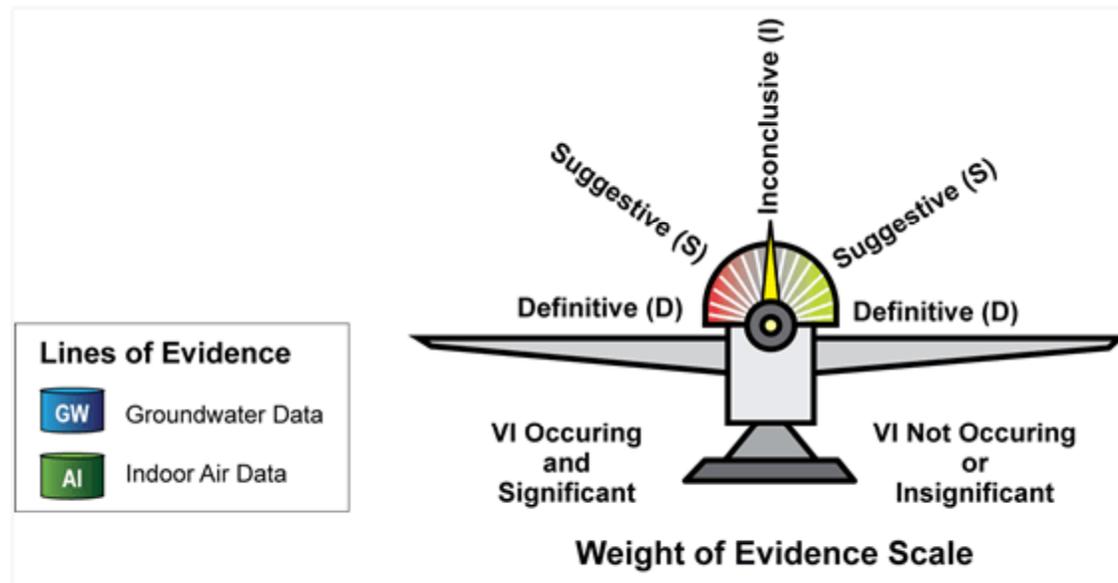
Identifying the Final Buildings of Interest

- Buildings within 100 ft of measured/extrapolated GWSL exceedance of site-specific GWSLs
 - Refer to **Figures E-1 thru E-3** for large building/space GWSL comparisons
 - Refer to **Figures E-4 thru E-6** for medium building/space GWSL comparisons
 - Groundwater concentrations near small buildings compared with generic GWLS (**Figures E-7 thru E-9**)
- Buildings overlying or near (100 ft) known or suspected vadose zone VOC source(s)
- Buildings located over very shallow groundwater (e.g., <3-4 ft bgs) or with basements/subsurface structures
 - Groundwater may contact the bottom of the structure.
- Demolished, unenclosed/elevated, and unoccupied structures eliminated
- 37 of the 76 Preliminary Buildings of Interest were identified as Final Buildings of Interest (**Figure 4-1**). Rationale summarized in **Table 4-8**.
 - Note: Historical/current use of volatile chemicals at buildings should be considered during next phase

Next Step: Site-Specific VI Evaluations

Multiple Lines of Evidence – The Fundamental Truths

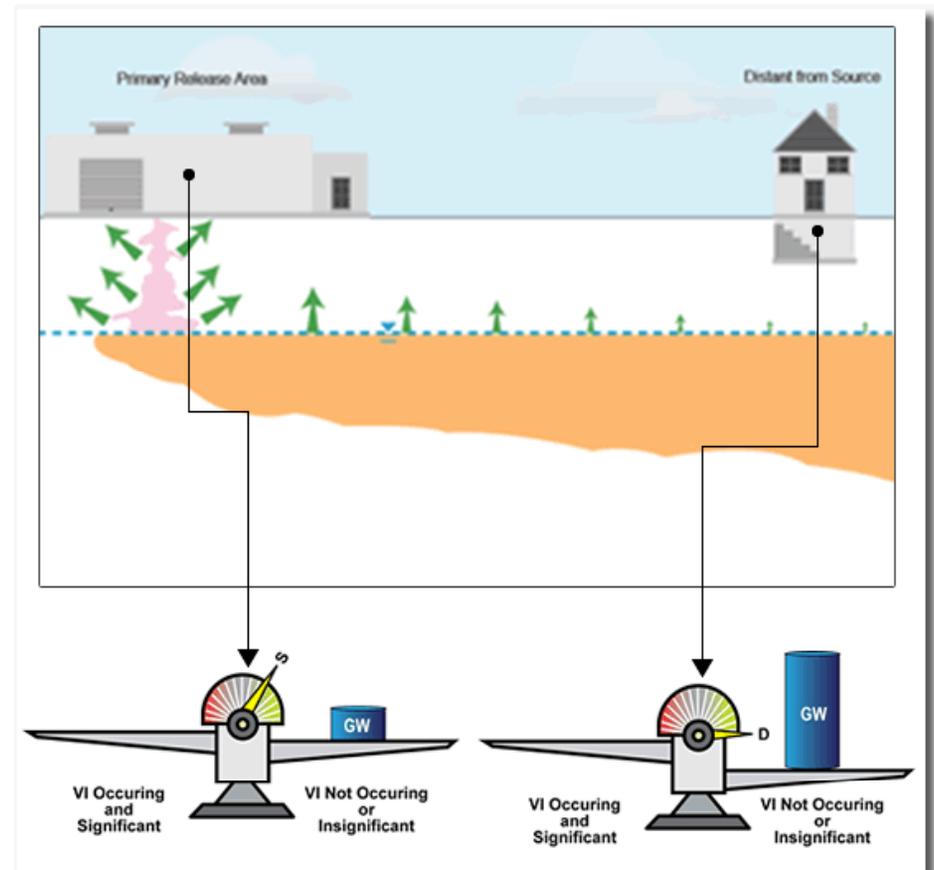
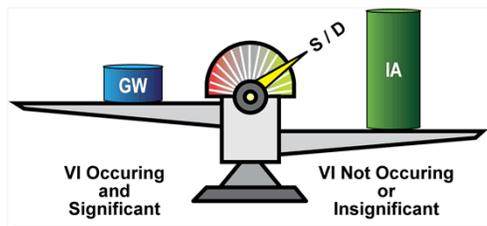
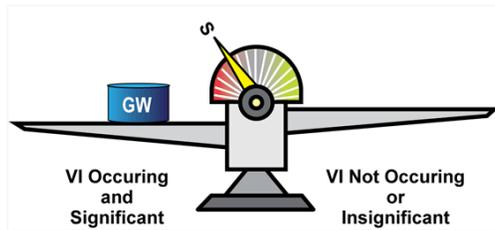
- Multiple lines of evidence are almost always needed
- Not all lines of evidence are created equal
 - Some are better at showing VI is occurring
 - Some are better at showing VI is not occurring
- Consider the strength of the evidence in the context of VI the CSM



Site-Specific VI Evaluations (cont'd)

Strength of the evidence in the context of VI CSM

Strength of the evidence



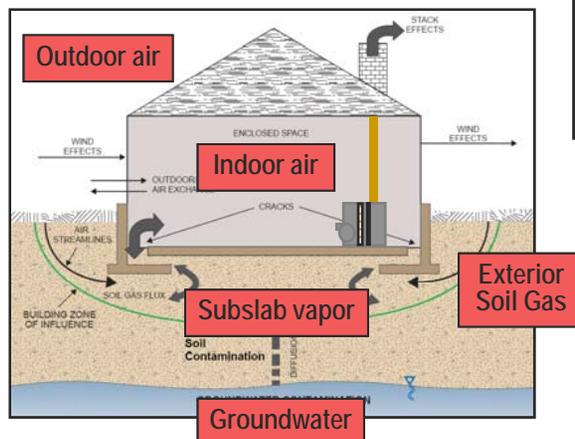
Next Step: Site-Specific VI Evaluations

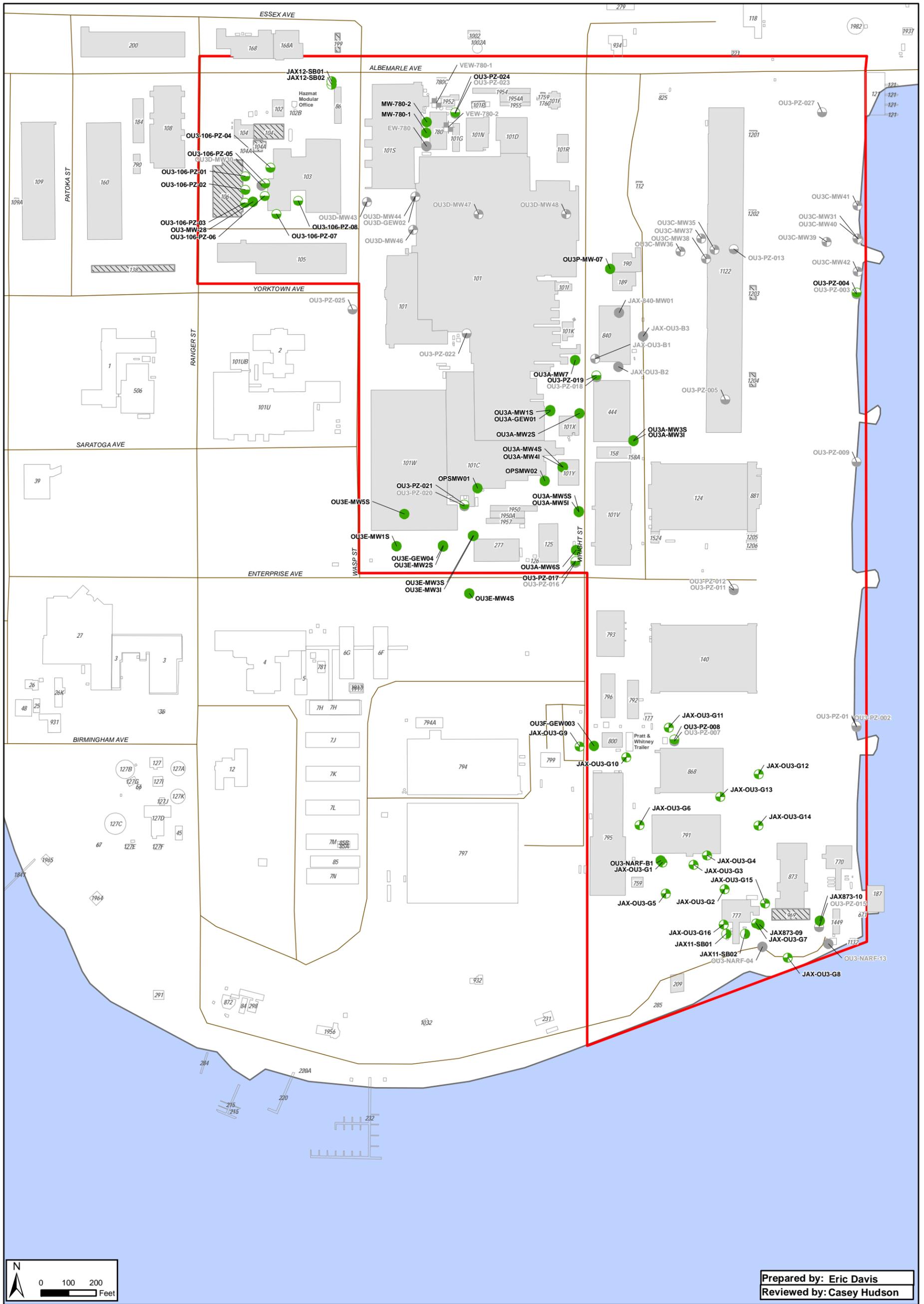
Example Multiple Lines of Evidence

- Site history and soil characteristics
- Soil gas (exterior or sub-slab) data
- Groundwater data
- Building construction/conditions (e.g., air pressure)
- Building activities & occupancy
- Indoor air data
- Concurrent outdoor air samples
- Indoor/outdoor background
- Chemical ratios / forensics
- Tracer compounds
- Fate-and-transport modeling
- Results of the risk assessment

Other considerations

- Intrusiveness
- Occupant relations
- Ownership/access
- Mission needs
- Sustainability
- Schedule, Cost
- Other data needs

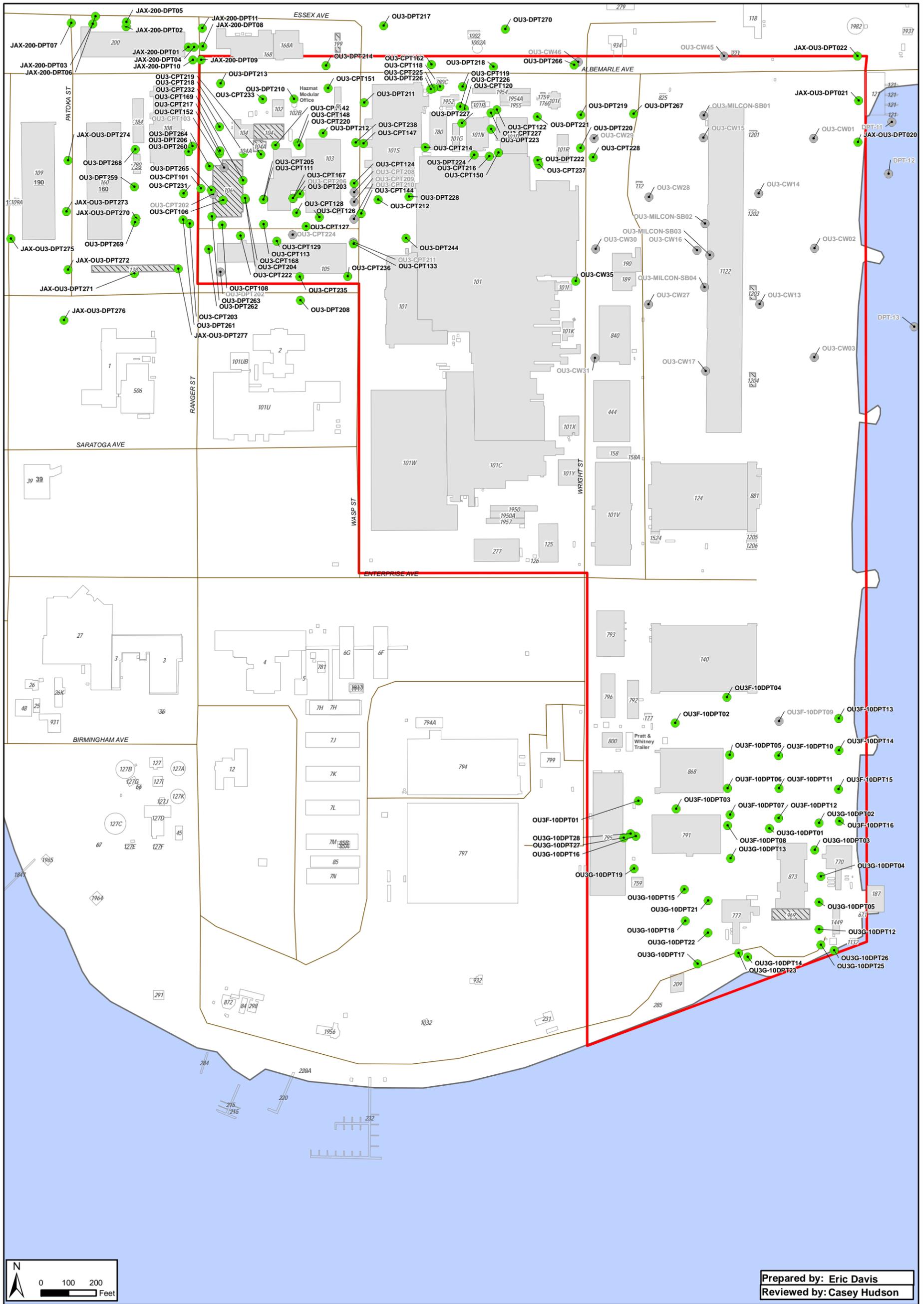




Prepared by: Eric Davis
 Reviewed by: Casey Hudson

- Retained Monitoring Well
- Excluded Monitoring Well
- ⊕ Retained Multi-Chamber Well
- ⊕ Excluded Multi-Chamber Well
- Retained Piezometer
- Excluded Piezometer
- Retained Temporary Piezometer
- ⊠ Excluded Active Vapor Extraction Well
- Structure Included in Evaluation
- Demolished Structure
- Structure Not Evaluated
- Water Body
- OU3 Site Boundary

FIGURE 3-2
 Monitoring Wells Retained for
 Vapor Intrusion Screening Evaluation
 NAS Jacksonville, Florida



Prepared by: Eric Davis
 Reviewed by: Casey Hudson

FIGURE 3-4
 DPT Points Retained for
 Vapor Intrusion Screening Evaluation
 NAS Jacksonville, Florida

- Retained DPT Point
- Excluded DPT Point
- Structure Included in Evaluation
- Demolished Structure
- Structure Not Evaluated
- OU3 Site Boundary
- Water Body

TABLE 3-1
 Generic Industrial Vapor Intrusion Groundwater Screening Levels
 NAS Jacksonville, Florida

CAS #	Volatile Organic Compounds ^a	Industrial Air RSL ^b		Groundwater Attenuation Factor ^c (unitless)	Temp-Adjusted Henry's Law Constant (H ^o TS) ^d (unitless)	Non-Cancer (Adjusted) Generic GWSL ^e (ug/L)	Cancer Generic GWSL ^e (ug/L)	Final Generic GWSL ^f (ug/L)
		Non-Cancer (ug/m ³)	Cancer (ug/m ³)					
Detected Compounds								
71-55-6	1,1,1-Trichloroethane	2.19E+03	NA	1E-03	6.50E-01	3.37E+03	NA	3.37E+03 n
79-34-5	1,1,2,2-Tetrachloroethane	NA	2.11E-01	1E-03	1.27E-02	NA	1.67E+01	1.67E+01 c
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.31E+04	NA	1E-03	1.93E+01	6.78E+02	NA	6.78E+02 n
79-00-5	1,1,2-Trichloroethane	NA	7.67E-01	1E-03	2.89E-02	NA	2.65E+01	2.65E+01 c
75-34-3	1,1-Dichloroethane	NA	7.67E+00	1E-03	2.13E-01	NA	3.59E+01	3.59E+01 c
75-35-4	1,1-Dichloroethylene	8.76E+01	NA	1E-03	1.00E+00	8.74E+01	NA	8.74E+01 n
96-12-8	1,2-Dibromo-3-chloropropane	8.76E-02	2.04E-03	1E-03	1.47E-04	5.96E+02	1.39E+01	1.39E+01 c
95-50-1	1,2-Dichlorobenzene	8.76E+01	NA	1E-03	6.50E-02	1.35E+03	NA	1.35E+03 n
107-06-2	1,2-Dichloroethane	1.06E+03	4.72E-01	1E-03	4.22E-02	2.51E+04	1.12E+01	1.12E+01 c
540-59-0	1,2-Dichloroethene (total)	2.63E+01	NA	1E-03	1.55E-01	1.69E+02	NA	1.69E+02 n
541-73-1	1,3-Dichlorobenzene	3.50E+02	1.11E+00	1E-03	8.98E-02	3.90E+03	1.24E+01	1.24E+01 c
106-46-7	1,4-Dichlorobenzene	3.50E+02	1.11E+00	1E-03	8.22E-02	4.26E+03	1.35E+01	1.35E+01 c
67-64-1	Acetone	1.35E+04	NA	1E-03	1.27E-03	1.06E+07	NA	1.06E+07 n
71-43-2	Benzene	1.31E+01	1.57E+00	1E-03	2.00E-01	6.56E+01	7.86E+00	7.86E+00 c
75-27-4	Bromodichloromethane	NA	3.31E-01	1E-03	7.56E-02	NA	4.38E+00	4.38E+00 c
75-15-0	Carbon disulfide	3.07E+02	NA	1E-03	5.51E-01	5.57E+02	NA	5.57E+02 n
108-90-7	Chlorobenzene	2.19E+01	NA	1E-03	1.09E-01	2.01E+02	NA	2.01E+02 n
75-00-3	Chloroethane	4.38E+03	NA	1E-03	4.29E-01	1.02E+04	NA	1.02E+04 n
67-66-3	Chloroform	4.28E+01	5.33E-01	1E-03	1.39E-01	3.08E+02	3.83E+00	3.83E+00 c
74-87-3	Chloromethane	3.94E+01	NA	1E-03	3.45E-01	1.14E+02	NA	1.14E+02 n
156-59-2	cis-1,2-Dichloroethene	2.63E+01	NA	1E-03	1.54E-01	1.70E+02	NA	1.70E+02 n
98-82-8	Cumene	1.75E+02	NA	1E-03	3.83E-01	4.57E+02	NA	4.57E+02 n
110-82-7	Cyclohexane	2.63E+03	NA	1E-03	6.68E+00	3.94E+02	NA	3.94E+02 n
100-41-4	Ethylbenzene	4.38E+02	4.91E+00	1E-03	2.74E-01	1.60E+03	1.79E+01	1.79E+01 c
99-87-6	Isopropyltoluene	1.75E+02	NA	1E-03	3.83E-01	4.57E+02	NA	4.57E+02 n
108-87-2	Methyl cyclohexane	2.63E+03	NA	1E-03	6.68E+00	3.94E+02	NA	3.94E+02 n
1634-04-4	Methyl tert-butyl ether	1.31E+03	4.72E+01	1E-03	2.14E-02	6.11E+04	2.20E+03	2.20E+03 c
75-09-2	Methylene chloride	4.56E+02	2.61E+01	1E-03	1.19E-01	3.83E+03	2.19E+02	2.19E+02 c
127-18-4	Tetrachloroethylene	1.19E+02	2.08E+00	1E-03	6.56E-01	1.81E+02	3.17E+00	3.17E+00 c
108-88-3	Toluene	2.19E+03	NA	1E-03	2.35E-01	9.33E+03	NA	9.33E+03 n
156-60-5	trans-1,2-Dichloroethene	2.63E+01	NA	1E-03	1.55E-01	1.69E+02	NA	1.69E+02 n
79-01-6	Trichloroethylene	NA	6.13E+00	1E-03	3.52E-01	NA	1.74E+01	1.74E+01 c
75-01-4	Vinyl chloride	4.38E+01	2.79E+00	1E-03	1.09E+00	4.03E+01	2.57E+00	2.57E+00 c
1330-20-7	Xylenes, total	4.38E+01	NA	1E-03	1.80E-01	2.44E+02	NA	2.44E+02 n

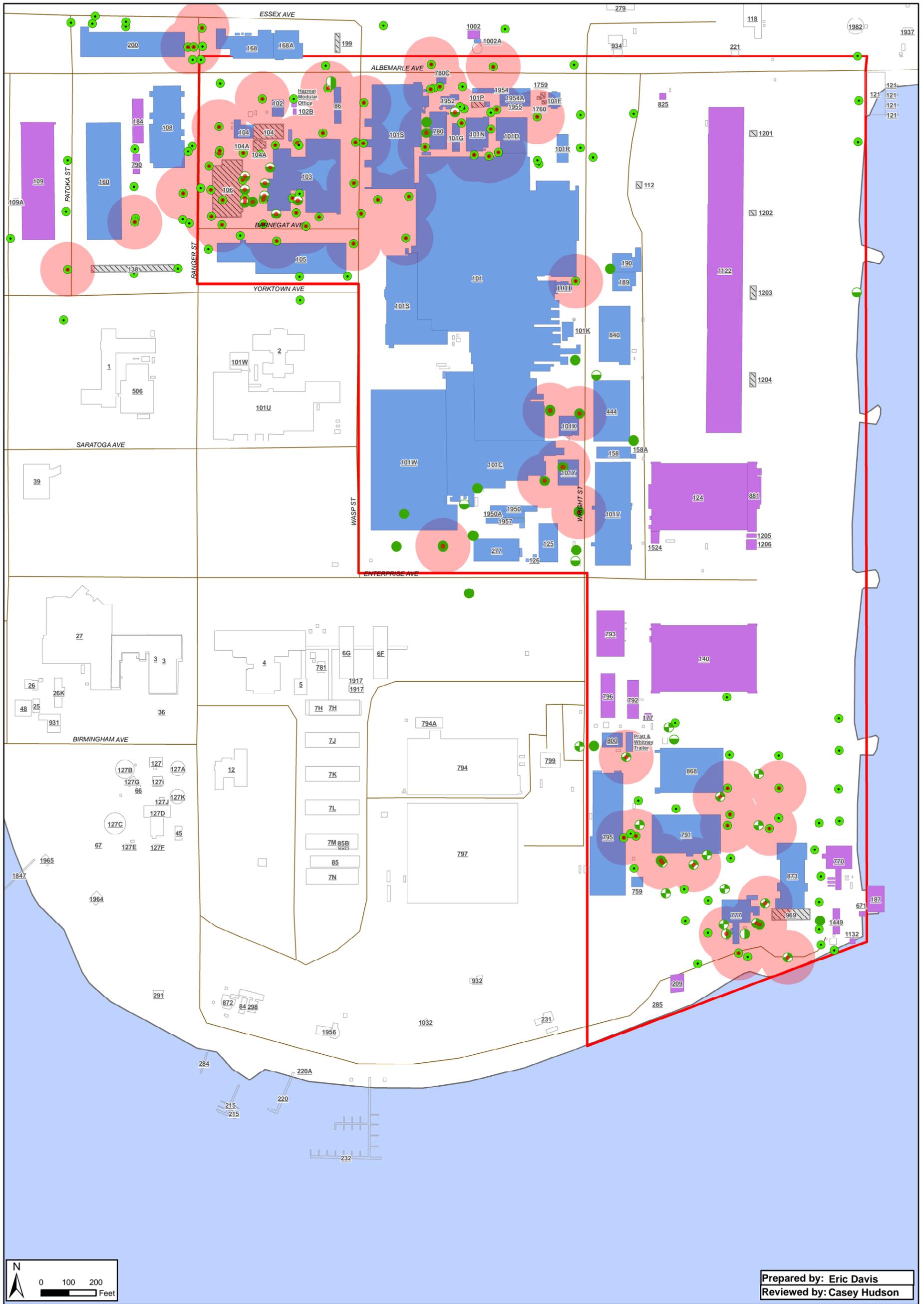


FIGURE 3-8
 Preliminary Buildings of Interest Identified for Vapor Intrusion Screening Evaluation - Pre Site Walk
 NAS Jacksonville, Florida

- Retained Monitoring Well
- Retained Multi-Chamber Well
- Retained Piezometer
- Retained Temporary Piezometer
- Retained DPT Point
- Retained Well/DPT Point with Exceedance
- 100ft Buffer of Exceedance
- Primary Priority Building Survey
- Secondary Priority Building Survey
- Structure Included in Evaluation
- Demolished Structure
- Structure Not Evaluated
- OU3 Site Boundary
- Water Body

Date/Time: 12 May 2010 / from - to -
Preparer: Shirley Steinmacher, Eric Davis ; filled out by Stan Garrison 5/11/10

Facility: Naval Air Station Jacksonville, Jacksonville, FL
Address: Wright Street, near corner with Enterprise Ave.

Contact Person and Title: Stan Garrison, Industrial Management/Support, FRC
Phone Number: 904-542-5990 x142
e-mail address: stanley.garrison@navy.mil

Building Description

Building or Room Identifier: 125 FRCSE

Primary Activities within Building, Currently (C) and Historically (H) (select at least one):

- Manufacturing
- ^{SIS} Storage
- Other (explain in Notes below)
- Chemical processing
- Chemical Storage
- Administrative
- Instrumentation/Control

Notes: BATTERY SHOP, WAS AUTO SHOP, WAS TORPEDO WORKSHOP
sp: Office for supervisor; break room

Approximate number of occupants: 25
Approximate floor space (area): 9700
Ceiling height (note if drop ceiling present): 8' → 25'
Number of floors: 1 WITH SMALL STGE MEZZ.

Multi-room building? or Single room

Above-ground Construction Wood Concrete
 Brick Cinderblock
 Other STEEL, TRANSIT

Floor plan attached? Yes No

Notes:

Evaluation of Potential Conduits from Subsurface

Floor/foundation description (check all that apply)

Wood Concrete Concrete slab thickness: ? 6
 Other Elevated above grade? Below grade?

Expansion joints present (if concrete floor)? Yes No N/A
 Are expansion joints sealed? ? Yes No N/A
 Any sumps or floor drains present? Yes No N/A
 Any basements, crawl spaces, or subsurface vaults present? Yes No N/A
 Are/were there subsurface drainage problems/issues or flooding? Yes No N/A

Notes: BATTERY ACID WAS DUMPED INTO DRY WELL BEHIND BLDG

Evaluation of Potential Pathways/Driving Forces

Are there locations with elevated positive or negative pressure (look for doors not opening/closing properly, perceptible airflow, audible fan noise)?

BATTERY CHARGING AREA

Is there one air conditioning/handling zone or are there multiple zones (if in a multi-room building)?

Single zone Multi-zone Other MULTIPLE UNITS

Sources of outdoor air:

Mechanical (air handling unit) Doors
 Windows Other IND. EXH-SYS.

Are windows/doors left open routinely? Yes No

Notes: sjs: building is well-ventilated

Evaluation of Potential Existing Chemical Sources Indoors

List principal solvent- or VOC-containing products used (obtain product name, number)

? Due TO HISTORY ... PROBABLY

Are any of the target analytes used in this building/room currently (list below)?

Yes

No

Were any of the target analytes used in this building/room historically (list below)?

Yes

No

Description of Vapor/Other Mitigation Systems

Has a radon or vapor mitigation system been installed in this building/room?

Yes

No

Date of installation?

Type of system?

Passive venting

Active subslab depressurization

Crack/crevice sealing

Dilution ventilation control

N/A

Other (describe below)

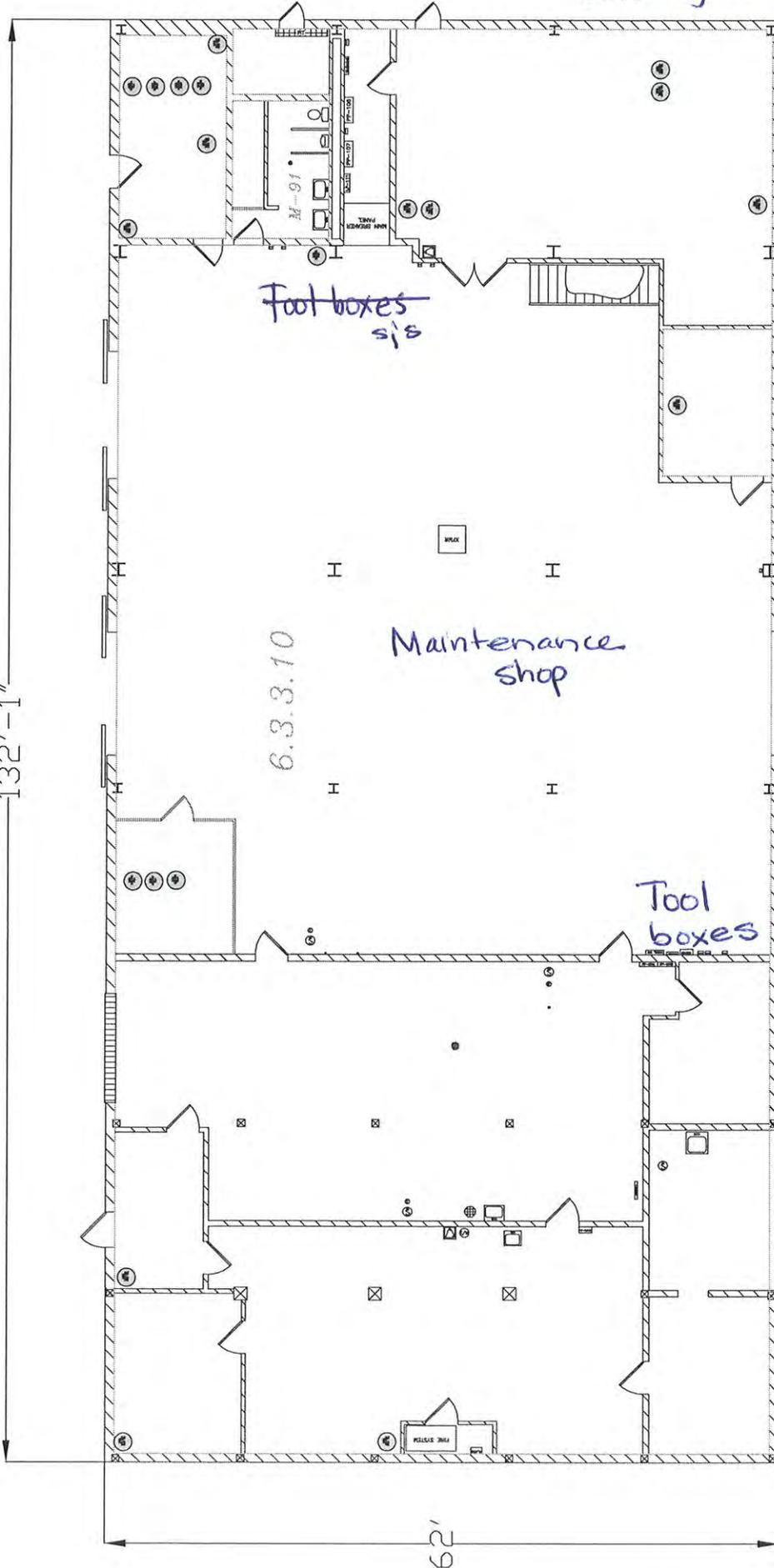
Notes:

125.1B9



← Z

132'-1"



Tool boxes
s/s

6.3.3.10

Maintenance shop

Tool boxes

North end:
Battery storage

Small offices

Supervisor office and break room on south end (top of page, actually)

SCALE : 3/16" = 1'-0"
DATE : SEPTEMBER 30, 2008

62'

Building Survey

Building Number: 124 AIRCRAFT HANGAR WITH ADMIN

Building Supervisor: none

Contact Phone Number: Stan Garrison, Industrial Management Support/Facilities 542-5990 X 142

1. What types of operations are conducted in this building? What was it used for in the past?

CURRENT: AIRCRAFT OVERHAUL AND REPAIR, SOME ADMIN SPACES

PREVIOUS: SEAPLANE HANGAR, SOME ADMIN

2. Was there ever any chemical or solvent use or storage in the building?
YES, personal knowledge of Garrison

3. Were there any past chemical releases/spills in or around the building?
VERY LIKELY, based on past operations

qts to gallons range

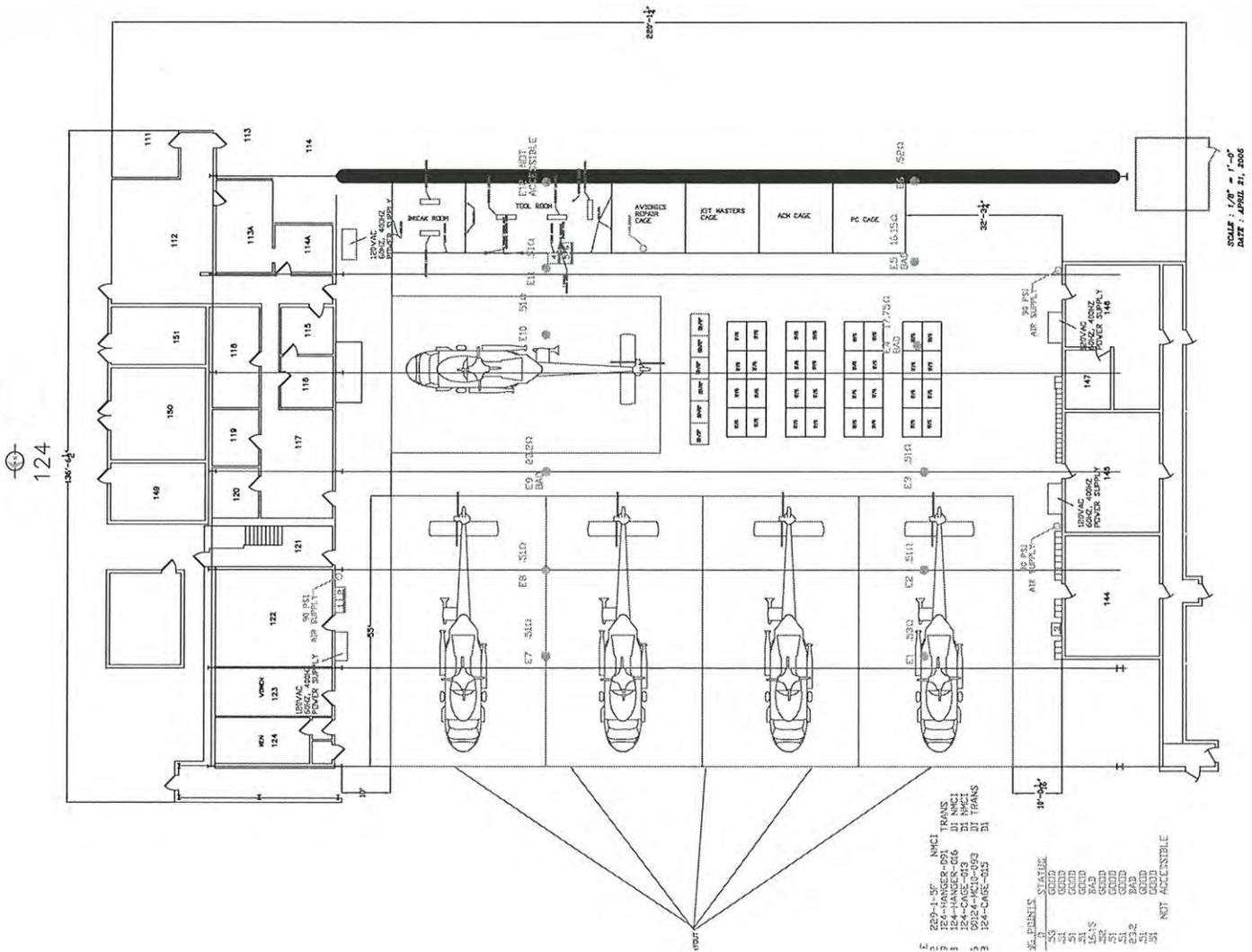
4. What is the ceiling height in this building?

VARIES FROM 8 FT IN ADMIN AREAS TO 45FT IN THE HANGAR

5. How many offices and employees in this building?

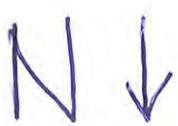
100 EMPLOYEES, 50 OFFICES

NAS JAX
 Building 124
 May 12, 2010



- 1 220-1-5F NMC1
- 2 220-1-5F TRANS
- 3 220-1-5F TRANS
- 4 220-1-5F TRANS
- 5 220-1-5F TRANS

NO.	DESCRIPTION	STATUS
1	220-1-5F	GOOD
2	220-1-5F	GOOD
3	220-1-5F	GOOD
4	220-1-5F	GOOD
5	220-1-5F	GOOD
6	220-1-5F	GOOD
7	220-1-5F	GOOD
8	220-1-5F	GOOD
9	220-1-5F	GOOD
10	220-1-5F	GOOD
11	220-1-5F	GOOD
12	220-1-5F	GOOD
13	220-1-5F	GOOD
14	220-1-5F	GOOD
15	220-1-5F	GOOD
16	220-1-5F	GOOD
17	220-1-5F	GOOD
18	220-1-5F	GOOD
19	220-1-5F	GOOD
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93	220-1-5F	GOOD
94	220-1-5F	GOOD
95	220-1-5F	GOOD
96	220-1-5F	GOOD
97	220-1-5F	GOOD
98	220-1-5F	GOOD
99	220-1-5F	GOOD
100	220-1-5F	GOOD



Building 124

All remodeled
as below.

✓ unoccupied, currently
will be helicopter hangar

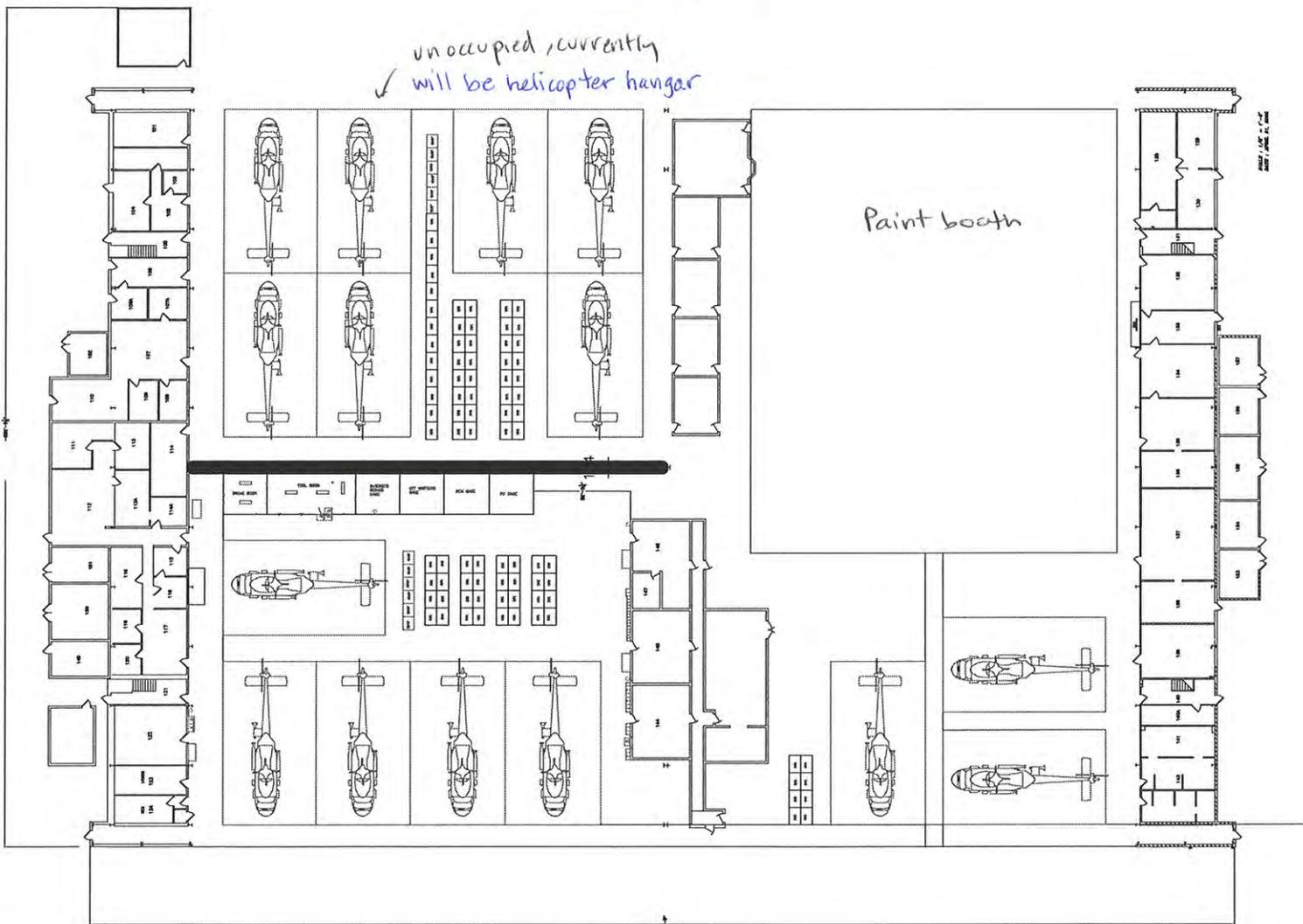


Table 4-1
 Building Surveys Results
 NAS Jacksonville, Florida

Primary Priority (1) or Secondary Priority (2)?	Building #	Year Built	Building Floor Area (approximate)	Building Ceiling Height (approximate)	Compartmentalized ¹	Occupancy	Building Use	Historic or Current Solvents / Chemicals Use?	Floors Above Ground ²	Construction Material ²	Basement or Subsurface Structure ²	Slab on Grade? ²	Building Size Category? ¹
1	86	last 10 years	3,250	25	Unknown	Unknown	Steam Generating Plant	Unknown	Unknown	Sheet Metal Exterior	Unknown	Yes	Medium
1	101	~1943	819,280	8 to 70	Yes	Occupied	Aircraft Maintenance, Administrative/Office, Instrumentation/Controls, Warehouse, Chemical Storage, Storage, Chemical Processing, Restaurant/Cafeteria, Painting/Restoration, Hangar, Work Shop(s)	Yes	3 Mostly Single Floor	Cinderblock, Concrete	No	Yes	Large
1	101C	~1943	270,900	8	Yes	Occupied	Part of Building 101	Yes	1	Unknown	Unknown	Unknown	Large
1	101I	~1943	Unknown	Unknown	Unknown	Occupied	Part of Building 101	Unknown	Unknown	Unknown	Unknown	Unknown	Medium
1	101D	~1943	15,960	8 to 35	Yes	Occupied	Aircraft Landing Gear Refurbish, Painting/Restoration, Chemical Storage, Administrative/Office	Yes	3 Mostly Single Floor	Cinderblock, Concrete	No	Yes	Medium
1	101F	1943	2,475	10	No	Occupied	Administrative/Office, Classroom(s)/Training	Yes	1	Cinderblock	No	Yes	Medium
1	101G	1944	2,500	9	No	Occupied	Laundry/Chemical Warehouse	Yes	1	Cinderblock, Concrete	No	Yes	Medium
1	101K	1945	2,600	10	No	Occupied	CO2 Plant (Manufacturing, Storage)	Yes	1	Concrete	No	Yes	Medium
1	101N	1945	9,000	10	No	Occupied	Ordnance Shop (Manufacturing, Storage)	Yes	1	Cinderblock, Concrete	No	Yes	Medium
N/A	101P	Early 1940s	N/A	N/A	N/A	N/A	Gun Range - Demolished	Unknown	N/A	N/A	N/A	N/A	N/A
1	101R	1946	7,500	16	Yes	Occupied	Flammable Storage Warehouse	Yes	1	Concrete	No	Yes	Medium
1	101S	1954	66,246	8 to 45	Yes	Occupied	Disassembly/Stripping Building	Yes	Unknown	Cinderblock, Concrete	Yes	Yes	Medium
1	101V	1955	41,529	8 to 20	Yes	Occupied	Maintenance Shop	Yes	2	Cinderblock, Concrete	No	Yes	Medium, Large
1	101W	~1943	190,380	9 to 45	Yes	Occupied	Hangars and Maintenance	Yes	3 Mostly Single Floor	Cinderblock, Concrete	No	Yes	Medium
1	101X	1957	5,929	10	N/A	Unoccupied	Acetylene Generator Building	Yes	2	Concrete	Yes	Yes	N/A
1	101Y	Unknown	4,550	15 to 20	N/A	Unoccupied	Small vehicle steam cleaning, Storage	Unlikely	1	Steel frame	No	Yes	N/A
1	102	1990	2,400	9	N/A	Unoccupied	Hazardous materials storage and distribution	Likely	1	Concrete	No	Yes	N/A
1	102B	Unknown	NA	NA	No	Occupied	Office/Administrative	No	1	Unknown	No	No	N/A
1	103	1950	56,700	8 to 16	Yes	Occupied	Maintenance Shop	Yes	1	Cinderblock, Concrete	No	Yes	Medium, Large
N/A	104 (East)	Unknown	N/A	N/A	N/A	N/A	Steam Generating Plant - Demolished	Unlikely	N/A	N/A	N/A	N/A	N/A
1	104 (West)	Unknown	5,000	15	No	Limited Occupancy	Air Compressor Plant	Unknown	1	Concrete	No	Yes	Medium
N/A	104A	1905	N/A	N/A	N/A	N/A	Air Plant Storage Building - Demolished	Unlikely	N/A	N/A	N/A	N/A	N/A
1	105	1944	46,000	8 to 20	Yes	Occupied	Fire Station, Garage	Unknown	1	Wood	No	Yes	Large
1	108	1942	50,400	15	N/A	Unoccupied	Storage	Likely	1	Cinderblock, Concrete	No	Yes	N/A
2	109	1942	46,750	51	No	Occupied	Shipping Prep, Storage	No	1	Unknown	Unknown	Unknown	N/A
N/A	112	1986	N/A	N/A	N/A	N/A	Paint Shed - Demolished	Possibly	N/A	N/A	N/A	N/A	N/A
2	124	1941	117,000	8 to 45	Yes	Occupied	Hangars, Paint Booth	Yes	2	Unknown	Unknown	Unknown	Large
1	125	1941	8,184	8 to 25	Yes	Occupied	Battery Shop	No	1	Concrete, Wood	No	Yes	Medium
1	126	1941	182	7	N/A	Unoccupied	Transformer vault	No	1	Metal	No	Yes	N/A
N/A	138	Unknown	N/A	N/A	N/A	N/A	Concrete Slab - Demolished	Unlikely	N/A	N/A	N/A	N/A	N/A
2	140	1942	82,250	8 to 45	Yes	Occupied	Aircraft GSE Overhaul	Yes	Unknown	Unknown	Unknown	Unknown	Medium
1	158	1986	3,600	20	N/A	Unoccupied	Storage Shed	No	1	Steel	No	Yes	N/A
1	158A	Unknown	Unknown	Unknown	No	Unoccupied	Storage Shed	No	1	Steel	No	Yes	N/A
1	160	1943	50,400	20	No	Occupied	Storage	No	1	Concrete	No	Yes	Large
1	168	1942-8	21,000	10 to 20	Yes	Occupied	Target, Surveillance, Radar Systems	Yes	2	Cinderblock, Wood, Steel	No	Yes	Medium
1	168A	1996	10,000	40	No	Limited Occupancy	Target, Surveillance, Radar Systems	Yes	1	Metal	No	Yes	Medium
2	177	1944	460	10	No	Limited Occupancy	Defueling Equipment Storage	Yes	1	Unknown	Unknown	Unknown	Small
2	184	1990	4,500	N/A	N/A	20	Storage	No	Unknown	Steel	Unknown	Unknown	N/A
2	187	Unknown	Not Measured	N/A	N/A	Unoccupied	Decommissioned/Idle	No	N/A	Concrete	Unknown	No	N/A
1	189	1945	13,640	10 to 25	Yes	Limited Occupancy	Painting/Restoration, Steam Cleaning, X-Ray Processing, Welding	Yes	1	Cinderblock, Sheet Metal	No	Yes	Small, Medium
1	190	1945	13,640	10 to 30	Yes	Limited Occupancy	Painting/Restoration, Paint Stripping, Steam Cleaning	Yes	1	Cinderblock, Sheet Metal	No	Yes	Small, Medium
N/A	199	Unknown	N/A	N/A	N/A	N/A	Demolished	Unknown	N/A	N/A	N/A	N/A	N/A
1	200	before 1960	34,200	10 to 30	Yes	Occupied	Aircraft Maintenance, Administrative/Office, Classroom(s)/Training (NATEC), Welding	Suspected	2	Concrete, Wood	Yes	Yes	Medium, Large
2	209	Unknown	3,000	N/A	N/A	Unoccupied	Concrete pad with tie-downs	No	N/A	Unknown	Unknown	Yes	N/A

Table 4-1
 Building Surveys Results
 NAS Jacksonville, Florida

Primary Priority (1) or Secondary Priority (2)?	Building #	Year Built	Building Floor Area (approximate)	Building Ceiling Height (approximate)	Compartmentalized ¹	Occupancy	Building Use	Historic or Current Solvents / Chemicals Use?	Floors Above Ground ²	Construction Material ²	Basement or Subsurface Structure ²	Slab on Grade? ²	Building Size Category? ¹
1	277	1962	12,000	12 to 16	Yes	Occupied	Equipment Staging	Unknown	1	Metal	No	Yes	Medium
2	285	1962	121	8	N/A	Unoccupied	Storage	No	1	Steel	No	Yes	N/A
1	444	1997	30,276	8 to 40	Yes	Limited Occupancy	Storage	No	2	Sheet Metal Exterior	No	Yes	Medium
1	671	Unknown	64	8	N/A	Unoccupied	Shed for liquid oxygen	No	1	Other	No	N/A	N/A
1	759	1989	1,554	20	N/A	Unoccupied	Chemical Storage	Yes	1	Steel	No	Yes	N/A
2	770	1985	9,800	8 to 20	Yes	Limited Occupancy	Instrumentation/Control, Engine Test Cell(s)	Yes	Unknown	Unknown	Unknown	Unknown	Small, Medium
1	777	1996	11,440	8 to 25	Yes	Limited Occupancy	Instrumentation/Control, Engine Test Cell(s)	Yes	1	Steel	No	Yes	Small, Medium
1	780	1969	8,400	8 to 30	Yes	Occupied	Decommissioned/Idle, but with office space	Yes	2	Concrete	No	Yes	Small, Medium
1	780C	Unknown	840	8 to 30	Yes	Unoccupied	Decommissioned/Idle	Yes	1	Unknown	No	Yes	N/A
2	790	1968	1,500	20	N/A	Unoccupied	Storage	No	Unknown	Unknown	Unknown	Unknown	N/A
1	791	1995	42,875	20	N/A	Limited Occupancy	Storage	N/A	1	Aluminum Frame	No	Yes	N/A
2	792	1992	5,850	20	N/A	Unoccupied	Warehouse	No	1	Unknown	No	Yes	N/A
2	793	1986	16,700	20	No	Occupied	Materials Engineering Laboratory	Yes	Unknown	Unknown	Unknown	Unknown	Medium
1	795	1971	58,295	20	No	Occupied	Chemical Storage, Administrative	Yes	2	Concrete, Steel	Yes	Yes	Large
2	796	1984	7,500	20	No	Occupied	Chemical Storage	Yes	Unknown	Unknown	Unknown	Unknown	Medium
1	800	1996	4,500	8 to 30	N/A	Unoccupied	Decommissioned/Idle	No	2	Concrete, Steel	No	Yes	N/A
1	825	1971	462	12	N/A	Unoccupied	Sewage lift station	Unlikely	1	Cinderblock	No	Unknown	N/A
1	840	1973	21,000	30	No	Occupied	Foundry	Yes	2	Concrete, Steel	Yes	No	Large
1	868	1976	33,000	8 to 40	Yes	Occupied	Aircraft final finish facility	Yes	3	Concrete, Steel	Yes	No	Medium, Large
1	873	1976	24,000	8 to 50	Yes	Limited Occupancy	Instrumentation/Control, Engine Test Cell(s)	No	2	Concrete	No	Yes	Small, Large
N/A	969	1976	N/A	N/A	N/A	N/A	Water Treatment For #873 - Demolished	Possibly	N/A	N/A	N/A	N/A	N/A
2	1002	1997	46,365	9 to 33	Yes	Occupied	Aircraft Maintenance, Storage, Instrumentation/Control, Administrative/Office, Classroom(s)/Training	Yes	2	Cinderblock, Sheet Metal	No	Yes	Medium, Large
2	1002A	Unknown, but recent	1,125	14	N/A	Unoccupied	Fire Retardant Pumping Facility, Chemical Storage	Yes	1	Cinder Blocks	No	Yes	N/A
2	1122	2009	146,250	8 to 70	Yes	Occupied	Aircraft Hangar, Aircraft Maintenance, Fueling/Refueling, Administrative/Office, Work Shop(s), Painting/Restoration	No	2	Unknown	Unknown	Unknown	Large
2	1132	2002	100	8	N/A	Unoccupied	Radar Tower	No	N/A	Unknown	Unknown	No	N/A
N/A	1201	1988	N/A	N/A	N/A	N/A	Line Shack - Demolished	Unlikely	N/A	N/A	N/A	N/A	N/A
N/A	1202	1988	N/A	N/A	N/A	N/A	Line Shack - Demolished	Unlikely	N/A	N/A	N/A	N/A	N/A
N/A	1203	1988	N/A	N/A	N/A	N/A	Line Shack - Demolished	Unlikely	N/A	N/A	N/A	N/A	N/A
N/A	1204	1988	N/A	N/A	N/A	N/A	Line Shack - Demolished	Unlikely	N/A	N/A	N/A	N/A	N/A
2	1205	1988	1,041	9	N/A	Unoccupied	Decommissioned/Idle	No	1	Unknown	No	No	N/A
2	1206	1988, probably	1,041	9	N/A	Unoccupied	Decommissioned/Idle	No	1	Unknown	No	No	N/A
2	1449	Unknown	1,600	16	No	Unoccupied	Compressed Air Facility	Yes	Unknown	Unknown	Unknown	Unknown	N/A
2	1524	1976	Not Measured	Not Measured	N/A	Unoccupied	Decommissioned/Idle	Unlikely	1	Unknown	No	Unknown	N/A
N/A	1759	1944	N/A	N/A	N/A	N/A	Industrial Waste Pump Station - Demolished	Possibly	N/A	N/A	N/A	N/A	N/A
N/A	1760	1946	N/A	N/A	N/A	N/A	Grit Collection Station - Demolished	Possibly	N/A	N/A	N/A	N/A	N/A
1	1950	1963	3,400	12	No	Limited Occupancy	Warehouse, POL Storage	No	1	Steel	No	Yes	Medium
1	1950A	Unknown	1,500	12	No	Limited Occupancy	Warehouse, Administrative/Office, Storage	No	1	Steel	No	Yes	Medium
1	1952	1983	2,800	12	No	Limited Occupancy	Sandblasting/Glass Beading	No	1	Sheet Metal Exterior	No	Yes	Medium
1	1954	1952	4,000	12	No	Limited Occupancy	Storage	No	1	Sheet Metal Exterior	No	Yes	Medium
1	1954A	1975	2,500	12	No	Occupied	Storage, Administrative/Office	No	1	Sheet Metal Exterior	No	Yes	Medium
1	1955	1952	1,500	12	N/A	Unoccupied	Aircraft Parts Storage	No	1	Sheet Metal Exterior	No	Yes	N/A
1	1957	1952	5,250	12	No	Limited Occupancy	Storage	No	1	Sheet Metal Exterior	No	Yes	Medium
1	NA	Unknown	NA	NA	No	Occupied	HAZMAT Modular Office/Administrative	No	1	Unknown	No	No	N/A
2	None	Unknown	Not Measured	Not Measured	N/A	Occupied	Pratt & Whitney Trailer	Unlikely	Unknown	Unknown	No	No	N/A

¹Subspaces or work areas within a building with independent air handling systems.

²N/A - Building size not assigned if building is demolished, elevated, not enclosed, or not occupied.

Table 4-7

Industrial Vapor Intrusion Groundwater Screening Levels (GWSLs) for Chemicals of Potential Concern
 NAS Jacksonville, Florida

CAS #	Chemical Name	Final Indoor Exposure Groundwater Concentration (ug/L)					
		Generic ¹		Site-Specific ²			
				Large Buildings		Medium Buildings	
71-55-6	1,1,1-Trichloroethane	3.37E+03	N	2.12E+04	N	9.39E+03	N
75-34-3	1,1-Dichloroethane	3.59E+01	C	2.01E+02	C	8.55E+01	C
75-35-4	1,1-Dichloroethene	8.74E+01	N	4.86E+02	N	2.06E+02	N
107-06-2	1,2-Dichloroethane	1.12E+01	C	6.15E+01	C	2.60E+01	C
71-43-2	Benzene	7.86E+00	C	4.29E+01	C	1.80E+01	C
75-15-0	Carbon disulfide	5.57E+02	N	2.82E+03	N	1.15E+03	N
156-59-2	cis-1,2-Dichloroethene ³	1.70E+02	N	9.35E+02	N	3.94E+02	N
127-18-4	Tetrachloroethene	3.17E+00	C	2.27E+01	C	1.05E+01	C
156-60-5	trans-1,2-Dichloroethene	1.69E+02	N	9.29E+02	N	3.92E+02	N
79-01-6	Trichloroethene	1.74E+01	C	1.06E+02	C	4.67E+01	C
75-01-4	Vinyl chloride	2.57E+00	C	1.30E+01	C	5.30E+00	C

Notes:

¹ The generic vapor intrusion GWSLs [i.e., target groundwater concentration from Table 2c, Subsurface Vapor Intrusion Guidance (EPA, 2002)] were calculated using the methodology in Section 7 of Appendix D of Subsurface Vapor Intrusion Guidance (EPA, 2002).

² Site-specific vapor intrusion groundwater screening levels (GWSLs) were calculated using the Johnson and Ettinger Model.

The assumptions for the Johnson and Ettinger input parameters are provided in Tables 4-3 through 4-6.

Unit risk factors and reference concentrations were updated based on information provided in the Regional Screening Levels for Chemical Contaminants at Superfund Sites (Oak Ridge National Laboratory, May 2010).

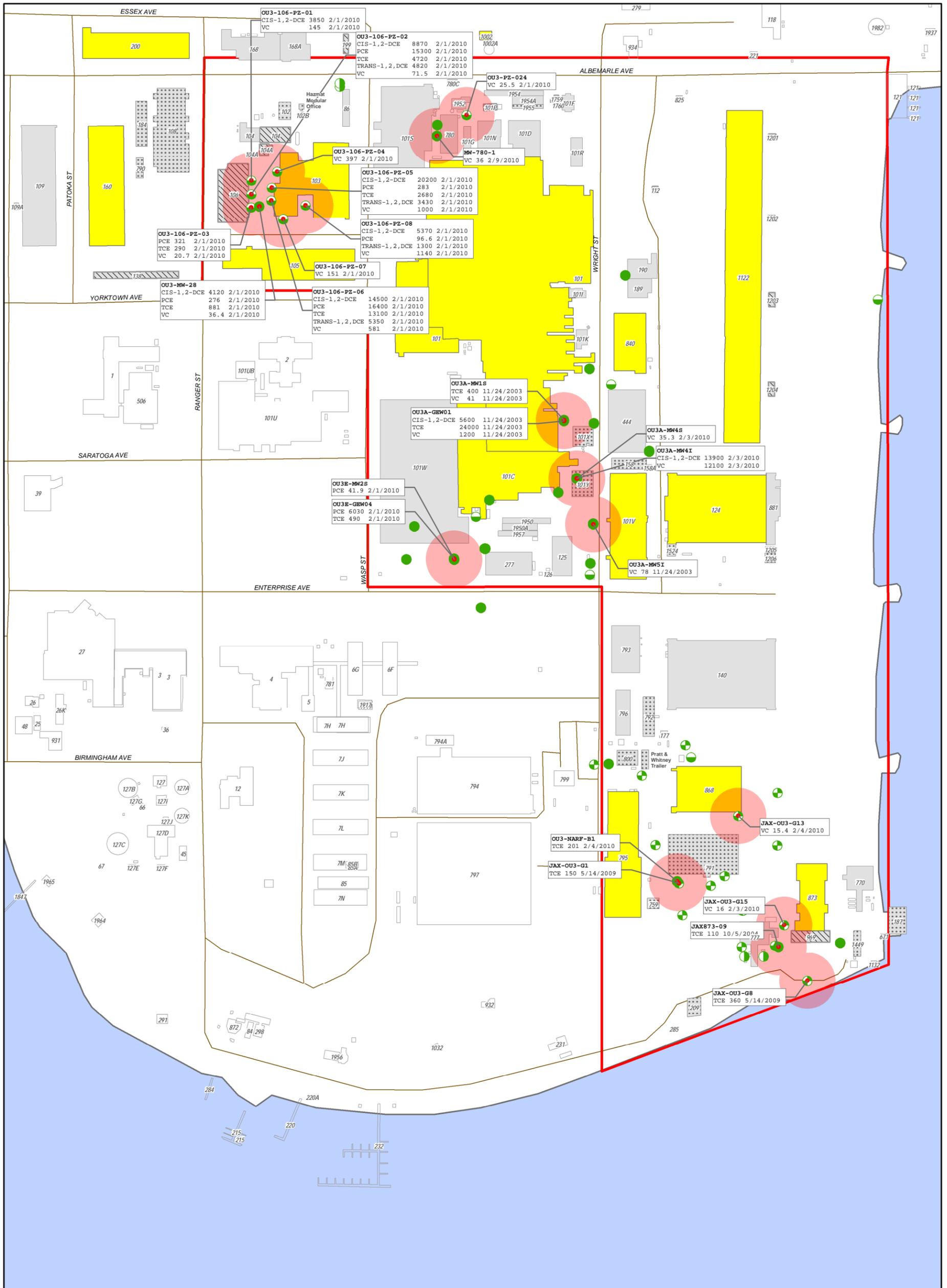
[Online at <http://epa-prgs.ornl.gov/chemicals/index.shtml>].

³ trans-1,2-Dichloroethene used as surrogate for cis-1,2-dichloroethene.

GWSL = groundwater screening level

C = Carcinogen

N = Noncarcinogen



Prepared by: Eric Davis
 Reviewed by: Casey Hudson

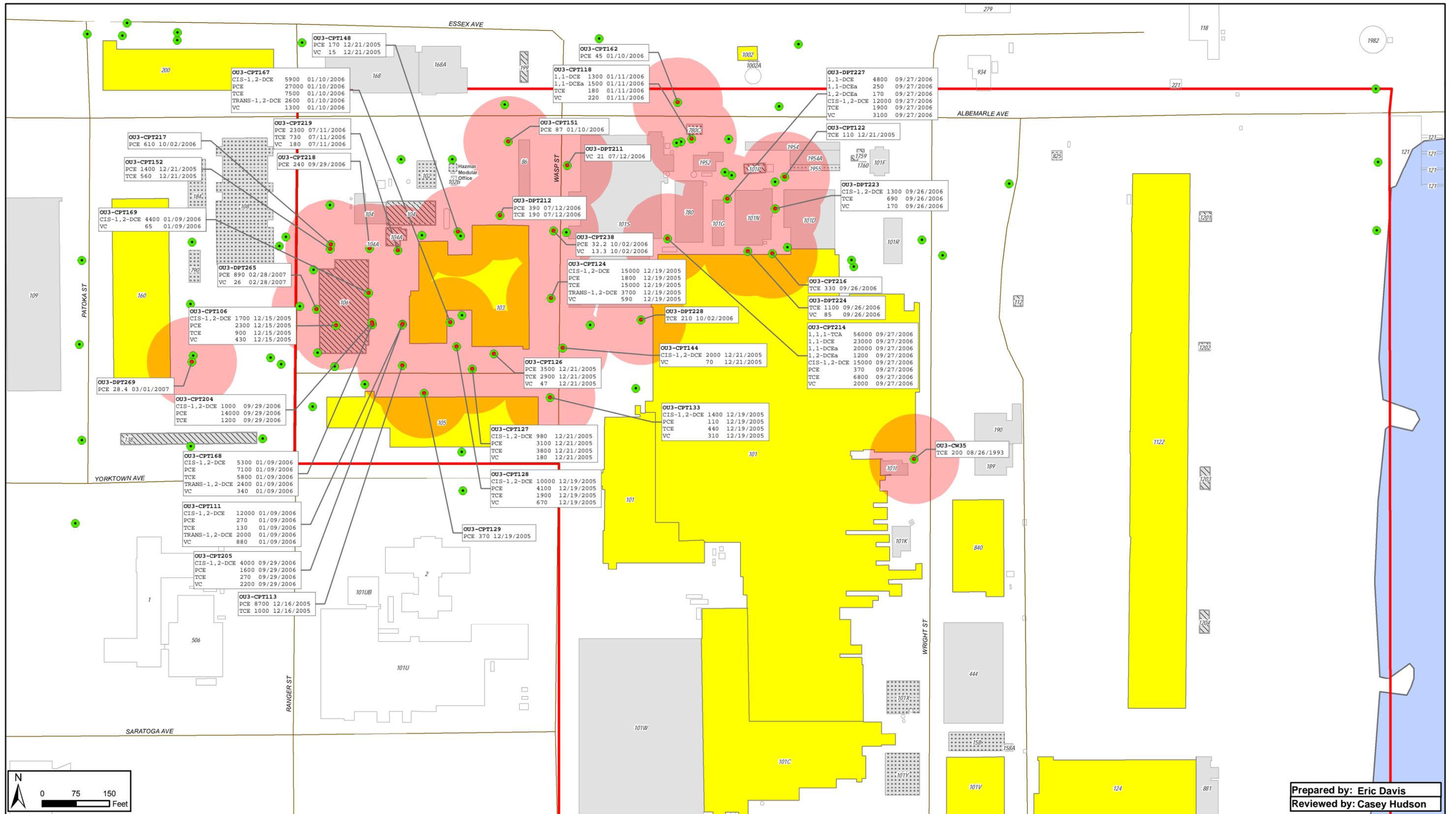
- Retained Well With Exceedance
- Retained Monitoring Well
- Retained Multi-Chamber Well
- Retained Piezometer
- Retained Temporary Piezometer
- 100ft Buffer of Exceedance
- Building Included in Vapor Intrusion Screening Evaluation Classified as Large
- Structure Included in Evaluation
- Structure That is Elevated, Not Enclosed, or Not Occupied
- Structure Not Evaluated
- Demolished Structure
- OU3 Site Boundary
- Water Body

Analyte	Abbreviation	Site-Specific Industrial GWSL
cis-1,2-Dichloroethene	CIS-1,2-DCE	935.40
Tetrachloroethylene	PCE	22.69
trans-1,2-Dichloroethene	TRANS-1,2-DCE	928.96
Trichloroethylene	TCE	106.27
Vinyl Chloride	VC	13.02

Key

Well ID	Analyte	Concentration	Date Sampled
All units are in µg/L.			

FIGURE E-1
 Groundwater Concentrations > Site-Specific Industrial GWSL - Monitoring Well Data Large Buildings
 NAS Jacksonville, Florida



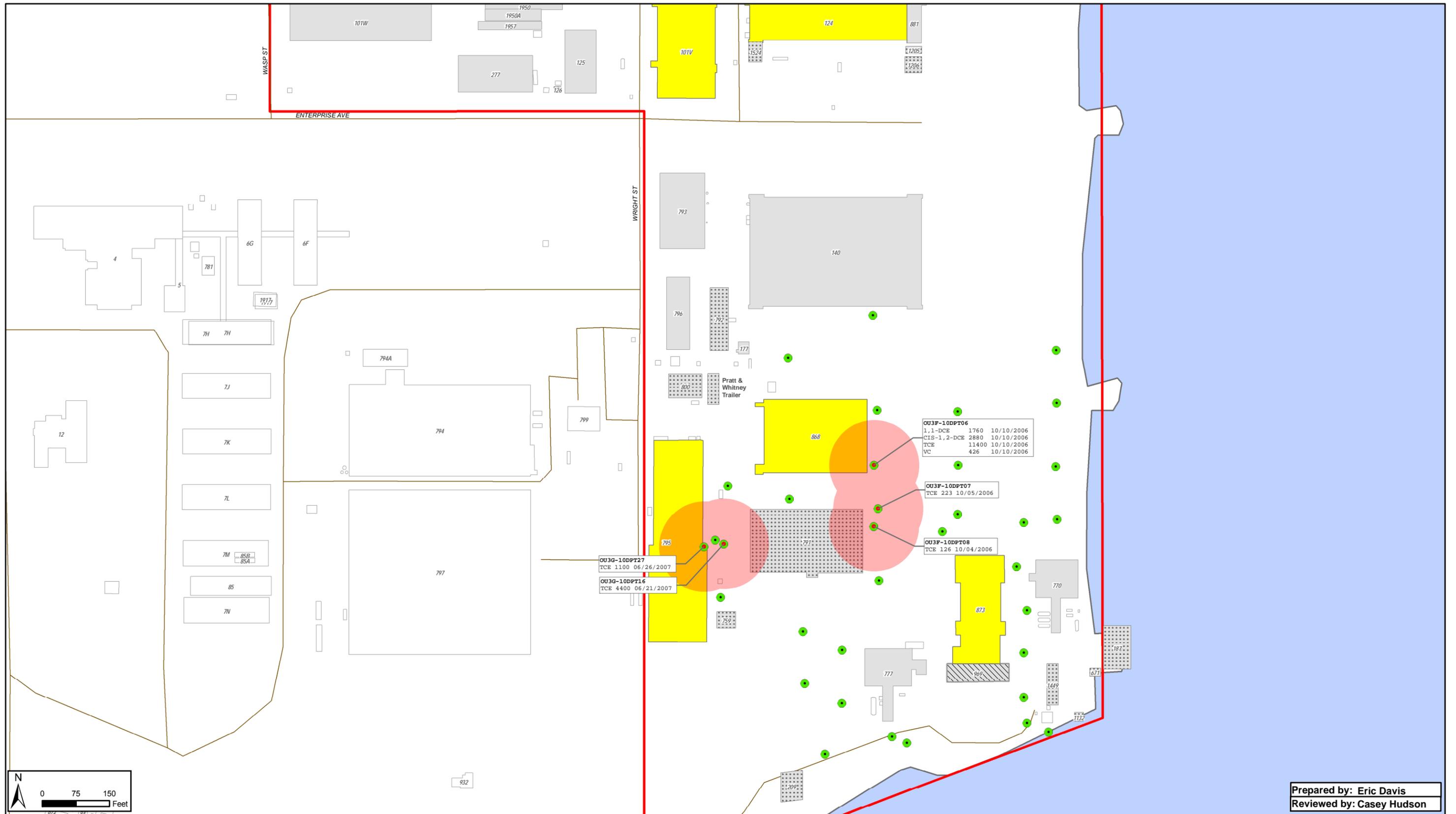
Analyte	Abbreviation	Site-Specific Industrial GWSL
1,1,1-Trichloroethane	1,1,1-TCA	21200.00
1,1-Dichloroethane	1,1-DCEa	201.25
1,1-Dichloroethane	1,1-DCE	485.79
1,2-Dichloroethane	1,2-DCEa	61.52
cis-1,2-Dichloroethane	CIS-1,2-DCE	935.41
Tetrachloroethylene	PCE	22.69
trans-1,2-Dichloroethane	TRANS-1,2-DCE	928.96
Trichloroethylene	TCE	106.27
Vinyl Chloride	VC	13.02

Key

Well ID	Analyte	Concentration	Date Sampled
All units are in µg/L.			

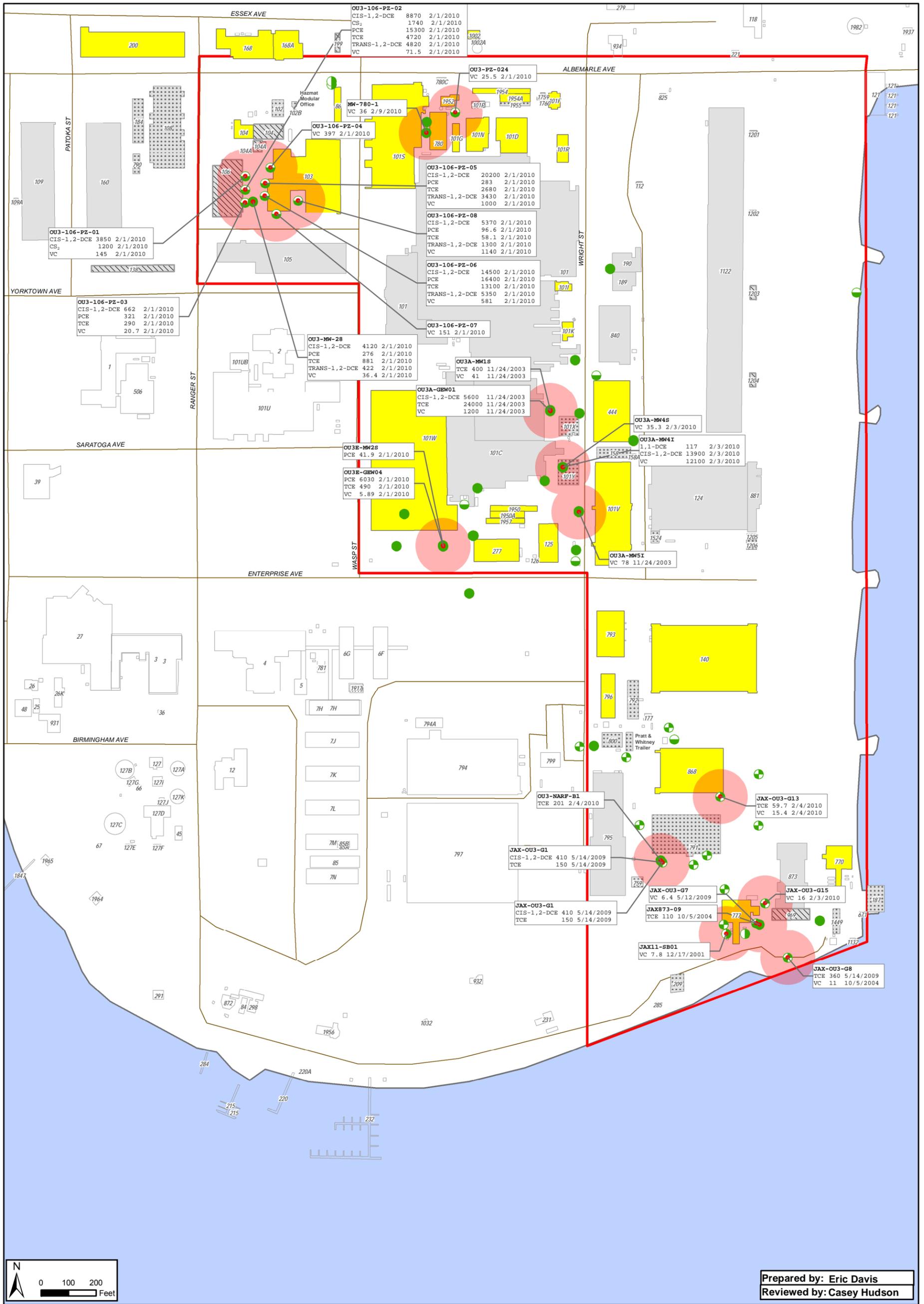
FIGURE E-2
Groundwater Concentrations > Site-Specific
Industrial GWSLs - DPT Data - North Area
Large Buildings
NAS Jacksonville, Florida

Prepared by: Eric Davis
Reviewed by: Casey Hudson



Prepared by: Eric Davis
Reviewed by: Casey Hudson

FIGURE E-3
Groundwater Concentrations > Site-Specific
Industrial GWSLs - DPT Data - South Area
Large Buildings
NAS Jacksonville, Florida



Prepared by: Eric Davis
 Reviewed by: Casey Hudson

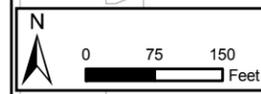
- Retained Well With Exceedance
- Retained Monitoring Well
- Retained Multi-Chamber Well
- Retained Piezometer
- Retained Temporary Piezometer
- 100ft Buffer of Exceedance
- Building Included in Vapor Intrusion Screening Evaluation Classified as Medium
- Structure Included in Evaluation
- Structure That is Elevated, Not Enclosed, or Not Occupied
- Structure Not Evaluated
- Demolished Structure
- OU3 Site Boundary
- Water Body

Analyte	Abbreviation	Site-Specific Industrial GWSL
1,1-Dichloroethane	1,1-DCE	85.53
Carbon Disulfide	CS ₂	1146.69
cis-1,2-Dichloroethene	CIS-1,2-DCE	394.37
Tetrachloroethylene	PCE	10.51
trans-1,2-Dichloroethene	TRANS-1,2-DCE	391.66
Trichloroethylene	TCE	46.69
Vinyl Chloride	VC	5.29

Key

Well ID	Analyte	Concentration	Date Sampled
All units are in µg/L.			

FIGURE E-4
 Groundwater Concentrations > Site-Specific Industrial GWSL - Monitoring Well Data
 Medium Buildings
 NAS Jacksonville, Florida



Prepared by: Eric Davis
Reviewed by: Casey Hudson

- Retained DPT Point with Exceedance
- Retained DPT Point
- 100ft Buffer of Exceedance
- Building Included in Vapor Intrusion Screening Evaluation Classified as Medium
- Structure Included in Evaluation
- Structure Not Evaluated
- ▨ Structure That is Elevated, Not Enclosed, or Not Occupied
- ▩ Demolished Structure
- ▬ OU3 Site Boundary
- Water Body

Analyte	Abbreviation	Site-Specific Industrial GWSL
1,1,1-Trichloroethane	1,1,1-TCA	9390.00
1,1-Dichloroethane	1,1-DCEa	85.53
1,1-Dichloroethane	1,1-DCE	205.80
1,2-Dichloroethane	1,2-DCEa	25.95
cis-1,2-Dichloroethane	cis-1,2-DCE	394.37
Tetrachloroethylene	PCE	10.51
trans-1,2-Dichloroethane	TRANS-1,2-DCE	391.66
Trichloroethylene	TCE	46.69
Vinyl Chloride	VC	5.29

Key

Well ID	Analyte	Concentration	Date Sampled
All units are in µg/L.			

FIGURE E-5
Groundwater Concentrations > Site-Specific Industrial GWSLs - DPT Data - North Area Medium Buildings
NAS Jacksonville, Florida



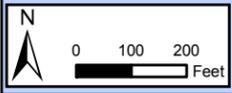
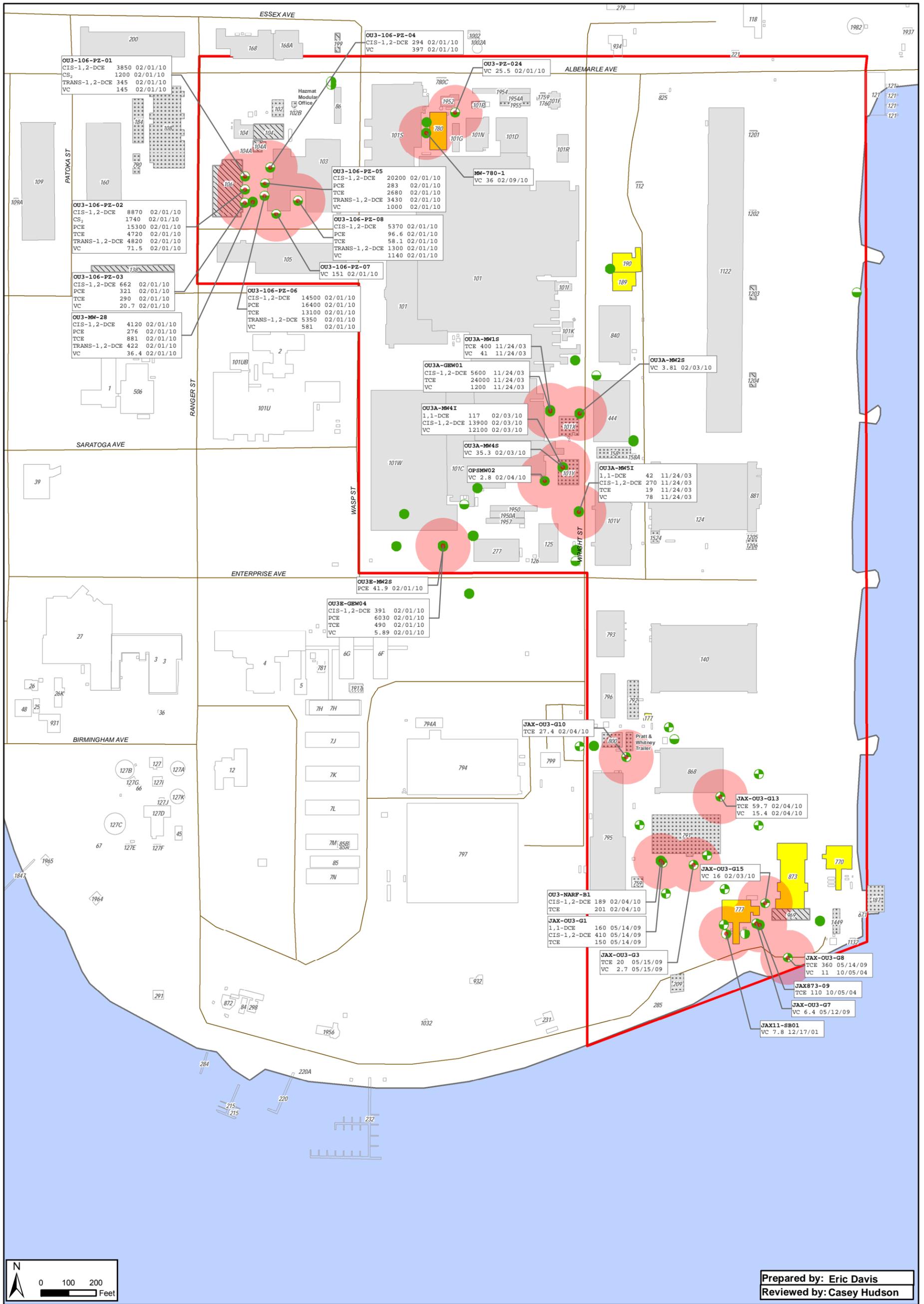
Prepared by: Eric Davis
 Reviewed by: Casey Hudson

- Retained DPT Point with Exceedance
- Retained DPT Point
- 100ft Buffer of Exceedance
- Building Included in Vapor Intrusion Screening Evaluation Classified as Medium
- Structure Included in Evaluation
- Structure Not Evaluated
- Structure That is Elevated, Not Enclosed, or Not Occupied
- Demolished Structure
- OU3 Site Boundary
- Water Body

Analyte	Abbreviation	Site-Specific Industrial GWSL
1,1-Dichloroethene	1,1-DCE	205.80
cis-1,2-Dichloroethene	CIS-1,2-DCE	394.37
Trichloroethylene	TCE	46.69
Vinyl Chloride	VC	5.29

Well ID	Analyte	Concentration	Date Sampled
All units are in µg/L.			

FIGURE E-6
 Groundwater Concentrations > Site-Specific Industrial GWSLs - DPT Data - South Area Medium Buildings
 NAS Jacksonville, Florida

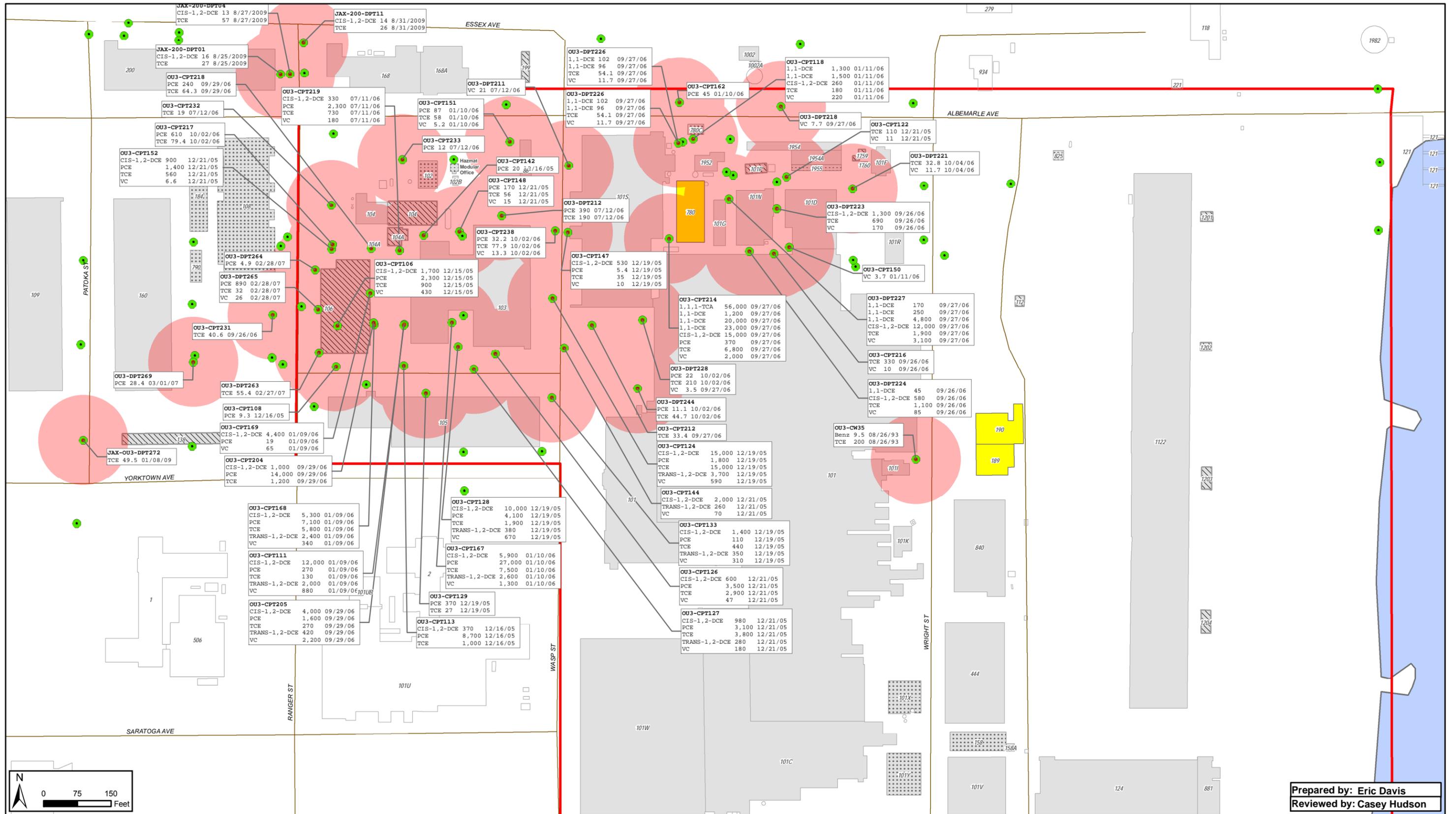


Prepared by: Eric Davis
 Reviewed by: Casey Hudson

Key		Industrial GWSL		
Well ID	Analyte	Concentration	Date Sampled	
	1,1-Dichloroethene	1.1-DCE	35.9	
	cis-1,2-Dichloroethene	CIS-1,2-DCE	170	
	Carbon Disulfide	CS ₂	557	
	Tetrachloroethylene	PCE	3.17	
	trans-1,2-Dichloroethene	TRANS-1,2-DCE	169	
	Trichloroethylene	TCE	17.4	
	Vinyl Chloride	VC	2.57	

FIGURE E-7
 Groundwater Concentrations > Generic
 Industrial GWSLs - Monitoring Well Data
 Small Buildings
 NAS Jacksonville, Florida

\\GALILEO\PROJ\NAS\JAX\GASHILL_OU3_391691\MAPFILES\SVI_STUDY\FINAL_REPORT\GWM_SL_SMALL_ANALYTICAL.MXD R:\MURPHY\8/22/2010 15:05:37



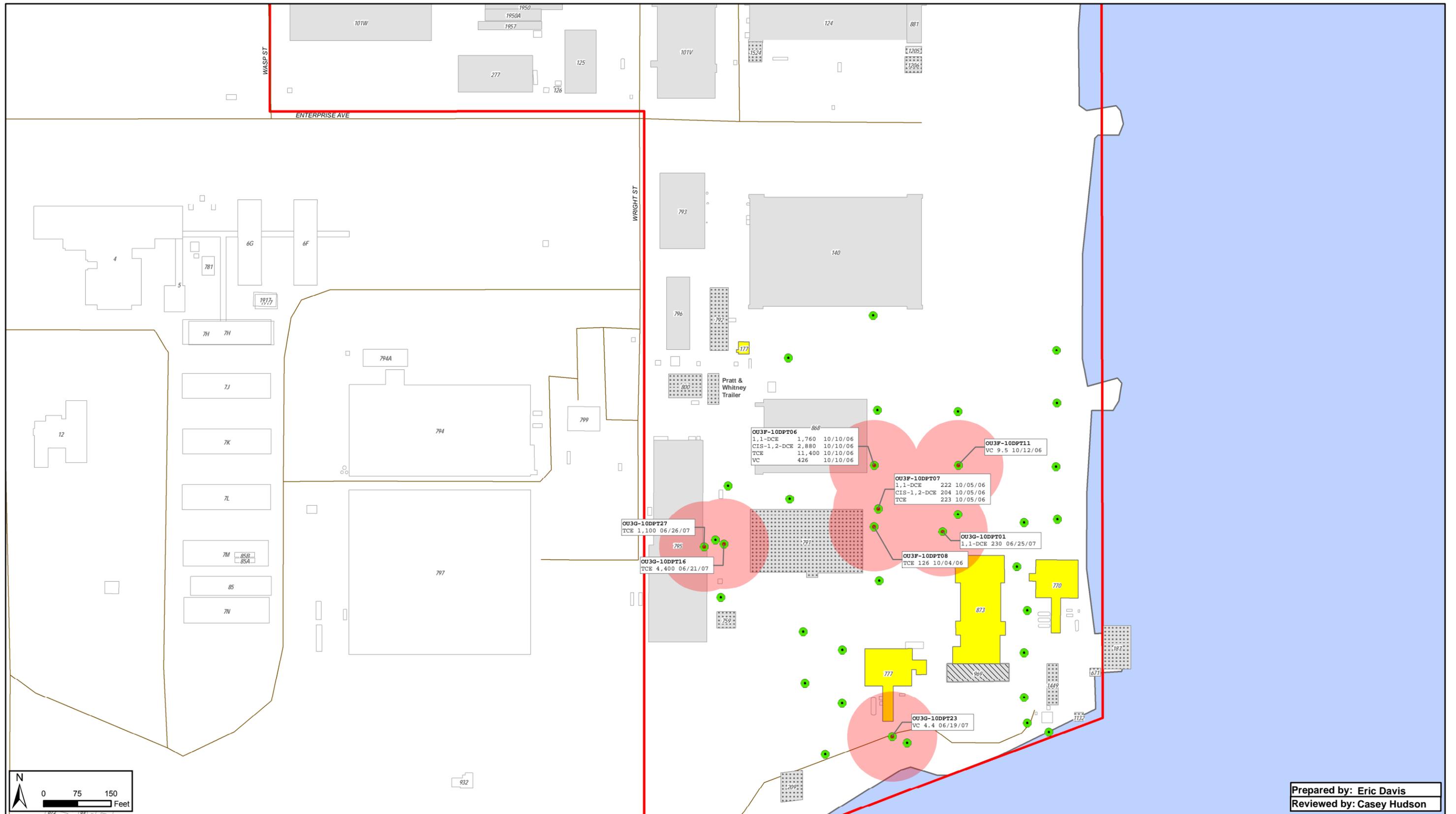
Prepared by: Eric Davis
 Reviewed by: Casey Hudson

- Retained DPT Point with Exceedance
- Retained DPT Point
- 100ft Buffer of Exceedance
- Building Included in Vapor Intrusion Screening Evaluation Classified as Small
- Structure Included in Evaluation
- Structure Not Evaluated
- Structure That is Elevated, Not Enclosed, or Not Occupied
- Demolished Structure
- OU3 Site Boundary
- Water Body

Analyte	Abbreviation	Industrial GWSL
1,1,1-Trichloroethane	1,1,1-TCA	3,370
1,1-Dichloroethene	1,1-DCE	35.9
Benzene	Benz	7.86
cis-1,2-Dichloroethene	CIS-1,2-DCE	170
Tetrachloroethylene	PCE	3.17
trans-1,2-Dichloroethene	TRANS-1,2-DCE	169
Trichloroethylene	TCE	17.4
Vinyl Chloride	VC	2.57

Well ID	Analyte	Concentration	Date Sampled
All units are in µg/L.			

FIGURE E-8
 Groundwater Concentrations > Generic Industrial GWSLs - DPT Data - North Area Small Buildings
 NAS Jacksonville, Florida



Prepared by: Eric Davis
 Reviewed by: Casey Hudson

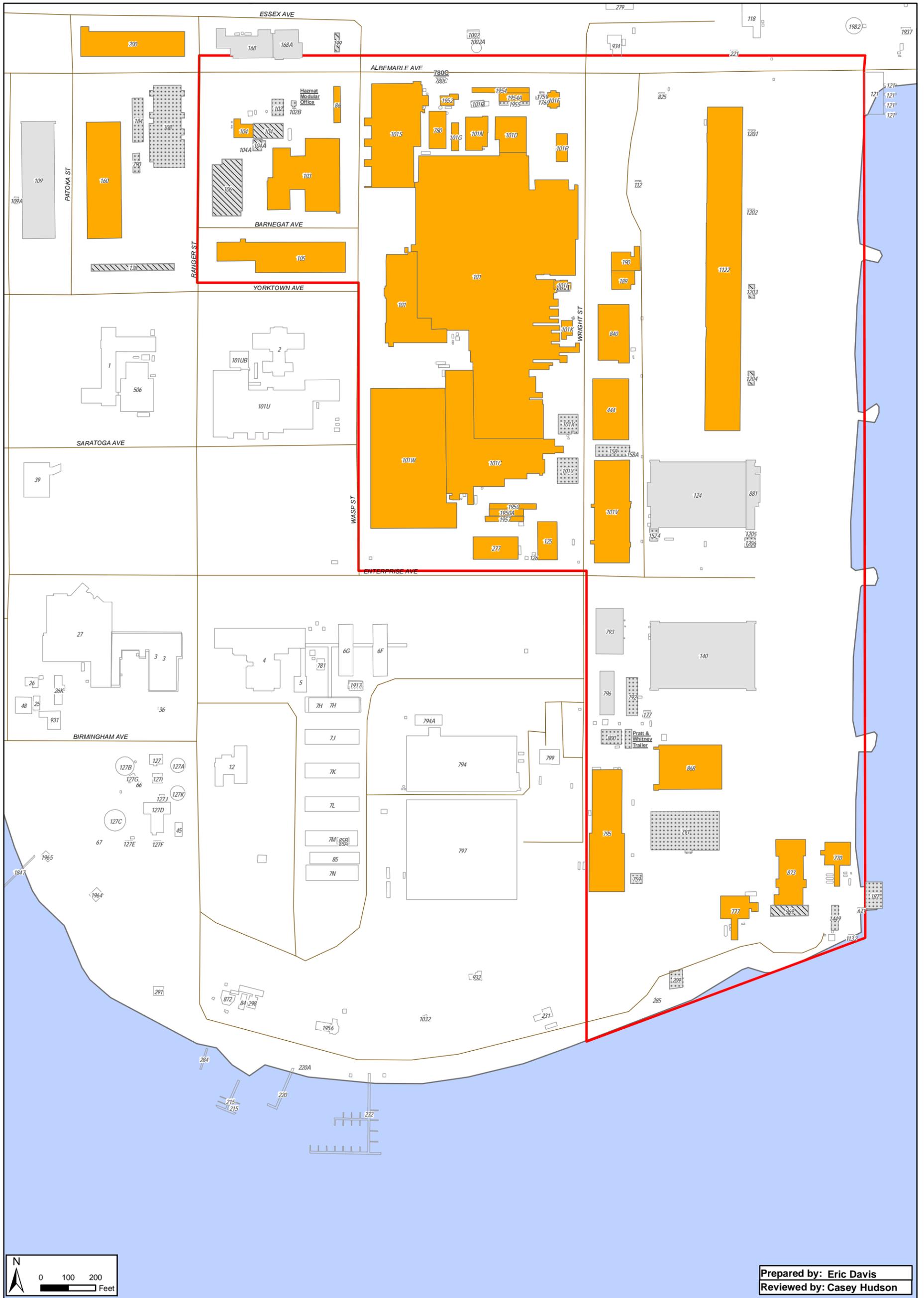
- Retained DPT Point with Exceedance
- Retained DPT Point
- 100ft Buffer of Exceedance
- Building Included in Vapor Intrusion Screening Evaluation Classified as Small
- Structure Included in Evaluation
- Structure Not Evaluated
- Structure That is Elevated, Not Enclosed, or Not Occupied
- Demolished Structure
- OU3 Site Boundary
- Water Body

Analyte	Abbreviation	Industrial GWSL
1,1-Dichloroethene	1,1-DCE	35.9
Benzene	Benz	7.86
cis-1,2-Dichloroethene	CIS-1,2-DCE	170
Tetrachloroethylene	PCE	3.17
trans-1,2-Dichloroethene	TRANS-1,2-DCE	169
Trichloroethylene	TCE	17.4
Vinyl Chloride	VC	2.57

Key

Well ID	Analyte	Concentration	Date Sampled
All units are in µg/L.			

FIGURE E-9
 Groundwater Concentrations > Generic
 Industrial GWSLs - DPT Data - South Area
 Small Buildings
 NAS Jacksonville, Florida



- Final Buildings Identified for Vapor Intrusion Screening Evaluation
- Structure Included in Evaluation
- Structure Not Evaluated
- Structure That is Elevated, Not Enclosed, or Not Occupied
- Demolished Structure
- OU3 Site Boundary
- Water Body

FIGURE 4-1
 Final Buildings Identified for Vapor
 Intrusion Screening Evaluation
 NAS Jacksonville, Florida

Table 4-8
Selection of Final Buildings of Interest
NAS Jacksonville, Florida

Building #	Occupancy	Building Use	Basement or Subsurface Structure	Building Size Category? ¹	Within 100 ft of Site-Specific GWSL Exceedance (measured or extrapolated)? ¹	Within 100 ft of Potential Vadose Zone Source? ¹	Final Building of Interest?	Final Building of Interest Selection or Exclusion Rationale
86	Unknown	Steam Generating Plant	Unknown	Medium	Yes - measured	No	Yes	Wells within 100 ft of plume exceedance
101	Occupied	Aircraft Maintenance, Administrative/Office, Instrumentation/Controls, Warehouse, Chemical Storage, Storage, Chemical Processing, Restaurant/Cafeteria, Painting/Restoration, Hangar, Work Shop(s)	No	Large	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101C	Occupied	Part of Building 101	Unknown	Large	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101I	Occupied	Part of Building 101	Unknown	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101D	Occupied	Aircraft Landing Gear Refurbish, Painting/Restoration, Chemical Storage, Administrative/Office	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101F	Occupied	Administrative/Office, Classroom(s)/Training	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101G	Occupied	Laundry/Chemical Warehouse	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101K	Occupied	CO2 Plant (Manufacturing, Storage)	No	Medium	No	Yes	Yes	Possible presence of vadose zone source
101N	Occupied	Ordnance Shop (Manufacturing, Storage)	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101P	N/A	Gun Range - Demolished	N/A	N/A	N/A	N/A	No	Demolished
101R	Occupied	Flammable Storage Warehouse	No	Medium	Yes - extrapolated	Yes	Yes	Within 100 ft of extrapolated plume exceedance; Possible presence of vadose zone source
101S	Occupied	Disassembly/Stripping Building	Yes	Medium	Yes - measured	Yes	Yes	Subsurface structure present; Within 100 ft of plume exceedance; possible presence of vadose zone source
101V	Occupied	Maintenance Shop	No	Medium, Large	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101W	Occupied	Hangars and Maintenance	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
101X	Unoccupied	Acetylene Generator Building	Yes	N/A	N/A	N/A	No	No Occupancy
101Y	Unoccupied	Small vehicle steam cleaning, Storage	No	N/A	N/A	N/A	No	No Occupancy; Not enclosed
102	Unoccupied	Hazardous materials storage and distribution	No	N/A	N/A	N/A	No	No Occupancy
102B	Occupied	Office/Administrative	No	N/A	N/A	N/A	No	Elevated building
103	Occupied	Maintenance Shop	No	Medium, Large	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
104 (East)	N/A	Steam Generating Plant - Demolished	N/A	N/A	N/A	N/A	No	Demolished
104 (West)	Limited Occupancy	Air Compressor Plant	No	Medium	Yes - measured	No	Yes	Within 100 ft of plume exceedance
104A	N/A	Air Plant Storage Building - Demolished	N/A	N/A	N/A	N/A	No	Demolished
105	Occupied	Fire Station, Garage	No	Large	Yes - measured	Yes	Yes	Within 100 ft of extrapolated plume exceedance
108	Unoccupied	Storage	No	N/A	N/A	N/A	No	No Occupancy
109	Occupied	Shipping Prep, Storage	Unknown	N/A	Yes - extrapolated	No	No	VI is not likely to be a significant pathway in these buildings given the volume/amount of air exchange/mixing that occurs.
112	N/A	Paint Shed - Demolished	N/A	N/A	N/A	N/A	No	Demolished
124	Occupied	Hangars, Paint Booth	Unknown	Large	No	No	No	Wells within 100 ft do not exceed site-specific screening level
125	Occupied	Battery Shop	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
126	Unoccupied	Transformer vault	No	N/A	N/A	N/A	No	No Occupancy
138	N/A	Concrete Slab - Demolished	N/A	N/A	N/A	N/A	No	Demolished
140	Occupied	Aircraft GSE Overhaul	Unknown	Medium	No	No	No	Wells within 100 ft do not exceed site-specific screening level
158	Unoccupied	Storage Shed	No	N/A	N/A	N/A	No	No occupancy; Not enclosed
158A	Unoccupied	Storage Shed	No	N/A	N/A	N/A	No	No Occupancy
160	Occupied	Storage	No	Large	Yes - measured	No	Yes	Within 100 ft of extrapolated plume exceedance
168	Occupied	Target, Surveillance, Radar Systems	No	Medium	No	No	No	Wells within 100 ft do not exceed site-specific screening level
168A	Limited Occupancy	Target, Surveillance, Radar Systems	No	Medium	No	No	No	Wells within 100 ft do not exceed site-specific screening level
177	Limited Occupancy	Defueling Equipment Storage	Unknown	Small	No	No	No	Wells within 100 ft do not exceed site-specific screening level
184	20	Storage	Unknown	N/A	N/A	N/A	No	No Occupancy
187	Unoccupied	Decommissioned/Idle	Unknown	N/A	N/A	N/A	No	Not a building; concrete ramp
189	Limited Occupancy	Painting/Restoration, Steam Cleaning, X-Ray Processing, Welding	No	Small, Medium	Yes - extrapolated	No	Yes	Within 100 ft of extrapolated plume exceedance
190	Limited Occupancy	Painting/Restoration, Paint Stripping, Steam Cleaning	No	Small, Medium	Yes - extrapolated	No	Yes	Within 100 ft of extrapolated plume exceedance
199	N/A	Demolished	N/A	N/A	N/A	N/A	No	Demolished
200	Occupied	Aircraft Maintenance, Administrative/Office, Classroom(s)/Training (NATEC), Welding	Yes	Medium, Large	No	No	Yes	Subsurface structure present
209	Unoccupied	Concrete pad with tie-downs	Unknown	N/A	N/A	N/A	No	Not a building; concrete slab

Table 4-8
Selection of Final Buildings of Interest
NAS Jacksonville, Florida

Building #	Occupancy	Building Use	Basement or Subsurface Structure	Building Size Category ¹	Within 100 ft of Site-Specific GWSL Exceedance (measured or extrapolated)? ¹	Within 100 ft of Potential Vadose Zone Source? ¹	Final Building of Interest?	Final Building of Interest Selection or Exclusion Rationale
277	Occupied	Equipment Staging	No	Medium	Yes - extrapolated	Yes	Yes	Within 100 ft of extrapolated plume exceedance; Possible presence of vadose zone source
285	Unoccupied	Storage	No	N/A	N/A	N/A	No	No Occupancy
444	Limited Occupancy	Storage	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; Possible presence of vadose zone source
671	Unoccupied	Shed for liquid oxygen	No	N/A	N/A	N/A	No	No Occupancy; Not enclosed
759	Unoccupied	Chemical Storage	No	N/A	N/A	N/A	No	No Occupancy; Not enclosed
770	Limited Occupancy	Instrumentation/Control, Engine Test Cell(s)	Unknown	Small, Medium	No	No	Yes	Groundwater < 2 feet in depth
777	Limited Occupancy	Instrumentation/Control, Engine Test Cell(s)	No	Small, Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance
780	Occupied	Decommissioned/Idle, but with office space	No	Small, Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance; possible presence of vadose zone source
780C	Unoccupied	Decommissioned/Idle	No	N/A	N/A	N/A	No	No Occupancy
790	Unoccupied	Storage	Unknown	N/A	N/A	N/A	No	No Occupancy
791	Limited Occupancy	Storage	No	N/A	N/A	N/A	No	Temporary tent structure
792	Unoccupied	Warehouse	No	N/A	N/A	N/A	No	No Occupancy
793	Occupied	Materials Engineering Laboratory	Unknown	Medium	No	No	No	Wells within 100 ft do not exceed site-specific screening level
795	Occupied	Chemical Storage, Administrative	Yes	Large	Yes - measured	Yes	Yes	Subsurface structure present
796	Occupied	Chemical Storage	Unknown	Medium	No	No	No	Wells within 100 ft do not exceed site-specific screening level
800	Unoccupied	Decommissioned/Idle	No	N/A	N/A	N/A	No	No Occupancy
825	Unoccupied	Sewage lift station	No	N/A	N/A	N/A	No	No Occupancy
840	Occupied	Foundry	Yes	Large	No	Yes	Yes	Subsurface structure present; Within 100 ft of plume exceedance; Possible presence of vadose zone source;
868	Occupied	Aircraft final finish facility	Yes	Medium, Large	Yes - measured	No	Yes	Subsurface structure present; Within 100 ft of plume exceedance
873	Limited Occupancy	Instrumentation/Control, Engine Test Cell(s)	No	Small, Large	Yes - measured	No	Yes	Within 100 ft of plume exceedance
969	N/A	Water Treatment For #873 - Demolished	N/A	N/A	N/A	N/A	No	Demolished
1002	Occupied	Aircraft Maintenance, Storage, Instrumentation/Control, Administrative/Office, Classroom(s)/Training	No	Medium, Large	No	No	No	Wells within 100 ft do not exceed site-specific screening level
1002A	Unoccupied	Fire Retardant Pumping Facility, Chemical Storage	No	N/A	N/A	N/A	No	No Occupancy
1122	Occupied	Aircraft Hangar, Aircraft Maintenance, Fueling/Refueling, Administrative/Office, Work Shop(s), Painting/Restoration	Unknown	Large	No	No	Yes	Retained due to lack of data near building
1132	Unoccupied	Radar Tower	Unknown	N/A	N/A	N/A	No	No Occupancy; Not enclosed
1201	N/A	Line Shack - Demolished	N/A	N/A	N/A	N/A	No	Demolished
1202	N/A	Line Shack - Demolished	N/A	N/A	N/A	N/A	No	Demolished
1203	N/A	Line Shack - Demolished	N/A	N/A	N/A	N/A	No	Demolished
1204	N/A	Line Shack - Demolished	N/A	N/A	N/A	N/A	No	Demolished
1205	Unoccupied	Decommissioned/Idle	No	N/A	N/A	N/A	No	No Occupancy; elevated structure
1206	Unoccupied	Decommissioned/Idle	No	N/A	N/A	N/A	No	No Occupancy; elevated structure
1449	Unoccupied	Compressed Air Facility	Unknown	N/A	N/A	N/A	No	No Occupancy
1524	Unoccupied	Decommissioned/Idle	No	N/A	N/A	N/A	No	No Occupancy
1759	N/A	Industrial Waste Pump Station - Demolished	N/A	N/A	N/A	N/A	No	Demolished
1760	N/A	Grit Collection Station - Demolished	N/A	N/A	N/A	N/A	No	Demolished
1950	Limited Occupancy	Warehouse, POL Storage	No	Medium	No	Yes	Yes	Within 100 ft of extrapolated plume exceedance; Possible presence of vadose zone source
1950A	Limited Occupancy	Warehouse, Administrative/Office, Storage	No	Medium	No	Yes	Yes	Within 100 ft of extrapolated plume exceedance; Possible presence of vadose zone source
1952	Limited Occupancy	Sandblasting/Glass Beading	No	Medium	Yes - measured	No	Yes	Within 100 ft of plume exceedance
1954	Limited Occupancy	Storage	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance
1954A	Occupied	Storage, Administrative/Office	No	Medium	Yes - measured	Yes	Yes	Within 100 ft of plume exceedance
1955	Unoccupied	Aircraft Parts Storage	No	N/A	N/A	N/A	No	No Occupancy
1957	Limited Occupancy	Storage	No	Medium	No	Yes	Yes	Within 100 ft of extrapolated plume exceedance; Possible presence of vadose zone source
NA	Occupied	HAZMAT Modular Office/Administrative	No	N/A	N/A	N/A	No	Elevated structure
None	Occupied	Pratt & Whitney Trailer	No	N/A	N/A	N/A	No	Elevated structure

¹ N/A - Building size not assigned if building is demolished, elevated, not enclosed, or not occupied.