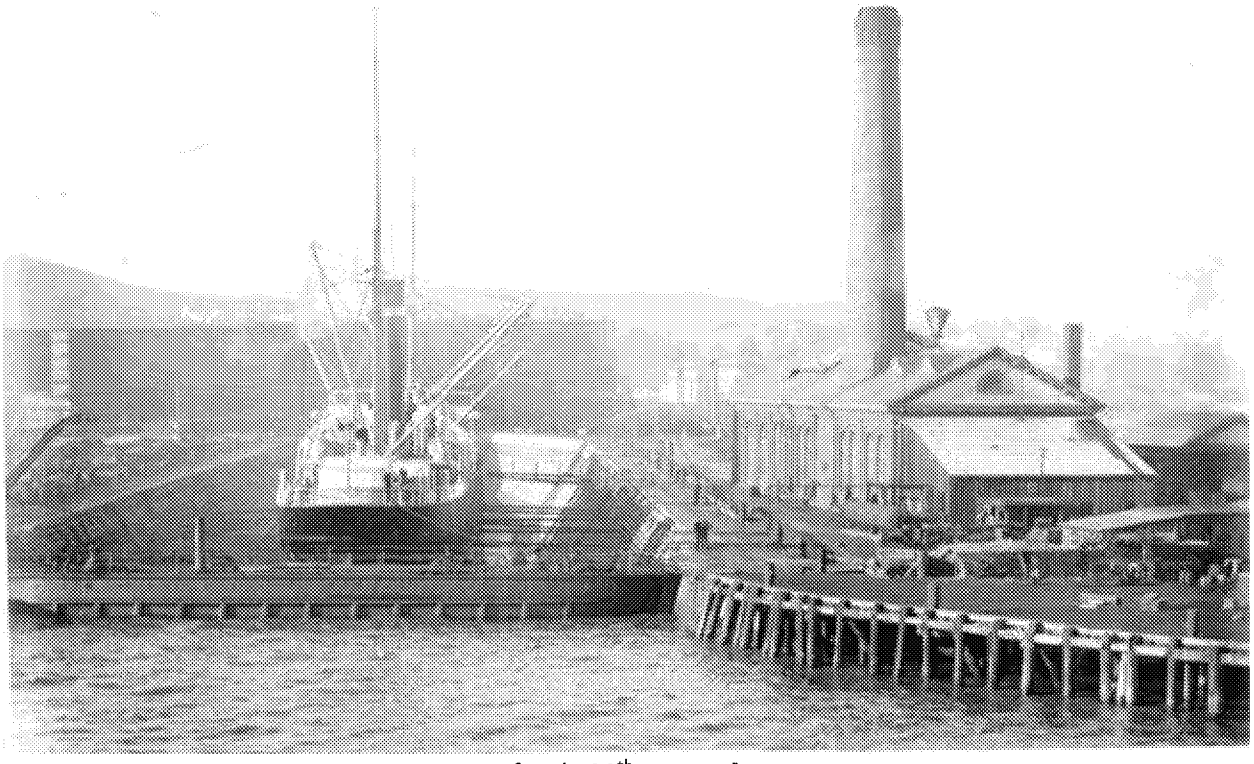
HUNTERS POINT NAVAL SHIPYARD
SITE SUMMARY

August 2019



[early 20th century]

Basewide

Site: Basewide Radiological Support

Parcel: Basewide

RPM: Leslie Howard

Schedule: Continuous radiological support

Milestones:

- Complete required Basewide routine radiological surveys and bi-weekly stockpile inspections.
- Continue to provide radiological support to non-rad contractors; performed outgoing surveys on personnel and equipment.
- Posting and/or visual security inspections and any damaged and/or illegible postings were replaced (IR-02 Shoreline areas, IR-03, IR-12 – Salvage Yard, B204/205 area)
- Continue portal monitor operations

Challenges: Coordination with multiple contractors & RPMs during rad-controlled area access and waste hauling (portal monitor).

Site: Basewide Radiological Independent QA

Parcel: Basewide

RPM: Leslie Howard

Schedule: Onsite oversight weekly

Milestones:

- Complete required Basewide radiological QA surveillance for all radiological projects at HPNS
- Completed approximately 780 surveillances since project start
- Preparation of QA checklists created by reviewing contractor workplans and other project planning documents

Challenges: Coordination with multiple contractors & RPMs.

Site: Basewide Transportation & Disposal

Parcel: Basewide

RPM: Leslie Howard

Schedule:

- Demobilized in June 2019.

Milestones: All qualified stockpiles of soil, concrete and debris have been hauled off site for disposal at the appropriate landfill.

Challenges: Coordination with all contractors hauling material off Base. Coordination with Basewide Rad Support contractor.

Site: Basewide Stormwater and O&M (Includes Other Tasks)

Parcel: Basewide

RPM: Leslie Howard

Schedule: Continue to install new fencing and gates as needed. Continued security measures and Crisp Road repairs. Conduct basewide swale inspections.

- O&M Parcels B-1, B-2, C, D-1, G, UC-3, and 07/18
- Remedial Action QA/QC Support: E-2
- Parcel E RA QA/QC oversight to begin Fall 2019

Milestones: Completion of annual O&M inspections and repairs at multiple parcels. Temporary road repairs on Crisp Road.

Challenges: Coordination with City of San Francisco, ROICC, CSO and other Navy contractors.

Site: Basewide Groundwater Monitoring Program

Parcel: Basewide

RPM: Leo Larson

Contractor: Trevet

Schedule:

- The next semi-annual sampling event will start September 2019 with a duration of approximately 2 weeks.

Milestones:

- Semi-Annual Groundwater Monitoring Report issued April 2019
- Well Installation/Destruction/Repair event completed in June 2019.
- BGMP Optimization Tech Memo released July 2019.
- Sampling event occurred March 2019.
- Gauging event occurred June 2019.
- Annual Report to be issued March 2020

Challenges: Ensuring the BGMP is performing optimally while staying in compliance with ROD's, RAMP's, and other decision documents. Coordination with active RA contractors as well as Basewide Rad Support contractor. Coordinating with RPMs to stay compliant with project requirements.

Petroleum Program

Site: Petroleum Program

Parcel: Parcels B-2, C, and E

RPM: Sharon Ohannessian

Schedule:

Petroleum program activities have been placed on hold as a result of quality control issues with contractor field staff. Current contract is being de-obligated. A new contract to complete all remaining petroleum work at Hunters Point will be awarded in FY 2020.

Fieldwork Needed to Achieve Site Closure:

- Soil and Groundwater Characterization/Contaminant Delineation:
  - Parcel B-2: Combined Site (utilidor)
  - Parcel C: AOC 06-A
  - Parcel E: AOC 08-A; BOC IR56B037; BOC IR36B037; BOC IR36B096; CAA-12/19; BOC IR15B001; CAA-6; AOC 56-A; CAA-11; BOCs IR02B376/IR02TA57A; BOC IR02TA31B; BOC IR03B351
- One Year of Quarterly Groundwater Monitoring (Parcel E):
  - CAA-10; CAA-8/8A and CAA-9/9A; CAA-12/19; CAA-6; CAA-7
- Excavation:
  - Parcel C: AOC 06-A; BOC IR28B257
  - Parcel E: BOC IR56B037; CAA-10; BOCs IR36B032/IR36B033/IR36B131; BOC IR36B220; BOC IR36MW128A; BOC IR36B096; CAA-8/8A and CAA-9/9A; CAA-12/19; BOC IR72B030; CAA-15/16; BOC IR15B001; CAA-11; CAA-17; CAA-20; BOC IR02TA25B; BOC IR03B351; BOC IR03B356; BOC IR36B058; BOC IR36B111
- Unknown at This Time:
  - Parcel C: AOC 27-A; AOC 28-H
  - Parcel E: CAA-6; CAA-7; BOCs IR02B108A/IR02B377/IR02B389/IR02B389/IR02B518/IR02TA56A

Milestones:

- Closed out UST HPA-07 at AOC 28-B (Parcel C) and six former ASTs near Building 809 at AOC 56-B (Parcel E).
- Completed characterization activities at the following sites:
  - Parcel C: AOC 28-B; AOC 49-A; AOC 27-A; BOC IR28B257

    - Parcel E: AOC 56-B; AOC 02-A; AOC 17-A; AOC 36-A; AOC 36-B; CAA-18; BOCs IR36B032/IR36B033/IR36B131; BOC IR36B220; BOC IR36MW128A; BOC IR15B001; CAA-15/16; CAA-17; CAA-20; BOC IR02TA25B; BOC IR03B356; BOC IR36B058; BOC IR36B111
- Completed Site Closure reports through the draft stage for the following sites:
    - Parcel C: AOC 49-A
    - Parcel E: CAA-18, AOC 36-B, AOC 36-A, AOC 02-A, and AOC 17-A

Challenges: Contractor QA/QC irregularities.

Parcel B

Site: IR-10 (Parcel B-1)

RPM: Sharon Ohannessian

Project: Remedial Action – SVE (Building 123)

Schedule:

The Navy restarted the IR-10 SVE system in February 2018 and operated it until May 2019. Results of soil vapor samples collected from the active SVE wells during this 15-month operating period indicated a significant reduction in the average TCE concentration across the site when compared to baseline concentrations. The Navy subsequently shut down the system for a series of rebound monitoring events scheduled for July and August 2019. The Navy plans to submit a SVE System Operation and Maintenance Summary Report to the BCT for review after the August sampling event. The Navy intends to continue operating the SVE system until VOC concentrations are stable and VOC mass removal is asymptotic.

Milestones:

- Pre-shutdown system sampling was performed in May 2019 at all 35 soil vapor and 28 SVE wells. TCE concentrations were present above the SGAL in 7 of the vapor monitoring wells sampled. These 7 wells are located in the western portion of Building 123.
- Performed the first of two post-shutdown sampling events in July 2019.
- Removed approximately 6.5 pounds of TCE mass since restart (approximately 15 months of SVE operation) and approximately 23 pounds of TCE mass in total (approximately 2.5 years of SVE operation).
- The maximum system Influent TCE concentration since restart was 11,000 $\mu g/m^3$ on February 12, 2018. The last Influent TCE concentration reading prior to the recent shut down was 400 $\mu g/m^3$ on February 21, 2019.
- The maximum SVE well VOC concentrations since restart were 22,000 $\mu g/m^3$ on February 21, 2018 from IR10VW01A and IR10VW21A and the latest sampled maximum SVE well VOC concentration was 7,800 $\mu g/m^3$ on February 21, 2019 from IR10VW26A.
- The maximum vapor monitoring point (VMP) VOC concentration since restart was 40,000 $\mu g/m^3$ on April 18, 2018 from SG074-4 and the latest sampled maximum VMP VOC concentration was 1,600 $\mu g/m^3$ on February 21, 2019 from SG074-4.

Challenges:

- Balancing mass removal and efficiency in diffusion limited extraction conditions.

Site: Parcel B – Radiological Rework

Parcel: B

RPM: Sean-Ryan McCray

Schedule:

- Final Remedial Action Work Plan (Gilbane) to be submitted October 2019
- Fieldwork for Phase 1 Trench Unit Excavations scheduled for 2020

Milestones:

- Final Remedial Action Work Plan (Gilbane) - October 2019

Challenges:

- Incorporation of the Parcel G Rework WPA approach for consistency

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Site: IR-26

Parcel: Parcel B-2

RPM: Liz Roddy/Samantha Knolle

Schedule: Field work began September 2017; the first phase included an initial round of groundwater sampling at IR-26 and collection of soil samples which were analyzed for various parameters to provide final design details for substrate injection. Four quarterly groundwater (GW) monitoring well (MW) events were completed in 2018.

Schedule: All field work, including ISS Injections and four quarters of groundwater monitoring well sampling were completed. Draft RACR due to BCT in January 2020.

Milestones:

Phase I Field Work (baseline sampling & lab test) Sept. 2017
Phase II Field Work (ISS Injections) Sept. 2017
Quarter 1 ISS Performance Groundwater Sampling - March 2018
Quarter 2 Groundwater & Soil (leachability) Sampling - June 2018
Quarter 3 Groundwater Sampling – Sept. 2018
Quarter 4 Groundwater Sampling - Dec. 2018
Draft RACR due to BCT January 2021.

Challenges: Successfully lowering the mercury concentration level in groundwater within IR-26 and keeping it below the trigger level.

Parcel C

Sites: RU-C1, RU-C2, RU-C4, and RU-C5

RPM: Sharon Ohannessian

Project: Phase I, II, and III Remedial Action

Schedule:

Post-treatment performance groundwater monitoring events at RU-C1 and RU-C2 are scheduled for September and December 2019. The Final Phase I RACR submittal is planned for July 2020. The Draft Phase II Remedial Action Work Plan for Remedial Units C2, C4, and C5 will be submitted for BCT review in September 2019. The Draft Remedial Action Monitoring Plan for Remedial Units C1, C2, C4, and C5 will also be submitted for BCT review in August 2019. The Navy is currently evaluating remedial alternatives for the DNAPL discovered underneath the paint booths in Building 253. An RFP has gone out for the Phase III remedial action/remaining close-out activities. This contract will include conducting the soil remedy at Excavation 20B-1 (Building 251), *in-situ* groundwater treatment of the contaminant plumes at RU-C2-1 and RU-C5-1, RU-C5-2, and RU-C5-3, a soil gas survey, and SVE system evaluation.

Milestones:

- Finalized the Parcel C SVE System Operation and Maintenance Summary Report in February 2019.
- Finalized the Phase I Remedial Action Work Plan Addendum for Remedial Units C1, C2, C4, and C5 in April 2019.
- Completed one round of RU-C1-1 and RU-C2-3 groundwater injections during April and May 2019.
- Completed the one-month post-injection monitoring event at RU-C1-1 and RU-C2-3 in June 2019.

Challenges:

- Completing remediation of recalcitrant VOCs and meeting the transfer schedule.
- DNAPL under paint booths in Building 253.

Site: Parcel C – Radiological Rework

Parcel: C

RPM: Sean-Ryan McCray

Schedule:

- Final Remedial Action Work Plan (Gilbane) to be submitted October 2019
- Fieldwork for Phase 1 Trench Unit Excavations scheduled for 2020

Milestones:

- Final Remedial Action Work Plan (Gilbane) - October 2019

Challenges:

- Incorporation of the Parcel G Rework WPA approach for consistency

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Site: Building 253 / 211

RPM: Sean-Ryan McCray

Current Status:

- Fieldwork is active as of July, 2019
- Currently removing existing storm drain / sanitary sewer lines

Fieldwork Schedule:

- Mobilization July 9, 2019
- Demobilization November, 2019

Milestones:

- Remediate / remove existing storm drain / sanitary sewer lines beneath and within 15 feet of the building
- Remediate / remove existing interior drain lines within the building
- Screen / survey / release removed materials for off-site disposal
- *All radiological surveys within Building 253 and 211 are to be performed under future Parcel C Rework work plan, not as part of current work plan*

Challenges:

- Excavation and material management / area isolation and control in tight quarter buildings

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Site: Parcel C Historic District Radiological Characterization Survey of Sanitary Sewers and Storm Drains

Parcel: C

RPM: Leslie Howard

Schedules: Fieldwork completed in April 2019. Preparing RACR.

Milestones: Successfully completed fieldwork.

Challenges: Working adjacent to historic structures; tide restrictions; confined space entry; and potential biological constraints.

PARCEL D

Site: D-1 Parcel Phase 2

Parcel: D-1 Durable Cover

RPM: Leslie Howard/Samantha Knolle

Schedule: O&M inspections continue. Current preparation of O&M inspection reports and Phase II RACR (Non-rad).

Milestones: Phase II durable cover installation was completed in November 2018. Challenges: Complete Phase II activities prior to rainy season.

PARCEL E

Site: Parcel E Remedial Action – Phase I

Parcel: E

RPM: Leo Larson

Contractor: Aptim

Schedule: Currently finalizing workplan. Fieldwork to begin in September.

Milestones:

- Final Parcel E Ramp July 2019
- Final Parcel E ESS July 2019
- Final Work Plan August 2019
- Mobilize September 2019
- Final RACR November 2022

Challenges: Achieving agency and NOSSA concurrence. Coordinating fieldwork around other contractors. Implementing new technology. Moving forward despite a lack of radiological background data.

Sites: Multiple (Predominantly IR-03)

RPM: Liz Roddy

Project: Phase 2 Remedial Action – NAPL Source Removal and Treatment at IR-03 (Former Oily Waste Pond)

Schedule: Phase 2 Remedial Action Work Plan (RAWP) Draft Final was submitted for regulatory review June 19th, 2019. Field work scheduled for Sept./Oct. 2019.

Milestones: Final Phase 2 Remedial Action Work Plan (RAWP) due to BCT in August 2019.

Challenges: Installation of IR-03 Slurry Wall and Shoreline Protection features require tide cycle coordination to complete. Multiple contractors working in Parcel E will require coordination for space and traffic considerations.

Site: Parcel E Remedial Action – Phase 3

Parcel: E

RPM: Leo Larson

Contractor: Aptim

Schedule: Currently finalizing workplan. Fieldwork to begin in September.

Milestones:

- Final Parcel E Ramp July 2019
- Final Parcel E ESS July 2019
- Final Work Plan August 2019
- Mobilize September 2019
- Final RACR March 2021

Challenges: Achieving agency and NOSSA concurrence. Coordinating fieldwork around other contractors. Implementing new technology. Moving forward despite a lack of radiological background data

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PARCEL E-2

RPM: Leslie Howard

Project: Shoreline Revetment, Site Grading and Onsite Consolidation of Excavated Soil and Debris, and Upland Slurry Wall Installation Remedial Action (Phase II)

Schedule: Final punchlist items will be completed by Mid-August 2019. Remaining activities include disposal of RCRA soil; clearing of debris on surface; demobilization.

Milestones: Pre-Final Inspection completed June 11, 2019. Project is nearly complete and Phase III to begin in Mid- July 2019.

Challenges: Fieldwork during the rainy season, flooding.

RPM: Leslie Howard

Project: Final Cover, Wetlands, and Landfill Gas Treatment Installation Remedial Action (Phase III)

Schedule: Mobilization Mid-July 2019; sample borrow source soil; set up construction trailer and temporary facilities.

Milestones: Finalize Workplan/SAP in December 2018. Sample borrow soil July-August 2019.

Challenges: Coordination RA contractors as some overlap in Phase III fieldwork will occur. Completion of contractual obligations in order to prevent delays to fieldwork schedules.

RPM: Leslie Howard

Project: Landfill Gas (LFG) Monitoring at Parcel E-2

Schedule: Monthly LFG monitoring performed each month. No exceedances were reported within the last year (June 2018-June 2019).

Milestones: Quarterly LFG Monitoring reports are submitted in accordance with the FFA schedule. Annual Landfill Cap Operations and Maintenance Report for 2018-2019 will be submitted in July 2019.

Challenges: No challenges.

PARCEL F

Site: 0078

RPM: Sharon Ohannessian

Schedule:

The final ROD is scheduled for August 31, 2019, per the FFA. The draft remedial design documents are scheduled for BCT review two months after ROD finalization, currently October 2019. A stop work order has been placed on the Area III remedial contractor until the ROD is signed. Once the ROD is finalized, a draft Pre-remedial Action Sediment Characterization Work Plan for Area III will be issued for BCT review in November 2019.

Milestones:

- Finalized the Sediment Investigation Beneath Former Parcels B and C Pier and Wharf Structures and Bathymetric Survey report in October 2018.
- Procured a contractor in January 2019 for the Area III remedial action to include pre-remedial action sediment sampling for the purpose of refining the remedial action footprint.

Challenges:

- Yosemite Slough cleanup project is adjacent to Parcel F South Basin.
- PCB ambient sediment concentrations.

Site: 0078 – Finger Piers and Sub pens

RPM: Sean-Ryan McCray

Current Status:

- Fieldwork mobilization in August 2019

Fieldwork Schedule:

- Mobilization September 26, 2019
- RAD Surveys of Finger Piers Sep – Oct 2019
- RAD Surveys of Submarine Pens Sep – Oct 2019
- Demobilization October 31, 2019

Milestones:

- Fieldwork Completion – October 2019

- Final Scoping Survey Report - July 2020

Challenges:

- Successfully measuring levels of residual radioactivity through a combination of scan surveys and static measurements to support a decision regarding further investigation or unrestricted release for Parcel F structures.

PARCEL G

Site: Entire Parcel G – Radiological Rework

Parcel: G

RPM: Liz Roddy

Schedule: Draft Final Parcel G Remedial Action Work Plan Addendum due to BCT August 2019. Fieldwork for Phase 1 trench unit excavations scheduled for April 2020.

Milestones:

- Final Remedial Action Work Plan (Jacobs/CH2M) submitted to BCT June 10th, 2019.
- Draft Parcel G Remedial Action Work Plan Addendum (APTIM) submitted to BCT in April 2019.

Challenges: New technology proposed for radiological soil scans requires BCT approval. Rainy seasons between November and March constrain the Phase 1 trench unit excavation schedule.

Site: Basewide – Parcel G Radiological Characterization – Soil Reference Background Areas Radiological Background Collection (Parcels B, C, D-1, D-2 and offsite San Bruno Mountain Park)

Parcel: Basewide (Parcels B, C, D-1, D-2 and offsite San Bruno Mountain Park)

RPM: Liz Roddy/Stephen Banister

Schedule:

- Mobilization began in mid-July 2019.
- Soil Sampling scheduled to occur between August 14th – 29th, 2019.
- Draft Soil Background Report due to BCT January 2020.

Milestones: Mobilization began July 2019. Background soil sample collection scheduled to begin August 12th, 2019.

Challenges: Coordination with all regulators and other stakeholders during field operations (includes site safety, split sampling procedures, field oversite).

PARCELS UC-1, UC-2, UC-3 & D-2

Site: Radiological Confirmation Sampling and Surveying across UC-1, UC-2, UC-3 & D-2

Parcel: UC-1, UC-2, UC-3 & D-2

RPM: Liz Roddy

Schedule: Draft Remedial Action Work Plan due to BCT November 2019.

Milestones:

- Draft Remedial Action Work Plan due to BCT November 2019.

Challenges: UC-3 is the foundation of Crisp road. Excavation of the road will present logistical challenges to entering and exiting the base. Coordination with all contractors entering and exiting the base will be required, in addition to a traffic control plan. D-2 contains a soil stock pile over 20 feet tall obstructing two (2) trench units scheduled for Phase 2 soil bore sampling during the field work implementation.