Duke Realty Foundry LP/Prologis
7825 San Leandro Street
Oakland, California 94621

November 14, 2025

Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: 7825 San Leandro Street – Acknowledgement Statement
7825 San Leandro Street
Oakland, California 94621
ACDEH Case No. RO0003535

Dear Alameda County Environmental Health Department,

Duke Realty Foundry LP/Prologis has retained the environmental consultant referenced on the attached *Technical Memorandum: Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps* dated November 14, 2025, for the project referenced above. The attached report is being submitted on behalf of Duke Realty Foundry LP/Prologis.

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACEHD's FTP server and the State Water Resources Control Board GeoTracker website.

Sincerely,

Gavin Polite Fisco
Director, Global Environmental & Engineering Services
Duke Realty Foundry LP/Prologis

Technical Memorandum

To:	Alameda County Health Care Services Agency Environmental Health Department 1131 Harbor Bay Parkway Alameda, California 94502	From:	Peter Zawislanski, PG, CHg Senior Principal Hydrogeologist Terraphase Engineering Inc. Amber M. Koster, PE Senior Associate Engineer Terraphase Engineering Inc.
cc:	Gavin Polite Fisco Director, Global Environmental and Engineering Services, Duke Realty Foundry LP		
Date:	November 14, 2025	Project No.:	0172.033.010C

Subject: **AB&I Redevelopment Site, 7825 San Leandro Street, Oakland, California, Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps**
(Site Cleanup Program Case Number: RO0003535)

Terraphase Engineering Inc. (Terraphase) prepared this technical memorandum on behalf of Duke Realty Foundry LP (Prologis) to document activities conducted for the on-site pits and sumps at the AB&I Redevelopment Site at 7825 San Leandro Street in Oakland, California (Site; Figure 1). The work included removal and off-site disposal of liquid and sediment from on-site pits and sumps, assessment of pit and sump integrity, and subsequent filling and covering of the pits and sumps following removal of the liquid and sediment.

Pit and Sump Liquid and Sediment Removal Activities

Samples of accumulated liquid were collected from pits/sumps 2 through 11, 14, 15, and 18 (PW-02 through PW-11, PW-14, PW-15, and PW-18; Figure 2) on May 9, 2025, and analyzed for all Site contaminants of potential concern (COPCs) in accordance with the *Work Plan for Analysis and Off-site Disposal of Liquid in Pits and Sumps* (Work Plan), and the *Addendum to the Work Plan for Analysis and Off-site Disposal of Liquid in Pits and Sumps* (Addendum).[1] Pits 1 and 16 were removed from the scope of work following assessment activities because they were determined to have been filled in. Pits 12, 13, 17, and 19 were dry; therefore, liquid samples were not collected. Results of laboratory analyses of liquid from the pits/sumps, and one sediment sample collected from the Site surface near a stormwater

[1] Terraphase Engineering Inc. (Terraphase), *Work Plan for Analysis and Off-site Disposal of Liquid in Pits and Sumps*, April 4, 2025.
Terraphase, *Addendum to the Work Plan for Analysis and Off-site Disposal of Liquid in Pits and Sumps*, April 23, 2025.

catch basin (SED-19) were presented in the *Technical Memorandum: Analysis of Liquid in Pits and Sumps*, and are included in Tables 1 and 2.[2] Terraphase conducted surface sediment removal activities across the Site between June 13 and 20, 2025, resulting in the generation of seven 55-gallon drums of sediment, including the containerization of the sediment sampled near the stormwater catch basin (SED-19).

Terraphase submitted the *Technical Memorandum: Plan for Removal of Liquid and Sediment from Pits and Sumps, Conducting an Integrity Assessment, and Filling/Covering the Pits and Sumps* (Final Work Plan) to the Alameda County Environmental Health Department (ACEHD) on July 18, 2025. ACEHD approved the submittal on July 22, 2025.

Patriot Environmental (Patriot) mobilized to the Site on August 4, 2025, and removed approximately 4,300 gallons of liquid from the pits. Work was conducted in accordance with the Final Work Plan. The liquid was profiled based on analytical results from the May 9, 2025, sampling event and disposed as non-hazardous waste at Heritage - Crystal Clean waste management facility in Bakersfield, California (Attachment A).

After liquid removal, Patriot assessed the volume of sediment in the pits and mobilized 15-cubic-yard roll-off bins (rather than drums) to containerize the sediment and debris. The bins were placed in the approximate area of sediment removal and then relocated near the investigation-derived waste storage area once they were full.

Patriot began removing sediment and debris from the pits on August 6, 2025. During sediment/debris removal, an oily sheen was observed in Pits 2, 11, 13, and Sump 18; therefore, sediments from those pits/sumps were segregated into one roll-off bin (Bin Three). Sediment from pits that recharged without any sheen (Pits 4, 5, 6, 8, 9, 14, and 15), and sediment from pits/sumps that were dry or did not experience recharge (Pits 3, 7, 10, and 17; Sump 19), were also placed in roll-off bins (Bins One, Two, and Four). Following debris removal, Pit 12 was noted as not having a finished concrete bottom.

Bins One, Two, and Three were sampled on August 12, 2025, for analysis of all Site COPCs, as presented in the Work Plan and Addendum. During this time, Bin Four was still receiving sediment from ongoing cleanout activities and was not sampled until August 28, 2025, once it was full. Bin sediment results are presented in Table 3.

ACEHD was informed on August 13, 2025, of the pit cleanout progress, including the recharge observed and the plan to patch visible holes in the pits. ACEHD requested additional information, including dimensions of Pit 12, a plan to sample soil and groundwater below Pit 12, and a plan to collect groundwater samples from each pit exhibiting recharge, which Terraphase provided by e-mail on August 14, 2025.

In accordance with ACEHD approval on August 14, 2025, Terraphase sampled the recharging pit water on August 18, 2025. Samples were collected from Pits 4, 5, 6, 8, 9, 14, and 15 and submitted to the laboratory for analysis of all Site COPCs (Table 1). After sample collection, Patriot vacuumed the water

[2] Terraphase, *Technical Memorandum: Analysis of Liquid in Pits and Sumps,* May 30, 2025.

out of the recharging pits to allow Sterling, a subcontractor of Innovative Construction Solutions, to patch visible holes with hydraulic cement (WaterTite; Attachment B). Large visible holes in each pit were patched with WaterTite; however, some pits still exhibited recharge, likely from cracks in the concrete sidewalls after the bottoms were sealed. During the pit sediment removal and patching work, exposed soil was observed at two locations (Pits 7 and 13) and soil samples were subsequently collected for analysis of all Site COPCs (Table 4).

Pit Integrity Assessment

Following sediment/recharging water removal and patching, each pit/sump (besides Pit 12) was rinsed to clean the sidewalls and bottoms. The rinse water was containerized in a frac tank and sampled for Site COPC analyses on August 25, 2025 (Table 5). An integrity assessment, including photographic documentation, was completed for each pit/sump, and ACEHD conducted a site walk on August 21, 2025, to verify the condition of the pits. Attachment C includes a photolog of the pits prior to liquid removal, after sediment and debris cleanout, and after backfilling.

In an email dated August 21, 2025, ACEHD approved filling the pits with lightweight cellular concrete to prevent future groundwater infiltration and stormwater accumulation. In accordance with ACEHD's approval, Terraphase calculated the estimated groundwater recharge rate based on the dimensions of the pits/sumps, approximate depth to recharged water prior to removal, and time of water accumulation. The groundwater recharge rate was estimated to be an average of 0.11 gallons per minute (Attachment D). It was noted that the volume of recharging water fluctuated in the pits throughout the day prior to backfilling, which could be due to tidal fluctuations in groundwater level.

Pit 12 Assessment

In accordance with Terraphase's August 14, 2025, e-mail, a soil boring permit was obtained from the Alameda County Public Works Agency, and utility clearance activities were conducted to facilitate collection of soil samples and one grab groundwater sample from Pit 12, which was observed to have an apparent soil bottom. On September 11, 2025, a hand auger was advanced to attempt sample collection, but refusal was met at several locations in Pit 12. Hand digging indicated the presence of metal debris and a potential concrete or metal pit bottom. One soil sample was collected from the pit and analyzed for all Site COPCs (Table 4). In an e-mail dated September 19, 2025, Terraphase requested approval from ACEHD to use an excavator to explore Pit 12 further. Pit 12 remains open and unfilled pending approval from ACEHD for additional investigation activities.

Pit and Sump Filling and Covering Activities

Once the liquid and sediment removal activities and pit integrity assessment were completed, Pits 2 through 10, 13, 14, 15, 17, and 18 were filled with Cell-Crete's permeable lightweight cellular concrete (Attachment E). Pit filling activities began on September 17, 2025, when the larger pits were backfilled approximately halfway to allow the cellular concrete to cure, in accordance with manufacturer specifications. The remainder of the pits were filled on September 18, 2025, as documented in

Attachment C. During Cell-Crete filling operations, the following staging and operating procedures were maintained:

- Best management practices were maintained at stormwater conveyance features;
- Cell-Crete raw materials and the mixer were staged on an open paved pad, a minimum of 100 feet from the nearest catch basin, when feasible;
- Secondary containment was placed under all mix and transfer points, and all pallets and bags were staged on plastic sheeting with bermed edges;
- A water truck was available for general dust suppression, and handling of cementitious materials was performed under covers to limit airborne silica; and
- A spill kit, pH strips, and a calibrated field pH meter were maintained at the staging area.

Pits 11 and 19, which are actually sumps or inlets connected to the Site stormwater conveyance system, were finished with engineered covers. The covers consist of steel support beams overlain with plywood panels rather than filled with cellular concrete to promote surface drainage of stormwater to the existing Site stormwater infrastructure and outfall. The engineered covers are documented in Attachment C, and the engineering plans are included as Attachment F. Pit 5 was filled with Cell-Crete, which is a deviation from the Final Work Plan, because it was determined to be hydraulically connected to Pit 4 once liquid and sediment were removed and the pits could be assessed. Pit 12 was not filled with Cell-Crete and will be investigated further pending ACEHD approval of the proposed work.

Waste Disposal

Waste removed from the pits, which was disposed off site, includes (1) liquid removed from the pits and vacuumed directly into trucks, (2) sediment removed from the pits and placed in roll-off bins, and (3) rinse water and recharge water placed in a frac tank. The disposition of each waste stream is presented below, and waste manifests are included in Attachment A.

- **Pit Liquid** – Consists of liquid removed from the pits on August 4, 2025, which was profiled using samples collected on May 9, 2025. The approximately 4,300 gallons of removed pit liquid was disposed as non-hazardous waste at Heritage - Crystal Clean in Bakersfield, California.
- **Sediment Roll-Off Bins** – Sediment removed from the pits was placed in four roll-off bins, as detailed above. Samples were collected and analyzed for all Site COPCs on August 12, 2025 (Bins One, Two, and Three), and August 28, 2025 (Bin Four). Based on analytical data, the bins were profiled and disposed of as follows:
  - Bins One, Two, and Four: The approximately 45 cubic yards of sediment was profiled as non-hazardous waste (Profile 671425CA) and disposed at Waste Management Altamont Landfill & Resource Recovery in Livermore, California, on October 24, 2025.
  - Bin Three: The approximately 15 cubic yards of sediment was profiled as non-Resource Conservation and Recovery Act hazardous waste (Profile CA626668), based on leachable lead concentrations, and disposed at Waste Management Kettleman Hills landfill in Kettleman City, California, on November 12, 2025.

- **Frac Tank Liquid** – Consists of approximately 14,200 gallons of recharging water removed from the pits and the rinse water from pit cleanout activities. The liquid from the frac tank was profiled as non-hazardous waste (Profile 671423CA) and disposed at Waste Management Altamont Landfill & Resource Recovery in Livermore, California, between October 20 and 23, 2005.
- **Surface Sediment Drums** – Composite samples from the seven 55-gallon drums of sediment consisting of surface sediment that was swept into drums between June 13, and June 17, 2025, were collected on September 29, 2025. COMP-01 includes sediment from drums 1, 2, and 3, and COMP-03 includes sediment from drums 4 and 7. The SED-19 sample is representative of the sediment in drums 5 and 6, since these drums contain only sediment collected from around Sump 19 (Table 2). The seven drums (approximately 1,050 pounds) of sediment were profiled as non-hazardous waste and disposed at Yuma Yes 2 Waste Transfer Station on November 12, 2025, along with two drums of water generated from the former industrial water supply well. Activities associated with the former industrial water supply well will be submitted under separate cover once the well has been decommissioned.

Conclusions and Remaining Pit/Sump Activities

Activities associated with the pits/sumps were completed in accordance with the approved Work Plan, Addendum, and Final Work Plan, except where noted. Waste was disposed of offsite, in accordance with all local, state, and federal requirements.

Pit 12 remains open pending additional investigation work, which was proposed to ACEHD in an email dated September 19, 2025. If ACEHD approves the proposed activities, Terraphase will use an excavator to clear debris from Pit 12 to ascertain whether the pit has a soil or concrete bottom. If the pit has a soil bottom, additional soil and grab-groundwater samples will be collected from below the pit. If the pit has a concrete bottom, the pit will be cleared of debris to the extent possible and filled.

Closing

If you have any questions or comments regarding this submittal, please contact Amber Koster at 510-455-0522 or Peter Zawislanski at 510-645-1858.

Sincerely,

for Terraphase Engineering Inc.









Amber M. Koster, PE
Senior Associate Engineer

Peter Zawislanski, PG, CHg
Senior Principal Hydrogeologist

Attachments (13):

- Tables
  - 1 Pit Liquid and Recharging Water Analytical Results
  - 2 Surface Sediment Analytical Results
  - 3 Bin Sediment Analytical Results
  - 4 Pit Soil Analytical Results
  - 5 Frac Tank Analytical Results
- Figures
  - 1 Site Location Map
  - 2 Pit Locations
- Attachments
  - A Waste Manifests
  - B WaterTite Hydraulic Cement Safety Data Sheet
  - C Photograph Log
  - D Recharge Water Calculations
  - E Cell-Crete Permeable Lightweight Cellular Concrete Specification Sheet
  - F Engineering Plans for Pit/Sump Covers

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code							PW02	PW03	PW04		PW05		PW06		PW07	PW08	
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW02-20250509	PW03-20250509	PW04-20250509	PW04-20250818	PW05-20250509	PW05-20250818	PW06-20250509	PW06-20250818	PW07-20250509	PW08-20250509	PW08-20250818
Date							05/09/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025
Metals																	
Antimony	µg/L	30	500	640	-	-	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Arsenic	µg/L	150	8	0.14	-	-	<10	**7.3 J**	<10	<10	<10	**6.3 J**	<10	<10	<10	<10	<10
Barium	µg/L	-	-	-	-	2,000	**19**	**26**	**25**	**40**	**30**	**55**	**26**	**45**	**27**	**27**	**45**
Beryllium	µg/L	2.7	-	0.033	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cadmium	µg/L	0.25	1	-	-	-	<5	<5	<5	**0.47 BJ**	<5	**0.91 BJ**	<5	**0.74 BJ**	<5	<5	**0.39 BJ**
Chromium (III+VI)	µg/L	180	-	-	-	-	<10	<10	<10	<10	**3.1 J**	**9.4 J**	<10	**4.3 J**	<10	<10	<10
Cobalt	µg/L	3	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Copper	µg/L	9	3	-	-	-	**10 J**	**8.7 J**	**8.3 J**	**7 J**	**14**	**31**	**7.2 J**	**20**	**22**	**15**	**11**
Lead	µg/L	2.5	2	-	-	-	**3.2 J**	**8.8 J**	<10	**12**	**33**	**85**	**5.1 J**	**63**	**14**	<10	<10
Mercury	µg/L	0.025	0.025	0.051	0.37	-	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Molybdenum	µg/L	240	-	-	-	-	**9 J**	**170**	**17**	**32**	**17**	**72**	**7.6 J**	**40**	**41**	**7.6 J**	**13**
Nickel	µg/L	52	5	4,600	-	-	<10	**8.4 J**	<10	**3.4 J**	<10	**11**	<10	**5.4 J**	<10	<10	<10
Selenium	µg/L	5	0.5	4,200	-	-	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Silver	µg/L	3.4	0.7	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Thallium	µg/L	20	210	0.47	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Vanadium	µg/L	19	-	-	-	-	**2 J**	**2.3 J**	**2.1 J**	**16**	**3.8 J**	**15**	<10	**3.1 J**	**1.4 J**	**2.3 J**	**2 J**
Zinc	µg/L	120	20	26,000	-	-	**22 J**	**22 J**	<50	**41 J**	**170**	**370**	**24 J**	**230**	**20 J**	<50	<50
TPH																	
TPH as Gasoline	µg/L	440	3,700	-	-	-	<50	**54**	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH as Diesel	µg/L	640	640	-	-	-	**63 J**	**560**	**110**	**320**	660	**550**	**140**	**440**	**120**	<99	**64 J**
TPH as Motor Oil	µg/L	-	-	-	-	-	<290	**510**	<310	**150 J**	**400**	**330**	<300	**390**	<300	<300	**74 J**
PCBs																	
Aroclor 1016	µg/L	-	-	-	-	-	<0.48	<0.52	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Aroclor 1221	µg/L	-	-	-	-	-	<0.48	<0.52	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Aroclor 1232	µg/L	-	-	-	-	-	<0.48	<0.52	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Aroclor 1242	µg/L	-	-	-	-	-	<0.48	**1.3**	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Aroclor 1248	µg/L	-	-	-	-	-	<0.48	<0.52	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Aroclor 1254	µg/L	-	-	-	-	-	<0.48	<0.52	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Aroclor 1260	µg/L	-	-	-	-	-	<0.48	<0.52	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Aroclor 1262	µg/L	-	-	-	-	-	<0.48	<0.52	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Aroclor 1268	µg/L	-	-	-	-	-	<0.48	<0.52	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
Total PCBs	µg/L	0.014	0.03	0.000019	1.3	-	<0.48	**1.3**	<0.52	<0.52	<0.49	<0.52	<0.48	<0.5	<0.52	<0.48	<0.47
VOC																	
1,4-Dichloro-2-butene(cis)	µg/L	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichloro-2-butene(trans)	µg/L	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	µg/L	930	-	-	16	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	62	3,100	200,000	6,200	-	<0.5	<0.5	<0.5	<0.5	<0.5	**0.4 J**	<0.5	<0.5	<0.5	<0.5	**0.08 J**
1,1,2,2-Tetrachloroethane	µg/L	420	900	2.3	14	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	4,700	-	8.9	23	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	47	-	-	33	-	<0.5	<0.5	<0.5	**5.6**	<0.5	**24**	<0.5	<0.5	**3.2**	<0.5	**1**
1,1-Dichloroethene	µg/L	25	22,000	0.9	16	-	<0.5	<0.5	<0.5	**0.1 J**	<0.5	**0.2 J**	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	ng/L	2,700,000	6	-	94,000	-	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
1,2,4-Trichlorobenzene	µg/L	25	65	0.076	150	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane	µg/L	-	-	-	0.34	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	1,400	-	-	0.77	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	µg/L	14	65	3,000	11,000	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	µg/L	10,000	11,000	28	9.8	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene(cis)	µg/L	590	22,000	-	1,100	-	<0.5	<0.5	<0.5	**0.09 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.1**
1,2-Dichloroethene(trans)	µg/L	590	22,000	4,000	460	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	2,900	1,500	31	29	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW02	PW03	PW04		PW05		PW06		PW07	PW08	
Field ID							PW02-20250509	PW03-20250509	PW04-20250509	PW04-20250818	PW05-20250509	PW05-20250818	PW06-20250509	PW06-20250818	PW07-20250509	PW08-20250509	PW08-20250818
Date							05/09/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025
1,3-Dichloropropane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene(cis)	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene(trans)	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	µg/L	15	65	18	11	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorotoluene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methyl-2-pentanone	µg/L	170	-	-	2,300,000	-	<5	<5	<5	<5	<5	**0.8 J**	<5	<5	<5	<5	<5
Acetone	µg/L	1,500	-	-	95,000,000	-	<21	<21	<21	<20	<21	**10 J**	<21	<20	<20	<20	<20
Benzene	µg/L	46	350	5.9	1.9	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene	µg/L	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	µg/L	1,100	3,200	27	3.8	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	1,100	3,200	120	510	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	160	3,200	4,000	73	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	240	3,200	0.9	1.8	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	µg/L	25	65	570	1,700	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	µg/L	1,100	3,200	21	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	-	-	-	39,000	-	<0.5	<0.5	<0.5	**5.9**	<0.5	**23**	<0.5	<0.5	**0.3 J**	<0.5	<0.5
Chloroform	µg/L	620	3,200	130	3.6	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane	µg/L	1,100	3,200	-	1,100	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloromethane	µg/L	2,200	3,200	1,000	92	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Diisopropyl ether	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	290	43	130	15	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethyl-t-Butyl Ether	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	µg/L	4.7	3.2	0.01	1.3	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Ethyl Ketone	µg/L	14,000	-	-	9,400,000	-	<5	<5	<5	**1.1 J**	<5	**1.7 J**	<5	<5	<5	<5	<5
Methyl Tertiary Butyl Ether	µg/L	66,000	8,000	-	2,000	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	µg/L	24	15	-	20	-	<0.5	<0.5	<0.5	**0.7 J**	<0.5	**0.6 J**	<0.5	<1	<0.5	<0.5	<1
n-butylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-propylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-isopropyltoluene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
sec-butylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	µg/L	-	-	-	35,000	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tert-Amyl-Methyl Ether	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tert-Butyl alcohol	µg/L	18,000	-	-	59,000,000	-	<10	**16**	<10	**5.5 J**	<10	**3.4 J**	<10	<10	<10	<10	<10
tert-Butylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	µg/L	120	230	2	2.8	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	130	2,500	520	6,800	-	**0.2 BJ**	**0.3 BJ**	**0.1 BJ**	**0.05 J**	**0.2 BJ**	<0.5	**0.2 BJ**	<0.5	<0.5	<0.5	<0.5
Trichloroethene	µg/L	360	200	7	7.4	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.1 J**
Trichlorofluoromethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	µg/L	780	-	1.6	0.14	-	<0.5	<0.5	<0.5	<0.5	<0.5	**0.2 J**	<0.5	<0.5	<0.5	<0.5	**0.3 J**
Xylene (m & p)	µg/L	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylene (o)	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes (total)	µg/L	-	100	-	1,600	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SVOC																	
2,4,5-Trichlorophenol	µg/L	63	1	600	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
2,4,6-Trichlorophenol	µg/L	490	1	0.29	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
2,4-Dichlorophenol	µg/L	180	1	60	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
2,4-Dimethylphenol	µg/L	530	30	2,300	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
2,4-Dinitrophenol	µg/L	75	30	4	-	-	<49	<48	<53	<51	<49	<51	<47	<51	<52	<48	<48
2,4-Dinitrotoluene	µg/L	120	190	1.7	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
2,6-dinitrotoluene	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
2-chloronaphthalene	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code							PW02	PW03	PW04		PW05		PW06		PW07	PW08	
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW02-20250509	PW03-20250509	PW04-20250509	PW04-20250818	PW05-20250509	PW05-20250818	PW06-20250509	PW06-20250818	PW07-20250509	PW08-20250509	PW08-20250818
Date							05/09/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025
2-chlorophenol	µg/L	440	1	400	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
2-Methylphenol	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
2-Nitroaniline	µg/L	-	-	-	-	-	<49	<48	<53	<51	<49	<51	<47	<51	<52	<48	<48
2-Nitrophenol	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
3,3-Dichlorobenzidine	µg/L	250	-	0.077	-	-	<24	<24	<26	<25	<24	<25	<24	<25	<26	<24	<24
3-Nitroaniline	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	<49	<48	<53	<51	<49	<51	<47	<51	<52	<48	<48
4-bromophenyl phenyl ether	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
4-Chloroaniline	µg/L	5	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
4-Nitroaniline	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Aniline	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Azobenzene	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Benzidine	µg/L	-	-	-	-	-	<49	<48	<53	<51	<49	<51	<47	<51	<52	<48	<48
Benzoic Acid	µg/L	-	-	-	-	-	<49	<48	<53	<51	<49	<51	<47	<51	<52	<48	<48
Benzyl alcohol	µg/L	-	-	-	-	-	<24	<24	<26	<25	<24	<25	<24	<25	<26	<24	<24
Bis(2-chloroethoxy) methane	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Bis(2-chloroethyl)ether	µg/L	61	-	0.045	25	-	<24	<24	<26	<25	<24	<25	<24	<25	<26	<24	<24
Bis(2-chloroisopropyl) ether	µg/L	61	-	4,000	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Bis(2-ethylhexyl) phthalate	µg/L	32	-	0.37	-	-	<9.7	<9.6	<11	**3.6 J**	<9.7	**3.8 J**	<9.4	**4.4 J**	<10	<9.6	**3.5 J**
Butyl benzyl phthalate	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Carbazole	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Dibenzofuran	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Diethylphthalate	µg/L	1.5	1.7	600	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Dimethyl phthalate	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Di-n-butyl phthalate	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Di-n-octyl phthalate	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Hexachlorobenzene	µg/L	3.7	65	0.000079	0.35	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Hexachlorocyclopentadiene	µg/L	-	-	-	-	50	<24	<24	<26	<25	<24	<25	<24	<25	<26	<24	<24
Hexachloroethane	µg/L	12	94	0.1	7	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Isophorone	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Nitrobenzene	µg/L	-	-	-	-	-	<24	<24	<26	<25	<24	<25	<24	<25	<26	<24	<24
N-Nitrosodimethylamine	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Phenol	µg/L	1,300	30	300,000	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Pyridine	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
3-Methylphenol & 4-Methylphenol	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
PAH																	
2-Methylnaphthalene	µg/L	2.1	30	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Acenaphthene	µg/L	23	15	90	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Acenaphthylene	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Anthracene	µg/L	0.73	15	400	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Benz(a)anthracene	µg/L	0.027	15	0.0013	230	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Benzo(a)pyrene	µg/L	0.014	15	0.00013	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Benzo(b)fluoranthene	µg/L	-	15	0.0013	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Benzo(k)fluoranthene	µg/L	3.7	15	0.013	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Chrysene	µg/L	0.35	15	0.049	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Dibenz(a,h)anthracene	µg/L	7.5	15	0.00013	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Fluoranthene	µg/L	8.1	8	20	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Fluorene	µg/L	3.9	15	70	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Indeno(1,2,3-c,d)pyrene	µg/L	-	15	0.0013	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Phenanthrene	µg/L	-	-	-	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6
Pyrene	µg/L	2	15	30	-	-	<9.7	<9.6	<11	<10	<9.7	<10	<9.4	<10	<10	<9.6	<9.6

Table 1
Pit Liquid and Recharging Water Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code							PW02	PW03	PW04		PW05		PW06		PW07	PW08	
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW02-20250509	PW03-20250509	PW04-20250509	PW04-20250818	PW05-20250509	PW05-20250818	PW06-20250509	PW06-20250818	PW07-20250509	PW08-20250509	PW08-20250818
Date							05/09/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025
PFAS	Unit																
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ng/l	-	-	-	-	-	<6	<60	<12	<30	<12	<30	<12	<6.26	<6	<6	<6.3
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ng/l	-	-	-	-	-	<6.14	<61.4	<12.3	<30.7	<12.3	<30.7	<12.3	<6.41	<6.14	<6.14	<6.44
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ng/l	-	-	-	-	-	<6	<60	<12	<30	<12	<30	<12	<6.26	<6	<6	<6.3
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ng/l	-	-	-	-	-	<40	<400	<80	<200	<80	<200	<80	<41.7	<40	<40	<42
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ng/l	-	-	-	-	-	<40	<400	<80	<200	<80	<200	<80	<41.7	<40	<40	<42
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ng/l	-	-	-	-	-	<8	<80	<16	<40	<16	<40	<16	<8.35	<8	<8	<8.4
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ng/l	-	-	-	-	-	<6.32	<63.2	<12.6	<31.6	<12.6	<31.6	<12.6	<6.59	<6.32	<6.32	<6.63
6:2 Fluorotelomer Sulfonate (6:2 FtS)	ng/l	-	-	-	-	-	<6.07	<60.7	<12.1	<30.4	<12.1	<30.4	<12.1	<6.33	<6.07	<6.07	<6.37
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ng/l	-	-	-	-	-	<6.24	<62.4	<12.5	<31.2	<12.5	<31.2	<12.5	<6.51	<6.24	<6.24	<6.55
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ng/l	-	-	-	-	-	<1.6	<16	<3.2	<8	<3.2	<8	<3.2	<1.67	<1.6	<1.6	<1.68
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ng/l	-	-	-	-	-	<16	<160	<32	<80	<32	<80	<32	<16.7	<16	<16	<16.8
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/l	-	-	-	-	-	<1.6	<16	<3.2	<8	<3.2	<8	<3.2	<1.67	<1.6	<1.6	<1.68
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ng/l	-	-	-	-	-	<1.6	<16	<3.2	<8	<3.2	<8	<3.2	<1.67	<1.6	<1.6	<1.68
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ng/l	-	-	-	-	-	<16	<160	<32	<80	<32	<80	<32	<16.7	<16	<16	<16.8
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/l	-	-	-	-	-	<1.6	<16	<3.2	<8	<3.2	<8	<3.2	<1.67	**0.711**	<1.6	<1.68
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ng/l	-	-	-	-	-	<3.2	<32	<6.4	<16	<6.4	<16	<6.4	<3.34	<3.2	<3.2	<3.36
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ng/l	-	-	-	-	-	<2.85	<28.5	<5.7	<14.3	<5.7	<14.3	<5.7	<2.97	<2.85	<2.85	<2.99
perfluoro(2-methyl-3-oxahexanoyl)fluoride (HFPO-DA)	ng/L	-	-	-	-	-	<6.68	<66.8	<13.4	<33.4	<13.4	<33.4	<13.4	<6.97	<6.68	<6.68	<7.01
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ng/l	-	-	-	-	-	<3.2	<32	<6.4	<16	<6.4	<16	<6.4	<3.34	<3.2	<3.2	<3.36
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ng/l	-	-	-	-	-	<3.2	<32	<6.4	<16	<6.4	<16	<6.4	<3.34	<3.2	<3.2	<3.36
Perfluorodecanesulfonic Acid (PFDS)	ng/l	-	-	-	-	-	<1.54	<15.4	<3.08	<7.7	<3.08	<7.7	<3.08	<1.61	<1.54	<1.54	<1.62
Perfluorodecanoic Acid (PFDA)	ng/l	94	94	-	-	-	**2.64**	**6.32**	**2.07**	**3.87**	**2.22**	**5.64**	**1.18**	**2.45**	**3.62**	**0.846**	**2.07**
Perfluorododecanesulfonic Acid (PFDoS)	ng/l	-	-	-	-	-	<1.55	<15.5	<3.1	<7.75	<3.1	<7.75	<3.1	<1.62	<1.55	<1.55	<1.63
Perfluorododecanoic Acid (PFDoA)	ng/l	72,000	-	-	-	-	<1.6	<16	<3.2	<8	<3.2	<8	<3.2	**0.242**	<1.6	<1.6	<1.68
Perfluoroheptanesulfonic Acid (PFHpS)	ng/l	-	-	-	-	-	**9.14**	<15.2	<3.04	**2.86**	<3.04	<7.6	<3.04	**1.45**	**1.19**	<1.52	**0.431**
Perfluoroheptanoic Acid (PFHpA)	ng/l	870,000	-	-	-	-	**7.1**	**24.4**	**6.71**	**9.36**	**6.32**	**11.7**	**3.06**	**7.65**	**9.76**	**2.93**	**2.34**
Perfluorohexanesulfonic Acid (PFHxS)	ng/l	14,000	14,000	-	-	-	**150**	**41.4**	**34.5**	**75.4**	**37**	**66.6**	**16.7**	**53.4**	**56.4**	**9.88**	**17.9**
Perfluorononanesulfonic Acid (PFNS)	ng/l	-	-	-	-	-	<1.54	<15.4	<3.08	<7.7	<3.08	<7.7	<3.08	<1.61	<1.54	<1.54	<1.62

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code							PW02	PW03	PW04		PW05		PW06		PW07	PW08	
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW02-20250509	PW03-20250509	PW04-20250509	PW04-20250818	PW05-20250509	PW05-20250818	PW06-20250509	PW06-20250818	PW07-20250509	PW08-20250509	PW08-20250818
Date							05/09/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025
Perfluorononanoic Acid (PFNA)	ng/l	120	120	-	-	-	**56.3**	**14.4**	**9.53**	**45.1**	**9.69**	**46.9**	**7.85**	**32.1**	**22.6**	**6.03**	**9.69**
Perfluorooctanesulfonamide (PFOSA)	ng/l	-	-	-	-	-	**4.89**	<16	**2.32**	**3.49**	**2.16**	**5.43**	**0.983**	**2.14**	**2.28**	**2.92**	**2.24**
Perfluoropentanesulfonic Acid (PFPeS)	ng/l	-	-	-	-	-	**10.5**	**7.51**	**2.46**	**4.73**	**2.3**	**4.58**	**1.53**	**3.65**	**3.27**	**0.921**	**1.28**
Perfluoropentanoic Acid (PFPeA)	ng/l	140,000	-	-	-	-	**9.85**	**21.7**	**17.9**	**24.3**	**18.6**	**28.8**	**7.4**	**27.6**	**28.2**	**6.55**	**6.4**
Perfluorotetradecanoic Acid (PFTeDA)	ng/l	-	-	-	-	-	<1.6	<16	<3.2	<8	<3.2	<8	<3.2	<1.67	<1.6	<1.6	<1.68
Perfluorotridecanoic Acid (PFTrDA)	ng/l	-	-	-	-	-	<1.6	<16	<3.2	<8	<3.2	<8	<3.2	<1.67	<1.6	<1.6	<1.68
Perfluoroundecanoic Acid (PFUnA)	ng/l	49,000	-	-	-	-	**3.07**	<16	**1.19**	**5.56**	**1.46**	**11.8**	**0.942**	**1.89**	**2.53**	<1.6	**1.75**
Perfluorobutanesulfonic Acid (PFBS)	ng/l	210,000	210,000	500	-	-	**7.9**	**27**	**3.88**	**7.57**	**3.75**	**6.72**	**2.44**	**6.01**	**6.51**	**2.12**	**2.18**
Perfluorooctanoic Acid (PFOA)	ng/l	48,000	3,200	0.0036	-	-	**29.7**	**83**	**13.2**	**25.1**	**13.4**	**29.5**	**6.87**	**19.9**	**21**	**8.22**	**8.04**
PERFLUOROBUTANOIC ACID (PFBA)	ng/l	76,000	120,000	-	-	-	**13.1**	**164**	**15.5**	**17.3**	**16.5**	**24**	**5.56**	**15.2**	**22**	**6.03**	**6.69**
Perfluorohexanoic Acid (PFHxA)	ng/l	34,000	540,000	-	-	-	**41.2**	**88.4**	**19.6**	**31.6**	**20.3**	**39.1**	**14.2**	**36.9**	**30.4**	**9.21**	**8.2**
Perfluorooctane Sulfonic Acid (PFOS)	ng/l	17	17	0.07	-	-	**595**	**45.4**	**35.2**	**164**	**34.6**	**158**	**25.9**	**55.2**	**63.9**	**16.2**	**27.8**
Asbestos																	
Asbestos fibres	MFL	-	-	-	-	-	-	-	-	<0	-	<0	-	<0	-	-	<0
Herbicide																	
4-Nitrophenol	µg/L	-	-	-	-	-	<49	<48	<53	<51	<49	<51	<47	<51	<52	<48	<48
Pentachlorophenol	µg/L	15	1	0.04	-	-	<24	<24	<26	<25	<24	<25	<24	<25	<26	<24	<24
other																	
Acute Toxicity	% Survival	-	-	-	-	-	100	100	100	100	100	100	100	100	100	100	90

Note:

Detected concentrations are **bold-faced**

Detections exceeding the Aquatic Habitat Goal - Seafood Ingestion ESL are orange

Detections exceeding the Aquatic Habitat Goal Saltwater Ecotox ESL are red

Detections exceeding the Aquatic Habitat Goal, Fresh Water Ecotox ESL are grey

Detections exceeding the EPA RSL (Nov 2024, HQ=1.0) - MCLs are green

Detections exceeding the GW VI HHRL C/I ESL are blue

ng/L = nanograms per liter

µg/L= micrograms per Liter

- = Not analyzed/Not available

< = analyte not detected at or above laboratory reporting limit

B = contamination found in associated method blank

J = Estimated below laboratory reporting limit

PAH = polyaromatic hydrocarbons

PCB = polychlorinated biphenyls

PFAS = Per- and Polyfluoroalkyl Substances

TPH = total petroleum hydrocarbon

SVOC = semivolatile organic compounds

VOC = volatile organic compounds

Environmental Standards

San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , 2019-rev2, Aquatic Habitat Goal - Seafood Ingestion ESL

San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , 2019-rev2, Aquatic Habitat Goal Saltwater Ecotox ESL

San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , 2019-rev2, Aquatic Habitat Goal, Fresh Water Ecotox ESL

San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for Groundwater (GW) Vapor Intrusion (VI) Human Health Risk Levels (HHRL) in Commercial/Industrial (C/I) Scenarios , 2019-rev2, GW VI HHRL C/I ESL

United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) (TR=1E-06, HQ=1) , November 2024, EPA RSL (Nov 2024, HQ=1.0) - MCLs **Used only when no ESL is available*

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code							PW09		PW10	PW11	PW14			PW15		PW18
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW09-20250509	PW09-20250818	PW10-20250509	PW11-20250509	DUP-20250818	PW14-20250509	PW14-20250818	PW15-20250509	PW15-20250818	PW18-20250509
Date							05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025
Metals																
Antimony	µg/L	30	500	640	-	-	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
Arsenic	µg/L	150	8	0.14	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Barium	µg/L	-	-	-	-	2,000	**41**	**52**	**31**	**120**	**49**	**35**	**47**	**160**	**47**	**11**
Beryllium	µg/L	2.7	-	0.033	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cadmium	µg/L	0.25	1	-	-	-	<5	**0.74 BJ**	<5	<5	**0.42 BJ**	<5	<5	**2.4 J**	**0.44 BJ**	<5
Chromium (III+VI)	µg/L	180	-	-	-	-	<10	**3.1 J**	<10	<10	<10	<10	<10	**28**	<10	<10
Cobalt	µg/L	3	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	**3 J**	<5	<5
Copper	µg/L	9	3	-	-	-	**22**	**48**	**12**	**14**	**9.4 J**	**9.5 J**	**8.3 J**	**83**	**7.9 J**	**22**
Lead	µg/L	2.5	2	-	-	-	**6.2 J**	**92**	**4.3 J**	**43**	**7.2 J**	<10	<10	**330**	<10	**4.5 J**
Mercury	µg/L	0.025	0.025	0.051	0.37	-	<0.4	**0.078 J**	<0.4	<0.4	<0.4	<0.4	<0.4	**0.081 J**	<0.4	<0.4
Molybdenum	µg/L	240	-	-	-	-	**12**	**43**	**8.5 J**	**22**	**64**	**36**	**64**	**31**	**64**	**7.9 J**
Nickel	µg/L	52	5	4,600	-	-	<10	<10	<10	<10	**5.9 J**	**3.4 J**	**5.5 J**	**23**	**5.4 J**	<10
Selenium	µg/L	5	0.5	4,200	-	-	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Silver	µg/L	3.4	0.7	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Thallium	µg/L	20	210	0.47	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Vanadium	µg/L	19	-	-	-	-	<10	**2 J**	**1.6 J**	<10	<10	<10	<10	**15**	<10	**1.3 J**
Zinc	µg/L	120	20	26,000	-	-	**23 J**	**220**	<50	**95**	**13 J**	<50	<50	**1,000**	<50	**67**
TPH																
TPH as Gasoline	µg/L	440	3,700	-	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH as Diesel	µg/L	640	640	-	-	-	**110**	**180**	**100**	**200**	<95	<99	<94	<100	**66 J**	**190**
TPH as Motor Oil	µg/L	-	-	-	-	-	<310	**100 J**	<290	**65 J**	**67 J**	<300	**68 J**	<300	**87 J**	**73 J**
PCBs																
Aroclor 1016	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Aroclor 1221	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Aroclor 1232	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Aroclor 1242	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Aroclor 1248	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Aroclor 1254	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Aroclor 1260	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Aroclor 1262	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Aroclor 1268	µg/L	-	-	-	-	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
Total PCBs	µg/L	0.014	0.03	0.000019	1.3	-	<0.49	<0.51	<0.48	<0.49	<0.47	<0.48	<0.48	<0.49	<0.48	<0.48
VOC																
1,4-Dichloro-2-butene(cis)	µg/L	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichloro-2-butene(trans)	µg/L	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	µg/L	930	-	-	16	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	62	3,100	200,000	6,200	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	µg/L	420	900	2.3	14	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	4,700	-	8.9	23	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	47	-	-	33	-	<0.5	**4.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	µg/L	25	22,000	0.9	16	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	ng/L	2,700,000	6	-	94,000	-	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
1,2,4-Trichlorobenzene	µg/L	25	65	0.076	150	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane	µg/L	-	-	-	0.34	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	1,400	-	-	0.77	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	µg/L	14	65	3,000	11,000	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	µg/L	10,000	11,000	28	9.8	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene(cis)	µg/L	590	22,000	-	1,100	-	<0.5	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene(trans)	µg/L	590	22,000	4,000	460	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	2,900	1,500	31	29	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code							PW09		PW10	PW11	PW14			PW15		PW18
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW09-20250509	PW09-20250818	PW10-20250509	PW11-20250509	DUP-20250818	PW14-20250509	PW14-20250818	PW15-20250509	PW15-20250818	PW18-20250509
Date							05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025
1,3-Dichloropropane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene(cis)	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene(trans)	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	µg/L	15	65	18	11	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorotoluene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methyl-2-pentanone	µg/L	170	-	-	2,300,000	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	µg/L	1,500	-	-	95,000,000	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzene	µg/L	46	350	5.9	1.9	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene	µg/L	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	µg/L	1,100	3,200	27	3.8	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	1,100	3,200	120	510	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	160	3,200	4,000	73	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	240	3,200	0.9	1.8	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	µg/L	25	65	570	1,700	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	µg/L	1,100	3,200	21	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	-	-	-	39,000	-	<0.5	**1.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	µg/L	620	3,200	130	3.6	-	<0.5	**0.3 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane	µg/L	1,100	3,200	-	1,100	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloromethane	µg/L	2,200	3,200	1,000	92	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Diisopropyl ether	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	290	43	130	15	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethyl-t-Butyl Ether	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	µg/L	4.7	3.2	0.01	1.3	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Ethyl Ketone	µg/L	14,000	-	-	9,400,000	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methyl Tertiary Butyl Ether	µg/L	66,000	8,000	-	2,000	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	µg/L	24	15	-	20	-	<0.5	<1	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<0.5
n-butylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-propylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-isopropyltoluene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
sec-butylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	µg/L	-	-	-	35,000	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tert-Amyl-Methyl Ether	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tert-Butyl alcohol	µg/L	18,000	-	-	59,000,000	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
tert-Butylbenzene	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	µg/L	120	230	2	2.8	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	130	2,500	520	6,800	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	µg/L	360	200	7	7.4	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	µg/L	780	-	1.6	0.14	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	µg/L	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylene (o)	µg/L	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes (total)	µg/L	-	100	-	1,600	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SVOC																
2,4,5-Trichlorophenol	µg/L	63	1	600	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
2,4,6-Trichlorophenol	µg/L	490	1	0.29	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
2,4-Dichlorophenol	µg/L	180	1	60	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
2,4-Dimethylphenol	µg/L	530	30	2,300	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
2,4-Dinitrophenol	µg/L	75	30	4	-	-	<53	<51	<47	<49	<48	<49	<47	<50	<47	<48
2,4-Dinitrotoluene	µg/L	120	190	1.7	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
2,6-dinitrotoluene	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
2-chloronaphthalene	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code							PW09		PW10	PW11	PW14			PW15		PW18
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW09-20250509	PW09-20250818	PW10-20250509	PW11-20250509	DUP-20250818	PW14-20250509	PW14-20250818	PW15-20250509	PW15-20250818	PW18-20250509
Date							05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025
2-chlorophenol	µg/L	440	1	400	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
2-Methylphenol	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
2-Nitroaniline	µg/L	-	-	-	-	-	<53	<51	<47	<49	<48	<49	<47	<50	<47	<48
2-Nitrophenol	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
3,3-Dichlorobenzidine	µg/L	250	-	0.077	-	-	<26	<25	<24	<24	<24	<24	<24	<25	<24	<24
3-Nitroaniline	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	<53	<51	<47	<49	<48	<49	<47	<50	<47	<48
4-bromophenyl phenyl ether	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
4-Chloroaniline	µg/L	5	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
4-Nitroaniline	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Aniline	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Azobenzene	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Benzidine	µg/L	-	-	-	-	-	<53	<51	<47	<49	<48	<49	<47	<50	<47	<48
Benzoic Acid	µg/L	-	-	-	-	-	<53	<51	<47	<49	<48	<49	<47	<50	<47	<48
Benzyl alcohol	µg/L	-	-	-	-	-	<26	<25	<24	<24	<24	<24	<24	<25	<24	<24
Bis(2-chloroethoxy) methane	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Bis(2-chloroethyl)ether	µg/L	61	-	0.045	25	-	<26	<25	<24	<24	<24	<24	<24	<25	<24	<24
Bis(2-chloroisopropyl) ether	µg/L	61	-	4,000	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Bis(2-ethylhexyl) phthalate	µg/L	32	-	0.37	-	-	<11	**3.6 J**	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Butyl benzyl phthalate	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Carbazole	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Dibenzofuran	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Diethylphthalate	µg/L	1.5	1.7	600	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Dimethyl phthalate	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Di-n-butyl phthalate	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Di-n-octyl phthalate	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Hexachlorobenzene	µg/L	3.7	65	0.000079	0.35	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Hexachlorocyclopentadiene	µg/L	-	-	-	-	50	<26	<25	<24	<24	<24	<24	<24	<25	<24	<24
Hexachloroethane	µg/L	12	94	0.1	7	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Isophorone	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Nitrobenzene	µg/L	-	-	-	-	-	<26	<25	<24	<24	<24	<24	<24	<25	<24	<24
N-Nitrosodimethylamine	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Phenol	µg/L	1,300	30	300,000	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Pyridine	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
3-Methylphenol & 4-Methylphenol	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
PAH																
2-Methylnaphthalene	µg/L	2.1	30	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Acenaphthene	µg/L	23	15	90	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Acenaphthylene	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Anthracene	µg/L	0.73	15	400	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Benz(a)anthracene	µg/L	0.027	15	0.0013	230	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Benzo(a)pyrene	µg/L	0.014	15	0.00013	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Benzo(b)fluoranthene	µg/L	-	15	0.0013	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Benzo(k)fluoranthene	µg/L	3.7	15	0.013	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Chrysene	µg/L	0.35	15	0.049	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Dibenz(a,h)anthracene	µg/L	7.5	15	0.00013	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Fluoranthene	µg/L	8.1	8	20	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Fluorene	µg/L	3.9	15	70	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Indeno(1,2,3-c,d)pyrene	µg/L	-	15	0.0013	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Phenanthrene	µg/L	-	-	-	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6
Pyrene	µg/L	2	15	30	-	-	<11	<10	<9.4	<9.7	<9.6	<9.7	<9.4	<9.9	<9.4	<9.6

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code							PW09		PW10	PW11	PW14			PW15		PW18
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW09-20250509	PW09-20250818	PW10-20250509	PW11-20250509	DUP-20250818	PW14-20250509	PW14-20250818	PW15-20250509	PW15-20250818	PW18-20250509
Date							05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025
PFAS	Unit															
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ng/l	-	-	-	-	-	<6	<30	<12	<12	<6.34	<6	<6.19	<6	<6.13	<6
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ng/l	-	-	-	-	-	<6.14	<30.7	<12.3	<12.3	<6.48	<6.14	<6.34	<6.14	<6.27	<6.14
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ng/l	-	-	-	-	-	<6	<30	<12	<12	<6.34	<6	<6.19	<6	<6.13	<6
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ng/l	-	-	-	-	-	<40	<200	<80	<80	<42.2	<40	<41.3	<40	<40.8	<40
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ng/l	-	-	-	-	-	<40	<200	<80	<80	<42.2	<40	<41.3	<40	<40.8	<40
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ng/l	-	-	-	-	-	<8	<40	<16	<16	<8.45	<8	<8.26	<8	<8.17	<8
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ng/l	-	-	-	-	-	<6.32	<31.6	<12.6	<12.6	<6.67	<6.32	<6.52	<6.32	<6.45	<6.32
6:2 Fluorotelomer Sulfonate (6:2 FtS)	ng/l	-	-	-	-	-	<6.07	<30.4	<12.1	<12.1	<6.41	<6.07	<6.27	<6.07	<6.2	<6.07
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ng/l	-	-	-	-	-	<6.24	<31.2	<12.5	<12.5	<6.59	<6.24	<6.44	<6.24	<6.37	<6.24
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ng/l	-	-	-	-	-	<1.6	<8	<3.2	<3.2	<1.69	<1.6	<1.65	<1.6	<1.63	<1.6
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ng/l	-	-	-	-	-	<16	<80	<32	<32	<16.9	<16	<16.5	<16	<16.3	<16
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/l	-	-	-	-	-	<1.6	<8	**3.79**	<3.2	<1.69	<1.6	<1.65	<1.6	<1.63	<1.6
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ng/l	-	-	-	-	-	<1.6	<8	<3.2	<3.2	<1.69	<1.6	<1.65	<1.6	<1.63	<1.6
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ng/l	-	-	-	-	-	<16	<80	<32	<32	<16.9	<16	<16.5	<16	<16.3	<16
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/l	-	-	-	-	-	<1.6	<8	**3.95**	<3.2	<1.69	<1.6	<1.65	<1.6	<1.63	<1.6
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ng/l	-	-	-	-	-	<3.2	<16	<6.4	<6.4	<3.38	<3.2	<3.3	<3.2	<3.27	<3.2
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ng/l	-	-	-	-	-	<2.85	<14.3	<5.7	<5.7	<3.01	<2.85	<2.94	<2.85	<2.91	<2.85
perfluoro(2-methyl-3-oxahexanoyl)fluoride (HFPO-DA)	ng/L	-	-	-	-	-	<6.68	<33.4	<13.4	<13.4	<7.05	<6.68	<6.9	<6.68	<6.82	<6.68
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ng/l	-	-	-	-	-	<3.2	<16	<6.4	<6.4	<3.38	<3.2	<3.3	<3.2	<3.27	<3.2
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ng/l	-	-	-	-	-	<3.2	<16	<6.4	<6.4	<3.38	<3.2	<3.3	<3.2	<3.27	<3.2
Perfluorodecanesulfonic Acid (PFDS)	ng/l	-	-	-	-	-	<1.54	<7.7	<3.08	<3.08	<1.63	<1.54	<1.59	<1.54	<1.57	<1.54
Perfluorodecanoic Acid (PFDA)	ng/l	94	94	-	-	-	**1.93**	**3.02**	**4.88**	**3.95**	**1.07**	**1.3**	**0.974**	**1.58**	**1.02**	**3.43**
Perfluorododecanesulfonic Acid (PFDoS)	ng/l	-	-	-	-	-	<1.55	<7.75	<3.1	<3.1	<1.64	<1.55	<1.6	<1.55	<1.58	<1.55
Perfluorododecanoic Acid (PFDoA)	ng/l	72,000	-	-	-	-	<1.6	<8	<3.2	<3.2	<1.69	<1.6	<1.65	<1.6	<1.63	<1.6
Perfluoroheptanesulfonic Acid (PFHpS)	ng/l	-	-	-	-	-	**0.82**	<7.6	<3.04	**0.856**	**5.58**	**2.54**	**5.87**	**2.41**	**5.2**	<1.52
Perfluoroheptanoic Acid (PFHpA)	ng/l	870,000	-	-	-	-	**4.13**	**5.56**	**11.6**	**7.08**	**18.7**	**11.3**	**18.5**	**12.3**	**17.3**	**3.19**
Perfluorohexanesulfonic Acid (PFHxS)	ng/l	14,000	14,000	-	-	-	**17.9**	**47.6**	**6.34**	**9.31**	**231**	**119**	**248**	**126**	**231**	**2.31**
Perfluorononanesulfonic Acid (PFNS)	ng/l	-	-	-	-	-	<1.54	<7.7	<3.08	<3.08	<1.63	<1.54	<1.59	<1.54	<1.57	<1.54

Table 1

Pit Liquid and Recharging Water Analytical Results

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Location Code							PW09		PW10	PW11	PW14			PW15		PW18
Field ID		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	PW09-20250509	PW09-20250818	PW10-20250509	PW11-20250509	DUP-20250818	PW14-20250509	PW14-20250818	PW15-20250509	PW15-20250818	PW18-20250509
Date							05/09/2025	08/18/2025	05/09/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025	08/18/2025	05/09/2025
Perfluorononanoic Acid (PFNA)	ng/l	120	120	-	-	-	**10.2**	**21.9**	**8.09**	**6.58**	**100**	**76.5**	**106**	**81.2**	**109**	**4**
Perfluorooctanesulfonamide (PFOSA)	ng/l	-	-	-	-	-	**7.81**	**5.5**	**6.34**	**2.63**	**2.83**	**0.57**	**2.18**	**0.698**	**2.21**	**0.7**
Perfluoropentanesulfonic Acid (PFPeS)	ng/l	-	-	-	-	-	**1.46**	**2.76**	<3	<3	**28.1**	**15**	**30**	**15.6**	**29.8**	<1.5
Perfluoropentanoic Acid (PFPeA)	ng/l	140,000	-	-	-	-	**11.9**	**16**	**11.7**	**26.7**	**54.7**	**36.1**	**54.6**	**37.9**	**53.5**	**33.5**
Perfluorotetradecanoic Acid (PFTeDA)	ng/l	-	-	-	-	-	<1.6	<8	<3.2	<3.2	<1.69	<1.6	<1.65	<1.6	<1.63	<1.6
Perfluorotridecanoic Acid (PFTrDA)	ng/l	-	-	-	-	-	<1.6	<8	<3.2	<3.2	<1.69	<1.6	<1.65	<1.6	<1.63	<1.6
Perfluoroundecanoic Acid (PFUnA)	ng/l	49,000	-	-	-	-	**1.73**	**3.46**	<3.2	<3.2	<1.69	<1.6	<1.65	<1.6	<1.63	**0.454**
Perfluorobutanesulfonic Acid (PFBS)	ng/l	210,000	210,000	500	-	-	**3.06**	**5.13**	**3.09**	**4.53**	**35**	**18.8**	**35.5**	**19.4**	**35.8**	**1.83**
Perfluorooctanoic Acid (PFOA)	ng/l	48,000	3,200	0.0036	-	-	**18.6**	**27.7**	**32.2**	**22.4**	**45.9**	**28.6**	**46.7**	**29.4**	**43.2**	**11.8**
PERFLUOROBUTANOIC ACID (PFBA)	ng/l	76,000	120,000	-	-	-	**8.52**	**13.9**	<12.8	**13.4**	**71.3**	**42.4**	**71.4**	**46.5**	**70.2**	**12.4**
Perfluorohexanoic Acid (PFHxA)	ng/l	34,000	540,000	-	-	-	**14.1**	**22.1**	**20.4**	**20.7**	**66.2**	**44.6**	**66.1**	**46.6**	**61.7**	**16.3**
Perfluorooctane Sulfonic Acid (PFOS)	ng/l	17	17	0.07	-	-	**64.8**	**89.2**	**21.3**	**49.5**	**140**	**81.1**	**148**	**83.9**	**149**	**20**
Asbestos																
Asbestos fibres	MFL	-	-	-	-	-	-	<0	-	-	<0	-	<0	-	<0	-
Herbicide																
4-Nitrophenol	µg/L	-	-	-	-	-	<53	<51	<47	<49	<48	<49	<47	<50	<47	<48
Pentachlorophenol	µg/L	15	1	0.04	-	-	<26	<25	<24	<24	<24	<24	<24	<25	<24	<24
other																
Acute Toxicity	% Survival	-	-	-	-	-	100	100	100	100	100	100	100	100	100	100

Note:

Detected concentrations are **bold-faced**

Detections exceeding the Aquatic Habitat Goal - Seafood Ingestion ESL are orange

Detections exceeding the Aquatic Habitat Goal Saltwater Ecotox ESL are red

Detections exceeding the Aquatic Habitat Goal, Fresh Water Ecotox ESL are grey

Detections exceeding the EPA RSL (Nov 2024, HQ=1.0) - MCLs are green

Detections exceeding the GW VI HHRL C/I ESL are blue

ng/L = nanograms per liter

µg/L= micrograms per Liter

- = Not analyzed/Not available

< = analyte not detected at or above laboratory reporting limit

B = contamination found in associated method blank

J = Estimated below laboratory reporting limit

PAH = polyaromatic hydrocarbons

PCB = polychlorinated biphenyls

PFAS = Per- and Polyfluoroalkyl Substances

TPH = total petroleum hydrocarbon

SVOC = semivolatile organic compounds

VOC = volatile organic compounds

Environmental Standards

San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , 2019-rev2, Aquatic Habitat Goal - Seafood Ingestion ESL

San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , 2019-rev2, Aquatic Habitat Goal Saltwater Ecotox ESL

San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , 2019-rev2, Aquatic Habitat Goal, Fresh Water Ecotox ESL

San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for Groundwater (GW) Vapor Intrusion (VI) Human Health Risk Levels (HHRL) in Commercial/Industrial (C/I) Scenarios , 2019-rev2, GW VI HHRL C/I ESL

United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) (TR=1E-06, HQ=1) , November 2024, EPA RSL (Nov 2024, HQ=1.0) - MCLs **Used only when no ESL is available*

Table 2
Surface Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	COMP-01	COMP-02	SED19
Field ID								COMP-01-20250929	COMP-02-20250929	SED19-20250509
Date								09/29/2025	09/29/2025	05/09/2025
Metals										
Antimony	mg/kg	150	*500*	-	-	-	470	**1.8 J**	<2.9	<2.9
Arsenic	mg/kg	50	*500*	100	-	-	0.14	**7.7**	**8.8**	**7.8**
Barium	mg/kg	1,000	*10,000*	2,000	-	-	220,000	**190**	**230**	**180**
Beryllium	mg/kg	7.5	*75*	-	-	-	230	**0.32 J**	**0.33 J**	**0.31 J**
Cadmium	mg/kg	10	*100*	20	-	-	100	**5.9**	**6.3**	**4.3**
Chromium (III+VI)	mg/kg	50	*2,500*	100	-	-	-	**130**	**110**	**130**
Chromium (III+VI) (STLC)	mg/L	-	-	-	5	-	-	<0.3	<0.3	<0.3
Chromium (III+VI) (TCLP)	mg/L	-	-	-	-	5	-	<0.03	<0.03	<0.03
Cobalt	mg/kg	800	*8,000*	-	-	-	350	**14**	**11**	**11**
Copper	mg/kg	250	*2,500*	-	-	-	47,000	**300**	**220**	**240**
Copper (STLC)	mg/L	-	-	-	25	-	-	**0.87**	-	-
Lead	mg/kg	50	*1,000*	100	-	-	500	**610**	**990**	**470**
Lead (STLC)	mg/L	-	-	-	5	-	-	**2.3**	**3**	**0.76**
Lead (TCLP)	mg/L	-	-	-	-	5	-	**0.022**	**0.031**	<0.015
Mercury	mg/kg	2	*20*	4	-	-	2.9	**0.59**	**0.15 J**	**0.099 J**
Molybdenum	mg/kg	3,500	*3,500*	-	-	-	5,800	**25**	**21**	**18**
Nickel	mg/kg	200	*2,000*	-	-	-	11,000	**72**	**72**	**83**
Selenium	mg/kg	10	*100*	20	-	-	5,800	**4.1**	**5**	**2.8 J**
Silver	mg/kg	50	*500*	100	-	-	5,800	**3**	**3.8**	**1.8**
Thallium	mg/kg	70	*700*	-	-	-	12	<2.9	<2.9	<2.9
Vanadium	mg/kg	240	*2,400*	-	-	-	5,800	**48**	**49**	**46**
Zinc	mg/kg	2,500	*5,000*	-	-	-	350,000	**3,000**	**2,300**	**2,000**
Zinc (STLC)	mg/L	-	-	-	250	-	-	**29**	-	-
TPH										
TPH as Diesel	mg/kg	-	-	-	-	-	920	**670**	**480**	**2,000**
TPH as Gasoline	mg/kg	-	-	-	-	-	2,100	<0.5	<0.5	<0.5
TPH as Motor Oil	mg/kg	-	-	-	-	-	180,000	**760**	**490**	**3,000**
PCBs										
Aroclor 1016	mg/kg	-	-	-	-	-	-	<0.049	<0.1	<0.049
Aroclor 1221	mg/kg	-	-	-	-	-	-	<0.049	<0.1	<0.049
Aroclor 1232	mg/kg	-	-	-	-	-	-	<0.049	<0.1	<0.049
Aroclor 1242	mg/kg	-	-	-	-	-	-	**1.8**	**2.6**	**14**
Aroclor 1248	mg/kg	-	-	-	-	-	-	<0.049	<0.1	<0.049
Aroclor 1254	mg/kg	-	-	-	-	-	-	**0.1**	**0.19**	<0.049
Aroclor 1260	mg/kg	-	-	-	-	-	-	<0.049	<0.1	<0.049
Aroclor 1262	mg/kg	-	-	-	-	-	-	<0.049	<0.1	<0.049
Aroclor 1268	mg/kg	-	-	-	-	-	-	<0.049	<0.1	<0.049
Total PCBs	mg/kg	50	*50*	-	-	-	0.94	**1.9**	**2.8**	**14**
VOCs										
Hexachlorobutadiene	mg/kg	-	-	10	-	-	5.2	<0.0051	<0.005	<0.005
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	8.6	<0.0051	<0.005	<0.005

Table 2
Surface Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	COMP-01	COMP-02	SED19
Field ID								COMP-01-20250929	COMP-02-20250929	SED19-20250509
Date								09/29/2025	09/29/2025	05/09/2025
1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	7,100	<0.0051	<0.005	<0.005
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	2.6	<0.0051	<0.005	<0.005
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	5	<0.0051	<0.005	<0.005
1,1,2-Trichlorotrifluoroethane (Freon-113)	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,1-Dichloroethane	mg/kg	-	-	-	-	-	15	<0.0051	<0.005	<0.005
1,1-Dichloroethene	mg/kg	-	-	14	-	-	20	<0.0051	<0.005	<0.005
1,1-Dichloropropene	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,2,3-Trichlorobenzene	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	0.11	<0.0051	<0.005	<0.005
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	110	<0.0051	<0.005	<0.005
1,2,4-Trimethylbenzene	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,2-Dibromo-3-chloropropane	mg/kg	-	-	-	-	-	0.056	<0.0051	<0.005	<0.005
1,2-Dibromoethane	mg/kg	-	-	-	-	-	0.16	<0.0051	<0.005	<0.005
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	9,200	<0.0051	<0.005	<0.005
1,2-Dichloroethane	mg/kg	-	-	10	-	-	2	<0.0051	<0.005	<0.005
1,2-Dichloroethene(cis)	mg/kg	-	-	-	-	-	360	<0.0051	<0.005	<0.005
1,2-Dichloroethene(trans)	mg/kg	-	-	-	-	-	300	<0.0051	<0.005	<0.005
1,2-Dichloropropane	mg/kg	-	-	-	-	-	11	<0.0051	<0.005	<0.005
1,3,5-Trimethylbenzene	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,3-Dichloropropane	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,3-Dichloropropene(cis)	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,3-Dichloropropene(trans)	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
1,4-Dichlorobenzene	mg/kg	-	-	150	-	-	11	<0.0051	<0.005	<0.005
2,2-Dichloropropane	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
2-chlorotoluene	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
4-Chlorotoluene	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
4-Methyl-2-pentanone	mg/kg	-	-	-	-	-	140,000	**0.0009 J**	**0.0015 J**	**0.0017 J**
Acetone	mg/kg	-	-	-	-	-	670,000	<0.1	**0.056 J**	<0.1
Benzene	mg/kg	-	-	10	-	-	1.4	<0.0051	<0.005	<0.005
Bromobenzene	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
Bromochloromethane	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
Bromodichloromethane	mg/kg	-	-	-	-	-	1.3	<0.0051	<0.005	<0.005
Bromoform	mg/kg	-	-	-	-	-	84	<0.0051	<0.005	<0.005
Bromomethane	mg/kg	-	-	-	-	-	29	<0.0051	<0.005	<0.005
Carbon tetrachloride	mg/kg	-	-	10	-	-	2.8	<0.0051	<0.005	<0.005
Chlorobenzene	mg/kg	-	-	2,000	-	-	1,300	<0.0051	<0.005	<0.005
Chlorodibromomethane	mg/kg	-	-	-	-	-	39	<0.0051	<0.005	<0.005
Chloroethane	mg/kg	-	-	-	-	-	22,000	<0.0051	<0.005	<0.005
Chloroform	mg/kg	-	-	120	-	-	1.4	<0.0051	<0.005	<0.005
Chloromethane	mg/kg	-	-	-	-	-	450	<0.0051	<0.005	<0.005
Dibromomethane	mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005

Table 2
Surface Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

	Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	COMP-01	COMP-02	SED19
	Field ID								COMP-01-20250929	COMP-02-20250929	SED19-20250509
	Date								09/29/2025	09/29/2025	05/09/2025
Dichlorodifluoromethane		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
Dichloromethane		mg/kg	-	-	-	-	-	26	<0.025	<0.025	<0.025
Ethylbenzene		mg/kg	-	-	-	-	-	25	<0.0051	<0.005	<0.005
Isopropylbenzene		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
Methyl Ethyl Ketone		mg/kg	-	-	4,000	-	-	190,000	**0.0049 J**	**0.0073 J**	<0.1
Methyl Tertiary Butyl Ether		mg/kg	-	-	-	-	-	200	<0.0051	<0.005	<0.005
Naphthalene		mg/kg	-	-	-	-	-	8.5	<0.0051	<0.005	<0.005
n-butylbenzene		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
n-propylbenzene		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
p-isopropyltoluene		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
sec-butylbenzene		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
Styrene		mg/kg	-	-	-	-	-	31,000	<0.0051	<0.005	<0.005
tert-Butylbenzene		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
Tetrachloroethene		mg/kg	-	-	14	-	-	2.6	<0.0051	<0.005	<0.005
Toluene		mg/kg	-	-	-	-	-	7,100	<0.0051	<0.005	<0.005
Trichloroethene		mg/kg	2,040	*2,040*	10	-	-	5.9	<0.0051	<0.005	<0.005
Trichlorofluoromethane		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
Vinyl chloride		mg/kg	-	-	4	-	-	0.14	<0.0051	<0.005	<0.005
Xylene (m & p)		mg/kg	-	-	-	-	-	-	<0.01	<0.0099	<0.01
Xylene (o)		mg/kg	-	-	-	-	-	-	<0.0051	<0.005	<0.005
Xylenes (total)		mg/kg	-	-	-	-	-	2,400	<0.0051	<0.005	<0.005
SVOCs											
1-Methylnaphthalene		mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
2,4,5-Trichlorophenol		mg/kg	-	-	8,000	-	-	82,000	<1.2	<1.2	<5
2,4,6-Trichlorophenol		mg/kg	-	-	40	-	-	33	<1.2	<1.2	<5
2,4-Dichlorophenol		mg/kg	-	-	-	-	-	2,500	<1.2	<1.2	<5
2,4-Dimethylphenol		mg/kg	-	-	-	-	-	16,000	<1.2	<1.2	<5
2,4-Dinitrophenol		mg/kg	-	-	-	-	-	1,600	<6	<6	<24
2,4-Dinitrotoluene		mg/kg	-	-	2.6	-	-	7.4	<1.2	<1.2	<5
2,6-dinitrotoluene		mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
2-chloronaphthalene		mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
2-chlorophenol		mg/kg	-	-	-	-	-	5,800	<1.2	<1.2	<5
2-Methylnaphthalene		mg/kg	-	-	-	-	-	3,000	<1.2	<1.2	<5
2-Methylphenol		mg/kg	-	-	4,000	-	-	-	<1.2	<1.2	<5
2-Nitroaniline		mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
2-Nitrophenol		mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
3,3-Dichlorobenzidine		mg/kg	-	-	-	-	-	1.9	<6	<6	<24
3-Nitroaniline		mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
4,6-Dinitro-2-methylphenol		mg/kg	-	-	-	-	-	-	<6	<6	<24
4-bromophenyl phenyl ether		mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
4-Chloro-3-methylphenol		mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
4-Chloroaniline		mg/kg	-	-	-	-	-	11	<1.2	<1.2	<5

Table 2
Surface Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	COMP-01	COMP-02	SED19
Field ID								COMP-01-20250929	COMP-02-20250929	SED19-20250509
Date								09/29/2025	09/29/2025	05/09/2025
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
4-Nitroaniline	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
4-Nitrophenol	mg/kg	-	-	-	-	-	-	<6	<6	<24
Acenaphthene	mg/kg	-	-	-	-	-	45,000	<1.2	<1.2	<5
Acenaphthylene	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Aniline	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Anthracene	mg/kg	-	-	-	-	-	230,000	<1.2	<1.2	<5
Azobenzene	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Benz(a)anthracene	mg/kg	-	-	-	-	-	20	<1.2	<1.2	<5
Benzidine	mg/kg	-	-	-	-	-	-	<6	<6	<24
Benzo(a) pyrene	mg/kg	-	-	-	-	-	2.1	<1.2	<1.2	<5
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	21	<1.2	<1.2	<5
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	210	<1.2	<1.2	<5
Benzoic Acid	mg/kg	-	-	-	-	-	-	<6	<6	<24
Benzyl alcohol	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Bis(2-chloroethoxy) methane	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Bis(2-chloroethyl)ether	mg/kg	-	-	-	-	-	0.46	<6	<6	<24
Bis(2-chloroisopropyl) ether	mg/kg	-	-	-	-	-	47,000	<1.2	<1.2	<5
Bis(2-ethylhexyl) phthalate	mg/kg	-	-	-	-	-	160	**0.72 J**	**0.88 J**	**2.8 J**
Butyl benzyl phthalate	mg/kg	-	-	-	-	-	-	<1.2	**1 J**	<5
Carbazole	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Chrysene	mg/kg	-	-	-	-	-	2,100	<1.2	<1.2	<5
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	0.51	<1.2	<1.2	<5
Dibenzofuran	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Diethylphthalate	mg/kg	-	-	-	-	-	660,000	<1.2	<1.2	<5
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Di-n-butyl phthalate	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Di-n-octyl phthalate	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Fluoranthene	mg/kg	-	-	-	-	-	30,000	<1.2	**0.43 J**	<5
Fluorene	mg/kg	-	-	-	-	-	30,000	<1.2	<1.2	<5
Hexachlorobenzene	mg/kg	-	-	2.6	-	-	0.85	<1.2	<1.2	<5
Hexachlorobutadiene	mg/kg	-	-	10	-	-	5.2	<1.2	<1.2	<5
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	<6	<6	<24
Hexachloroethane	mg/kg	-	-	60	-	-	7.9	<1.2	<1.2	<5
Indeno(1,2,3-c,d)pyrene	mg/kg	-	-	-	-	-	21	<1.2	<1.2	<5
Isophorone	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Nitrobenzene	mg/kg	-	-	40	-	-	-	<6	<6	<24
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Pentachlorophenol	mg/kg	17	*17*	2,000	-	-	4	<6	<6	<24

Table 2
Surface Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

	Location Code	Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	COMP-01	COMP-02	SED19
	Field ID							COMP-01-20250929	COMP-02-20250929	SED19-20250509
	Date							09/29/2025	09/29/2025	05/09/2025
Phenanthrene	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
Phenol	mg/kg	-	-	-	-	-	250,000	<1.2	<1.2	<5
Pyrene	mg/kg	-	-	-	-	-	23,000	<1.2	**0.35 J**	<5
Pyridine	mg/kg	-	-	100.4	-	-	-	<1.2	<1.2	<5
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	110	<1.2	<1.2	<5
3-Methylphenol & 4-Methylphenol	mg/kg	-	-	-	-	-	-	<2	<2	<8
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	9,200	<1.2	<1.2	<5
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	<1.2	<1.2	<5
1,4-Dichlorobenzene	mg/kg	-	-	150	-	-	11	<1.2	<1.2	<5
Naphthalene	mg/kg	-	-	-	-	-	8.5	<1.2	<1.2	<5
PFAS										
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ng/g	-	-	-	-	-	-	<0.789	<0.786	<0.787
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ng/g	-	-	-	-	-	-	<0.767	<0.764	<0.765
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ng/g	-	-	-	-	-	-	<0.749	<0.746	<0.747
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ng/g	-	-	-	-	-	-	<4.99	<4.97	<4.98
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ng/g	-	-	-	-	-	-	<4.99	<4.97	<4.98
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ng/g	-	-	-	-	-	-	<0.998	<0.995	<0.996
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ng/g	-	-	-	-	-	-	<0.789	<0.786	<0.787
6:2 Fluorotelomer Sulfonate (6:2 FtS)	ng/g	-	-	-	-	-	-	<0.758	<0.755	<0.756
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ng/g	-	-	-	-	-	-	<0.779	<0.776	<0.777
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ng/g	-	-	-	-	-	-	<0.2	<0.199	<0.199
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ng/g	-	-	-	-	-	-	<2	<1.99	<1.99
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/g	-	-	-	-	-	-	**0.164 J**	**0.617**	**0.654**
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ng/g	-	-	-	-	-	-	<0.2	<0.199	<0.199
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ng/g	-	-	-	-	-	-	<2	<1.99	<1.99
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/g	-	-	-	-	-	-	**0.131 J**	**0.13 J**	**0.258**
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ng/g	-	-	-	-	-	-	<0.399	<0.398	<0.398
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ng/g	-	-	-	-	-	-	<0.355	<0.354	<0.354
perfluoro(2-methyl-3-oxahexanoyl)fluoride (HFPO-DA)	ng/g	-	-	-	-	-	-	<0.834	<0.831	<0.831
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ng/g	-	-	-	-	-	-	<0.399	<0.398	<0.398
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ng/g	-	-	-	-	-	-	<0.399	<0.398	<0.398
Perfluorobutane Sulfonate (PFBS)	ng/g	-	-	-	-	-	250,000	**0.0896 J**	<0.176	<0.176
Perfluorodecanesulfonic Acid (PFDS)	ng/g	-	-	-	-	-	-	**0.114 J**	<0.192	**0.528**
Perfluorodecanoic Acid (PFDA)	ng/g	-	-	-	-	-	1.6	**0.156 J**	**0.144 J**	**0.106**
Perfluorododecanesulfonic Acid (PFDoS)	ng/g	-	-	-	-	-	-	<0.194	<0.193	<0.193
Perfluorododecanoic Acid (PFDoA)	ng/g	-	-	-	-	-	41,000	**0.151 J**	**0.148 J**	**0.197**
Perfluoroheptanesulfonic Acid (PFHpS)	ng/g	-	-	-	-	-	-	<0.19	<0.189	<0.189
Perfluoroheptanoic Acid (PFHpA)	ng/g	-	-	-	-	-	-	<0.2	<0.199	<0.199
Perfluorohexanesulfonic Acid (PFHxS)	ng/g	-	-	-	-	-	16,000	**0.338**	**0.12 J**	**0.266**
Perfluorononanesulfonic Acid (PFNS)	ng/g	-	-	-	-	-	-	<0.192	<0.191	<0.191
Perfluorononanoic Acid (PFNA)	ng/g	-	-	-	-	-	2,500	**0.289**	**0.118 J**	**0.216**
Perfluorooctanesulfonamide (PFOSA)	ng/g	-	-	-	-	-	-	**0.105 J**	<0.199	**0.122**

Table 2
Surface Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	COMP-01	COMP-02	SED19
Field ID								COMP-01-20250929	COMP-02-20250929	SED19-20250509
Date								09/29/2025	09/29/2025	05/09/2025
Perfluorooctanoic Acid (PFOA)	ng/g	-	-	-	-	-	0.078	**0.296**	**0.193 J**	**0.172**
Perfluoropentanesulfonic Acid (PFPeS)	ng/g	-	-	-	-	-	-	<0.188	<0.187	<0.187
Perfluoropentanoic Acid (PFPeA)	ng/g	-	-	-	-	-	-	<0.398	<0.397	<0.397
Perfluorotetradecanoic Acid (PFTeDA)	ng/g	-	-	-	-	-	820,000	**0.0874 J**	**0.0704 J**	**0.118**
Perfluorotridecanoic Acid (PFTrDA)	ng/g	-	-	-	-	-	-	**0.305**	**0.133 J**	**0.209**
Perfluoroundecanoic Acid (PFUnA)	ng/g	-	-	-	-	-	250,000	**0.362**	**0.268**	**0.323**
PERFLUOROBUTANOIC ACID (PFBA)	ng/g	-	-	-	-	-	1,200,000	**0.254 J**	<0.797	<0.798
Perfluorohexanoic Acid (PFHxA)	ng/g	-	-	-	-	-	410,000	**0.155 J**	**0.136 J**	**0.158**
Perfluorooctane Sulfonic Acid (PFOS)	ng/g	-	-	-	-	-	58	**1.69**	**0.86**	**1.35**

Note:
Detected concentrations are **bold-faced**
Detections exceeding the Soluble Threshold Limit Concentration (STLC)x10 are grey
Detections exceeding the Total Threshold Limit Concentration (TTLC) are italicized
Detections exceeding the Toxicity Characteristic Leaching Procedure (TCLP)x20 are red
Detections exceeding the Soluble Threshold Limit Concentration (STLC) are orange
Detections exceeding the Toxicity Characteristic Leaching Procedure (TCLP) are green
COMP-01: Sediment from surface sediment drums 1, 2, 3
COMP-02: Sediment from surface sediment drums 4 and 7
SED19: Sediment from surface sediment drums 5 and 6, which contained sediment from around Sump 19
Detections exceeding the C/I ESLs are blue
ng/g = nanograms per gram
mg/kg= milligrams per kilogram
mg/L = milligrams per liter
- = Not available/Not analyzed
< = analyte not detected at or above laboratory reporting limit
J = Estimated below laboratory reporting limit
PAH = polyaromatic hydrocarbons
PCB = polychlorinated biphenyls
PFAS = Per- and Polyfluoroalkyl Substances
TPH = total petroleum hydrocarbon
SVOC = semivolatile organic compounds
VOC = volatile organic compounds
Environmental Standards
San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) Human Health Risk Levels (HHRL) in Commercial/Industrial (C/I) Scenarios , July 2025-Rev 3, Soil Direct Exposure HHRL C/I ESL (July 2025)

Table 3
Bin Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

	Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	BIN ONE	BIN TWO	BIN THREE	BIN FOUR
	Date							08/12/2025	08/12/2025	08/12/2025	08/28/2025
	Field ID							BIN ONE	BIN TWO	BIN THREE	BIN 4
Metals											
Antimony		mg/kg	150	*500*	-	-	-	**14**	**4.4**	**19**	**4.1**
Arsenic		mg/kg	50	*500*	100	-	-	**17**	**15**	**6.7**	**7.3**
Barium		mg/kg	1,000	*10,000*	2,000	-	-	**120**	**26**	**200**	**21**
Beryllium		mg/kg	7.5	*75*	-	-	-	<0.52	<0.52	<0.52	<0.5
Cadmium		mg/kg	10	*100*	20	-	-	**2.5**	<0.52	**14**	<0.5
Chromium (III+VI)		mg/kg	50	*2,500*	100	-	-	**280**	**240**	**70**	**150**
Chromium (III+VI) (STLC)		mg/L	-	-	-	5	-	**7.3**	**5.6**	**1.7**	**2.9**
Chromium (III+VI) (TCLP)		mg/L	-	-	-	-	5	<0.1	<0.1	<0.1	<0.1
Cobalt		mg/kg	800	*8,000*	-	-	-	**15**	**20**	**6.4**	**8.7**
Copper		mg/kg	250	*2,500*	-	-	-	**460**	**300**	**240**	**220**
Lead		mg/kg	50	*1,000*	100	-	-	**460**	**36**	***1,900***	**63**
Lead (STLC)		mg/L	-	-	-	5	-	**0.35**	<0.1	**68**	**0.91**
Lead (TCLP)		mg/L	-	-	-	-	5	<0.1	<0.1	**0.78**	-
Mercury		mg/kg	2	*20*	4	-	-	**0.088**	<0.017	**0.13**	**0.022**
Molybdenum		mg/kg	3,500	*3,500*	-	-	-	**45**	**55**	**7.9**	**24**
Nickel		mg/kg	200	*2,000*	-	-	-	**120**	**150**	**40**	**72**
Selenium		mg/kg	10	*100*	20	-	-	**0.61**	<0.52	**3.4**	<0.5
Silver		mg/kg	50	*500*	100	-	-	**1.6**	<0.52	**2.4**	<0.5
Thallium		mg/kg	70	*700*	-	-	-	<0.52	<0.52	**0.69**	<0.5
Vanadium		mg/kg	240	*2,400*	-	-	-	**46**	**23**	**22**	**40**
Zinc		mg/kg	2,500	*5,000*	-	-	-	**1,600**	**340**	***5,400***	**260**
TPH											
TPH as Diesel		mg/kg	-	-	-	-	-	**95**	**29**	**45**	**120**
TPH as Gasoline		mg/kg	-	-	-	-	-	<0.25	<0.25	<0.25	<0.25
TPH as Motor Oil		mg/kg	-	-	-	-	-	**1,400**	**290**	**300**	**320**
PCBs											
Aroclor 1016		mg/kg	-	-	-	-	-	<2	<0.5	<0.25	<0.05
Aroclor 1221		mg/kg	-	-	-	-	-	<2	<0.5	<0.25	<0.05
Aroclor 1232		mg/kg	-	-	-	-	-	<2	<0.5	<0.25	<0.05
Aroclor 1242		mg/kg	-	-	-	-	-	<2	<0.5	<0.25	<0.05
Aroclor 1248		mg/kg	-	-	-	-	-	<2	<0.5	<0.25	<0.05
Aroclor 1254		mg/kg	-	-	-	-	-	<2	<0.5	<0.25	<0.05
Aroclor 1260		mg/kg	-	-	-	-	-	<2	<0.5	<0.25	<0.05
Total PCBs		mg/kg	50	*50*	-	-	-	<2	<0.5	<0.25	<0.05
VOCs											
Hexachlorobutadiene		mg/kg	-	-	10	-	-	<0.005	<0.005	<0.005	<0.005
Hexachloroethane		mg/kg	-	-	60	-	-	<0.005	<0.005	<0.005	<0.005
1,1,1,2-Tetrachloroethane		mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane		mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane		mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichlorotrifluoroethane (Freon-113)		mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane		mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005

Table 3
Bin Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	BIN ONE	BIN TWO	BIN THREE	BIN FOUR
Date							08/12/2025	08/12/2025	08/12/2025	08/28/2025
Field ID							BIN ONE	BIN TWO	BIN THREE	BIN 4
1,1-Dichloroethene	mg/kg	-	-	14	-	-	<0.005	<0.005	<0.005	<0.005
1,1-Dichloropropene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichlorobenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	<0.00025	<0.00025	<0.00025	<0.00025
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane	mg/kg	-	-	-	-	-	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dibromoethane	mg/kg	-	-	-	-	-	<0.00025	<0.00025	<0.00025	<0.00025
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	mg/kg	-	-	10	-	-	<0.0001	<0.0001	<0.0001	<0.0001
1,2-Dichloroethene(cis)	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethene(trans)	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,3-Dichloropropane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,3-Dichloropropene(cis)	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,3-Dichloropropene(trans)	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
1,4-Dichlorobenzene	mg/kg	-	-	150	-	-	<0.005	<0.005	<0.005	<0.005
2,2-Dichloropropane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2-chlorotoluene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2-hexanone	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	**0.018**
4-Chlorotoluene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
4-Methyl-2-pentanone	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Acetone	mg/kg	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2
Benzene	mg/kg	-	-	10	-	-	<0.005	<0.005	<0.005	<0.005
Bromobenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Bromochloromethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Bromoform	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Bromomethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	mg/kg	-	-	10	-	-	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	mg/kg	-	-	2,000	-	-	<0.005	<0.005	<0.005	<0.005
Chlorodibromomethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Chloroethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Chloroform	mg/kg	-	-	120	-	-	<0.005	<0.005	<0.005	<0.005
Chloromethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Dibromomethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Dichloromethane	mg/kg	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02
Diisopropyl ether	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Ethyl-t-Butyl Ether	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005

Table 3
Bin Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

	Location Code	Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	BIN ONE	BIN TWO	BIN THREE	BIN FOUR
	Date						08/12/2025	08/12/2025	08/12/2025	08/28/2025
	Field ID						BIN ONE	BIN TWO	BIN THREE	BIN 4
Isopropylbenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Methyl Ethyl Ketone	mg/kg	-	-	4,000	-	-	<0.1	<0.1	<0.1	<0.1
Methyl Tertiary Butyl Ether	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
n-butylbenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
n-propylbenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
p-isopropyltoluene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
sec-butylbenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Styrene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
tert-Amyl-Methyl Ether	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
tert-Butyl alcohol	mg/kg	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05
tert-Butylbenzene	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	mg/kg	-	-	14	-	-	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	-	-	-	-	-	<0.005	**0.0063**	<0.005	<0.005
Trichloroethene	mg/kg	2,040	*2,040*	10	-	-	<0.005	<0.005	<0.005	<0.005
Trichlorofluoromethane	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Vinyl chloride	mg/kg	-	-	4	-	-	<0.00025	<0.00025	<0.00025	<0.00025
Xylene (m & p)	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Xylene (o)	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Xylenes (total)	mg/kg	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
SVOCs										
1,1-Biphenyl	mg/kg	-	-	-	-	-	<0.2	<0.1	<0.2	<0.012
1-Methylnaphthalene	mg/kg	-	-	-	-	-	**0.028**	**0.084**	<0.021	**0.0028 B**
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
2,4,5-Trichlorophenol	mg/kg	-	-	8,000	-	-	<0.04	<0.02	<0.04	<0.0025
2,4,6-Trichlorophenol	mg/kg	-	-	40	-	-	<0.04	<0.02	<0.04	<0.0025
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	<0.04	<0.02	<0.04	<0.0025
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	<4	<2	<4	**0.28**
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
2,4-Dinitrotoluene	mg/kg	-	-	2.6	-	-	<0.2	<0.1	<0.2	<0.012
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	<0.2	<0.1	<0.2	<0.012
2,6-dinitrotoluene	mg/kg	-	-	-	-	-	<0.2	<0.1	<0.2	<0.012
2-chloronaphthalene	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
2-chlorophenol	mg/kg	-	-	-	-	-	<0.2	<0.1	<0.2	<0.012
2-Methylnaphthalene	mg/kg	-	-	-	-	-	**0.04**	**0.1**	<0.021	**0.0048 B**
2-Methylphenol	mg/kg	-	-	4,000	-	-	<4	<2	<4	<0.25
2-Nitroaniline	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
2-Nitrophenol	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
3,3-Dichlorobenzidine	mg/kg	-	-	-	-	-	<0.021	<0.01	<0.021	<0.0013
3,4-methylphenol	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
3-Nitroaniline	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
4-bromophenyl phenyl ether	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25

Table 3
Bin Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	BIN ONE	BIN TWO	BIN THREE	BIN FOUR
Date							08/12/2025	08/12/2025	08/12/2025	08/28/2025
Field ID							BIN ONE	BIN TWO	BIN THREE	BIN 4
4-Chloroaniline	mg/kg	-	-	-	-	-	<0.021	<0.01	<0.021	<0.0013
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
4-Nitroaniline	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
4-Nitrophenol	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
Acenaphthene	mg/kg	-	-	-	-	-	<0.021	<0.01	<0.021	<0.0013
Acenaphthylene	mg/kg	-	-	-	-	-	<0.021	<0.01	<0.021	<0.0013
Acetochlor	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
Anthracene	mg/kg	-	-	-	-	-	<0.021	**0.029**	<0.021	**0.023**
Benz(a)anthracene	mg/kg	-	-	-	-	-	<0.2	<0.1	<0.2	<0.012
Benzidine	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
Benzo(a) pyrene	mg/kg	-	-	-	-	-	**0.09**	**0.017**	**0.036**	**0.0065**
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	**0.13**	**0.025**	**0.054**	**0.0094**
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	**0.069**	<0.02	**0.045**	**0.0054**
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	**0.046**	<0.02	<0.04	<0.0025
Benzoic Acid	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
Benzyl alcohol	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
Bis(2-chloroethoxy) methane	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
Bis(2-chloroethyl)ether	mg/kg	-	-	-	-	-	<0.021	<0.01	<0.021	<0.0013
Bis(2-chloroisopropyl) ether	mg/kg	-	-	-	-	-	<0.04	<0.02	<0.04	<0.0025
Bis(2-ethylhexyl) phthalate	mg/kg	-	-	-	-	-	**1.1**	**0.6**	<1	<0.062
Butyl benzyl phthalate	mg/kg	-	-	-	-	-	<1	<0.5	<1	<0.062
Chrysene	mg/kg	-	-	-	-	-	**0.078**	**0.021**	**0.033**	**0.008**
Di(2-ethylhexyl)adipate	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	<0.04	<0.02	<0.04	**0.0039**
Dibenzofuran	mg/kg	-	-	-	-	-	**0.028**	**0.03**	<0.021	**0.003**
Diethylphthalate	mg/kg	-	-	-	-	-	<0.2	<0.1	<0.2	<0.012
Dimethyl phthalate	mg/kg	-	-	-	-	-	<0.04	<0.02	<0.04	<0.0025
Di-n-butyl phthalate	mg/kg	-	-	-	-	-	<1	<0.5	<1	<0.062
Di-n-octyl phthalate	mg/kg	-	-	-	-	-	<10	<5	<10	<0.62
Diphenylhydrazine	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
Fluoranthene	mg/kg	-	-	-	-	-	**0.15**	**0.06**	**0.082**	**0.021**
Fluorene	mg/kg	-	-	-	-	-	<0.04	<0.02	<0.04	**0.0048**
Hexachlorobenzene	mg/kg	-	-	2.6	-	-	<0.021	<0.01	<0.021	<0.0013
Hexachlorobutadiene	mg/kg	-	-	10	-	-	<0.021	<0.01	<0.021	<0.0013
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	<20	<10	<20	<1.2
Hexachloroethane	mg/kg	-	-	60	-	-	<0.04	<0.02	<0.04	<0.0025
Indeno(1,2,3-c,d)pyrene	mg/kg	-	-	-	-	-	**0.055**	<0.02	<0.04	**0.0042**
Isophorone	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
Nitrobenzene	mg/kg	-	-	40	-	-	<4	<2	<4	<0.25
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
Pentachlorophenol	mg/kg	17	*17*	2,000	-	-	<1	<0.5	<1	<0.062
Phenanthrene	mg/kg	-	-	-	-	-	**0.13**	**0.083**	**0.05**	**0.031**

Table 3
Bin Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

	Location Code	Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	BIN ONE	BIN TWO	BIN THREE	BIN FOUR
	Date						08/12/2025	08/12/2025	08/12/2025	08/28/2025
	Field ID						BIN ONE	BIN TWO	BIN THREE	BIN 4
Phenol	mg/kg	-	-	-	-	-	**0.86**	**0.27**	<0.16	**0.065**
Pyrene	mg/kg	-	-	-	-	-	**0.13**	**0.059**	**0.098**	**0.013**
Pyridine	mg/kg	-	-	100.4	-	-	<4	<2	<4	<0.25
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	<4	<2	<4	<0.25
1,4-Dichlorobenzene	mg/kg	-	-	150	-	-	<4	<2	<4	<0.25
Naphthalene	mg/kg	-	-	-	-	-	<0.04	**0.13**	<0.04	**0.0029**
PFAS										
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ng/g	-	-	-	-	-	<0.47	<0.43	<0.66	<0.63
1H,1H,2H,2H-Perfluorododecanesulfonic acid (10:2 FTS)	ng/g	-	-	-	-	-	<0.46	**1.1**	<1.6	<0.62
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ng/g	-	-	-	-	-	<0.47	<0.21	<0.66	<0.63
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
6:2 Fluorotelomer Sulfonate (6:2 FtS)	ng/g	-	-	-	-	-	<0.47	<0.43	<0.66	<0.63
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA; GenX)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/g	-	-	-	-	-	<0.24	<0.21	**0.38**	<0.32
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorobutane Sulfonate (PFBS)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorodecanesulfonic Acid (PFDS)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorodecanoic Acid (PFDA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorododecanesulfonic Acid (PFDoS)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorododecanoic Acid (PFDoA)	ng/g	-	-	-	-	-	<0.24	<0.21	**0.69**	<0.32
Perfluoroheptanesulfonic Acid (PFHpS)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluoroheptanoic Acid (PFHpA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorohexanesulfonic Acid (PFHxS)	ng/g	-	-	-	-	-	**0.46**	**0.41**	<0.33	<0.32
Perfluoro-n-octadecanoic acid (PFODA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorononanesulfonic Acid (PFNS)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorononanoic Acid (PFNA)	ng/g	-	-	-	-	-	<0.24	**0.24**	<0.33	<0.32
Perfluorooctanesulfonamide (PFOSA)	ng/g	-	-	-	-	-	<0.24	**0.25**	<0.33	<0.32
Perfluoropentanesulfonic Acid (PFPeS)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32

Table 3
Bin Sediment Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

	Location Code	Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	BIN ONE	BIN TWO	BIN THREE	BIN FOUR
	Date						08/12/2025	08/12/2025	08/12/2025	08/28/2025
	Field ID						BIN ONE	BIN TWO	BIN THREE	BIN 4
Perfluoropentanoic Acid (PFPeA)	ng/g	-	-	-	-	-	<0.24	<0.21	**1.2**	<0.32
Perfluorotetradecanoic Acid (PFTeDA)	ng/g	-	-	-	-	-	<0.24	<0.21	<0.33	<0.32
Perfluorotridecanoic Acid (PFTrDA)	ng/g	-	-	-	-	-	<0.24	<0.21	**0.4**	<0.32
Perfluoroundecanoic Acid (PFUnA)	ng/g	-	-	-	-	-	<0.24	<0.21	**0.53**	<0.32
Perfluorooctanoic Acid (PFOA)	ng/g	-	-	-	-	-	**0.53**	<0.21	<0.33	<0.32
PERFLUOROBUTANOIC ACID (PFBA)	ng/g	-	-	-	-	-	**1.1**	<0.21	<0.33	<0.32
Perfluorohexanoic Acid (PFHxA)	ng/g	-	-	-	-	-	**6.5**	<0.21	**1.5**	<0.32
Perfluorooctane Sulfonic Acid (PFOS)	ng/g	-	-	-	-	-	**0.8**	**3.8**	**2.6**	**0.77**
Asbestos										
Asbestos fibres	%	-	*1*	-	-	-	<0.25	<0.25	<0.25	<0.25
Inorganic										
% Moisture	%	-	-	-	-	-	**14.9**	**6.39**	**39.3**	**36.7**

Note:
Detected concentrations are **bold-faced**
Detections exceeding Soluble Threshold Limit Concentration (STLC)x10 are grey
Detections exceeding Total Threshold Limit Concentration (TTLC) are italicized
Detections exceeding Toxicity Characteristic Leaching Procedure (TCLP)x20 are red
Detections exceeding the Soluble Threshold Limit Concentration (STLC) are yellow
Detections exceeding the Toxicity Characteristic Leaching Procedure (TCLP) are green
ng/g = nanograms per gram
mg/kg= milligrams per kilogram
mg/L = milligrams per liter
- = Not available
< = analyte not detected at or above laboratory reporting limit
B = analyte detected in the associated method blank at a concentration greater than 1/10 the reported sample result

PAH = polyaromatic hydrocarbons
PCB = polychlorinated biphenyls
PFAS = Per- and Polyfluoroalkyl Substances
TPH = total petroleum hydrocarbon
SVOC = semivolatile organic compounds
VOC = volatile organic compounds

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID										PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date										08/21/2025	09/11/2025	08/25/2025
Metals												
Antimony	mg/kg	150	*500*	-	-	-	470	-	-	<2.9	**3.5**	<2.9
Arsenic	mg/kg	NA	*NA*	NA	-	-	NA	NA	12	**2.9**	**9.0**	**4.9**
Barium	mg/kg	1,000	*10,000*	2,000	-	-	220,000	220,000	-	**130**	**200**	**150**
Beryllium	mg/kg	7.5	*75*	-	-	-	230	-	-	**0.74**	**0.23 J**	**0.45 J**
Cadmium	mg/kg	10	*100*	20	-	-	100	-	-	**4.1**	**3.9**	**3.2**
Chromium (III+VI)	mg/kg	50	*2,500*	100	-	-	-	-	-	**33**	**190**	**55**
Chromium (III+VI) (STLC)	mg/L	-	-	-	5	-	-	-	-	-	<0.30	-
Chromium (III+VI) (TCLP)	mg/L	-	-	-	-	5	-	-	-	-	<0.030	-
Cobalt	mg/kg	800	*8,000*	-	-	-	350	-	-	**2.3**	**12**	**4.7**
Copper	mg/kg	250	*2,500*	-	-	-	47,000	-	-	**48**	**390**	**91**
Copper (STLC)	mg/L	-	-	-	25	-	-	-	-	-	**3.0**	-
Lead	mg/kg	50	*1,000*	100	-	-	500	-	-	**790**	**380**	**820**
Lead (STLC)	mg/L	-	-	-	5	-	-	-	-	-	**0.60**	-
Lead (TCLP)	mg/L	-	-	-	-	5	-	-	-	-	<0.015	-
Mercury	mg/kg	2	*20*	4	-	-	2.9	-	-	**0.012 J**	**0.64**	**0.061 J**
Molybdenum	mg/kg	3,500	*3,500*	-	-	-	5,800	-	-	**5.7**	**36**	**6.6**
Nickel	mg/kg	200	*2,000*	-	-	-	11,000	-	-	**14**	**100**	**26**
Selenium	mg/kg	10	*100*	20	-	-	5,800	-	-	<2.9	**3.3**	<2.9
Silver	mg/kg	50	*500*	100	-	-	5,800	-	-	**0.83**	**0.86**	**0.45 J**
Thallium	mg/kg	70	*700*	-	-	-	12	-	-	**1.2 J**	**2.9 J**	<2.9
Vanadium	mg/kg	240	*2,400*	-	-	-	5,800	-	-	**12**	**21**	**25**
Zinc	mg/kg	2,500	*5,000*	-	-	-	350,000	-	-	**450**	**2,100**	**1,200**
TPH												
TPH as Diesel	mg/kg	-	-	-	-	-	920	-	-	**13**	**170**	**2,300**
TPH as Gasoline	mg/kg	-	-	-	-	-	2,100	-	-	**2.9**	**30 J**	<74
TPH as Motor Oil	mg/kg	-	-	-	-	-	180,000	-	-	**8.9 J**	**220**	**2,700**
PCBs												
Aroclor 1016	mg/kg	-	-	-	-	-	-	27	-	<0.05	<0.049	<0.05
Aroclor 1221	mg/kg	-	-	-	-	-	-	0.83	-	<0.05	<0.049	<0.05
Aroclor 1232	mg/kg	-	-	-	-	-	-	0.72	-	<0.05	<0.049	<0.05
Aroclor 1242	mg/kg	-	-	-	-	-	-	0.95	-	<0.05	**0.65**	**7.7**

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID										PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date										08/21/2025	09/11/2025	08/25/2025
Aroclor 1248	mg/kg	-	-	-	-	-	-	0.94	-	<0.05	<0.049	<0.05
Aroclor 1254	mg/kg	-	-	-	-	-	-	0.97	-	<0.05	<0.049	<0.05
Aroclor 1260	mg/kg	-	-	-	-	-	-	0.99	-	<0.05	**0.098**	<0.05
Aroclor 1262	mg/kg	-	-	-	-	-	-	-	-	<0.05	<0.049	<0.05
Aroclor 1268	mg/kg	-	-	-	-	-	-	-	-	<0.05	<0.049	<0.05
Total PCBs	mg/kg	50	*50*	-	-	-	0.94	-	-	<0.05	**0.75**	**7.7**
VOCs												
Hexachlorobutadiene	mg/kg	-	-	10	-	-	5.2	-	-	<0.0056	<0.32	<0.37
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	8.6	-	-	<0.0056	<0.32	<0.37
1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	7,100	-	-	**0.039**	<0.32	<0.37
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	2.6	-	-	<0.0056	<0.32	<0.37
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	5	-	-	<0.0056	<0.32	<0.37
1,1,2-Trichlorotrifluoroethane (Freon-113)	mg/kg	-	-	-	-	-	-	28,000	-	<0.0056	<0.32	<0.37
1,1-Dichloroethane	mg/kg	-	-	-	-	-	15	-	-	**0.45**	<0.32	<0.37
1,1-Dichloroethene	mg/kg	-	-	14	-	-	20	-	-	**0.039**	<0.32	<0.37
1,1-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	<0.0056	<0.32	<0.37
1,2,3-Trichlorobenzene	mg/kg	-	-	-	-	-	-	930	-	<0.0056	<0.32	<0.37
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	0.11	-	-	<0.0056	<0.32	<0.37
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	110	-	-	<0.0056	<0.32	<0.37
1,2,4-Trimethylbenzene	mg/kg	-	-	-	-	-	-	1,800	-	**0.0011 J**	**0.05 J**	**0.61**
1,2-Dibromo-3-chloropropane	mg/kg	-	-	-	-	-	0.056	-	-	<0.0056	<0.32	<0.37
1,2-Dibromoethane	mg/kg	-	-	-	-	-	0.16	-	-	<0.0056	<0.32	<0.37
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	9,200	-	-	<0.0056	<0.32	<0.37
1,2-Dichloroethane	mg/kg	-	-	10	-	-	2	-	-	**0.001 J**	<0.32	<0.37
1,2-Dichloroethene(cis)	mg/kg	-	-	-	-	-	360	-	-	<0.0056	<0.32	<0.37
1,2-Dichloroethene(trans)	mg/kg	-	-	-	-	-	300	-	-	<0.0056	<0.32	<0.37
1,2-Dichloropropane	mg/kg	-	-	-	-	-	11	-	-	<0.0056	<0.32	<0.37
1,3,5-Trimethylbenzene	mg/kg	-	-	-	-	-	-	1,500	-	<0.0056	<0.32	**0.19 J**
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	<0.0056	<0.32	<0.37
1,3-Dichloropropane	mg/kg	-	-	-	-	-	-	23,000	-	<0.0056	<0.32	<0.37
1,3-Dichloropropene(cis)	mg/kg	-	-	-	-	-	-	-	-	<0.0056	<0.32	<0.37

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID										PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date										08/21/2025	09/11/2025	08/25/2025
1,3-Dichloropropene(trans)	mg/kg	-	-	-	-	-	-	-	-	<0.0056	<0.32	<0.37
1,4-Dichlorobenzene	mg/kg	-	-	150	-	-	11	-	-	<0.0056	<0.32	<0.37
2,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	-	<0.0056	<0.32	<0.37
2-chlorotoluene	mg/kg	-	-	-	-	-	-	23,000	-	<0.0056	<0.32	<0.37
4-Chlorotoluene	mg/kg	-	-	-	-	-	-	23,000	-	<0.0056	<0.32	<0.37
4-Methyl-2-pentanone	mg/kg	-	-	-	-	-	140,000	-	-	<0.0056	<0.32	<0.37
Acetone	mg/kg	-	-	-	-	-	670,000	-	-	**0.024 J**	<13	<15
Benzene	mg/kg	-	-	10	-	-	1.4	-	-	**0.0072**	**0.094 J**	**0.85**
Bromobenzene	mg/kg	-	-	-	-	-	-	1,800	-	<0.0056	<0.32	<0.37
Bromochloromethane	mg/kg	-	-	-	-	-	-	630	-	<0.0056	<0.32	<0.37
Bromodichloromethane	mg/kg	-	-	-	-	-	1.3	-	-	<0.0056	<0.32	<0.37
Bromoform	mg/kg	-	-	-	-	-	84	-	-	<0.0056	<0.32	<0.37
Bromomethane	mg/kg	-	-	-	-	-	29	-	-	<0.0056	<0.32	<0.37
Carbon tetrachloride	mg/kg	-	-	10	-	-	2.8	-	-	<0.0056	<0.32	<0.37
Chlorobenzene	mg/kg	-	-	2,000	-	-	1,300	-	-	<0.0056	<0.32	<0.37
Chlorodibromomethane	mg/kg	-	-	-	-	-	39	-	-	<0.0056	<0.32	<0.37
Chloroethane	mg/kg	-	-	-	-	-	22,000	-	-	**0.35 E**	<0.32	<0.37
Chloroform	mg/kg	-	-	120	-	-	1.4	-	-	<0.0056	<0.32	<0.37
Chloromethane	mg/kg	-	-	-	-	-	450	-	-	<0.0056	<0.32	<0.37
Dibromomethane	mg/kg	-	-	-	-	-	-	99	-	<0.0056	<0.32	<0.37
Dichlorodifluoromethane	mg/kg	-	-	-	-	-	-	370	-	<0.0056	<0.32	<0.37
Dichloromethane	mg/kg	-	-	-	-	-	26	-	-	<0.028	<1.6	<1.9
Ethylbenzene	mg/kg	-	-	-	-	-	25	-	-	<0.0056	**0.057 J**	**0.25 J**
Isopropylbenzene	mg/kg	-	-	-	-	-	-	9,900	-	**0.001 J**	<0.32	**0.39**
Methyl Ethyl Ketone	mg/kg	-	-	4,000	-	-	190,000	-	-	**0.0059 J**	<6.5	<7.4
Methyl Tertiary Butyl Ether	mg/kg	-	-	-	-	-	200	-	-	<0.0056	<0.32	<0.37
Naphthalene	mg/kg	-	-	-	-	-	8.5	-	-	<0.0056	**0.19 J**	**0.8 B**
n-butylbenzene	mg/kg	-	-	-	-	-	-	58,000	-	<0.0056	<0.32	<0.37
n-propylbenzene	mg/kg	-	-	-	-	-	-	24,000	-	<0.0056	**0.038 J**	**0.16 J**
p-isopropyltoluene	mg/kg	-	-	-	-	-	-	1,100	-	<0.0056	<0.32	**0.12 J**
sec-butylbenzene	mg/kg	-	-	-	-	-	-	120,000	-	**0.0011 J**	<0.32	<0.37
Styrene	mg/kg	-	-	-	-	-	31,000	-	-	<0.0056	<0.32	<0.37

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID										PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date										08/21/2025	09/11/2025	08/25/2025
tert-Butylbenzene	mg/kg	-	-	-	-	-	-	120,000	-	**0.0044 J**	<0.32	<0.37
Tetrachloroethene	mg/kg	-	-	14	-	-	2.6	-	-	<0.0056	<0.32	<0.37
Toluene	mg/kg	-	-	-	-	-	7,100	-	-	**0.0007 J**	**0.21 J**	**1.8**
Trichloroethene	mg/kg	2,040	*2,040*	10	-	-	5.9	-	-	<0.0056	<0.32	<0.37
Trichlorofluoromethane	mg/kg	-	-	-	-	-	-	350,000	-	<0.0056	<0.32	<0.37
Vinyl chloride	mg/kg	-	-	4	-	-	0.14	-	-	**0.03**	<0.32	<0.37
Xylene (m & p)	mg/kg	-	-	-	-	-	-	-	-	<0.011	**0.14 J**	**0.95**
Xylene (o)	mg/kg	-	-	-	-	-	-	2,800	-	<0.0056	**0.047 J**	**0.28 J**
Xylenes (total)	mg/kg	-	-	-	-	-	2,400	-	-	<0.0056	**0.19 J**	**1.2**
SVOCs												
1-Methylnaphthalene	mg/kg	-	-	-	-	-	-	0.77	-	<0.25	<1.2	<1.3
2,4,5-Trichlorophenol	mg/kg	-	-	8,000	-	-	82,000	-	-	<0.25	<1.2	<1.3
2,4,6-Trichlorophenol	mg/kg	-	-	40	-	-	33	-	-	<0.25	<1.2	<1.3
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	2,500	-	-	<0.25	<1.2	<1.3
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	16,000	-	-	<0.25	<1.2	<1.3
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	1,600	-	-	<1.2	<6	<6.1
2,4-Dinitrotoluene	mg/kg	-	-	2.6	-	-	7.4	-	-	<0.25	<1.2	<1.3
2,6-dinitrotoluene	mg/kg	-	-	-	-	-	-	1.5	-	<0.25	<1.2	<1.3
2-chloronaphthalene	mg/kg	-	-	-	-	-	-	60,000	-	<0.25	<1.2	<1.3
2-chlorophenol	mg/kg	-	-	-	-	-	5,800	-	-	<0.25	<1.2	<1.3
2-Methylnaphthalene	mg/kg	-	-	-	-	-	3,000	-	-	<0.25	<1.2	<1.3
2-Methylphenol	mg/kg	-	-	4,000	-	-	-	41,000	-	**0.35**	<1.2	<1.3
2-Nitroaniline	mg/kg	-	-	-	-	-	-	8,000	-	<0.25	<1.2	<1.3
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
3,3-Dichlorobenzidine	mg/kg	-	-	-	-	-	1.9	-	-	<1.2	<6	<6.1
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	66	-	<1.2	<6	<6.1
4-bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	82,000	-	<0.25	<1.2	<1.3
4-Chloroaniline	mg/kg	-	-	-	-	-	11	-	-	<0.25	<1.2	<1.3
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
4-Nitroaniline	mg/kg	-	-	-	-	-	-	110	-	<0.25	<1.2	<1.3

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID										PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date										08/21/2025	09/11/2025	08/25/2025
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	<1.2	<6	<6.1
Acenaphthene	mg/kg	-	-	-	-	-	45,000	-	-	<0.25	<1.2	<1.3
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
Aniline	mg/kg	-	-	-	-	-	-	400	-	<0.25	<1.2	<1.3
Anthracene	mg/kg	-	-	-	-	-	230,000	-	-	<0.25	<1.2	<1.3
Azobenzene	mg/kg	-	-	-	-	-	-	26	-	<0.25	<1.2	<1.3
Benz(a)anthracene	mg/kg	-	-	-	-	-	20	-	-	<0.25	**0.41 J**	<1.3
Benzidine	mg/kg	-	-	-	-	-	-	0.01	-	<1.2	<6	<6.1
Benzo(a) pyrene	mg/kg	-	-	-	-	-	2.1	-	-	<0.25	**0.36 J**	<1.3
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	21	-	-	<0.25	**0.48 J**	<1.3
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	210	-	-	<0.25	<1.2	<1.3
Benzoic Acid	mg/kg	-	-	-	-	-	-	3,300,000	-	<1.2	<6	<6.1
Benzyl alcohol	mg/kg	-	-	-	-	-	-	82,000	-	<0.25	<1.2	<1.3
Bis(2-chloroethoxy) methane	mg/kg	-	-	-	-	-	-	2,500	-	<0.25	<1.2	<1.3
Bis(2-chloroethyl)ether	mg/kg	-	-	-	-	-	0.46	-	-	<1.2	<6	<6.1
Bis(2-chloroisopropyl) ether	mg/kg	-	-	-	-	-	47,000	-	-	<0.25	<1.2	<1.3
Bis(2-ethylhexyl) phthalate	mg/kg	-	-	-	-	-	160	-	-	<0.25	**1.1 J**	**1.2 J**
Butyl benzyl phthalate	mg/kg	-	-	-	-	-	-	1,200	-	<0.25	**0.85 J**	<1.3
Carbazole	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
Chrysene	mg/kg	-	-	-	-	-	2,100	-	-	<0.25	**0.43 J**	<1.3
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	0.51	-	-	<0.25	<1.2	<1.3
Dibenzofuran	mg/kg	-	-	-	-	-	-	1,200	-	<0.25	<1.2	<1.3
Diethylphthalate	mg/kg	-	-	-	-	-	660,000	-	-	<0.25	<1.2	<1.3
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
Di-n-butyl phthalate	mg/kg	-	-	-	-	-	-	82,000	-	<0.25	<1.2	<1.3
Di-n-octyl phthalate	mg/kg	-	-	-	-	-	-	8,200	-	<0.25	<1.2	<1.3
Fluoranthene	mg/kg	-	-	-	-	-	30,000	-	-	<0.25	**0.78 J**	<1.3
Fluorene	mg/kg	-	-	-	-	-	30,000	-	-	<0.25	<1.2	<1.3
Hexachlorobenzene	mg/kg	-	-	2.6	-	-	0.85	-	-	<0.25	<1.2	<1.3
Hexachlorobutadiene	mg/kg	-	-	10	-	-	5.2	-	-	<0.25	<1.2	<1.3
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	7.5	-	<1.2	<6	<6.1

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID										PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date										08/21/2025	09/11/2025	08/25/2025
Hexachloroethane	mg/kg	-	-	60	-	-	7.9	-	-	<0.25	<1.2	<1.3
Indeno(1,2,3-c,d)pyrene	mg/kg	-	-	-	-	-	21	-	-	<0.25	<1.2	<1.3
Isophorone	mg/kg	-	-	-	-	-	-	2,400	-	<0.25	<1.2	<1.3
Nitrobenzene	mg/kg	-	-	40	-	-	-	22	-	<1.2	<6	<6.1
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	0.034	-	<0.25	<1.2	<1.3
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	0.33	-	<0.25	<1.2	<1.3
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	470	-	<0.25	<1.2	<1.3
Pentachlorophenol	mg/kg	17	*17*	2,000	-	-	4	-	-	<1.2	<6	<6.1
Phenanthrene	mg/kg	-	-	-	-	-	-	-	-	<0.25	**0.47 J**	<1.3
Phenol	mg/kg	-	-	-	-	-	250,000	-	-	**0.36**	<1.2	**0.86 J**
Pyrene	mg/kg	-	-	-	-	-	23,000	-	-	<0.25	**0.64 J**	<1.3
Pyridine	mg/kg	-	-	100.4	-	-	-	1,200	-	<0.25	<1.2	<1.3
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	110	-	-	<0.25	<1.2	<1.3
3-Methylphenol & 4-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	**0.15 J**	<2	<2
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	9,200	-	-	<0.25	<1.2	<1.3
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	<0.25	<1.2	<1.3
1,4-Dichlorobenzene	mg/kg	-	-	150	-	-	11	-	-	<0.25	<1.2	<1.3
Naphthalene	mg/kg	-	-	-	-	-	8.5	-	-	<0.25	<1.2	**0.36 J**
PFAS												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ng/g	-	-	-	-	-	-	-	-	<0.79	<0.788	<0.786
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ng/g	-	-	-	-	-	-	-	-	<0.768	<0.766	<0.764
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ng/g	-	-	-	-	-	-	-	-	<0.75	<0.748	<0.746
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ng/g	-	-	-	-	-	-	-	-	<5	<4.98	<4.97
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ng/g	-	-	-	-	-	-	-	-	<5	<4.98	<4.97

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID										PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date										08/21/2025	09/11/2025	08/25/2025
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ng/g	-	-	-	-	-	-	-	-	<1	<0.997	<0.995
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ng/g	-	-	-	-	-	-	-	-	<0.79	<0.788	<0.786
6:2 Fluorotelomer Sulfonate (6:2 FtS)	ng/g	-	-	-	-	-	-	-	-	<0.759	<0.757	<0.755
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ng/g	-	-	-	-	-	-	-	-	<0.78	<0.778	<0.776
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ng/g	-	-	-	-	-	-	-	-	<0.2	<0.199	<0.199
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ng/g	-	-	-	-	-	-	-	-	<2	<1.99	<1.99
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/g	-	-	-	-	-	-	-	-	<0.2	<0.199	**0.178**
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ng/g	-	-	-	-	-	-	-	-	<0.2	<0.199	<0.199
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ng/g	-	-	-	-	-	-	-	-	<2	<1.99	<1.99
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/g	-	-	-	-	-	-	-	-	<0.2	<0.199	<0.199
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ng/g	-	-	-	-	-	-	-	-	<0.4	<0.399	<0.398
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ng/g	-	-	-	-	-	-	-	-	<0.356	<0.355	<0.354
perfluoro(2-methyl-3-oxahexanoyl)fluoride (HFPO-DA)	ng/g	-	-	-	-	-	-	-	-	<0.835	<0.832	<0.83
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ng/g	-	-	-	-	-	-	-	-	<0.4	<0.399	<0.398
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ng/g	-	-	-	-	-	-	-	-	<0.4	<0.399	<0.398

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID										PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date										08/21/2025	09/11/2025	08/25/2025
Perfluorobutane Sulfonate (PFBS)	ng/g	-	-	-	-	-	250,000	-	-	<0.177	<0.176	<0.176
Perfluorodecanesulfonic Acid (PFDS)	ng/g	-	-	-	-	-	-	-	-	<0.193	<0.192	<0.192
Perfluorodecanoic Acid (PFDA)	ng/g	-	-	-	-	-	1.6	-	-	<0.2	**0.23**	<0.199
Perfluorododecanesulfonic Acid (PFDoS)	ng/g	-	-	-	-	-	-	-	-	<0.194	<0.193	<0.193
Perfluorododecanoic Acid (PFDoA)	ng/g	-	-	-	-	-	41,000	-	-	<0.2	**0.12 J**	**0.0823**
Perfluoroheptanesulfonic Acid (PFHpS)	ng/g	-	-	-	-	-	-	-	-	<0.19	<0.189	<0.189
Perfluoroheptanoic Acid (PFHpA)	ng/g	-	-	-	-	-	-	-	-	<0.2	**0.0879 J**	<0.199
Perfluorohexanesulfonic Acid (PFHxS)	ng/g	-	-	-	-	-	16,000	-	-	**0.114**	**0.179 J**	<0.182
Perfluorononanesulfonic Acid (PFNS)	ng/g	-	-	-	-	-	-	-	-	<0.192	<0.191	<0.191
Perfluorononanoic Acid (PFNA)	ng/g	-	-	-	-	-	2,500	-	-	**0.108**	**0.184 J**	<0.199
Perfluorooctanesulfonamide (PFOSA)	ng/g	-	-	-	-	-	-	-	-	<0.2	<0.199	<0.199
Perfluorooctanoic Acid (PFOA)	ng/g	-	-	-	-	-	0.078	-	-	<0.2	**0.46**	<0.199
Perfluoropentanesulfonic Acid (PFPeS)	ng/g	-	-	-	-	-	-	-	-	<0.188	<0.187	<0.187
Perfluoropentanoic Acid (PFPeA)	ng/g	-	-	-	-	-	-	-	-	<0.399	**0.141 I,J**	<0.397
Perfluorotetradecanoic Acid (PFTeDA)	ng/g	-	-	-	-	-	820,000	-	-	<0.2	<0.199	<0.199
Perfluorotridecanoic Acid (PFTrDA)	ng/g	-	-	-	-	-	-	-	-	**0.805**	**0.0799 J**	<0.199
Perfluoroundecanoic Acid (PFUnA)	ng/g	-	-	-	-	-	250,000	-	-	**0.565**	**0.181 J**	<0.199
PERFLUOROBUTANOIC ACID (PFBA)	ng/g	-	-	-	-	-	1,200,000	-	-	<0.801	<0.799	**0.176**
Perfluorohexanoic Acid (PFHxA)	ng/g	-	-	-	-	-	410,000	-	-	<0.2	**0.237**	<0.199
Perfluorooctane Sulfonic Acid (PFOS)	ng/g	-	-	-	-	-	58	-	-	**0.788**	**1.98**	**0.236**
Other												
Acute Toxicity	% Survival	-	-	-	-	-	-	-	-	-	-	**100**
Acute Toxicity - B	% Survival	-	-	-	-	-	-	-	-	-	-	**100**
Asbestos fibres	%	-	*1*	-	-	-	-	-	-	ND	ND	ND

Table 4
Pit Soil Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code	Soluble Threshold Limit Concentration (STLC)x10	*Total Threshold Limit Concentration (TTLC)*	Toxicity Characteristic Leaching Procedure (TCLP)x20	Soluble Threshold Limit Concentration (STLC)	Toxicity Characteristic Leaching Procedure (TCLP)	Soil Direct Exposure HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil	CA Specific Arsenic Background	Pit-07	Pit-12	Pit-13
Field ID									PIT7-20250821	PIT12-S-20250911	PIT13-20250825
Date									08/21/2025	09/11/2025	08/25/2025

Note:
Detected concentrations are **bold-faced**
Detections exceeding the Soluble Threshold Limit Concentration (STLC)x10 are grey
Detections exceeding the Total Threshold Limit Concentration (TTLC) are italicized
Detections exceeding the Toxicity Characteristic Leaching Procedure (TCLP)x20 are red
Detections exceeding the Soluble Threshold Limit Concentration (STLC) are orange
Detections exceeding the Toxicity Characteristic Leaching Procedure (TCLP) are green
Detections exceeding the C/I ESLs are blue
Detections exceeding the EPA RSL are green
Exceedances of the Bay Area arsenic background concentrations are yellow

mg/kg= milligrams per kilogram
mg/L = milligrams per liter
ng/g = nanograms per gram
- = Not analyzed/Not available
< = analyte not detected at or above laboratory reporting limit
B = Contamination found in associated method blank
I = Ion transition ratio is outside of the acceptance criteria
J = Estimated below laboratory reporting limit
NA = Not Applicable
ND = Non-Detect
PAH = polyaromatic hydrocarbons
PCB = polychlorinated biphenyls
PFAS = Per- and Polyfluoroalkyl Substances
TPH = total petroleum hydrocarbon
SVOC = semivolatile organic compounds
VOC = volatile organic compounds

Environmental Standards
Duverge, Establishing background arsenic in soil of the urbanized San Francisco Bay region, 2011.
United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) (TR=1E-06, HQ=1) , November 2024, EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil - **Used only when no ESL is available*
San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) Human Health Risk Levels (HHRL) in Commercial/Industrial (C/I) Scenarios , July 2025-Rev 3, Soil Direct Exposure HHRL C/I ESL (July 2025)

Table 5
Frac Tank Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	Tank
Field ID							TANK-20250825
Date							08/25/2025
Metal							
Antimony	µg/L	30	500	640	-	-	<40
Arsenic	µg/L	150	8	0.14	-	-	<10
Barium	µg/L	-	-	-	-	2,000	**64**
Beryllium	µg/L	2.7	-	0.033	-	-	<5
Cadmium	µg/L	0.25	1	-	-	-	<5
Chromium (III+VI)	µg/L	180	-	-	-	-	**2.3 J**
Cobalt	µg/L	3	-	-	-	-	<5
Copper	µg/L	9	3	-	-	-	**23**
Lead	µg/L	2.5	2	-	-	-	**50**
Mercury	µg/L	0.025	0.025	0.051	0.37	-	<0.4
Molybdenum	µg/L	240	-	-	-	-	**55**
Nickel	µg/L	52	5	4,600	-	-	**5.5 J**
Selenium	µg/L	5	0.5	4,200	-	-	<30
Silver	µg/L	3.4	0.7	-	-	-	**3.7 J**
Thallium	µg/L	20	210	0.47	-	-	<50
Vanadium	µg/L	19	-	-	-	-	**1.7 J**
Zinc	µg/L	120	20	26,000	-	-	**170**
TPH							
TPH as Gasoline	µg/L	440	3,700	-	-	-	**53**
TPH as Diesel	µg/L	640	640	-	-	-	**490**
TPH as Motor Oil	µg/L	-	-	-	-	-	**130 J**
PCBs							
Aroclor 1016	µg/L	-	-	-	-	-	<0.48
Aroclor 1221	µg/L	-	-	-	-	-	<0.48
Aroclor 1232	µg/L	-	-	-	-	-	<0.48
Aroclor 1242	µg/L	-	-	-	-	-	<0.48
Aroclor 1248	µg/L	-	-	-	-	-	<0.48
Aroclor 1254	µg/L	-	-	-	-	-	<0.48
Aroclor 1260	µg/L	-	-	-	-	-	<0.48
Aroclor 1262	µg/L	-	-	-	-	-	<0.48
Aroclor 1268	µg/L	-	-	-	-	-	<0.48
Total PCBs	µg/L	0.014	0.03	0.000019	1.3	-	<0.48
VOC							
1,4-Dichloro-2-butene(cis)	µg/L	-	-	-	-	-	<1
1,4-Dichloro-2-butene(trans)	µg/L	-	-	-	-	-	<1
1,1,1,2-Tetrachloroethane	µg/L	930	-	-	16	-	<0.5
1,1,1-Trichloroethane	µg/L	62	3,100	200,000	6,200	-	<0.5
1,1,2,2-Tetrachloroethane	µg/L	420	900	2.3	14	-	<0.5
1,1,2-Trichloroethane	µg/L	4,700	-	8.9	23	-	<0.5
1,1,2-Trichlorotrifluoroethane	µg/L	-	-	-	-	-	<0.5
1,1-Dichloroethane	µg/L	47	-	-	33	-	<0.5
1,1-Dichloroethene	µg/L	25	22,000	0.9	16	-	<0.5
1,1-Dichloropropene	µg/L	-	-	-	-	-	<0.5
1,2,3-Trichlorobenzene	µg/L	-	-	-	-	-	<0.5
1,2,3-Trichloropropane	ng/L	2,700,000	6	-	94,000	-	<1,000
1,2,4-Trichlorobenzene	µg/L	25	65	0.076	150	-	<0.5
1,2,4-Trimethylbenzene	µg/L	-	-	-	-	-	**0.2 J**
1,2-Dibromo-3-chloropropane	µg/L	-	-	-	0.34	-	<2
1,2-Dibromoethane	µg/L	1,400	-	-	0.77	-	<0.5
1,2-Dichlorobenzene	µg/L	14	65	3,000	11,000	-	<0.5
1,2-Dichloroethane	µg/L	10,000	11,000	28	9.8	-	<0.5
1,2-Dichloroethene(cis)	µg/L	590	22,000	-	1,100	-	**0.3 J**
1,2-Dichloroethene(trans)	µg/L	590	22,000	4,000	460	-	<0.5
1,2-Dichloropropane	µg/L	2,900	1,500	31	29	-	<0.5
1,3,5-Trimethylbenzene	µg/L	-	-	-	-	-	<0.5
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	<0.5
1,3-Dichloropropane	µg/L	-	-	-	-	-	<0.5
1,3-Dichloropropene(cis)	µg/L	-	-	-	-	-	<0.5
1,3-Dichloropropene(trans)	µg/L	-	-	-	-	-	<0.5
1,4-Dichlorobenzene	µg/L	15	65	18	11	-	<0.5
2,2-Dichloropropane	µg/L	-	-	-	-	-	<0.5
2-chlorotoluene	µg/L	-	-	-	-	-	<0.5
4-Chlorotoluene	µg/L	-	-	-	-	-	<0.5
4-Methyl-2-pentanone	µg/L	170	-	-	2,300,000	-	**1 J**
Acetone	µg/L	1,500	-	-	95,000,000	-	**25**
Benzene	µg/L	46	350	5.9	1.9	-	<0.5
Bromobenzene	µg/L	-	-	-	-	-	<1

Table 5
Frac Tank Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

		Location Code						Tank
		Field ID	Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	TANK-20250825
		Date						08/25/2025
Bromochloromethane	µg/L		-	-	-	-	-	<0.5
Bromodichloromethane	µg/L		1,100	3,200	27	3.8	-	<0.5
Bromoform	µg/L		1,100	3,200	120	510	-	<1
Bromomethane	µg/L		160	3,200	4,000	73	-	<1
Carbon tetrachloride	µg/L		240	3,200	0.9	1.8	-	<0.5
Chlorobenzene	µg/L		25	65	570	1,700	-	<0.5
Chlorodibromomethane	µg/L		1,100	3,200	21	-	-	<0.5
Chloroethane	µg/L		-	-	-	39,000	-	<0.5
Chloroform	µg/L		620	3,200	130	3.6	-	<0.5
Chloromethane	µg/L		1,100	3,200	-	1,100	-	<0.5
Dibromomethane	µg/L		-	-	-	-	-	<0.5
Dichlorodifluoromethane	µg/L		-	-	-	-	-	<0.5
Dichloromethane	µg/L		2,200	3,200	1,000	92	-	<20
Diisopropyl ether	µg/L		-	-	-	-	-	<0.5
Ethylbenzene	µg/L		290	43	130	15	-	**0.05 J**
Ethyl-t-Butyl Ether	µg/L		-	-	-	-	-	<0.5
Hexachlorobutadiene	µg/L		4.7	3.2	0.01	1.3	-	<1
Isopropylbenzene	µg/L		-	-	-	-	-	<0.5
Methyl Ethyl Ketone	µg/L		14,000	-	-	9,400,000	-	**10**
Methyl Tertiary Butyl Ether	µg/L		66,000	8,000	-	2,000	-	<0.5
Naphthalene	µg/L		24	15	-	20	-	**0.3 BJ**
n-butylbenzene	µg/L		-	-	-	-	-	<0.5
n-propylbenzene	µg/L		-	-	-	-	-	<0.5
p-isopropyltoluene	µg/L		-	-	-	-	-	<0.5
sec-butylbenzene	µg/L		-	-	-	-	-	<0.5
Styrene	µg/L		-	-	-	35,000	-	<0.5
tert-Amyl-Methyl Ether	µg/L		-	-	-	-	-	<0.5
tert-Butyl alcohol	µg/L		18,000	-	-	59,000,000	-	**3.7 J**
tert-Butylbenzene	µg/L		-	-	-	-	-	<0.5
Tetrachloroethene	µg/L		120	230	2	2.8	-	<0.5
Toluene	µg/L		130	2,500	520	6,800	-	**0.09 BJ**
Trichloroethene	µg/L		360	200	7	7.4	-	<0.5
Trichlorofluoromethane	µg/L		-	-	-	-	-	<0.5
Vinyl chloride	µg/L		780	-	1.6	0.14	-	<0.5
Xylene (m & p)	µg/L		-	-	-	-	-	**0.4 J**
Xylene (o)	µg/L		-	-	-	-	-	**0.3 J**
Xylenes (total)	µg/L		-	100	-	1,600	-	**0.8 J**
SVOC								
2,4,5-Trichlorophenol	µg/L		63	1	600	-	-	<9.7
2,4,6-Trichlorophenol	µg/L		490	1	0.29	-	-	<9.7
2,4-Dichlorophenol	µg/L		180	1	60	-	-	<9.7
2,4-Dimethylphenol	µg/L		530	30	2,300	-	-	<9.7
2,4-Dinitrophenol	µg/L		75	30	4	-	-	<49
2,4-Dinitrotoluene	µg/L		120	190	1.7	-	-	<9.7
2,6-dinitrotoluene	µg/L		-	-	-	-	-	<9.7
2-chloronaphthalene	µg/L		-	-	-	-	-	<9.7
2-chlorophenol	µg/L		440	1	400	-	-	<9.7
2-Methylphenol	µg/L		-	-	-	-	-	<9.7
2-Nitroaniline	µg/L		-	-	-	-	-	<49
2-Nitrophenol	µg/L		-	-	-	-	-	<9.7
3,3-Dichlorobenzidine	µg/L		250	-	0.077	-	-	<24
3-Nitroaniline	µg/L		-	-	-	-	-	<9.7
4,6-Dinitro-2-methylphenol	µg/L		-	-	-	-	-	<49
4-bromophenyl phenyl ether	µg/L		-	-	-	-	-	<9.7
4-Chloro-3-methylphenol	µg/L		-	-	-	-	-	<9.7
4-Chloroaniline	µg/L		5	-	-	-	-	<9.7
4-Chlorophenyl phenyl ether	µg/L		-	-	-	-	-	<9.7
4-Nitroaniline	µg/L		-	-	-	-	-	<9.7
Aniline	µg/L		-	-	-	-	-	<9.7
Azobenzene	µg/L		-	-	-	-	-	<9.7
Benzidine	µg/L		-	-	-	-	-	<49
Benzoic Acid	µg/L		-	-	-	-	-	<49
Benzyl alcohol	µg/L		-	-	-	-	-	<24
Bis(2-chloroethoxy) methane	µg/L		-	-	-	-	-	<9.7
Bis(2-chloroethyl)ether	µg/L		61	-	0.045	25	-	<24
Bis(2-chloroisopropyl) ether	µg/L		61	-	4,000	-	-	<9.7
Bis(2-ethylhexyl) phthalate	µg/L		32	-	0.37	-	-	<9.7
Butyl benzyl phthalate	µg/L		-	-	-	-	-	<9.7

Table 5
Frac Tank Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

		Location Code						Tank
		Field ID	Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	TANK-20250825
		Date						08/25/2025
Carbazole	µg/L		-	-	-	-	-	<9.7
Dibenzofuran	µg/L		-	-	-	-	-	<9.7
Diethylphthalate	µg/L		1.5	1.7	600	-	-	<9.7
Dimethyl phthalate	µg/L		-	-	-	-	-	<9.7
Di-n-butyl phthalate	µg/L		-	-	-	-	-	<9.7
Di-n-octyl phthalate	µg/L		-	-	-	-	-	<9.7
Hexachlorobenzene	µg/L		3.7	65	0.000079	0.35	-	<9.7
Hexachlorocyclopentadiene	µg/L		-	-	-	-	50	<24
Hexachloroethane	µg/L		12	94	0.1	7	-	<9.7
Isophorone	µg/L		-	-	-	-	-	<9.7
Nitrobenzene	µg/L		-	-	-	-	-	<24
N-Nitrosodimethylamine	µg/L		-	-	-	-	-	<9.7
N-Nitrosodi-n-propylamine	µg/L		-	-	-	-	-	<9.7
N-Nitrosodiphenylamine	µg/L		-	-	-	-	-	<9.7
Phenol	µg/L		1,300	30	300,000	-	-	<9.7
Pyridine	µg/L		-	-	-	-	-	<9.7
3-Methylphenol & 4-Methylphenol	µg/L		-	-	-	-	-	<9.7
PAH								
2-Methylnaphthalene	µg/L		2.1	30	-	-	-	<9.7
Acenaphthene	µg/L		23	15	90	-	-	<9.7
Acenaphthylene	µg/L		-	-	-	-	-	<9.7
Anthracene	µg/L		0.73	15	400	-	-	<9.7
Benz(a)anthracene	µg/L		0.027	15	0.0013	230	-	<9.7
Benzo(a)pyrene	µg/L		0.014	15	0.00013	-	-	<9.7
Benzo(b)fluoranthene	µg/L		-	15	0.0013	-	-	<9.7
Benzo(g,h,i)perylene	µg/L		-	-	-	-	-	<9.7
Benzo(k)fluoranthene	µg/L		3.7	15	0.013	-	-	<9.7
Chrysene	µg/L		0.35	15	0.049	-	-	<9.7
Dibenz(a,h)anthracene	µg/L		7.5	15	0.00013	-	-	<9.7
Fluoranthene	µg/L		8.1	8	20	-	-	<9.7
Fluorene	µg/L		3.9	15	70	-	-	<9.7
Indeno(1,2,3-c,d)pyrene	µg/L		-	15	0.0013	-	-	<9.7
Phenanthrene	µg/L		-	-	-	-	-	<9.7
Pyrene	µg/L		2	15	30	-	-	<9.7
PFAS	Units							
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ng/l		-	-	-	-	-	<6.35
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ng/l		-	-	-	-	-	**5.98**
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ng/l		-	-	-	-	-	<6.35
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ng/l		-	-	-	-	-	**24.2**
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ng/l		-	-	-	-	-	<42.4
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ng/l		-	-	-	-	-	<8.47
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ng/l		-	-	-	-	-	<6.69
6:2 Fluorotelomer Sulfonate (6:2 FtS)	ng/l		-	-	-	-	-	**2.69**
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ng/l		-	-	-	-	-	<6.61
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ng/l		-	-	-	-	-	<1.69
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ng/l		-	-	-	-	-	<16.9
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/l		-	-	-	-	-	**0.924**
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ng/l		-	-	-	-	-	<1.69
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ng/l		-	-	-	-	-	<16.9

Table 5
Frac Tank Analytical Results
Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps
Prologis - AB&I

Location Code		Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)	Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)	Aquatic Habitat Goal, Seafood Ingestion Human Health ESL (July 2025)	GW VI HHRL C/I ESL (July 2025)	EPA RSL (Nov 2024, HQ=1.0) - MCLs	Tank
Field ID							TANK-20250825
Date							08/25/2025
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/l	-	-	-	-	-	**1.55**
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ng/l	-	-	-	-	-	<3.39
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ng/l	-	-	-	-	-	<3.02
perfluoro(2-methyl-3-oxahexanoyl)fluoride (HFPO-DA)	ng/L	-	-	-	-	-	<7.07
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ng/l	-	-	-	-	-	<3.39
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ng/l	-	-	-	-	-	<3.39
Perfluorodecanesulfonic Acid (PFDS)	ng/l	-	-	-	-	-	<1.63
Perfluorodecanoic Acid (PFDA)	ng/l	94	94	-	-	-	**5.64**
Perfluorododecanesulfonic Acid (PFDoS)	ng/l	-	-	-	-	-	<1.64
Perfluorododecanoic Acid (PFDoA)	ng/l	72,000	-	-	-	-	**0.357**
Perfluoroheptanesulfonic Acid (PFHpS)	ng/l	-	-	-	-	-	**1.09**
Perfluoroheptanoic Acid (PFHpA)	ng/l	870,000	-	-	-	-	**37.1**
Perfluorohexanesulfonic Acid (PFHxS)	ng/l	14,000	14,000	-	-	-	**38.4**
Perfluorononanesulfonic Acid (PFNS)	ng/l	-	-	-	-	-	<1.63
Perfluorononanoic Acid (PFNA)	ng/l	120	120	-	-	-	**31.1**
Perfluorooctanesulfonamide (PFOSA)	ng/l	-	-	-	-	-	**4.43**
Perfluoropentanesulfonic Acid (PFPeS)	ng/l	-	-	-	-	-	**3.44**
Perfluoropentanoic Acid (PFPeA)	ng/l	140,000	-	-	-	-	**481**
Perfluorotetradecanoic Acid (PFTeDA)	ng/l	-	-	-	-	-	<1.69
Perfluorotridecanoic Acid (PFTrDA)	ng/l	-	-	-	-	-	<1.69
Perfluoroundecanoic Acid (PFUnA)	ng/l	49,000	-	-	-	-	**2.42**
Perfluorobutanesulfonic Acid (PFBS)	ng/l	210,000	210,000	500	-	-	**8.87**
Perfluorooctanoic Acid (PFOA)	ng/l	48,000	3,200	0.0036	-	-	**51.6**
PERFLUOROBUTANOIC ACID (PFBA)	ng/l	76,000	120,000	-	-	-	**108**
Perfluorohexanoic Acid (PFHxA)	ng/l	34,000	540,000	-	-	-	**449**
Perfluorooctane Sulfonic Acid (PFOS)	ng/l	17	17	0.07	-	-	**65.6**
Asbestos							
Asbestos fibres	MFL	-	-	-	-	-	<0
Herbicide							
4-Nitrophenol	µg/L	-	-	-	-	-	<49
Pentachlorophenol	µg/L	15	1	0.04	-	-	<24
other							
Acute Toxicity	% Survival	-	-	-	-	-	**100**

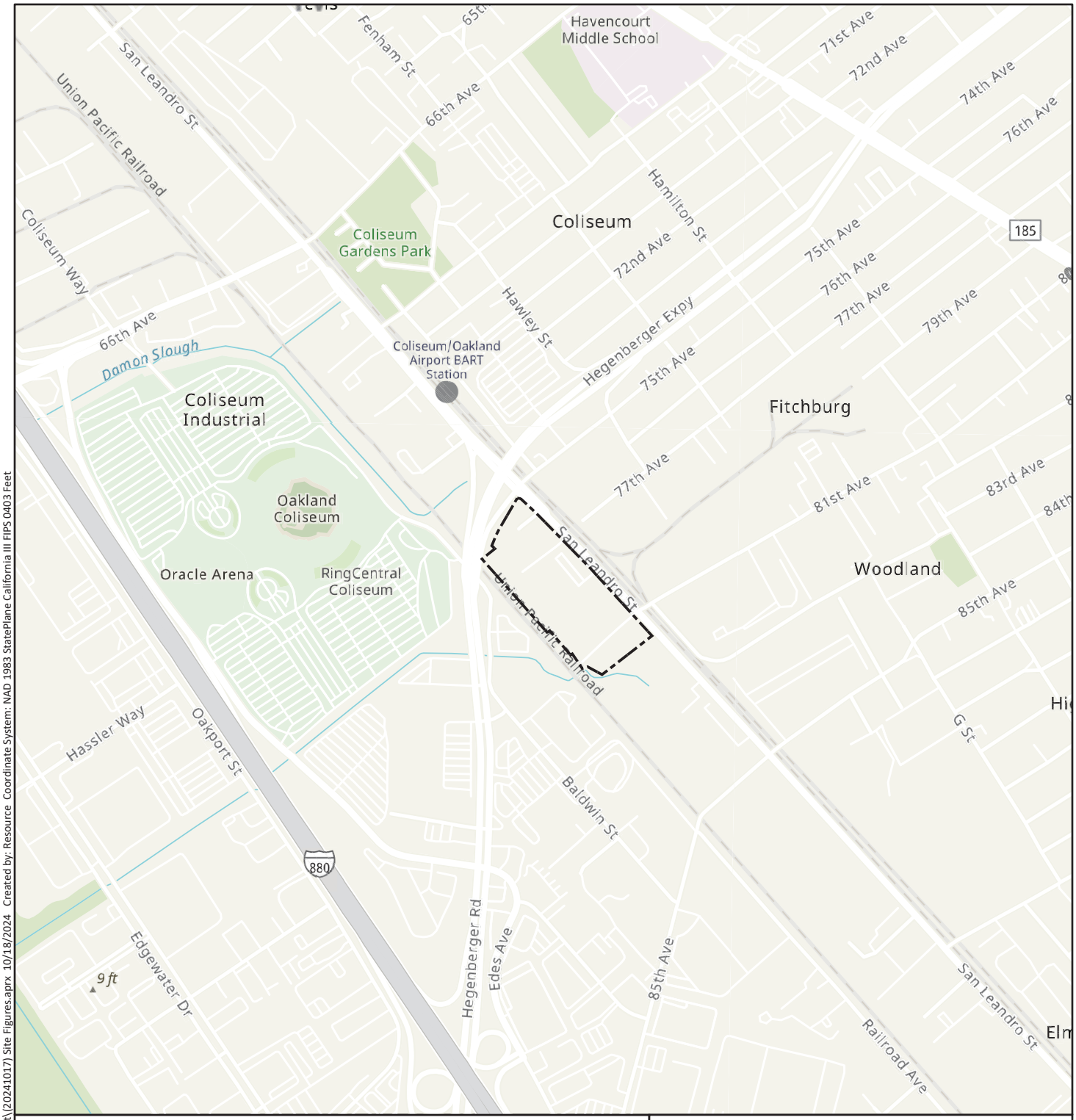
Detected concentrations are **bold-faced**
Detections exceeding the Aquatic Habitat Goal - Seafood Ingestion ESL are orange
Detections exceeding the Aquatic Habitat Goal Saltwater Ecotox ESL are red
Detections exceeding the Aquatic Habitat Goal, Fresh Water Ecotox ESL are grey
Detections exceeding the EPA RSL (Nov 2024, HQ=1.0) - MCLs are green
Detections exceeding the GW VI HHRL C/I ESL are blue

ng/L = nanograms per liter
µg/L= micrograms per Liter
- = Not analyzed/Not available
< = analyte not detected at or above laboratory reporting limit
B = contamination found in associated method blank
J = Estimated below laboratory reporting limit

PAH = polyaromatic hydrocarbons
PCB = polychlorinated biphenyls
PFAS = Per- and Polyfluoroalkyl Substances
TPH = total petroleum hydrocarbon
SVOC = semivolatile organic compounds
VOC = volatile organic compounds

Environmental Standards
San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , July 2025-Rev 3, Aquatic Habitat Goal, Fresh Water Ecotox ESL (July 2025)
San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , July 2025-Rev 3, Aquatic Habitat Goal, Saltwater Ecotox ESL (July 2025)
San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) , July 2025-Rev 3, Aquatic Habitat Goal, Seafood Ingestion Human Health ESL
San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for Groundwater (GW) Vapor Intrusion (VI) Human Health Risk Levels (HHRL) in Commercial/Industrial (C/I) Scenarios , 2019-rev2, GW VI HHRL C/I ESL

United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) (TR=1E-06, HQ=1) , November 2024, EPA RSL (Nov 2024, HQ=1.0) - MCLs **Used only when no ESL is available*



0 500 1,000 2,000 Feet

1 inch = 1,000 feet

N

Legend

Approximate Site Boundary

Base Map: ESRI World Topographic Map
(data providers include HERE, Garmin, USGS, et al.)

SAFETY FIRST

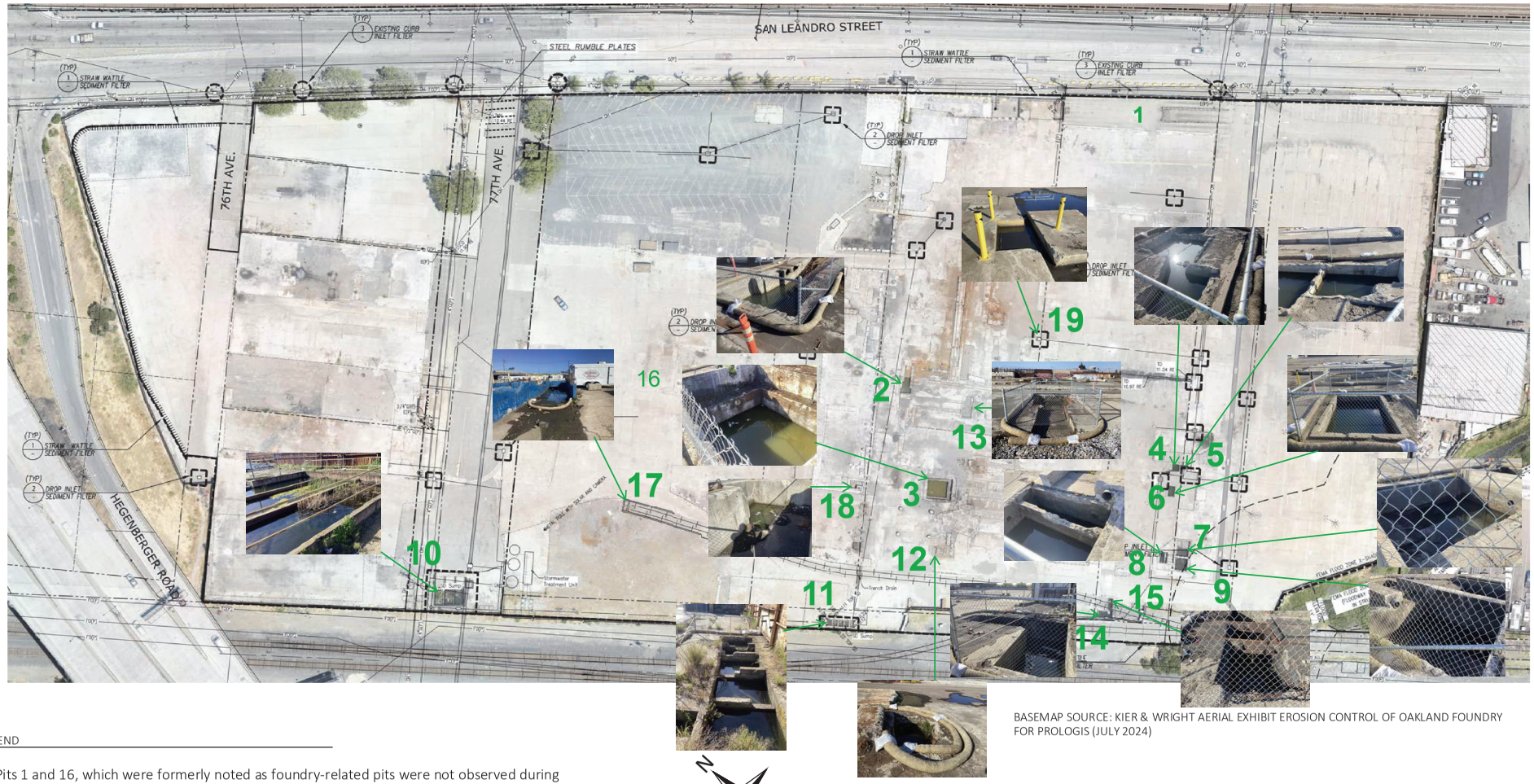
terraphase engineering

CLIENT:	Duke Realty Foundry LP
PROJECT:	AB&I Redevelopment
PROJECT NUMBER:	0172.033.007

Site Location Map

FIGURE 1

File: N:\GIS\Prj\0172_Prologis\033 - AB&I Foundry\Pro Project\(20241017) Site Figures.aprx 10/18/2024 Created by: Resource Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet



BASEMAP SOURCE: KIER & WRIGHT AERIAL EXHIBIT EROSION CONTROL OF OAKLAND FOUNDRY FOR PROLOGIS (JULY 2024)

LEGEND

-Pits 1 and 16, which were formerly noted as foundry-related pits were not observed during recent site visits. The historical locations of Pits 1 and 16 are noted above.
-Pits 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 17, and 18 were filled with cellular concrete.
-Pits 11, and 19, which are sumps or inlets connected to the Site stormwater conveyance system, were covered with an engineered cover.
-Pit 12, which has a soil bottom, requires additional investigation and has not been filled or covered.

N

50' 100' 200'

APPROXIMATE SCALE IN FEET

SAFETY FIRST	CLIENT: Duke Realty Foundry LP	Pit Locations
terraphase engineering	PROJECT: AB&I Redevelopment	
	PROJECT NUMBER: 0172.033.007	Figure 2

J:\CADD FILES\0172 Prologis\AB&I\Basemap- KW EC.dwg Drawn by: XXX ; Checked by: XXX

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAC003358684
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 024978660 JJK

GENERATOR

5. Generator's Name and Mailing Address
DUKE REALTY LP
PIER 1, BAY 1
San Francisco CA 94111
Generator's Phone:

Generator's Site Address (if different than mailing address)
DUKE REALTY FOUNDRY LP
7825 SAN LEANDRO ST
Oakland CA 94621

6. Transporter 1 Company Name: PATRIOT Environmental Services
U.S. EPA ID Number: CAR 000351205

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Management KHF
35251 Old Skyline Rd
Kettleman City CA 93239
Facility's Phone: 559 386-9711
U.S. EPA ID Number: CAT 000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3077, Environmentaly Hazardous substance, Solid, N.O.S. (soil w/ Lead), 9, III	001	CM	15	Y	352
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Job # 16980
BIN # Pes 15233
Profile# CA626668
Job # 16980

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Arturo Aguirre O.B.O. Duke Realty
Signature: O.B.O. Duke Realty
Month: 11 Day: 12 Year: 25

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Arturo Aguirre
Signature:
Month: 11 Day: 12 Year: 25

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Katie Yarbrough
Signature: Katie Yarbrough
Month: 11 Day: 12 Year: 25

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	800-424-9300	NH DUKE REALTY

GENERATOR

5. Generator's Name and Mailing Address
DUKE REALTY FOUNDRY LP
PIER 1, BAY 1
SAN FRANCISCO CA 94111
Generator's Phone:

Generator's Site Address (if different than mailing address)
DUKE REALTY FOUNDRY LP
7825 SAN LEANDRO ST
OAKLAND CA 94621

6. Transporter 1 Company Name: Patriot Environmental Services
U.S. EPA ID Number: CAR000351205

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
YUMA YES 2 Waste Transfer Station
6500 S. US-Hwy 95
Yuma AZ 85365
Facility's Phone: 928 344-9828
U.S. EPA ID Number: AZR000521146

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS WASTE, LIQUID (WASH WATER)	2	DM	100	G	
2.	NON-HAZARDOUS WASTE, SOLID (SOIL W/ TRACE PCB)	~~5~~ 7	DM	1650	P	
3.						
4.						

13. Special Handling Instructions and Additional Information
TASK#: 16780 CUSTOMER#: CCN10430
PROFILE(S): 1)
2)
Always wear appropriate PPE when handling waste JOB#

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Ambrose Kong on behalf of Duke Realty LP
Signature:
Month: 11 Day: 12 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: SYDNEY TRUAL
Signature:
Month: 11 Day: 12 Year: 25

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NOT REQUIRED
2. Page 1 of 1
3. Emergency Response Phone: (800) 424-9300
4. Waste Tracking Number: NH 16980

GENERATOR

5. Generator's Name and Mailing Address
AB&I Foundry
7825 San Leandro St
Oakland CA 94621
Generator's Phone: (510) 633-5252
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Patriot Environmental — U.S. EPA ID Number: CAR000351205

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Heritage-Crystal Clean LLC
1620 E Brundage Ln
Bakersfield CA 93307
Facility's Phone: 661 343-2068
U.S. EPA ID Number: CAL000478172 ~~CAL000282598~~

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1	NON-HAZARDOUS WASTE, LIQUID (Sump water/RAIN WATER)	001	T ~~FT~~	4300	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
TASK: 16980 Customer: CCP10430
052225-34B-CSI

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Arturo Aguirre O.B.O prologistics
Signature: AA OBO prologis
Month 8 Day 4 Year 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Arturo Aguirre
Signature: AA
Month 8 Day 4 Year 25
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

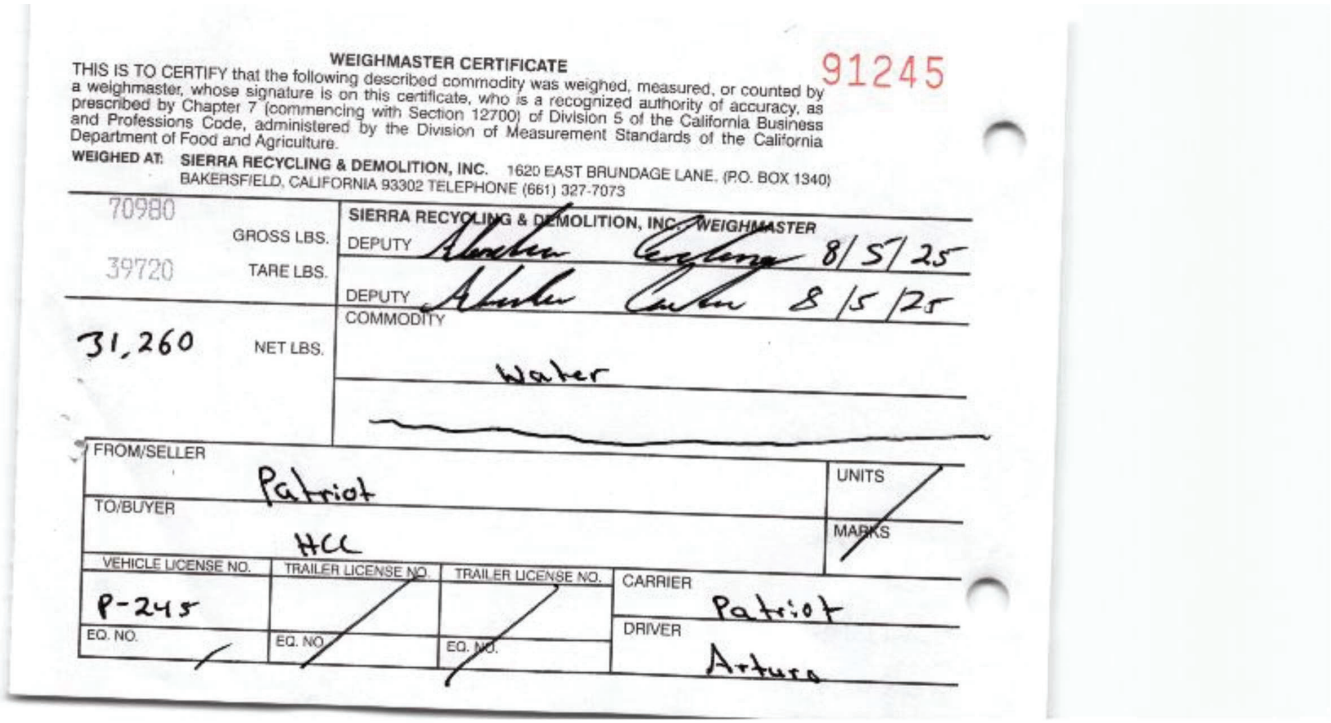
DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
3743 gal rec'd
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Alan Shah
Signature:
Month 05 Day 05 Year 25

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR



WEIGHMASTER CERTIFICATE 91245

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WEIGHED AT: **SIERRA RECYCLING & DEMOLITION, INC.** 1620 EAST BRUNDAGE LANE. (P.O. BOX 1340) BAKERSFIELD, CALIFORNIA 93302 TELEPHONE (661) 327-7073

70980 GROSS LBS.	SIERRA RECYCLING & DEMOLITION, INC. — WEIGHMASTER
39720 TARE LBS.	DEPUTY 8/5/25
	DEPUTY 8/5/25
31,260 NET LBS.	COMMODITY Water

FROM/SELLER Patriot				UNITS
TO/BUYER HCC				MARKS
VEHICLE LICENSE NO.	TRAILER LICENSE NO.	TRAILER LICENSE NO.	CARRIER Patriot	
P-245			DRIVER Arturo	
EQ. NO.	EQ. NO.	EQ. NO.		

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	(800) 424-9300	NH 16980

GENERATOR

5. Generator's Name and Mailing Address
DUKE REALTY FOUNDRY LP
7825 SAN LEANDRO ST.
OAKLAND CA 94621
Att: GAVIN FISCO
Generator's Phone: 562 676-2330

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Patriot Environmental Services — U.S. EPA ID Number: CAR000351205

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Altamont Landfill and Resource
10840 Altamont Pass Rd.
Livermore CA 94550
Facility's Phone: — U.S. EPA ID Number: CAD981382732

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS WASTE, LIQUID (GROUND/RAIN WATER)	01	TT	4,800	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
TASK#: 16980 CUSTOMER#: CCN10430
PROFILE(S): 671423CA
78
Always wear appropriate PPE when handling waste. JOB#

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: O.B.O D.R.F Edwin Avila — Signature: O.B.O D.R.F — Month: 10 Day: 20 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edwin Avila — Signature — Month: 10 Day: 20 Year: 25

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Reprint
Ticket# 1898977

Customer Name PATRIOTENVRICHMOND PATRIOT EN
Ticket Date 10/20/2025
Payment Type Credit Account
Manual Ticket#
Bill of L # 0388934
Manifest NH16980
PO
Profile 671423CA (Non-Haz Water (16980))
Generator DUKE REALTY-7825 DUKE REALTY FOUNDRY LP 7825 SAN LEANDRO ST OAKLAND

Carrier GEN Altamont Generic
Vehicle# 9G49613
Container
P 924
License#

	Time	Scale	Deputy Weighmaster	Inbound		
In	10/20/2025 10:27:44	Scale 3 I	Alfredo Flores		Gross	77320 lb
Out	10/20/2025 10:54:35	Scale1 Inb	Alfredo Flores		Tare	33820 lb
					Net	43500 lb
					Tons	21.75

Comment

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Sol Disp SPW-To	100	21.75	Tons				Oakland

Total Tax
Total Ticket

Driver's Signature

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured,or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	(800) 424-9300	NH 16980

GENERATOR

5. Generator's Name and Mailing Address
DUKE REALTY FOUNDRY LP
7825 SAN LEANDRO ST.
OAKLAND CA 94621
Attn: GAVIN FISCO
Generator's Phone: 562 676-2330

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
Patriot Environmental Services
U.S. EPA ID Number: CAR000351205

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Altamont Landfill and Resource
10840 Altamont Pass Rd.
Livermore CA 94550
Facility's Phone:
U.S. EPA ID Number: CAD981382732

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS WASTE, LIQUID (GROUND/RAIN WATER)	01	TT	4,800	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
TASK#: 16980 CUSTOMER#: CCN10430
PROFILE(S): 671423CA
78
Always wear appropriate PPE when handling waste JOB#

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: O.B.O DRF Edwin Avila
Signature: O.B.O DRF
Month: 10 Day: 20 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edwin Avila
Signature:
Month: 10 Day: 20 Year: 25

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: M/C
Signature:
Month: 10 Day: 20 Year: 25

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Reprint
Ticket# 1899074

Customer Name PATRIOTENVRICHMOND PATRIOT EN
Ticket Date 10/20/2025
Payment Type Credit Account
Manual Ticket#
Billing # 0388934
Manifest NH16980
PO
Profile 671423CA (Non-Haz Water (16980))
Generator DUKE REALTY-7825 DUKE REALTY FOUNDRY LP 7825 SAN LEANDRO ST OAKLAND

Carrier GEN Altamont Generic
Vehicle# 9G49613
Container
P 924
License#

	Time	Scale	Deputy Weighmaster	Inbound		
In	10/20/2025 13:05:48	Scale 3 I	Tyler Canady		Gross	74480 lb
Out	10/20/2025 13:57:30	Scale1 Inb	Tyler Canady		Tare	33960 lb
					Net	40520 lb
					Tons	20.26

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Sol Disp SPW-To 100		20.26	Tons				Oakland

Total Tax
Total Ticket

Driver`s Signature

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured,or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	(800) 424-9300	NH 16980

GENERATOR

5. Generator's Name and Mailing Address
DUKE REALTY FOUNDRY LP
7825 SAN LEANDRO ST.
OAKLAND CA 94621
Att: GAVIN FISCO
Generator's Phone: 562 676-2330

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Patriot Environmental Services — U.S. EPA ID Number: CAR000351205

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Altamont Landfill and Resource
10840 Altamont Pass Rd.
Livermore CA 94550
Facility's Phone: — U.S. EPA ID Number: CAD981382732

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1	NON-HAZARDOUS WASTE, LIQUID (GROUND/RAIN WATER)	01	TT	3,000	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
TASK#: 16980 CUSTOMER#: CCN10430
PROFILE(S): 671423CA
+8
Always wear appropriate PPE when handling waste. JOB#

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: O.B.O D.R.F Edwin Avila — Signature: O.B.O D.R.F — Month: 10 Day: 21 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edwin Avila — Signature — Month: 10 Day: 21 Year: 25

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month: 10 Day: 21 Year: 25

WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Reprint
Ticket# 1899309

Customer Name PATRIOTENVRICHMOND PATRIOT EN
Ticket Date 10/21/2025
Payment Type Credit Account
Manual Ticket#
Billing # 0388934
Manifest NH 16980
PO
Profile 671423CA (Non-Haz Water (16980))
Generator DUKE REALTY-7825 DUKE REALTY FOUNDRY LP 7825 SAN LEANDRO ST OAKLAND

Carrier GEN Altamont Generic
Vehicle# 9G49613
Container
P 924
License#

	Time	Scale	Deputy Weighmaster	Inbound		
In	10/21/2025 09:12:43	Scale 3 I	R Rojas		Gross	46220 lb
Out	10/21/2025 09:42:26	Scale1 Inb	R Rojas		Tare	33980 lb
					Net	12240 lb
					Tons	6.12

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Sol Disp SPW-To 100		6.12	Tons				Oakland

Total Tax
Total Ticket

Driver`s Signature

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured,or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NOT REQUIRED
2. Page 1 of: 1
3. Emergency Response Phone: (800) 424-9300
4. Waste Tracking Number: NH 16980

GENERATOR

5. Generator's Name and Mailing Address
DUKE REALTY FOUNDRY LP
7825 SAN LEANDRO ST.
OAKLAND CA 94621
Attn: GAVIN FISCO
Generator's Phone: 562 676-2330

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Patriot Environmental Services
U.S. EPA ID Number: CAR000351205

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Altamont Landfill and Resource
10840 Altamont Pass Rd.
Livermore CA 94550
Facility's Phone:
U.S. EPA ID Number: CAD981382732

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS WASTE, LIQUID (GROUND/RAIN WATER)	01	TT	1,600	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
TASK#: 16980 CUSTOMER#: CCN10430
PROFILE(S): 671423CA
+8
Always wear appropriate PPE when handling waste. JOB#

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: O.B.O D.R.F Edwin Avila
Signature: O.B.O D.R.F
Month: 10 Day: 23 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edwin Avila
Signature:
Month: 10 Day: 23 Year: 25

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month: 10 Day: 23 Year: 25

WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Reprint
Ticket# 1900133

Customer Name PATRIOTENVRICHMOND PATRIOT EN
Ticket Date 10/23/2025
Payment Type Credit Account
Manual Ticket#
Billing # 0388934
Manifest NH 16980
PO
Profile 671423CA (Non-Haz Water (16980))
Generator DUKE REALTY-7825 DUKE REALTY FOUNDRY LP 7825 SAN LEANDRO ST OAKLAND

Carrier GEN Altamont Generic
Vehicle# 9G49613
Container
P 924
License#

Time	Scale	Deputy Weighmaster	Inbound		
In 10/23/2025 11:42:00	Scale 3 I	R Rojas		Gross	40220 lb
Out10/23/2025 12:38:58	Scale1 Inb	R Rojas		Tare	33760 lb
				Net	6460 lb
				Tons	3.23

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Sol Disp SPW-To	100	3.23	Tons				Oakland
2	WO-Wash Charge	100	1.00	Each				

Total Tax
Total Ticket

Driver`s Signature

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured,or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAC 003358684
2. Page 1 of: 1
3. Emergency Response Phone: 800 424-9300
4. Waste Tracking Number: Terraphase OAK

GENERATOR

5. Generator's Name and Mailing Address
Duke Realty Foundry LP
Pier 1 Bay 1
San Francisco CA 94111
Generator's Phone:

Generator's Site Address (if different than mailing address)
Duke Realty Foundry LP
7825 San Leandro ST
OAKLAND CA 94621

6. Transporter 1 Company Name: Patriot Environmental Service
U.S. EPA ID Number: CAR000351205

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Altamont Landfill and Resource
10840 Altamont Pass Rd
Livermore CA 94550
Facility's Phone:
U.S. EPA ID Number: CAD 981382732

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS WASTE, Solid Soil and DEBRIS	001	CM	15	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Job # 16980
Profile # 67142 S CA
BIN # PES 15231

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Artur Aguirre OBO Duke realty
Signature: AA OBO Duke realty
Month: 10 Day: 24 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Artur Aguirre
Signature: AA
Month: 10 Day: 24 Year: 25

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: N/C
Signature
Month: 10 Day: 24 Year: 25

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Reprint
Ticket# 1900650

Customer Name PATRIOT ENVIRONMENTAL SERVICE
Ticket Date 10/24/2025
Payment Type Credit Account
Manual Ticket#
Billing # 0390060
Manifest TERRAPHASE OAK
PO 16980
Profile 671425CA (Non-Haz Soil (16980))
Generator DUKE REALTY-7825 DUKE REALTY FOUNDRY LP 7825 SAN LEANDRO ST OAKLAND

Carrier GEN Altamont Generic
Vehicle# YP98183
Container
PATRIOT #P-245
License#

	Time	Scale	Deputy Weighmaster	Inbound		
In	10/24/2025 14:39:53	Scale 3 I	Tyler Canady		Gross	54120 lb
Out	10/24/2025 15:33:47	Scale1 Inb	Tyler Canady		Tare	38720 lb
					Net	15400 lb
					Tons	7.70

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Cover RGC-Tons	100	7.70	Tons				Oakland

Total Tax
Total Ticket

Driver`s Signature

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured,or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

9 P 58163

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC 003358684	1	800-424-9300	Terraphase OAK

GENERATOR

5. Generator's Name and Mailing Address
DUKE REALTY Foundry LP
Pier 1 BAY 1
San Francisco CA 94111
Generator's Phone:

Generator's Site Address (if different than mailing address)
DUKE REALTY Foundry LP
7825 San Leandro ST
OAKLAND CA 94621

6. Transporter 1 Company Name
Patriot Environmental Services
U.S. EPA ID Number
CAR 000351205

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ALTAMONT Landfill and Resource
10840 ALTAMONT Pass Rd
Livermore CA 94550
U.S. EPA ID Number
CAD 981382732
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS WASTE, Solid, Soil AND DEBRIS	002	CM	30	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
JOB # 16980
Profile # 67142SCA
BIN # PES 1532G
BIN # PES 1531O

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Arturo Aguirre ORO DUKE Realty
Signature: AA ORO Duke Realty
Month: 10 Day: 24 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Arturo Aguirre
Signature: AA
Month: 10 Day: 24 Year: 25

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Reprint
Ticket# 1900455

Customer Name PATRIOT ENVIRONMENTAL SERVICE Carrier GEN Altamont Generic
Ticket Date 10/24/2025 Vehicle# YP98183
Payment Type Credit Account Container
Manual Ticket# PATRIOT #P-245
Billing # 0390060 License#
Manifest Terra phase oak
PO 16980
Profile 671425CA (Non-Haz Soil (16980))
Generator DUKE REALTY-7825 DUKE REALTY FOUNDRY LP 7825 SAN LEANDRO ST OAKLAND

Time	Scale	Deputy Weighmaster	Inbound		
In 10/24/2025 09:36:07	Scale 3 I	R Rojas		Gross	72080 lb
Out10/24/2025 10:43:16	Scale1 Inb	R Rojas		Tare	43480 lb
				Net	28600 lb
				Tons	14.30

Comments job#16980

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Cover RGC-Tons	100	14.30	Tons				Oakland

Total Tax
Total Ticket

Driver`s Signature

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured,or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Safety Data Sheet

RUST-OLEUM CORPORATION
* Trusted Quality Since 1921 *
www.rustoleum.com

1. Identification

Product Name: WATERTITE 10-LBS 4PK HYDRAULIC CEMENT

Revision Date: 12/13/2022

Product Identifier: 5071

Supercedes Date: 12/11/2018

Recommended Use: Putty/Water Mix Dry Powder

Supplier:
Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Manufacturer:
Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Preparer: Regulatory Department

Emergency Telephone: 24 Hour Hotline: 847-367-7700

2. Hazards Identification

Classification

Symbol(s) of Product



Signal Word
Danger

Possible Hazards
77% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS

Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Serious Eye Damage, category 1	H318	Causes serious eye damage.
STOT, Single Exposure, category 3, RTI	H335	May cause respiratory irritation.
Carcinogenicity, category 1A	H350	May cause cancer.
STOT, Repeated Exposure, category 1	H372	Causes damage to organs through prolonged or repeated exposure.

GHS LABEL PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	If exposed immediately call a POISON CENTER or doctor/physician.
P321	For specific treatment see label.

P405	Store locked up.
P501	Dispose of contents/container in accordance with local, regional and national regulations.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P362+P364	Take off contaminated clothing and wash it before reuse.

GHS SDS PRECAUTIONARY STATEMENTS

P270	Do not eat, drink or smoke when using this product.
P363	Wash contaminated clothing before reuse.

3. Composition / Information on Ingredients

HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Portland Cement	65997-15-1	25-50	GHS05-GHS07	H315-317-318-335
Quartz	14808-60-7	25-50	GHS08	H350-372
Calcium Sulfate	7778-18-9	2.5-10	GHS07	H332
Calcium Hydroxide	1305-62-0	1.0-2.5	Not Available	Not Available
Crystalline Silica / Quartz	14808-60-7	0.1-1.0	Not Available	Not Available

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. If swallowed, rinse mouth with water. If feeling unwell, get medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. FLASH POINT IS TESTED TO BE GREATER THAN 200 DEGREES F. No unusual fire or explosion hazards noted.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent buildup of steam. If water is used, fog nozzles are preferred.

Special Fire and Explosion Hazard (Combustible Dust): No Information

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Sweep up gently to avoid dust cloud formation.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Keep container closed when not in use. Store in a dry, well ventilated place. Keep container tightly closed when not in use.

Advice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Portland Cement	65997-15-1	45.0	1 mg/m3	N.E.	15 mg/m3	N.E.
Quartz	14808-60-7	30.0	0.025 mg/m3	N.E.	50 µg/m3	N.E.
Calcium Sulfate	7778-18-9	5.0	10 mg/m3	N.E.	15 mg/m3	N.E.
Calcium Hydroxide	1305-62-0	5.0	5 mg/m3	N.E.	15 mg/m3	N.E.
Crystalline Silica / Quartz	14808-60-7	1.0	0.025 mg/m3	N.E.	50 µg/m3	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids. Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Appearance:	Particulate Solid	**Physical State:**	Solid
Odor:	None	**Odor Threshold:**	N.E.
Specific Gravity:	0.377	**pH:**	N.A.
Freeze Point, °C:	N.D.	**Viscosity:**	N.D.
Solubility in Water:	Negligible	**Partition Coefficient, n-octanol/ water:**	N.D.
Decomposition Temp., °C:	N.D.		
Boiling Range, °C:	Not Determined	**Explosive Limits, vol%:**	N.A. - N.A.
Flammability:	Does not Support Combustion	**Flash Point, °C:**	94
Evaporation Rate:	Slower than Ether	**Auto-Ignition Temp., °C:**	N.D.
Vapor Density:	Heavier than Air	**Vapor Pressure:**	N.D.

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

Conditions to Avoid: Avoid contact with strong acid and strong bases.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies. Not applicable for this product. Avoid contact with water.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain: carbon monoxide, carbon dioxide, chlorine, hydrogen chloride, cyanide, and methylene diphenyl diisocyanate.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Irritating, and may injure eye tissue if not removed promptly. May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Low hazard for usual industrial handling or commercial handling by trained personnel. May cause severe irritation. May cause dryness, cracking, irritation, and chemical burns. May produce cement dermatitis due to primary irritation from alkaline, hygroscopic, and abrasive properties.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. Constituents of this product include crystalline silica dust which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

EFFECTS OF OVEREXPOSURE - INGESTION: Expected to be a low ingestion hazard. May cause obstruction in stomach, as it hardens with moisture. Symptoms include stomach pain, distress. Drinking glycerin, gelatin solutions, or large volumes of water may delay the hardening of calcium sulfate in the stomach. Surgical relief of obstruction, particularly at the pylorus, may be necessary.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
14808-60-7	Quartz	6000 mg/kg	N.E.	N.E.
7778-18-9	Calcium Sulfate	>3000 mg/kg Rat	N.E.	N.E.
1305-62-0	Calcium Hydroxide	7340 mg/kg Rat	>2500 mg/kg Rat	N.E.
14808-60-7	Crystalline Silica / Quartz	5500 mg/kg Rat	5500	100 mg/L

N.E. - Not Established

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

13. Disposal Information

DISPOSAL: Dispose of material in accordance to local, state, and federal regulations and ordinances.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	N.A.	N.A.	N.A.	N.A.
Proper Shipping Name:	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Hazard Class:	N.A.	N.A.	N.A.	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	No	No	No	No

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

Toxic Substances Control Act

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

California Proposition 65

WARNING: Cancer - www.P65Warnings.ca.gov.

16. Other Information

HMIS RATINGS

Health:	2*	**Flammability:**	0	**Physical Hazard:**	0	**Personal Protection:**	X

NFPA RATINGS

Health:	2	**Flammability:**	0	**Instability:**	0

Volatile Organic Compounds: 0 g/L

SDS REVISION DATE: 12/13/2022

REASON FOR REVISION: Substance and/or Product Properties Changed in Section(s):
03 - Composition / Information on Ingredients
09 - Physical & Chemical Properties
11 - Toxicological Information
15 - Regulatory Information
Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



Photograph 1:

Pit 2 before liquid removal

Date: April 3, 2025



Photograph 2:

Pit 2 before sediment cleanout

Date: June 6, 2025

terraphase engineering

Client: Prologis

Project: AB&I Redevelopment Site 7825 San Leandro Street, Oakland California

Project Number: 0172.033.016

Photo Log



Photograph 3:

Pit 2 after sediment cleanout

Date: August 21, 2025



Photograph 4:

Pit 2 after being filled with Cell-Crete

Date: September 18, 2025



Photograph 5:

Pit 3 before liquid removal

Date: April 3, 2025



Photograph 6:

Pit 3 during sediment cleanout

Date: August 7, 2025



Photograph 7:

Pit 3 after sediment cleanout

Date: August 20, 2025



Photograph 8:

Pit 3 after being filled with Cell-Crete

Date: September 18, 2025



Photograph 9:

Pit 4 before liquid and sediment removal

Date: July 24, 2025



Photograph 10:

Pit 4 after liquid and sediment removal

Date: August 18, 2025



Photograph 11:

Pit 4 after hole patching by ICS.

Date: August 21, 2025



Photograph 12:

Pit 4 after being filled with Cell-Crete

Date: September 18, 2025



Photograph 13:

Pit 5 before liquid and sediment removal, including algae growth on surface

Date: July 24, 2025



Photograph 14:

Pit 5 after liquid removal

Date: August 6, 2025



Photograph 15:

Pit 5 after sediment cleanout and hole patching

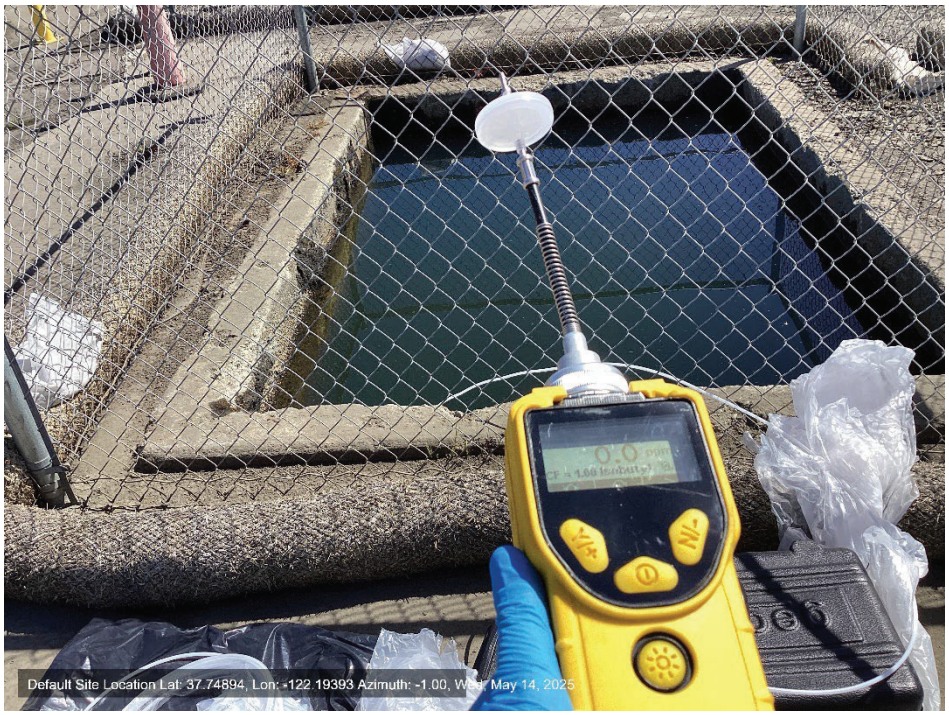
Date: August 18, 2025



Photograph 16:

Pit 5 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 17:

Pit 6 before liquid and sediment removal

Date: May 14, 2025



Photograph 18:

Pit 6 during sediment removal

Date: May 14, 2025



Photograph 19:

Pit 6 after liquid and sediment removal

Date: August 18, 2025



Photograph 20:

Pit 6 after hole patching

Date: August 21, 2025



Photograph 21:

Pit 6 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 22:

Pit 7 before sediment removal, including algae on the surface

Date: June 6, 2025



Photograph 23:

Pit 7 after sediment removal. Including location of corroded pipe where soil sample was collected from exposed soil below the pit bottom

Date: September 17, 2025



Photograph 24:

Pit 7 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 25:

Pit 8 before sediment removal

Date: August 04, 2025



Photograph 26:

Pit 8 after sediment removal

Date: August 18, 2025



Photograph 27:

Pit 8 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 28:

Pit 9 before liquid and sediment removal

Date: August 04, 2025



Photograph 29:

Pit 9 after sediment removal and rinsing

Date: September 17, 2025



Photograph 30:

Pit 9 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 31:

Pit 10 before sediment removal, including algae and vegetation growth

Date: August 04, 2025



Photograph 32:

Pit 10 after sediment removal and rinsing

Date: August 15, 2025



Photograph 33:

Pit 10 after being filled with Cell-Crete

Date: September 18, 2025



Photograph 34:

Pit 11 before sediment removal and rinsing

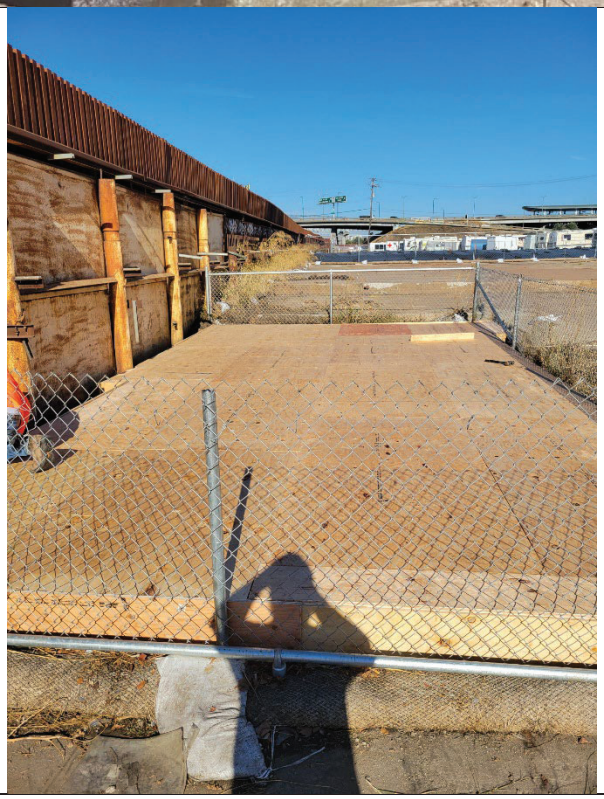
Date: May 9, 2025



Photograph 35:

Pit 11 after sediment removal and rinsing

Date: August 19, 2025



Photograph 36:

Pit 11 after being covered

Date: October 17, 2025



Photograph 37:

Pit 12 before sediment cleanout.

Date: June 6, 2025



Photograph 38:

Pit 12 after attempted sediment cleanout, including metal debris. Pit 12 remains open pending further investigation.

Date: August 21, 2025



Photograph 39:

Pit 13 before sediment removal

Date: August 04, 2025



Photograph 40:

Pit 13 after sediment removal and rinsing

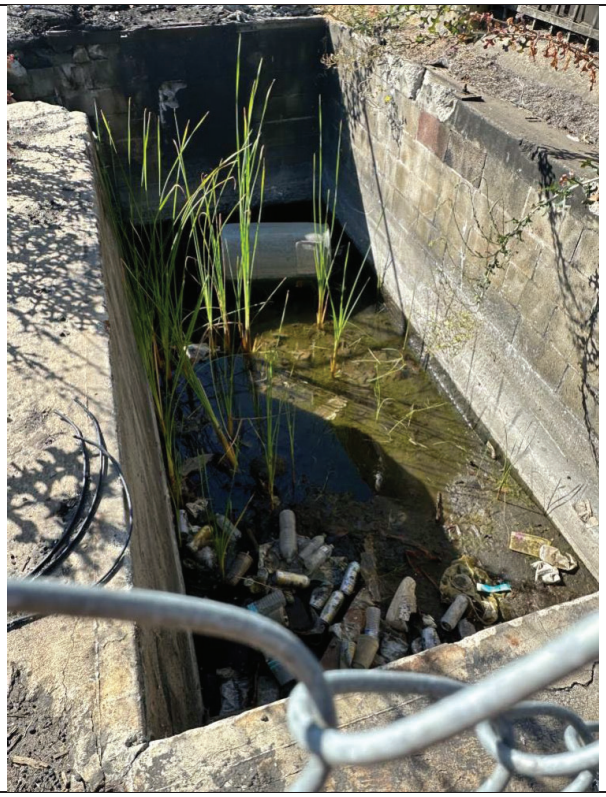
Date: September 17th, 2025



Photograph 41:

Pit 13 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 42:

Pit 14 before sediment removal, including vegetation

Date: August 04, 2025



Photograph 43:

Pit 14 after sediment cleanout and hole patching

Date: August 20, 2025



Photograph 44:

Pit 14 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 45:

Pit 15 before sediment removal

(Pits 14 and 15 are connected)

Date: July 24, 2025



Photograph 46:

Pit 15 after sediment removal.

Date: August 20, 2025



Photograph 47:

Pit 15 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 48:

Pit 17 before sediment removal

Date: June 6, 2025



Photograph 49:

Pit 17 after sediment removal and rinsing

Date: September 18, 2025



Photograph 50:

Pit 17 after being filled with Cell-Crete.

Date: September 18, 2025



Photograph 51:

Pit 18 before sediment removal

Date: May 9, 2025



Photograph 52:

Pit 18 during sediment removal

Date: August 20, 2025



Photograph 53:

Pit 18 after being filled with Cell-Crete to the extent possible.

Date: September 18, 2025



Photograph 54:

Sediment around Sump 19 which was sampled on May 9, 2025, and containerized into drums on June 13, 2025

Date: May 9, 2025



Photograph 55:

Pit 19 after installation of the engineered cover

Date: October 17, 2025



Photograph 56:

Pit 19 after installation of the engineered cover

Date: October 17, 2025



Photograph 57:

Representative photo of surface sediment that was swept and containerized

Date: June 13, 2025

Attachment D

Recharge Rate Calculations

Off-site Disposal of Liquid and Sediment, Evaluation of Integrity of Pits & Sumps, and Filling/Covering the Pits & Sumps

Prologis - AB&I

Pits	Approximate Recharge (inches)	Time Elapsed (hours)	Width (feet)	Length (feet)	Recharge Volume (cubic feet)	Recharge Volume (gallons)	Recharge Rate (gallon / minute)
4/5	3	20	7	10	17.5	131	0.11
8	3	20	7	11	19.25	144	0.12
14	3	20	7	11	19.25	144	0.12
15	3	20	5	14	17.5	131	0.11

Average Recharge Rate **0.11**

SPECIALTY CONCRETE CONTRACTORS
CELL-CRETE
CORPORATION

Permeable Lightweight Cellular Concrete– Submittal



Permeable Cellular Concrete Closeup

Table of Contents

Mix Design Data 3
Materials Data/SDS 7
Qualifications 29
Equipment 34
Quality Control and Daily Report 38
Technical Bulletin and ASTM 56

Mix Design Data



China Basin Park (San Francisco, CA)

NORTHERN CALIFORNIA
CELL-CRETE CORPORATION
"We Pour It On"
995 Zephyr Avenue * Hayward CA 94544
(510) 471-7257
Fax (510) 471-6426
CA. LIC. #243404 NV. LIC. #10689 UT. LIC. #4835096-5501 AZ. LIC. #104888 OR. LIC. #162815
WA. LIC. #CC955 CM HI. LIC. #CT25517 AK. LIC. #29473 MT. LIC. #150158 ID. LIC. #15168-A-4(9)

CELLULAR CONCRETE MIX DESIGN

MIX DESIGN DESIGNATION:	PCCC 25-50
CAST DENSITY (pcf):	25.00
WATER/CEMENT RATIO:	0.50
FOAM TYPE & LOT #:	AQUAERiX
FOAM/AIR VOLUME:	1.05
FOAM DENSITY (PCF):	2.00
FOAM RATE (CFM):	32.00
QUANTITY OF CEMENT(lbs.):	421.37
DESIGN STRENGTH (psi)	20+

PURPOSE **Permeable Cellular Concrete**

Mix Component	lb/CY	Specific Gravity	Density, lbs/ft3	Absolute Vol. (ft^3)
Potable Water	210.7	1.0	62.4	3.38
Portland Cement (ASTM C150)	421.4	3.1	196.5	2.14
Foam (ASTM 796-97, 869)	42.9	0.03	2.0	21.47
Total =	**675.0**		**25.0**	**27.00**

NOTE: This mix design complies with information provided to us. It is the responsibility of the purchaser to determine if the mix meets project requirements. Alteration to the mix may affect plastic and hardened characteristics including, but not limited to, water/cement ratio, strength and color. Cell-Crete Corp. has no knowledge of or involvement in site preparation. Cell-Crete accepts no responsibility for environmental and soil conditions at the specific location where concrete is to be placed or performance of in-place concrete related to vapor transmission.

Aerix Industries™
Advanced Engineered Foam Solutions

July 14th, 2023

Mr. Diego Villegas
Cell-Crete Corporation
135 E. Railroad Avenue
Monrovia, CA 91016

Subject: Certification as an Aerix Industries Approved Installer

Dear Mr. Villegas,

Please be advised that Cell-Crete Corporation is a recognized and approved installer for installing low-density cellular concrete (LDCC) made with foam concentrate manufactured by Aerix Industries. Cell-Crete has the knowledge, equipment, expertise, and personnel necessary to successfully install LDCC and permeable LDCC in the many diverse and highly specialized applications. Cell-Crete's level of expertise is elevated through regular engagement in production and placement.

Aerix Industries Foam Liquid Concentrates meet the requirements of ASTM C869, "Standard Specification for Foaming Agents Used in Making Preformed Foam for Cellular Concrete", when tested following ASTM C796, "Standard Test Method for Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam".

Aerix Industries has provided foaming agents and foam generating equipment to the construction industry since the 1940s. Our technical staff is actively engaged in the industry standards-setting of technical societies.

If you require more information, please feel free to contact us with any questions.

Sincerely:

Joseph J. Feiler
Director of Engineering and R&D
AERIX INDUSTRIES

Materials Data/SDS



OR99 Urban Upgrade (Cottage Grove, OR)

MATERIAL SAFETY DATA SHEET

Synthetic Concrete Foam

Section 1: CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Product: AQUAERiX™ Foam Liquid Concentrate
Synonyms: Synthetic Detergent
CAS No: Mixture – No single CAS No. applicable

Company Identification

Aerix Industries™
7020 Snowdrift Road
Allentown, PA 18106

Telephone No.: 610.398.7833
Emergency Telephone No.: 888.235.5015

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.
Water	7732-18-5
2-Methoxymethylethoxy Propanol	34590-94-8
Proprietary mixture of synthetic detergents	No single CAS# applicable

Section 3: HAZARDS IDENTIFICATION

Eye Contact
Product is an eye irritant
Carcinogenicity
No data available
Inhalation
No data available
Skin contact
Contact with liquid may cause moderate irritation or dermatitis due to removal of oils from the skins

Section 4: FIRST AID MEASURES

Section 5: FIRE FIGHTING MEASURES

Not flammable under normal conditions of use. Avoid Contact with reactive material, burning metals, and electrical energized equipment. Use extinguishing media appropriate for surrounding materials. This product will foam when mixed with water. Self contained breathing apparatus (SCBA) and full protective equipment recommended when fire fighting.

Section 6: ACCIDENTAL RELEASE MEASURES

Stop flow if possible. Use appropriate protective equipment during clean up. For any releases, collect spilled concentrate with absorbent material; place in approved container and disposed. Disposal should be made in accordance with federal, state, and local regulations. Prevent discharge of concentrate to waterways.

Section 7: HANDLING AND STORAGE

Recommended storage environment is between 35ºF (2ºC) and 120ºF (49ºC). Store product in original shipping container or containers designed for product storage.

Section 8: EXPOSURE CONTROLS

Exposure Limits
(2-Methoxymethylethoxy) Propanol (4590-94-8)

PEL (OSHA)	TLV (ACGIH)
100ppm, 8hr TWA Skin	100ppm, 8hr TWA Skin
150ppm, 15min STEL Skin	150ppm, 15min STEL Skin

Personal Protective Equipment
Safety glasses, face shield, or chemical splash goggles must be worn when possibility exist for eye contact. Contact lenses should not be worn. Rubber or PVC gloves recommended. Wash hands before eating, drinking, smoking, or using the toilet facilities. Promptly remove soiled clothing and wash thoroughly before re-use.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point:	Not applicable	Specific Gravity @ 25ºC:	1.04
Vapor Pressure:	Not Applicable	Freezing Point :	Not applicable
Vapor Density:	Not Applicable	pH:	7.5
Melting Point:	Not Applicable	Odor:	Bland
Evaporation Rate:	< (Butyl Acetate = 1.0)	Form:	Liquid
		Color:	Yellow

Section 10: STABILITY AND REACTIVITY

Avoid use of product on burning metals, electrically energized equipment, and contact with water reactive materials. The chemical is stable and will not polymerization.

Section 11: TOXICOLOGICAL INFORMATION

This product has not been tested as a whole for acute oral and inhalation toxicity, primary eye irritation, or primary skin irritation.

Section 12: ECOLOGICAL INFORMATION

BOD_5	No data available
COD	No data available

Section 13: DISPOSAL CONSIDERATION

This product is not RCRA-listed waste or hazardous waste as characterized by 40 CFR 261. However, state and local requirements for waste disposal may be more restrictive or otherwise different from Federal regulations. Therefore, applicable state and local regulatory agencies should be contacted regarding disposal of material.

Do not discharge into biological sewer treatment systems without prior approval. Specific concerns may be high BOD load and foaming tendency. Dilution will reduce BOD and COD factors proportionately. Low dosage flow rate or antifoaming agents acceptable to the treatment plant may be helpful.

Section 14: TRANSPORTATION INFORMATION

Shipping Class:	55
Hazard Class:	None
UN Number:	None

Safety Data Sheet

Portland Cement

Section 1. Identification

Product identifier:	Portland Cement
Other means of identification:	Cement, hydraulic cement CEMEX Type I CEMEX Type II CEMEX Type I/II CEMEX Type III CEMEX Type II/V CEMEX Type V CEMEX Type IA CEMEX Type I/II Low Alkali CEMEX Type II Low Alkali CEMEX Type III Low Alkali CEMEX Type V Low Alkali CEMEX Type II/V Low Alkali CEMEX Class A CEMEX Class C CEMEX Class H White Cement
Chemical name:	Calcium compounds, calcium silicate compounds, and other calcium compounds containing iron and aluminum make up the majority of this product.
Relevant Uses:	Building materials, construction application, a basic ingredient in concrete.
Manufacturers Name:	CEMEX
Address:	929 Gessner Road, Suite 1900 Houston TX, 77024 T Customer Care 1-800-99-CEMEX
Emergency telephone number:	CHEMTREC: 1-800-424-9300

Section 2. Hazards Identification

OSHA/HCS status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Category Classification(s):	SKIN CORROSION/IRRITATION - Category 1 EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY/INHALATION - Category 1

GHS label elements:

Hazard pictograms:



GHS05 GHS07 GHS08

Signal word:	Danger
Hazard statements:	Causes severe skin burns and eye damage May cause an allergic skin reaction Causes serious eye damage May cause cancer (Inhalation, Dermal).

Precautionary Statements:	Obtain special instructions before use Do not handle until all safety precautions have been read and understood Do not breathe dust Wash clothing, face, hands thoroughly after handling Contaminated work clothing must not be allowed out of the workplace Wear eye protection, protective clothing, protective gloves If swallowed: rinse mouth. Do NOT induce vomiting If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower If inhaled: Remove person to fresh air and keep comfortable for breathing If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If exposed or concerned: Get medical advice/attention Immediately call a doctor Specific treatment (see Section 4 on this label) If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse Wash contaminated clothing before reuse Dispose of contents/container to comply with local/regional/national regulations
Other Hazards:	Trace amounts of naturally occurring chemicals might be detected during chemical analysis. Trace constituents may include up to 0.75% insoluble residue, some of which may be free Quartz (crystalline silica), calcium oxide (Also known as lime or quick lime), magnesium oxide, potassium sulfate, sodium sulfate, chromium compounds, and nickel compounds.

Section 3. Composition / Information on Ingredients

Substance/mixture:	Portland Cement - mixture
Chemical name:	Calcium compounds; calcium silicates and calcium oxides make up the majority of this product – calcium compounds can contain small amounts or iron and aluminum.

Ingredient Name	% Content	CAS number
Portland Cement Clinker	81 - 96	65997-15-1
Gypsum	4 - 9	7778-18-9
Limestone	0 - 5	1317-65-3
Granulated Blast Furnace Slag	0 - 5	65996-69-2
Kiln Bag House Dust	0 – 5	69012-63-1
Lime Kiln Dust	0 – 2	1305-78-8
Quartz (crystalline silica)	0 - 0.1	14808-60-7
Hexavalent chromium*	*	18450-29-9

Any concentration shown as a range is to protect confidentiality or is due to process variation.

*Hexavalent chromium is included due to dermal sensitivity associated with the component.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First-Aid Measures

Description of necessary first aid measures:

General:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

	any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
Inhalation:	Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of Portland Cement requires immediate medical attention. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Skin contact:	Get medical attention immediately. Heavy exposure to Portland Cement dust, wet concrete or associated water requires prompt attention. Quickly remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Quickly and gently blot or brush away excess Portland Cement. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement. Burns should be treated as caustic burns.
Ingestion:	Get medical attention immediately. Call a poison center or physician. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Have victim drink 60 to 240 mL (2 to 8 oz.) of water. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Potential symptoms and effects from acute exposures (delayed or immediate):

Eye contact:	Causes serious eye damage.
Inhalation:	May cause respiratory irritation.
Skin contact:	Causes severe burns. Discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly by a physician. May cause an allergic skin reaction.
Ingestion:	Not expected to be a significant route of entry. May cause burns to mouth, throat and stomach.

Potential symptoms and effects from over-exposures:

Eye contact:	Adverse symptoms may include the following: pain, watering and redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation and coughing
Skin contact:	Adverse symptoms may include the following: pain or irritation, redness and blistering may occur, skin burns, ulceration and necrosis may occur
Ingestion:	Adverse symptoms may include the following: stomach pains

Recommendations for immediate medical attention / treatment:

If large quantities have been Ingested or inhaled:	Seek medical treatment and contact poison treatment specialist immediately.
Notes to physician:	Treat symptomatically.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing media:	Non-flammable. Use an extinguishing agent suitable for the surrounding fire.
Specific hazards arising from the chemical:	No specific fire or explosion hazard.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides and metal oxide/oxides products:
Special protective actions for firefighters:	Evacuate area. Fight fire with normal precautions from a reasonable distance. Move containers from fire area if this can be done without risk.
Special protective equipment for fire-fighters:	Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For personal protective clothing requirements, please see Section 8.

For non-emergency personnel:	Evacuate area, if necessary. Contact emergency personnel, if needed. Do not breathe dust. Stay upwind.
For emergency responders:	Evacuate surrounding areas if necessary. Keep unnecessary and unprotected personnel from entering. Do not breathe dust. Provide adequate ventilation.
Environmental precautions:	Avoid release to the environment. Contain the spill to avoid the discharge of spilled material into drains, surface waters and/or groundwater. If the spilled material enters any drainage systems, surface waters and/or groundwater, follow all applicable local, state and federal laws and regulations for additional clean-up and/or reporting requirements.

Methods and materials for containment and cleaning up

Small and large spills:	Wear appropriate personal protective equipment as described in Section 8 for cleaning, containing and removing the spill. Minimize generation of dust. For small spills, clean with a vacuum with a filtration system sufficient to remove and prevent recirculation of cement dust (a vacuum equipped with a high-efficiency particulate air (HEPA) filter is recommended). For large spills, use control dust measures and carefully scoop or shovel into clean dry container for later reuse or disposal. DO NOT USE COMPRESSED AIR TO CLEAN SPILLS. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Advice on general	Eating, drinking and smoking should be prohibited in areas where this material is handled,

occupational hygiene:	stored and processed. Workers should wash hands and face before eating, drinking and smoking.
Conditions for safe storage, including any incompatibilities:	A key to using the product safely requires the user to recognize that Portland Cement reacts chemically with water to produce calcium hydroxide which can cause severe chemical burns. Every attempt should be made to avoid skin and eye contact with cement. Do not get Portland Cement inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain against the skin. Promptly remove clothing and shoes that are dusty or wet with cement mixtures. Launder/clean clothing and shoes before reuse. Do not enter a confined space that stores or contains Portland Cement unless appropriate procedures and protection are available. Portland Cement can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment)

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient name	Exposure limits
Portland Cement Clinker	ACGIH TLV (United States, 3/2012). TWA: 1 mg/m^3 8 hours. Form: Respirable NIOSH REL (United States, 6/2009). TWA: 5 mg/m^3 10 hours. Form: Respirable TWA: 10 mg/m3 10 hours. Form: Total OSHA PEL (United States, 6/2010). TWA: 5 mg/m^3 8 hours. Form: Respirable TWA: 15 mg/m^3 8 hours. Form: Total
Quartz (crystalline silica)	ACGIH TLV (United States, 3/2012). TWA: 0.025 mg/m^3 8 hours. Form: Respirable NIOSH REL (United States, 6/2009). TWA: 0.05 mg/m^3 8 hours. Form: Respirable OSHA PEL Z-3 (United States, 9/2005). TWA: 10mg/m^3 divided by %SiO2 + 2: Respirable TWA: 30mg/m^3 divided by %SiO2 + 2: Total
Limestone	ACGIH TLV (United States, 3/2012). TWA: 10 mg/m^3 8 hours. Form: Total NIOSH REL (United States, 6/2009). TWA: 5 mg/m^3 10 hours. Form: Respirable TWA: 10 mg/m^3 10 hours. Form: Total Dust OSHA PEL (United States, 6/2010). TWA: 5 mg/m^3 8 hours. Form: Respirable TWA: 15 mg/m^3 8 hours. Form: Total dust
Gypsum	ACGIH TLV (United States, 3/2012) TWA: 10 mg/m^3 8 hours. Form: Respirable NIOSH REL (United States, 6/2009) TWA 5 mg/m^3 8 hours. Form: Respirable TWA 10 mg/m^3 8 hours. Form: Total OSHA PEL Z-1 (United States, 2/2006) TWA 5 mg/m^3 8 hours. Form: Respirable TWA 15 mg/m^3 8 hours. Form: Total
Particulates Not Otherwise Regulated (Total Dust)	ACGIH TLV (United States, 3/2012) TWA: 3 mg/m^3 8 hours. Form: Respirable TWA: 10 mg/m^3 8 hours. Form: Total dust OSHA PEL (United States, 6/2010). TWA: 5mg/m^3 8 hours. Form: Respirable TWA: 15 mg/m^3 8 hours. Form: Total dust

Controls

Appropriate engineering controls:	Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Hygiene

Wash	Clean water should always be readily available for skin and (emergency) eye washing. Periodically wash areas contacted by Portland Cement with a pH neutral soap and clean, uncontaminated water. If clothing becomes saturated with Portland Cement, garments should be removed and replaced with clean, dry clothing. Remove protective equipment and saturated clothing before entering eating areas.

PPE

Eye/face protection:	To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields when handling dust or wet cement. Wearing contact lenses when working with cement is not recommended.
Hand protection:	Use impervious, waterproof, and alkali-resistant gloves. Do not rely on barrier creams in place of impervious gloves. Do not get Portland Cement inside gloves. Recommended material: Nitrile®
Body protection:	Use impervious, waterproof, abrasion and alkali-resistant boots and protective long-sleeved and long- legged clothing to protect the skin from contact with wet Portland Cement. To reduce foot and ankle exposure, wear impervious boots that are high enough to prevent Portland Cement from getting inside them. Do not get Portland Cement inside boots, shoes, or gloves. Remove clothing and protective equipment that becomes saturated with cement and immediately wash exposed areas of the body.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. Footwear and other gear to protect the skin should be approved by a specialist before handling this product.
Respiratory protection:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and assigned protection factor of the selected respirator.

Section 9. Physical and Chemical Properties

Physical State:	Solid. [Powder.]
Color:	Gray or white.
Odor:	Odorless.
Odor threshold:	Not available.
pH (in water):	12 - 13
Melting point:	Not available.

Lower and upper explosive (flammable) limits:	Not applicable.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative density:	2.7 to 3.15
Solubility:	Slightly soluble in water.
Solubility in water:	0.1 to 1%

Boiling point:	>1000°C (>1832°F)	Partition coefficient: n-octanol/water:	Not applicable.
Flash point:	Not flammable. Not combustible.	Auto-ignition temperature:	Not applicable.
Burning time:	Not available.	Decomposition temperature:	Not available.
Burning rate:	Not available.	SADT:	Not available.
Evaporation rate:	Not applicable.	Viscosity:	Not applicable.
Flammability (solid, gas):	Not applicable.		

Section 10. Stability and Reactivity

Reactivity: Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt. Portland Cement is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas — silicon tetrafluoride.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Toxicological Effects

Acute toxicity: Portland Cement LD50/LC50 = Not available

Irritation/Corrosion: Skin: May cause serious burns in the presence of moisture.
Eyes: Causes serious eye damage. May cause burns in the presence of moisture.
Respiratory: May cause respiratory tract irritation.

Sensitization: May cause sensitization due to the potential presence of trace amounts of hexavalent chromium.

Mutagenicity: Not classified.

Reproductive toxicity: Not classified.

Teratogenicity: Not classified.

Aspiration hazard: Not classified.

Carcinogenicity Classification:

Ingredient	OSHA	IARC	ACGIH	NTP
Portland Cement Clinker	–	–	A4	–

Quartz (crystalline silica)	–	1	A2	Known to be a human carcinogen.

Specific target organ toxicity (single exposure): Product Not Classified

Ingredient	Category	Route of Exposure	Target Organs
Quartz (crystalline silica)	Category 3	Inhalation	Respiratory tract irritation

Specific target organ toxicity (repeated exposure): Product Not Classified

Ingredient	Category	Route of Exposure	Target Organs
Quartz (crystalline silica)	Category 2	Inhalation	Respiratory tract and kidneys

Routes of exposure - Dermal contact, Eye contact, Inhalation, and Ingestion.

Potential acute health effects:

Eye contact: Causes serious eye damage.
Inhalation: May cause respiratory irritation.
Skin contact: Causes severe burns. May cause an allergic skin reaction.
Ingestion: May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact: Adverse symptoms may include the following: pain, watering, redness
Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing
Skin contact: Adverse symptoms may include the following: pain or irritation, redness, blistering may occur, skin burns, ulcerations and necrosis may occur
Ingestion: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.

Long term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects:

General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: Quartz (crystalline silica) is considered a hazard by inhalation. IARC has classified Quartz (crystalline silica) as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to Quartz (crystalline silica) can cause silicosis, a non-cancerous lung disease.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity: There are no data available - acute toxicity estimates.

Section 12. Ecological

Toxicity

Persistence and degradability: There are no data available.

Bioaccumulation potential: There are no data available.

Mobility in soil:	Soil/water partition coefficient (Koc): Not available.
Other adverse effects:	No known significant effects or critical hazards.
Ecotoxicity:	No recognized unusual toxicity to plants or animals

Section 13. Disposal Considerations

Disposal methods: Salvage spilled cement material where possible. Uncontaminated cement material may be reused. Dispose of waste material in accordance with local, state and federal laws and regulations.

Section 14. Transport Information

Special precautions for user: spillage. Ensure that persons transporting the product know what to do in the event of an accident or

Transport in bulk according to Annex II of MARPOL 73/ 78 and the IBC Code: Not Regulated.

Transport Parameters	DOT Classification	IMDG	IATA
UN Number	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	-	-	-
Transport Hazard Class	-	-	-
Packing Group	-	-	-
Environmental Hazard	None	None	None
Additional Information	-	-	-

Section 15. Regulatory Information

Status under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200
This product is considered a "hazardous chemical" under this regulation, and should be part of any hazard communication program.

Status under CERCLA/SUPERFUND 40 CFR 117 and 302
Not listed.

Hazard Category under SARA(Title III), Sections 311 and 312
This product qualifies as a "hazardous substance" with delayed health effects.

Status under SARA (Title III), Section 313
This cement product does not contain Emergency Planning and Community Right to Know (EPCRA") Section 313 chemicals in excess of the applicable de minimis concentration specified in EPCRA Section 313 Section 372.38(a). Trace amounts of naturally occurring chemicals might be detected during chemical analysis.

Status under TSCA (as of May 1997)
The ingredients of this product are listed on the TSCA inventory or are exempt.

Status under the Federal Hazardous Substances Act
This product is a "hazardous substance" subject to statutes promulgated under the subject act.

Status under California Proposition 65
This product contains up to 0.05 percent of chemicals (trace elements) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the manufacturer to give the above warning in the absence of definitive testing to prove that the defined risks do not exist.

State Right to Know:
Portland Cement Clinker (65997-15-1)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Washington - Permissible Exposure Limits - TWAs

Quartz (crystalline silica) (14808-60-7)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Washington - Permissible Exposure Limits - TWAs

Gypsum (7778-18-9)
U.S. - New Jersey - Right to Know Hazardous Substance List

Limestone (1317-65-3)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Washington - Permissible Exposure Limits - TWAs

Section 16. Other Information

Approval or Revision History

Date of issue (mm/dd/yyyy):	July 1998
Revision:	April 2011 (Michael Tilton)
Revison:	May 2015 - Revised Section(s) per HCS-GHS

Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of Portland Cement as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Portland Cement to produce Portland Cement products. Users should review other relevant material safety data sheets before working with this Portland Cement or working on Portland Cement products, for example, Portland Cement concrete.

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY CEMEX, Inc. except that the product shall conform to contracted specifications. The information provided herein was believed by CEMEX to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Portland Cement to produce Portland Cement products. Users should review other relevant safety data sheets before working with Portland Cement or working on Portland Cement products, for example, Portland Cement concrete.

Abbreviations

ACGIH — American Conference of Governmental Industrial Hygienists
CAS — Chemical Abstract Service
CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act
CFR — Code of Federal Regulations DOT — Department of Transportation
GHS – Globally Harmonized System Globally Harmonized System
HEPA - High Efficiency Particulate Air
IATA — International Air Transport Association
IARC — International Agency for Research on Cancer
IMDG — International Maritime Dangerous Goods

Safety Data Sheet

NIOSH — National Institute of Occupational Safety and Health
NOEC — No Observed Effect Concentration
NTP — National Toxicology Program
OSHA — Occupational Safety and Health Administration
PEL — Permissible Exposure Limit
REL — Recommended Exposure Limit RQ — Reportable Quantity
SARA — Superfund Amendments and Reauthorization Act
SDS — Safety Data Sheet
TLV — Threshold Limit Value
TPQ — Threshold Planning Quantity
TSCA — Toxic Substances Control Act
TWA — Time-Weighted Average
UN — United Nations

PORTLAND CEMENT
CERTIFICATE OF COMPLIANCE

CERTIFICATION OF CEMENT SHIPPED FROM: **CEMEX Construction Materials Pacific LLC**
Victorville, CA

CEMENT TYPE: **Portland Cement Type II and Type V**

I hereby certify that all of the cement shipped from the above location complies with all applicable requirements of the following specifications:

ASTM C1157-11 Type GU Hydraulic Cement,
ASTM C150-21 Type I, Type II, and Type V,
AASHTO M 85 Type I, Type II, and Type V,
Arizona Department of Transportation
Standard Specification 1006-2.01 Hydraulic Cement,
California Department of Transportation
Standard Specification Section 90-1.02B(2) Portland Cement (2010-2021)
and
Nevada DOT Specification 701.03.01

Reference Number: 45107

Date Shipped: 6/16/2023 through 6/22/2023

Quantity: As Required

James W. Martin
Quality Control Manager

CEMEX – Victorville Plant, 16888 North E. Street, Victorville, CA 92394 Ph: (760) 381-7632

4200 E Jurupa St.
Suite 312
Ontario, CA 91761
Telephone (909) 974-5469
FAX (909) 974-5525

CEMENT MILL TEST REPORT

Cement Identified as: **Date:** 6/30/2023

Plant: Cemex Construction Materials Pacific LLC

Location: Victorville, CA **Prod dates:** **Beginning:** 6/16/2023 **Ending:** 6/22/2023 **Ref . No** 45107

STANDARD CHEMICAL REQUIREMENTS (ASTM C114)	ASTM C150 / AASHTO M 85 SPECIFICATIONS	TYPE I	TYPE II	TYPE V	TEST RESULTS
Silicon Dioxide (SiO2), %	Minimum	----	----	----	19.9
Aluminum Oxide (Al2O3), %	Maximum	----	6.0	----	4.0
Ferric Oxide (Fe2O3), %	Maximum	----	6.0	----	3.8
Calcium Oxide (CaO), %		----	----	----	61.9
Magnesium Oxide (MgO), %	Maximum	6.0	6.0	6.0	4.4
Sulfur Trioxide (SO3), % **	Maximum	3.0	3.0	2.3	3.3
Loss on Ignition (LOI), %	Maximum	3.5	3.5	3.5	2.1
Insoluble Residue, %	Maximum	1.5	1.5	1.5	0.63
Sodium Oxide (Na2O), %		----	----	----	0.26
Potassium Oxide (K2O), %		----	----	----	0.41
Equivalent Alkalies (Na2O+.658K2O), %	Maximum	0.60	0.60	0.60	0.53
CO2(%)		----	----	----	1.0
Limestone (%)	Maximum	5.0	5.0	5.0	2.6
CaCO3 in limestone	Minimum	70.0	70.0	70.0	74.7
Inorganic addition	Maximum	5.0	5.0	5.0	1.4
Tricalcium Silicate (C3S), %	Maximum	----	----	----	56
Dicalcium Silicate (C2S), %		----	----	----	14
Tricalcium Aluminate (C3A), %	Maximum	----	8	5	4
Tetracalcium Aluminoferrite (C4AF), %		----	----	----	11
Heat Index (C3S + 4.75C3A)	Maximum		100		76
(C4AF + 2C3A) or (C4AF + C2F), %	Maximum	----	----	25	20
PHYSICAL REQUIREMENTS					
Heat of Hydration (ASTM C1702)	Informational data only				
7 days, kj/kg (cal/g)	Most recent value				301(72.4)
(ASTM C204) Blaine Fineness, cm^2/gm	Minimum	2600	2600	2600	4002
(ASTM C430) -325 Mesh, %		----	----	----	95
(ASTM C191) Time of Setting (Vicat)					
Initial Set, minutes	Minimum / Maximum	45 / 375	45 / 375	45 / 375	111
Final Set, minutes		---	---	---	264
(ASTM C451) False Set, %	Minimum	50	50	50	89
(ASTM C185) Air Content, %	Maximum	12	12	12	7.0
(ASTM C151) Autoclave Expansion, %	Maximum	0.80	0.80	0.80	0.01
(ASTM C87) Normal Consistency, %		----	----	----	26
(ASTM C1038) Expansion in Water %	Maximum	0.020	0.020	0.020	0.001
(ASTM C109) Compressive Strength, psi (MPa)					
1 Day		----	----	----	2250(15.5)
3 Day	Minimum	1740(12.0)	1450(10.0)	1160(8.0)	4020(27.7)
7 Day		2760(19.0)	2470(17.0)	2180(15.0)	4920(33.9)
28 Day (strength for Ref. No. 45079)	Minimum			3050(21.0)	6020(41.5)

*** The performance of CEMEX Type II, Type V has proven to be improved with sulfur trioxide levels in excess of the 2.3% limit for Type V. Note D in ASTM C150 allows for additional sulfate, provided expansion as measured by ASTM C1038 does not exceed 0.020%.*

CEMEX hereby certifies that this cement meets or exceeds the chemical and physical Specifications of:

ASTM C150-21 Type I, Type II, and Type V Low Alkali portland cements
ASTM C1157-20 Type GU Hydraulic Cement
AASHTO M 85-20 Type I, Type II, and Type V Low Alkali portland cements
CalTrans, Section 90-2.01 T II Modified and Type V (2006)
CalTrans, Section 90-1.02B (2) (2010-2020)
Arizona DOT Standard Specification 1006-2.01 Hydraulic Cement
Nevada DOT Specification 701.03.01
C465 qualification data will be made available upon request

By:
Quality Control Manager
CEMEX - Victorville Cement Plant
16888 North "E" St., 'Victorville, CA 92394

4200 E Jurupa Street
Suite 312
Ontario, CA 91761
Telephone (909) 974-5469
FAX (909) 974-5525

CEMENT MILL TEST REPORT

Cement Identified as: **Date:** **6/30/2023**

Plant: Cemex Construction Materials Pacific LLC
Location: Victorville, CA
Production Dates:

Beginning	**June 16, 2023**	**Reference No.**	**45107**
Ending	**June 22, 2023**		

Additional Data

Inorganic and Limestone Addition

Inorganic Addition		Limestone Addition	
Amount (%)	1.36	Amount (%)	2.6
SiO2 (%)	13.92	SiO2 (%)	4.41
Al2O3 (%)	3.74	Al2O3 (%)	1.74
Fe2O3 (%)	2.09	Fe2O3 (%)	1.80
CaO (%)	40.06	CaO (%)	51.56
SO3 (%)	0.58	SO3 (%)	0.01

Base Cement Phase Composition

C3S (%)	58
C2S (%)	15
C3A (%)	4
C4AF (%)	12

We certify that the above described data represents the materials used in the cement manufacured during the production period indicated

By:

Quality Control Manager
CEMEX - Victorville Cement Plant
16888 North "E" St., 'Victorville, CA 92394

Qualifications



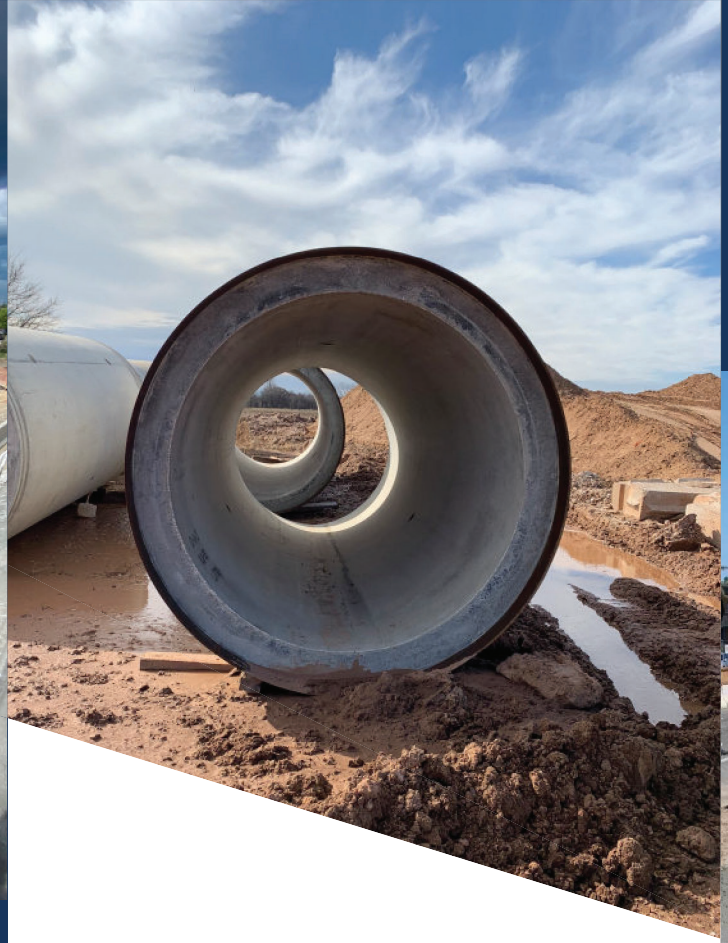
San Onofre Decommissioning Project Unit 2 and 3 (San Clemente, CA)



OUR MISSION

Cell-Crete Corporation takes pride in providing our customers with the most innovative products and designs. We commit ourselves to reliability while maintaining the highest levels of safety, sustainability, and dedication to craftsmanship.





CONTACT US

(626)-357-3500

www.cell-crete.com

info@cell-crete.com

Corporate Office
135 E. Railroad Ave
Monrovia, CA 91016

SCAN ME

SPECIALTY CONCRETE CONTRACTORS

CELL-CRETE CORPORATION



THE ONLY FLOWABLE LIGHTWEIGHT FILL

SPECIALISTS SINCE 1956

OUR COMPANY

Nationwide Cellular Concrete Subcontractor

- Custom Mix Designs
- Lunch and Learn Presentations
- Technical Data Library
- Committed to the use of sustainable and resilient solutions for the construction industry.

"WE POUR IT ON!"



ABOUT US

Founded in 1956 by Louis Fisher, Sr., Cell-Crete Corporation, a family-run business, has led the way in innovation and customer satisfaction in lightweight cellular concrete (LCC).

Cell-Crete provides customers with the perfect product for their specific needs. Our solid reputation is based on reliability and quality workmanship, but we're also proud of delivering the best client servicing in the business—your success is our success.



OUR PRODUCT

What is lightweight cellular concrete (LCC) made out of?

- Portland cement and SCM's
- Preformed foam and additives
- Water

THE PROCESS



Lightweight Cellular Concrete!

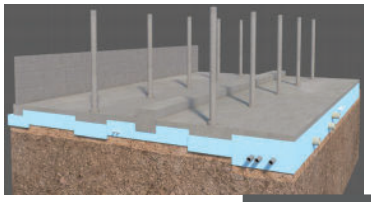
*STANDARD CLASS CHART

Cellular Concrete Class	Maximum Cast Density (PCF)	Minimum Compressive Strength at 28 Days (PSI)
I	21–24	10
II	25–30	40
III	30–36	80
IV	36–42	120
V	42–50	160
VI	50–80	300

*Contact us if your job requires parameters outside of this chart. We can customize mixes to meet your project needs.

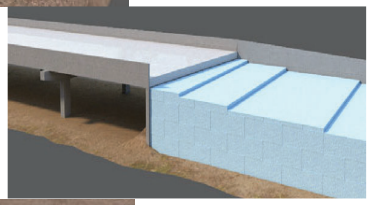
OUR SOLUTIONS

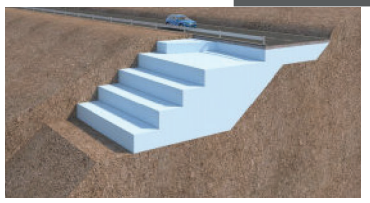
Where can we pour?



... any void area

... at bridge approaches or grade separations





... for reduction of fill loads

... and much more!

ASK US ABOUT

- Lightweight Cellular Concrete (LCC)
- Underwater LCC Mixes
- Annular and Abandonment Grouts
- Sustainable Mixes
- Ultra Lightweight Mixes
- Fast Setting and Delayed Mixes
- Low Heat of Hydration Mixes
- High Density Low Strength Mixes
- Underwater Mixes

LIGHTWEIGHT LOCATOR

Download our new **Lightweight Locator App** and find more projects near you!

LIST OF FIELD FOREMAN FOR CELLULAR CONCRETE PROJECTS
(AS OF AUGUST 1, 2023)

Name	Position	Date Employed by Cell-Crete
Durant Buck	Superintendent	2002
Randy Padilla	Superintendent	2009
German Jara	Foreman	1999
Fred Villa	Foreman	2003
Johnny Cueto	Foreman	2006
Felix Pena	Foreman	2007
Fermin Renteria	Foreman	2011
Marc Bruno	Foreman	2016
Ivan Bravo	Foreman	2017
Juan Guzman	Foreman	2018
Michael Summers	Foreman	2019

Past Performance/Relevant Experience

Project Name: **Whitewater Siphons Project**
Scope of Work: Permeable backfill for erosion protection at white water river. Roughly 5,000CY of 26 PCF material where placed.

Contract Amount: $ 191,134
Contractor: Rockforce
Owner: MWD
Dates of Work Performed: (2017)
Mix Designs: *CCC26-50*

Project Name: **Washington Park Reservoir**
Scope of Work: Permeable Backfill behind reservoir of 14,000CY of 26 PCF material 40' deep.
Contract Amount: $ 926,773.80
Contractor: Coffman Construction
Owner: Portland Water Bureau
Dates of Work Performed: (2018)
Mix Designs: *CCC26-50*

Project Name: **Oysterpoint Development**
Scope of Work: Grade elevation with permeable cellular concrete at the SF bayfront. Roughly 28,000Cy of 26 PCF material were installed on this project.

Initial Contract Amount: $ 1,834,714
Contractor: Teichert
Owner: City of South San Francisco
Dates of Work Performed: (2020)
Mix Designs: *CCC26-50*

Project Name: **China Basin Park Mission Rock**
Scope of Work: Permeable cellular concrete was installed on this project to raise the elevation of the park due to future sea level rise. Roughly 21,000CY of material were placed on this project
Contract Amount: $ 1,389,030
Contractor: Webcor
Owner: Tishman Speyer
Dates of Work Performed: (2022-2023)
Mix Designs: *CCC26-50*

Project Name: **IQHQ**
Scope of Work: Permeable backfill is being placed in substitution to Geofoam on a plaza deck roughly 10,000Cy will be placed on this project.
Contract Amount: $ 826,423.40
Contractor: JT Wimsatt
Owner: RADD
Dates of Work Performed: (2023)
Mix Designs: *CCC26-50*

Equipment



Gordie Howe Bride (Detroit, Michigan)

DeckMate



Roof Decking done right!

Tier 4 Final

Pairs perfect with Bulker!

Cellular Concrete

Lightweight Roof Decking

Specifications:

Engine: Industrial Tier4 final 99hp equipped with full instrumentation and safety shut down systems. **Optional engines contact strong manufacturing for other engine options*

Mixer: Patented 1-yard double-drum mixer, hydraulically operated via mechanical drive, counter rotating ribbon paddles, rubber lined. **Options include Hydraulically operated mixer door, UHMW liner, Adjustable packing chambers and outboard bearings.*

Material Pump: #100 Progressive cavity design pump, chrome rotor, natural rubber stator, 1-yard wet material holding hopper with UHMW lining, Variable output 0-130gpm @0 psi. **Options include, carbide rotor, 12 cubic ft. material blender, material hose, pressure Gauge*

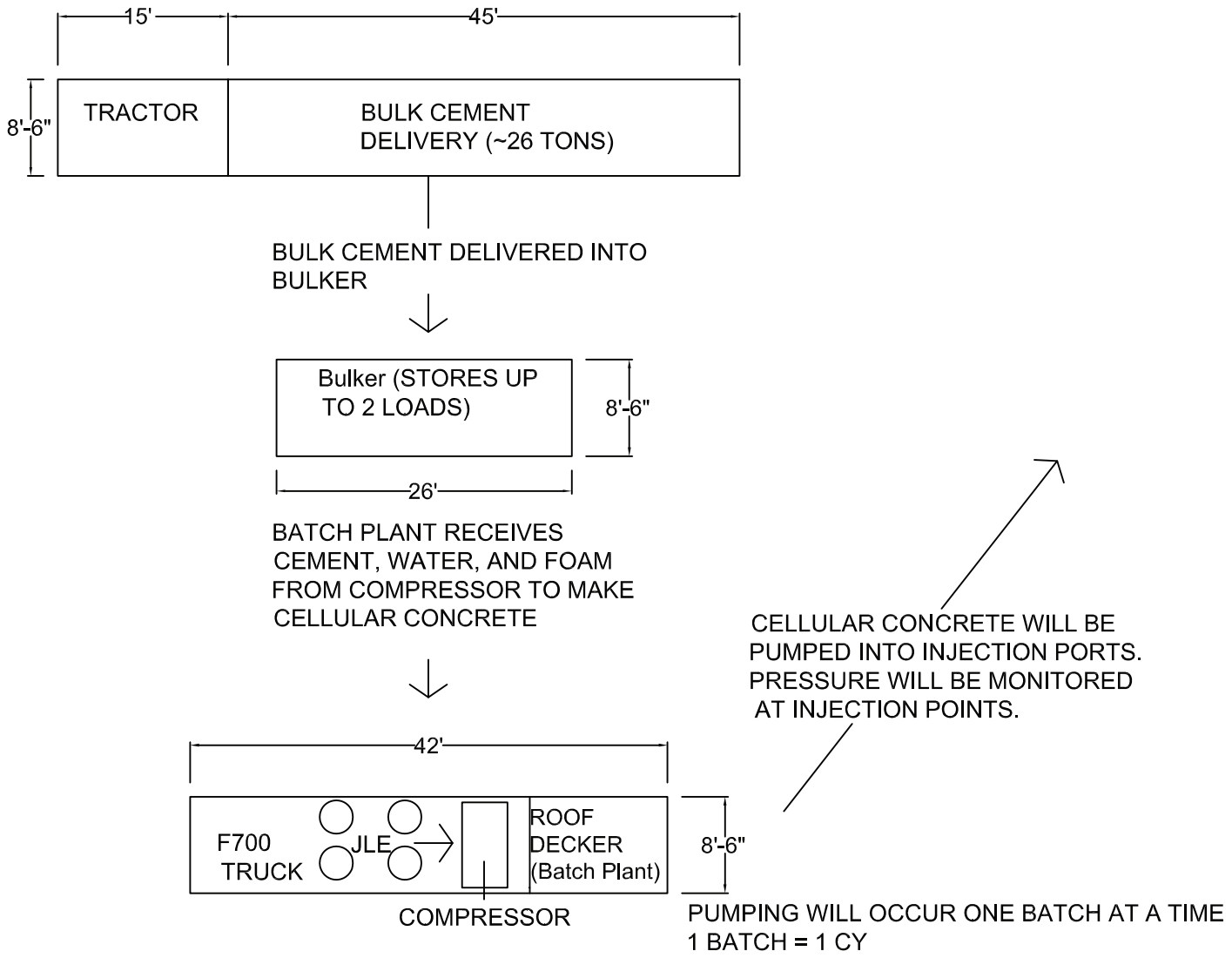
Material Handling System: Hydraulically powered auger and ground hopper

Water System: 100-gallon water tank, manual discharge valve, 2" analog water meter. **Options include, hydraulic powered water pump, digital water meter*

Hydraulic System: Variable displacement hydrostatic transmission with fixed displacement gear pump, hydraulic oil cooler, 60-gallon hydraulic oil reservoir

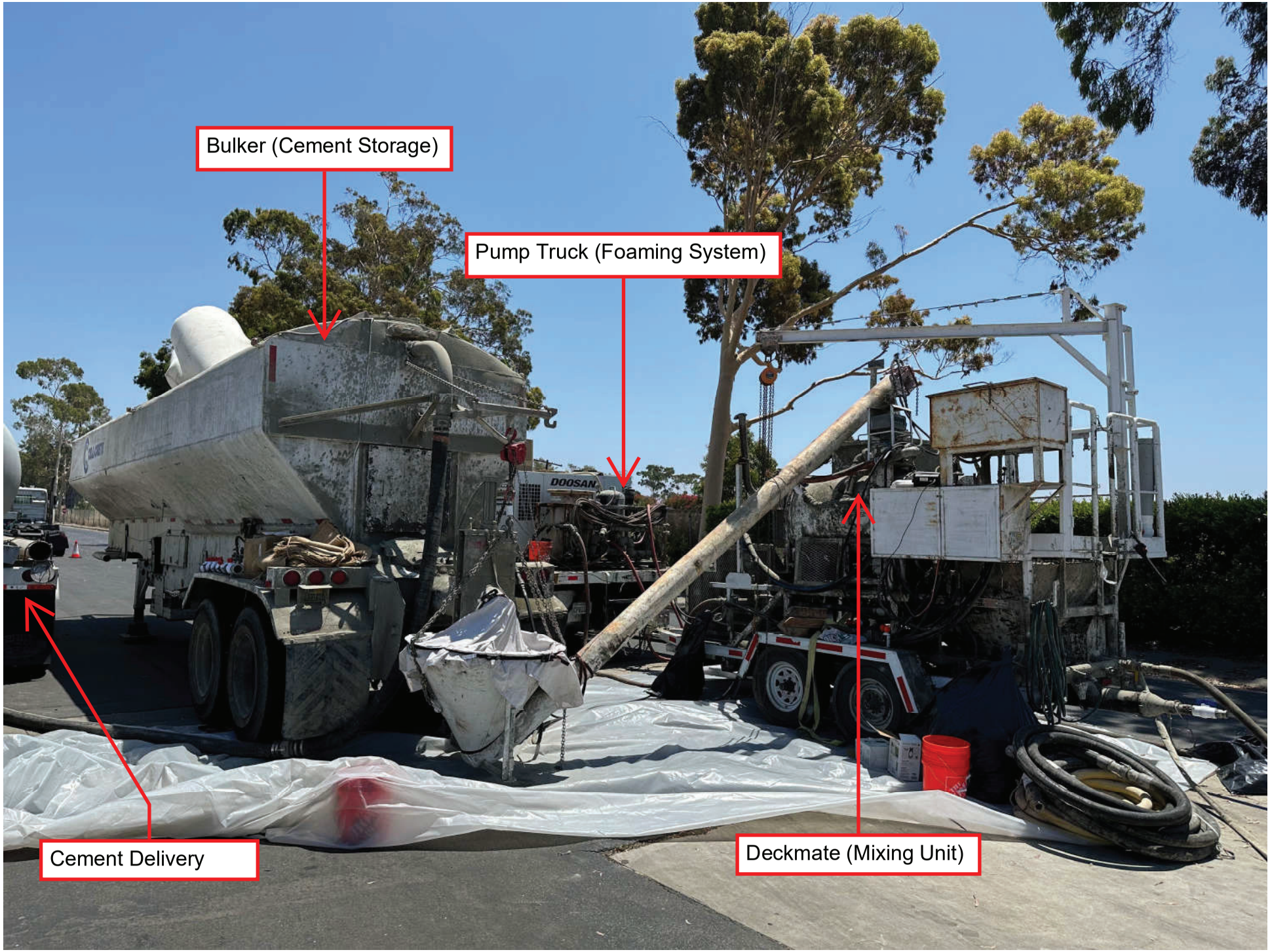
Deckmate	Mixer Size	Hopper Size	Yrds3/per hour	Gallons/min
Specifications:	$27ft^2$	$27ft^2$	$36yrds^3$	120

Strong MANUFACTURING
2301 University Dr
Pine Bluff AR 71603
1-800-238-5042
www.strongmfg.com



All drawings, computer files, and field data notes, other documents and instruments prepared by Cell-Crete Corporation shall remain the property of Cell-Crete Corporation.

		By: Franco Shimose	DETAIL: Set-up Layout
		NOT TO SCALE	


Bulker (Cement Storage)
Pump Truck (Foaming System)
DOOSAN
Cement Delivery
Deckmate (Mixing Unit)

Quality Control and Testing



CCC-27-55

Quality Control Program

BACKGROUND

LCC contains type (I) II-V Portland cement, water and a preformed synthetic-based foam to produce a cementitious lightweight material with an interior bubble-like structure. The preformed foam appears visually similar to shaving cream and is varied in quantity, relative to water-cement grout, to control the placed density of LCC. The production of LCC occurs on-site where a neat cement grout is injected with the preformed foam to produce LCC and then pumped to the location of placement (see Figure 1). CCC's LCC production setup offers advantages to the project in access, particularly in confined spaces or high traffic areas where traditional earthwork backfill, truck traffic, compaction equipment is not practical. Additional advantages include, reduced truck delivery traffic. For example, one bulk cement delivery typically provides up to 120CY of LCC as compared to more than 10 dump trucks of traditional earth backfill. Typical LCC crew sizes are also less than traditional earth work operations and includes up to 4 members that consist of operators, cement masons, and laborers.

CCC plans to use an grout mixer coupled to a positive displacement pump for production. Cement and or SCM's will be fed into the mixer via portable silos. CCC's equipment is capable of producing upwards of 800 CY/day per unit. LCC can be pumped up to 500 ft MAX.

Figure 1: Placement of LCC as excavation backfill



QUALITY PROGRAM

CCC's quality program is focused on producing LCC that satisfies the minimum requirements of this submittal and specifications.

CCC's quality program will focus on quality LCC field placement through on-site density testing at the time of placement, a daily reporting program.

Initial Setup

CCC will mobilize to the site and setup equipment to begin LCC production. During this initial setup and production. This usually takes from 1 hour to a full day depending on the amount of equipment we will bring onsite.

Daily Reports (DR)

A daily report will be produced for each working shift by CCC personnel documenting the daily placement. These DR's will summarize the following:

1. Daily activities, including areas of LCC placement and general activities.
2. Before and after LCC placement areas.
3. Summarized total volume of LCC placed by CCC.

LCC Field Placement

Once the LCC production equipment is setup at the site (equipment provided as part of a separate submittal), the established mix designs are reviewed by the crew. The mix design for that shift will include quantities per cubic yard by weight of cement, and gallons of water. Prior to beginning production foam generation, equipment setup and foam density will be confirmed by using a mold of a known volume and a scale for weight. The measured foam density will be compared and confirmed to be within the range recommended by the foam supplier prior to starting production.

The cement, and or SCM's and water, to produce a neat cement grout. The preformed foam and grout will then be combined using an in-line blending method, where the preformed foam is introduced into the slurry, producing the air-filled LCC. The LCC will be pumped from the mixing plant by a 2 or 3-inch diameter hose and then placed in lift thicknesses less than 3 feet. After placement, the material will be allowed to cure for up to 12 hours before placing the next lift; meaning lift placement can proceed daily once the material has been allowed to cure (typically 10 hours later).

Density Control and Testing

The trained CCC representative will be responsible for testing and recording density of tested samples of the preformed foam, and LCC at the location of placement. Given restrictions in accessing the foam after the system is pressurized and relative consistency of this equipment, the preformed foam will only be tested at the beginning of each shift. The LCC density will be tested at the location of placement (end of the hose) using a flat or hand scale and a mold of given volume to confirm placed densities (see Figure 2). The densities of each of these individual LCC components must be within these target values before placement can begin.



Figure 2: Example of in-field Density Testing of LCC

LCC Compressive Strength Testing

LCC samples will be collected and cast in molds to make four (4) 3-inch x 6-inch cylinders per sample. Testing will be completed by others following ASTM C495 which requires that the reported compressive strength of LCC be based on the average of these four tested cylinders.

CCC proposes a frequency of compressive strength testing to one sample (the average of 4 tested cylinders to develop a single reported compressive strength consistent with ASTM C495) per 300 CY with at least one samples tested for each shift regardless of volume placed for the shift.

CCC will not be responsible for testing the cylinders but has included our recommended lab which is one of a handful of labs accredited to test for ASTM 495 in the country; Gerhart Cole.

Please review Technical bulleting 22-2810 of this submittal if permeability testing is required please order molds as needed and contact either Castle Rock or Gerhart Cole for molds and testing. We have not included this as part of our scope but he can assist in making the samples in the special molds as needed, see figure 3 for sample picture of mold.

Ryan Maw Contact information: rmaw@gerhartcole.com 435.232.4984



Figure 3.

CLOSURE

This submittal details CCC's quality program planned for the project including the minimum required testing for the project specification. CCC anticipates that this submittal addresses the requirements of the approval of a quality program.

CCC looks forward to supporting in the successful delivery of this project.

APPENDICES

Appendix A – AASHTO Laboratory Accreditation (Recommended Lab)
Appendix B – Example Daily Reports (DR)

AASHTO ACCREDITED

CERTIFICATE OF ACCREDITATION

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AASHTO

Gerhart Cole Incorporated

in

Midvale, Utah, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).

Jim Tymon,
AASHTO Executive Director

Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 01/28/2023 at 7:43 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

SCOPE OF AASHTO ACCREDITATION FOR:

Gerhart Cole Incorporated

in Midvale, Utah, USA

Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	03/21/2017
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	03/21/2017
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	03/02/2022

This certificate was generated on 01/28/2023 at 7:43 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

Scope of AASHTO Accreditation for:

Gerhart Cole Incorporated

in Midvale, Utah, USA

Soil

Standard:		Accredited Since:
R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/21/2017
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	03/21/2017
T90	Plastic Limit of Soils (Atterberg Limits)	03/21/2017
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/21/2017
T100	Specific Gravity of Soils	03/21/2017
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/21/2017
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	09/08/2021
T265	Laboratory Determination of Moisture Content of Soils	03/21/2017
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/21/2017
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/21/2017
D854	Specific Gravity of Soils	03/21/2017
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/21/2017
D2216	Laboratory Determination of Moisture Content of Soils	03/21/2017
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	09/08/2021
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	03/21/2017
D4318	Plastic Limit of Soils (Atterberg Limits)	03/21/2017
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	09/08/2021
D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	09/08/2021

This certificate was generated on 01/28/2023 at 7:43 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

Scope of AASHTO Accreditation for:

Gerhart Cole Incorporated

in Midvale, Utah, USA

Concrete

Standard:		Accredited Since:
C495	Compressive Strength of Lightweight Insulating Concrete	11/09/2020
C617 (9000 psi and below)	Capping Cylindrical Concrete Specimens	11/09/2020

This certificate was generated on 01/28/2023 at 7:43 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

Date Submitted: 01-23-2023 05:33 PM
Submitted By: erodriguez@cell-crete.com

EF Daily Report - All

Project Information

Project Name	Mission Rock - China Basin Park (revision 1)
Job #	4E1353
Date	01-19-2023
Contractor	Webcor
Owner	Port
Location / GPS	
	Lat: 37.776307789644015 Long: -122.38834457483365
Address Location	
Foam Block Used	Yes
Bulker Weight Out	0
Bulker Weight In	9.8

Pour Area

Class Type(s)	PCCC-26-55
Total Volume (CY)	282.9

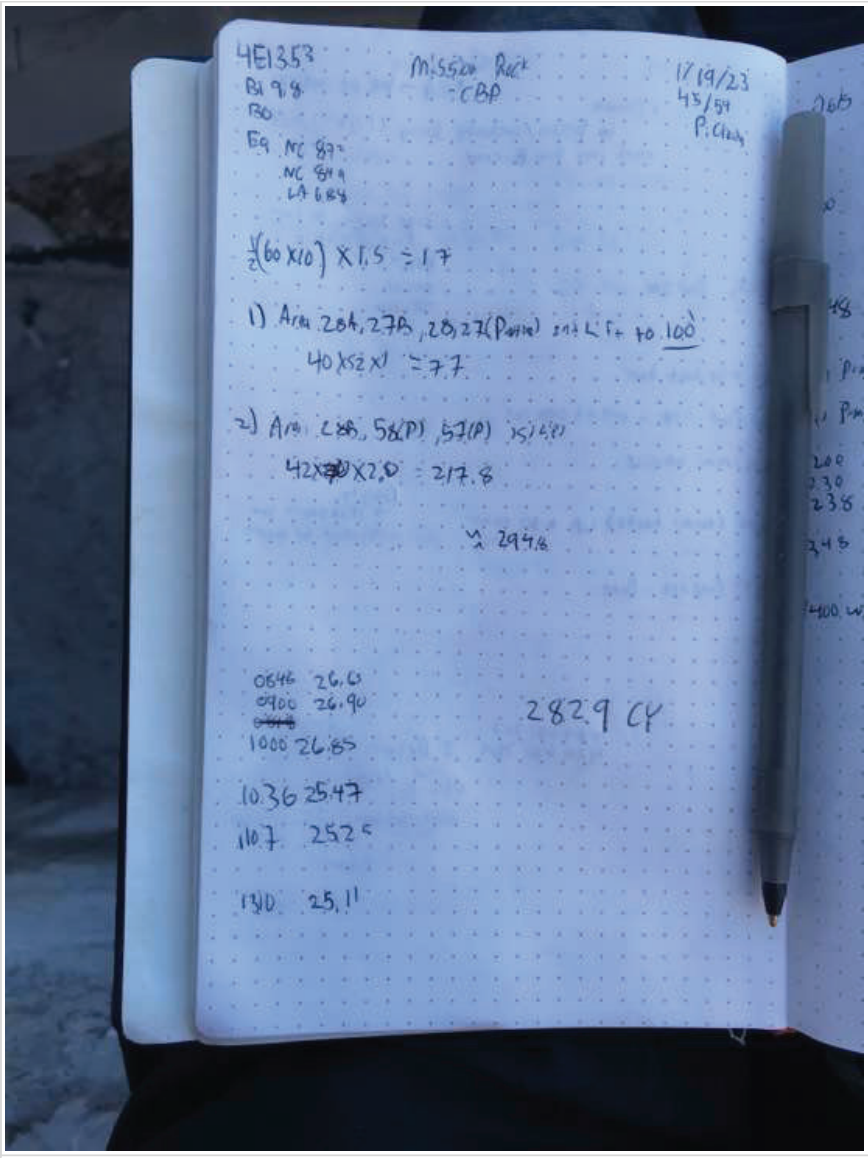
EF Daily Report - All

Pour Area Photos	
	

EF Daily Report - All

	
Field Notes (Text)	0700 on site, begin plastic, stepping in formwork scarify 0848 pump on 1110 pump off, wait for cement 1200lunch 1230 fix small leak in water hose 1238 pump on 1348 pump off, area done, begin cleanup 1400 walk tomorrows pour with Brian C, Grade needs some work 1530 off site Formwork 264 ft2

EF Daily Report - All

Field Notes (Photos)	
Area #1 (Station)	Area 28A, 27B, 28, 27 (partial) 2nd Lift
Dimensions of Pour	40*52*1
Volume (CY)	77
Class Type	PCCC-26-55
Area #2	Areas 28B, 58 (partial), 57 (partial)
Dimensions of Pour	42*70*2
Volume (CY)	217.8
Class Type	PCCC-26-55
Area #3	
Dimensions of Pour	

EF Daily Report - All

Volume (CY)	
Class Type	
Area #4	
Dimensions of Pour	
Volume (CY)	
Class Type	
Area #5	
Dimensions of Pour	
Volume (CY)	
Class Type	
Area #6	
Dimensions of Pour	
Volume (CY)	
Class Type	
Area #7	
Dimensions of Pour	
Volume (CY)	
Class Type	
Area #8	
Dimensions of Pour	
Volume (CY)	
Class Type	
Area #9	
Dimensions of Pour	
Volume (CY)	
Class Type	
Area #10	
Dimensions of Pour	
Volume (CY)	
Class Type	
Pressure Readings	

Sampling

Time 1	0846
Weight	26.65

EF Daily Report - All

Sample Collected?	No
Time 2	0900
Weight	26.90
Sample Collected?	No
Time 3	0930
Weight	26.80
Sample Collected?	No
Time 4	1000
Weight	26.85
Sample Collected?	No
Time 5	1036
Weight	25.47
Sample Collected?	Yes
Time 6	1107
Weight	25.25
Sample Collected?	No
Time 7	1310
Weight	25.11
Sample Collected?	No
Time 8	1340
Weight	26.20
Sample Collected?	No
Time 9	
Weight	
Sample Collected?	
Time 10	
Weight	
Sample Collected?	
Time 11	
Weight	
Sample Collected?	
Time 12	
Weight	
Sample Collected?	

EF Daily Report - All

Load Delivery

Load Deliveries	Yes
Cement Tickets	
Bill of Lading Numbers	484681691 Missing Tag
Hauler or N/A	Crown City
Load 1	26.33
Time Ordered	
Time Arrived	
Load 2	26.11
Time Ordered	

EF Daily Report - All

Time Arrived	
Load 3	
Time Ordered	
Time Arrived	
Load 4	
Time Ordered	
Time Arrived	
Load 5	
Time Ordered	
Time Arrived	
Load 6	
Time Ordered	
Time Arrived	
Load 7	
Time Ordered	
Time Arrived	

Crew/Equipment

Names of Crew on Job Today	Fermin Renteria Jorge Arce Misael Peña
Start Time	0700
Lunch Time	1200
Finish Time	1530
Hours	8
Equipment on Job Today	NC872 NC849 LA688
Hours	3

Materials

Materials used on Site (Cement Bags, Sample Boxes, etc.)	Cement Sample boxes

Summary

Cement Provider	Cemex
Loads	2
Tons	52.44
Specify Foam Type: JLE/Aerlite/Aquerix	Aquerix

EF Daily Report - All

Foam (gal)	31.65
Water (gal)	7884

Acknowledgment

Foreman/Field Engineer	Emmanuel Rodriguez
Foreman/Field Engineer Signature	
Superintendent/Project Engineer	Brian Capizano
Superintendent/Project Engineer Signature	

Technical Bulletin and ASTM



Aerix Industries™

Advanced Engineered Foam Solutions

T E C H N I C A L B U L L E T I N

Bulletin 20-2808 Compressive Strength of LDCC and Rate of Loading

Aerix Industries regularly conducts mix design testing for low density cellular concrete (LDCC) including determination of the unconfined compressive strength, using a Test Mark compression testing machine. This testing is performed in accordance with ASTM C495/C495M-12, "Standard Test Method for Compressive Strength of Lightweight Insulating Concrete".

Aerix Industries customers place cellular concrete on projects throughout the world. Often, the specifications for these projects require third party testing for compressive strength from a local, materials testing firm. Unfortunately, many local laboratories have little to no knowledge of, or have experience with LDCC and, for a variety of reasons, this inexperience can lead to inaccurate results or false negatives.

Aerix Industries has on several occasions, conducted comparative unconfined compressive strength testing with other testing firms, while using samples made from the same batch. Usually testing yields differing results, with the Aerix Industries results typically being substantially higher, and more consistent with historical LDCC test data for given densities.

Faced with these differing results, Aerix Industries personnel have tried to understand the cause for the differences in compressive strength yields. Part of narrowing the gap in results between two different testing firms, is to ensure that the two parties are doing the same things with respect to the preparation and testing, since the results are dependent on several variables.

Following are a few important considerations:

1. Use 3" x 6" cylinder molds.
2. Use a compression testing machine that is sized appropriately for LDCC, which for typical applications varies in strength from about 50 psi to about 300 psi, rather than normal weight concrete which is typically in the range from 3000 to 5000 psi. A normal weight concrete testing machine may have a loading capacity of 250,000 pounds. The machine used by Aerix Industries has a maximum capacity of and is calibrated for accuracy in a load range from 100 pounds to 15,000 pounds.
3. *Use a compression machine capable of varying the loading rate during testing, or prior to starting the test. Set the strain rate to a percentage increase that works with LDCC of lower densities.
4. *Trim the top and bottom surfaces of the cylinders to achieve a plane surface and cap the cylinders. Aerix Industries uses neoprene-lined steel caps with a 50-durometer neoprene pad.

5. Cylinders in the lower density ranges (usually 25 pcf to 35 pcf wet-cast density) will likely have soft bottoms from being in the molds. This soft bottom should be trimmed off to expose a more competent, representative material (usually about ¼ inch).

**Consideration:* Low-density, low-strength cellular concrete will often compress, rather than fracturing when a peak load is reached during testing. This is observable while the specimen is being loaded. The load increases to a point and then plateaus, and the cylinder is becoming visually shorter as it compresses into the bottom cap. The cylinder usually will not fracture and does not reach peak load. At this point during testing, Aerix Industries personnel will increase the rate of loading by turning a dial, a capability of the Test Mark machine. This usually allows the loading rate to surpass the rate of compression in the cylinder, reach a peak load (higher than the plateau-load) and obtain a fracture in the specimen.

Many materials testing labs have compression machines that do not provide for the possibility of changing the strain rate after the test has begun. If the chosen strain rate, or rate of loading, is too low, the situation described in the previous paragraph may be realized, resulting in lower than normal strength yields.

If a laboratory is just becoming familiarized with LDCC and obtaining test results that are lower than expected for the density and mix design, one possible solution would be to experiment with the rate of loading. Perform comparative testing along with Aerix Industries on LDCC test samples from the same batch. Use the resulting information to determine a strain rate for their equipment that yields strengths similar to the Aerix Industries results and/or historical data for a given type of mix design. One further possibility if a lab intends to test more cellular concrete in the future, would be to acquire a testing machine on which the rate of loading can be adjusted during testing.

In a recent joint study, numerous samples at an approximate 28 pcf density had been batched and molded by Aerix Industries. The sample cylinders were then shipped to for testing as part of a PhD research program. The samples tested using the PhD research machine yielded consistently lower results than those tested by Aerix Industries and were not consistent with historical test data for the density and foam type. Compressive strength yields for 28-day tests were in the range from about 25% to about 60% lower than the Aerix Industries samples. The PhD researcher was unable to change the rate of loading after starting a test.

Aerix Industries personnel watched the PhD researcher prepare and test three samples. The first cylinder was tested at an input strain rate of 1.5% and yielded a compressive strength of about 85 psi. This cylinder visibly compressed during testing and did not fracture. The PhD researcher was asked to change the strain rate to 2.5% for the second test. The second cylinder yielded a compressive strength of about 165 psi and there was an audible pop when it fractured. The third test was conducted at a strain rate of 2.0% and yielded a strength of about 185 psi. Both the second and third tests were in the same range as the strengths obtained by Aerix Industries at 28-days to 56-days of age. The cylinders tested were 52 days of age.

The results appear to indicate that a faster strain rate is necessary to avoid compression of the specimen and to achieve peak load and a fracture.

For further information, please contact the Aerix Industries technical department.

Aerix Industries™

Advanced Engineered Foam Solutions

T E C H N I C A L B U L L E T I N

Bulletin 22-2810 Instructions for PLDCC Permeability Molds

The permeability of Permeable Low Density Cellular Concrete (PLDCC) is tested using the ASTM D2434 (Modified) method. This procedure requires special molds to be filled with samples of the PLDCC material to be tested.

PLDCC molds can be acquired by inquiring to Castle Rock Consulting, LLC; Stan Peters at 303-947-5828 and by email at StanPetersPE@gmail.com.

The molds are ready to be filled as received. Please do not remove any tape or cover any identifying markings on the mold.

1. Write the sample ID, date, time and other data on the **masking tape label provided on the mold,** before filling with PLDCC. Alternatively, provide a separate sheet with the details listed below and just list the Sample ID on each mold. **Please DO NOT write directly on the mold itself, just on the tape.**
2. Remove the blue slip cap and fill the cylinder to just below the top edge. Gently shake the cylinder side to side or tap the sides to consolidate the material. Excess material above the rim should be struck off. Pouring material into the mold with a 3 x 6 cylinder mold or measuring cup gives good control and prevents overflow.
3. Wipe of any excess spillage from the sides of the molds and be sure that the ID label is clean and readable.
4. With the mold on a hard, flat surface, replace the blue slip cap taking care not to plug the vent in the top when pushing the cap down. Do not press the slip cap all the way down onto the top edge of the cylinder as it may compress the sample.
5. Carefully move the molds to a suitable location where they will not be disturbed and will be allowed to cure for a minimum of 24 hours at 60-80ºF. Curing in a cooler is suitable. Handle the molds carefully, keeping them upright at all times until fully cured.
6. After the samples have cured for at least 24 hours, they may be handled (with care).
7. Carefully package the samples with padding for shipping. Include and desired information as listed below for inclusion on the Permeability Testing Report. This information necessary for the final report can also be emailed to Stan Peters StanPetersPE@gmail.com

   - Client Name
   - Project Name
   - Sample Date
   - Sample ID
   - Sample Description
   - Targeted Density

- Actual Wet Density
- Cement Source and Type
- Base Slurry W/C Ratio
- Foam Product Used and Dilution Ratio
- Foam Density

8. Ship to:

   Castle Rock Consulting, LLC
   536 E. 2nd Avenue
   Castle Rock, CO 80108

9. Questions may be referred to Stan Peters at 303-947-5828.
10. Also, please provide any information necessary for test reporting and invoicing. A business card helps.

Please be advised that un-returned molds will result in charges. Even if the molds get filled, but it is decided that permeability testing is not required, please return the molds with the material in them.

**** This information is provided courtesy of Castle Rock Consulting**

Aerix Industries™

Advanced Engineered Foam Solutions

T E C H N I C A L B U L L E T I N

Bulletin # 16-0410 Water Infiltration Field Test for PLDCC

There is no ASTM standard for testing the permeability nor infiltration of Permeable Low-Density Cellular Concrete (PLDCC) under field conditions. Aerix Industries recommends a simple method that can be applied by field personnel to demonstrate the water infiltration of field-placed PLDCC. This can be accomplished placing a 2-inch diameter by 36-inch long steel pipe and hammering it into the PLDCC to a depth of about ½ inch.

Once installed, fill the pipe to the top with water and time the duration it takes to drain two (2) inches out of the pipe. If the 2 inches of water drains in 60 seconds or less, one can assume that the appropriate infiltration has been obtained.

One foot, or 12 inches of water head pressure equates to a conservative value of 0.44 psi, or 0.44 psi per foot of water head. Filling the 2-inch pipe to a depth of 36 inches approximately replicates the head pressure applied during laboratory permeability testing (approximately 1 to 2 psi).

If specific permeability tests are required, specimens should be cast and sent to Aerix Industries for laboratory confirmation. Aerix Industries uses an outside firm for laboratory testing using a modified ASTM-D2434 (Constant Head Permeability Test of Granular Soils) standard for accurate results. This method requires a special mold to cast the specimens, in order to conduct the test. Please contact Aerix Industries at the Golden, Colorado office to acquire the permeability molds. Any specimens must be submitted by the recognized installer with the appropriate paperwork and laboratory fees will be applied.

For more information, please contact the Aerix Industries technical or sales staff.

Revised 3/29/2108

5902 McIntyre St. | Golden, CO | 80403 | 303-271-1773
7020 Snowdrift Rd. | Allentown, PA | 18106 | 610-398-7833

This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

Designation: C495/C495M – 12 (Reapproved 2019)

Standard Test Method for Compressive Strength of Lightweight Insulating Concrete[1]

This standard is issued under the fixed designation C495/C495M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope*

1.1 This test method covers the preparation of specimens and the determination of the compressive strength of lightweight insulating concrete having an oven-dry density not exceeding 800 kg/m^3 [50 lb/ft^3] as determined by the procedures described herein. This test method covers the preparation and testing of molded 75 by 150-mm [3 by 6-in.] cylinders.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*[2]

C39/C39M Test Method for Compressive Strength of Cylindrical Concrete Specimens

C88/C88M Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate

C109/C109M Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)

C172/C172M Practice for Sampling Freshly Mixed Concrete

C617/C617M Practice for Capping Cylindrical Concrete Specimens

C670 Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials

3. Significance and Use

3.1 This test method provides standardized requirements for sampling, molding, curing, and testing lightweight insulating concretes for the purpose of determining compliance with compressive strength and density specifications.

4. Apparatus

4.1 *Testing Machine*—Use a testing machine as prescribed in Test Method C39/C39M.

4.2 *Scales and Weights*—Use scales and weights in weighing specimens that conform to those specified in the Apparatus Section of Test Method C109/C109M.

4.3 *Drying Oven*—Use an oven as specified in Test Method C88/C88M.

4.4 *Molds*—Use molds made of nonabsorbent materials or of materials treated to reduce absorption, that are watertight, and not subject to distortion of more than 2 mm [1⁄16 in.] in any dimension during molding and early curing of specimens. Coat all mold surfaces that will be in contact with concrete except single use plastic molds with wax or mineral oil, prior to use. Use molds having a diameter of 75 ± 2 mm [3 ± 1⁄16 in.] and a length of 150 ± 3 mm [6 ± 1⁄8 in.].

5. Sampling

5.1 Sample fresh lightweight insulating concrete in accordance with applicable provisions of Practice C172/C172M, with the following exceptions:

5.1.1 *Sampling from Pump Equipment*—Fill a bucket of approximately 9-L [10-qt] capacity by passing through the discharge stream of the concrete pump hose being used to place the concrete, at the point of placement of the concrete. Exercise care to ensure that the sample is representative of the pour,

[1] This test method is under the jurisdiction of ASTM Committee C09 on Concrete and Concrete Aggregatesand is the direct responsibility of Subcommittee C09.21 on Lightweight Aggregates and Concrete.

Current edition approved Dec. 15, 2019. Published December 2019. Originally approved in 1962. Last previous edition approved in 2012 as C495/C495M–12. DOI: 10.1520/C0495_C0495M-12R19.

[2] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

***A Summary of Changes section appears at the end of this standard**

Copyright © ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. United States

avoiding the beginning or ending of the discharge from the equipment. Prepare the test specimens as described in Section 6, by filling them with a scoop of lightweight insulating concrete dipped from the bucket.

5.1.2 *Remixing Sample*—Do not remix the sample.

6. Test Specimens

6.1 *Size and Shape*—Use cylindrical test specimens 75 ± 2 mm [3 ± 1/16 in.] in diameter and 150 ± 3 mm [6 ± 1/8 in.] in length, with the base of each specimen perpendicular to the longitudinal axis within the limits prescribed in 6.8.

6.2 *Number*—The compressive strength of the sample shall be based on the average strength of four cylinders. Obtain at least four test cylinders for compressive strength tests from each sample of lightweight insulating concrete.

6.3 *Molding*—In molding the specimens, place the concrete in two approximately equal layers. Tap the outside of the mold lightly 10 to 15 times with an open hand after placing each layer to close voids and release entrapped air. Over fill the mold when placing the second layer. Do not rod the concrete.

6.4 *Finishing Surface*—Strike off the specimens immediately after filling the molds. Cover them in such a manner as to prevent evaporation without marring the surface (Note 1). If desired, cover the filled mold with a glass or metal plate to obtain a surface that will be suitable for testing without capping and with a minimum of grinding.

NOTE 1—It is desirable to place the filled mold in a moist room if one is available. If this is done, protect the surface from dripping water.

6.5 *Removal from Molds*—Do not remove specimens from molds until danger of damage to the specimens is past. In any event, remove specimens from the molds within 7 days after molding.

6.6 *Curing*—For the first 24 h after molding, maintain the specimens at a temperature of 21 ± 6 °C [70 ± 10 °F]. After 24± 2 h, store the specimens in a moist condition (Note 2) at a temperature of 23.0 ± 2.0 °C [73.5 ± 3.5 °F] (Note 3). Do not expose specimens to a stream of running water nor store in water, unless a saturated lime (calcium hydroxide) solution is used. After 7 days, store the specimens at a temperature of 21 ± 6 °C [70 ± 10 °F] and a relative humidity of 50 ± 30 % for 18 days. Twenty-five days after molding, dry the specimens in an oven at 60 ± 3 °C [140 ± 5 °F] for 3 days (Note 4). Cool specimens to room temperature and test for compressive strength at an age of 28 days. If cellular concrete made using preformed foam is being tested, moist cure the cylinders from day 2 to day 25. At day 25 air dry the cylinders for 3 days at a temperature of 21 ± 6 ºC [70 ± 10 ºF] and a relative humidity of 50 ± 10 %. Do not oven dry the specimens prior to load testing.

NOTE 2—A moist condition is that in which free water is maintained on the surfaces of the specimens at all times.

NOTE 3—The temperature within damp sand and under wet burlap or similar materials will always be lower than the temperature in the surrounding atmosphere if evaporation takes place.

NOTE 4—Caution must be observed in loading the oven so that the moisture content of the specimen at time of test does not exceed 5 % of the oven-dry density determined in accordance with 9.1.

6.7 *Preparation for Testing*—Check whether the surfaces of the specimen that will be in contact with the bearing surfaces of the testing machine are within 0.5 mm [0.02 in.]. If the bearing surfaces depart from a plane more than 0.5 mm [0.02 in.], grind them to conform to this tolerance or cap in accordance with Practice C617/C617M. Cap surfaces to be plane within 0.05 mm [0.002 in.]. Check the planeness of the bearing surface of the specimen by means of a straightedge and feeler gage, making a minimum of three measurements on different diameters of the specimen. Make sure the surface of the specimen in contact with the lower bearing block of the testing machine does not depart from perpendicularity with the longitudinal axis of the cylinder by more than 1° (approximately equivalent to 2.5 mm in 150 mm [0.1 in. in 6 in.]) or the combined departure of the two bearing surfaces from perpendicularity by more than 3°.

6.8 *Measurement of Specimen*—Determine the diameter of the specimens to the nearest 0.2 mm [0.01 in.] by averaging two diameters measured at right angles to each other at about midheight of the specimen. Use these dimensions in computing the cross-sectional areas. Determine the height of the specimen to the nearest 0.2 mm [0.01 in.]. Weigh the cylinders before capping and calculate the density from the measured dimensions. Record the density to the nearest 10 kg/m^3 [0.5 lb/ft^3].

7. Procedure

7.1 *Placing of Specimen*—Wipe clean the bearing faces of the upper and lower bearing blocks of the compression test machine and of the test specimen and place the test specimen on the lower bearing block. Carefully align the axis of the specimen with the center of thrust of the spherically seated block. As the spherically seated block is brought to bear on the specimen, gently rotate its movable portion by hand so that uniform seating is obtained.

7.2 *Rate of Loading*—Continuously apply the load without shock at a constant rate such that the maximum load will be reached in 65 ± 15 s. Record the maximum load sustained by the specimen. Note the type of failure and the appearance of the concrete.

8. Calculation

8.1 Calculate the unit compressive strength of the concrete by dividing the maximum load by the average cross-sectional area and record to the nearest 0.1 MPa [10 psi].

9. Oven-Dry Density

9.1 When the oven-dry unit density is desired, mold two companion specimens for this purpose at the same time as the compressive strength specimens. Cure the companion specimens the same as the compressive strength specimens, except dry the companion specimens at the age of 28 days in an oven at 110 ± 5 °C [230 ± 10 °F] and weigh at 24-h intervals until the loss in weight does not exceed 1 % in a 24-h period. Determine the mass and dimensions of the oven-dry specimens and calculate the density from the average data obtained.

10. Report

10.1 For each specimen tested report the following information where applicable:

10.1.1 Identification number,
10.1.2 Cylinder density reported to nearest 10 kg/m^3 [0.5 lb/ft^3],
10.1.3 Dimensions of test specimen, in mm [in.],
10.1.4 The cross-sectional area in mm^2 [in.^{2}],
10.1.5 Type of cap,
10.1.6 Maximum load, in kN [lb],
10.1.7 Unit compressive strength shall be reported as the average of testing four cylinders from the same batch of lightweight insulating concrete defined in 6.2, in MPa [psi],
10.1.8 Type of fracture and appearance of the concrete following determination of compressive strength,
10.1.9 Defects in either specimen or caps,
10.1.10 Age of specimen, in days,
10.1.11 Calculated oven-dry density, if determined,
10.1.12 Average ambient temperature and average relative humidity at which specimens were stored during the 18-day curing period, and
10.1.13 Summation of tests of specimens from same sample with average of test results. This summation shall be shown on the report of the last specimen tested and should be referenced in reports of other specimens.

11. Precision and Bias

11.1 *Precision:*
11.1.1 The single operator standard deviation for a test result (where a test result is, as defined in this test method, the average of four separate compressive strength measurements) has been found to be 0.14 MPa [21 psi] (Notes 5 and 6). Therefore, results of two properly conducted tests (each consisting of the average of four individual measurements) by the same operator on concrete samples from the same batch should not differ by more than 0.41 MPa [59 psi] (Note 6). The range (difference between highest and lowest) of the four individual measurements used in calculating the average should not exceed 1.07 MPa [155 psi] (Note 7).

11.1.2 The multilaboratory standard deviation for a test result has been found to be 0.20 MPa [29 psi] (Note 6). Therefore, results of two properly conducted tests (each consisting of the average of four individual measurements) by two different laboratories on concrete samples from the same batch should not differ by more than 0.57 MPa [83 psi] (Note 6).

NOTE 5—The data used to develop the precision statement were obtained using the previous inch-pound version of this test method. The precision indices are exact conversions of the values shown in brackets.

NOTE 6—These numbers represent, respectively, the (1s) and (d2s) limits as described in Practice C670.

NOTE 7—Calculated as described in 3.4.3 of Practice C670.

11.2 *Bias*—The bias of this test method cannot be determined because compressive strength can only be defined in terms of this test method.

12. Keywords

12.1 compressive strength; density; lightweight insulating concrete; oven-dry density

SUMMARY OF CHANGES

Committee C09 has identified the location of selected changes to this test method since the last issue, C495–07, that may impact the use of this test method. (Approved April 1, 2012)

(1) Revised the standard as a combined units test method.
(2) Revised 6.2 and 10.1.7 to clarify that four cylinders shall be obtained from the same batch of concrete and the compressive strength of that sample is the average of the four cylinders.
(3) The tapping procedure in 6.3 was revised.
(4) Added requirement in 6.6 that cellular concrete cylinders be moist cured for 23 days and not be oven dried prior to compressive strength testing.
(5) Added requirement in 6.8 to weight cylinders and calculate their density.
(6) Added 10.1.7 to require reporting the density.
(7) Added new Note 5 to clarify how the precision values were obtained and renumbered subsequent notes.

ASTM International takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.

This standard is copyrighted by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or service@astm.org (e-mail); or through the ASTM website (www.astm.org). Permission rights to photocopy the standard may also be secured from the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, Tel: (978) 646-2600; http://www.copyright.com/

HARTMAN
Civil Engineering, Inc.

P.O. Box 2958
Petaluma, CA 94953

Office: (707) 763-2862
Fax: (707) 773-2953

Project:

Former Oakland Foundry
Oakland, CA

Client:

ICS
2525 Stanwell Drive, Suite 200
Concord, CA 94520



05/02/25

Pit Covers - Design Calcs:

Design temporary pit covers for numerous open pits on the above-mentioned project. Reference the stamped plans by Hartman Civil Engineering, Inc. (Job No.: 1868-3, dated 05/02/25). Cover was designed per Caltrans Falsework Manual using the 100 psf loading.

DATE:	05/02/25
DESIGNED BY:	J.W.H.
SHEET:	1 of 7

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

Check Plyform (MDO):

Max. Spacing of the Joists (in): $s := 16$

Total Load on Plywood (psf): $W := 100$

Unit Weight of Plywood (psf): $w_{ply} := 3$

See Attached Table to Check 3/4 MDO With Joist Spacing of 12" o.c.

Recommended Max. Pressure (psf): $W_{max} := 495$ > $W + w_{ply} = 103$ **OK**
(See Attached Chart)

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

Check 2x4 Joists:

Joist Properties:

Section = 2x4 | Weight (plf): $w_j := 4$ | Modulus of Elasticity (ksi): $E := 1600000$

Depth (in): $d := 3.5$ | Section Modulus (in3): $S_x := 3.06$

Width (in): $b := 1.5$ | Moment of Inertia (in4): $I_x := 5.359$

Max. Spacing of the Joists (in): $s := 16$

Maximum Span Length (ft): $L := 4.0$

Total Load from Plywood (psf): $W := 103$ $W = 103$

Loading on Each Joist (plf): $w := \left(\frac{s}{12}\right) \cdot (W) + w_j$ $w = 141$

Check Shear Stress:

Max. Shear (lbs): $V_{max} := \frac{w \cdot L}{2}$ $V_{max} = 283$

Max. Shear Stress (psi): $f_v := \frac{3 \cdot V_{max}}{2 \cdot d \cdot b}$ $f_v = 81$ < $F_v := 140$ **OK**

Check Bending Stress:

Max. Moment (lb-ft): $M_{max} := \frac{w \cdot L^2}{8}$ $M_{max} = 283$

Max. Bending Stress (psi): $f_b := \frac{M_{max} \cdot 12}{S_x}$ $f_b = 1108$ < $F_b := 1500$ **OK**

Check Deflection:

Dead Load on Each Joist (plf): $W_{DL} := \left(\frac{s}{12}\right) \cdot w$ $W_{DL} = 188$

Maximum Deflection (in): $\Delta_{max} := \frac{\left(5 \cdot \left(\frac{W_{DL}}{12}\right) \cdot (L \cdot 12)^4\right)}{384 \cdot E \cdot I_x}$ $\Delta_{max} = 0.13$ < $\frac{(L \cdot 12)}{240} = 0.20$ **OK**

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

Check Maximum Allowable Bending Stress for W8x31:

Maximum Unbraced Length (ft): $L := 21$

Maximum Unbraced Length (in): $L_b := L \cdot 12$ $L_b = 252$

Beam Properties:

Section = W8x31 Flange Width (in): $b_f := 7.995$ Yield Stress (ksi): $Fy := 50.0$

Depth (in): $d := 8.00$ Flange Thickness (in): $t_f := 0.435$

$Lc := 7.2$ $r_T := 2.18$

$Lu := 14.5$ $A_f := b_f \cdot t_f$ $A_f = 3.48$

Check Unbraced Length:

$$L1 := r_T \cdot \sqrt{\frac{102000}{Fy}} \qquad L1 = 98$$

$$L2 := r_T \cdot \sqrt{\frac{510000}{Fy}} \qquad L2 = 220$$

Apply Equation F1-6 or F1-7 and Must Apply Equation F1-8 (Pg. 5-47, AISC 9th).
Use the Larger Value from the Applicable Equations (Can not be Larger than 0.6Fy)
Use Equation F1-6 if Lb is Between L1 & L2
Use Equation F1-7 if Lb is Larger than L2.

Equation F1-6: $$F_b := \left(\left(\frac{2}{3} \right) - \frac{Fy \cdot \left(\frac{L_b}{r_T} \right)^2}{1530000} \right) \cdot Fy \qquad F_b = 11.5$$

Equation F1-7: $$F_b := \frac{170000}{\left(\frac{L_b}{r_T} \right)^2} \qquad F_b = 12.7$$ <------- Use This Eqn. (L2 < Lb)

Equation F1-8: $$F_b := \frac{12000}{\left(\frac{L_b \cdot d}{A_f} \right)} \qquad F_b = 20.7$$ <------- Must Use This Eqn.

Maximum Allowable Bending Stress (ksi): $F_b := 20.7$

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

Check Support Beams (Worst Case - Up to 21' Span):

Beam Properties:

Section = W8x31		Web Thickness (in):	$t_w := 0.285$	Section Modulus (in3):	$S_x := 27.5$	$S_y := 9.27$
Area (in2):	$A := 9.13$	Flange Width (in):	$b_f := 7.995$	Radius of Gyration (in):	$r_x := 3.47$	$r_y := 2.02$
Depth (in):	$d := 8.00$	Flange Thickness (in):	$t_f := 0.435$	Moment of Inertia (in4):	$I_x := 110$	$I_y := 37.1$
Weight (plf):	$bw := 31$	Yield Stress (ksi):	$Fy := 50.0$	Modulus of Elasticity (ksi):	$E := 29000$	

Distributed Load on Cover (psf): $q := 100$

Unit Weight of Joists (plf): $w_j := 8$

Unit Weight of Plywood (psf): $q_p := 3$

Tributary Width (ft): $S := 4.0$

Distributed Load on Beam (plf): $w := (q + w_j + q_p) \cdot S + bw$ $w = 475$ Design Load (plf): $w_d := 500$

Maximum Span Length (ft): $L := 21$

Results:

Reactions (kips): $R := \frac{w_d \cdot L}{2 \cdot 1000}$ $R = 5.25$

Max. Shear (kips): $Vmax := \frac{w_d \cdot L}{2 \cdot 1000}$ $Vmax = 5.25$

Max. Moment (k-ft): $Mmax := \frac{w_d \cdot L^2}{8 \cdot 1000}$ $Mmax = 27.6$

Check Shear Stress:

Allowable Shear Stress (ksi): $F_v := 0.4 \cdot Fy$ $F_v = 20.0$

Max. Shear (kips): $Vmax = 5.25$

Max. Shear Stress (ksi): $f_v := \frac{Vmax}{d \cdot t_w}$ $f_v = 2.3$ < $F_v = 20.0$ **OK**

Check Bending Stress:

Allowable Bending Stress (ksi): $F_b := 20.7$

Max. Moment (k-ft): $Mmax = 28$

Max. Bending Stress (ksi): $f_b := \frac{Mmax \cdot 12}{S_x}$ $f_b = 12.0$ < $F_b = 20.7$ **OK**

Check Deflection:

Max. Deflection (in): $\Delta := \left(\frac{5 \cdot \left(\frac{w_d}{12 \cdot 1000} \right) \cdot (L \cdot 12)^4}{384 \cdot E \cdot I_x} \right)$ $\Delta = 0.69$ < $\frac{L \cdot 12}{240} = 1.05$ **OK**

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

Check Maximum Allowable Bending Stress for W6x15:

Maximum Unbraced Length (ft): $L := 14$

Maximum Unbraced Length (in): $L_b := L \cdot 12$ $L_b = 168$

Beam Properties:

Section = W6x15 Flange Width (in): $b_f := 5.990$ Yield Stress (ksi): $Fy := 50.0$

Depth (in): $d := 5.99$ Flange Thickness (in): $t_f := 0.260$

$Lc := 5.4$ $r_T := 1.61$

$Lu := 8.7$ $A_f := b_f \cdot t_f$ $A_f = 1.56$

Check Unbraced Length:

$$L1 := r_T \cdot \sqrt{\frac{102000}{Fy}} \qquad L1 = 73$$

$$L2 := r_T \cdot \sqrt{\frac{510000}{Fy}} \qquad L2 = 163$$

Apply Equation F1-6 or F1-7 and Must Apply Equation F1-8 (Pg. 5-47, AISC 9th).
Use the Larger Value from the Applicable Equations (Can not be Larger than 0.6Fy)
Use Equation F1-6 if Lb is Between L1 & L2
Use Equation F1-7 if Lb is Larger than L2.

Equation F1-6: $$F_b := \left(\left(\frac{2}{3} \right) - \frac{Fy \cdot \left(\frac{L_b}{r_T} \right)^2}{1530000} \right) \cdot Fy \qquad F_b = 15.5$$

Equation F1-7: $$F_b := \frac{170000}{\left(\frac{L_b}{r_T} \right)^2} \qquad F_b = 15.6$$ <------- Use This Eqn. (L2 < Lb)

Equation F1-8: $$F_b := \frac{12000}{\left(\frac{L_b \cdot d}{A_f} \right)} \qquad F_b = 18.6$$ <------- Must Use This Eqn.

Maximum Allowable Bending Stress (ksi): $F_b := 18.6$

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

Check Support Beams (Up to 14' Span):

Beam Properties:

Section = W6x15		Web Thickness (in):	$t_w := 0.230$	Section Modulus (in3):	$S_x := 9.72$	$S_y := 3.11$
Area (in2):	$A := 4.43$	Flange Width (in):	$b_f := 5.990$	Radius of Gyration (in):	$r_x := 2.56$	$r_y := 1.46$
Depth (in):	$d := 5.99$	Flange Thickness (in):	$t_f := 0.260$	Moment of Inertia (in4):	$I_x := 29.1$	$I_y := 9.32$
Weight (plf):	$bw := 15$	Yield Stress (ksi):	$Fy := 50.0$	Modulus of Elasticity (ksi):	$E := 29000$	

Distributed Load on Cover (psf): $q := 100$

Unit Weight of Joists (plf): $w_j := 8$

Unit Weight of Plywood (psf): $q_{ply} := 3$

Tributary Width (ft): $S := 4.0$

Distributed Load on Beam (plf): $w := (q + w_j + q_{ply}) \cdot S + bw$ $w = 459$ Design Load (plf): $w_d := 500$

Maximum Span Length (ft): $L := 14$

Results:

Reactions (kips): $R := \frac{w_d \cdot L}{2 \cdot 1000}$ $R = 3.5$

Max. Shear (kips): $Vmax := \frac{w_d \cdot L}{2 \cdot 1000}$ $Vmax = 3.5$

Max. Moment (k-ft): $Mmax := \frac{w_d \cdot L^2}{8 \cdot 1000}$ $Mmax = 12.3$

Check Shear Stress:

Allowable Shear Stress (ksi): $F_v := 0.4 \cdot Fy$ $F_v = 20.0$

Max. Shear (kips): $Vmax = 3.5$

Max. Shear Stress (ksi): $f_v := \frac{Vmax}{d \cdot t_w}$ $f_v = 2.5$ < $F_v = 20.0$ **OK**

Check Bending Stress:

Allowable Bending Stress (ksi): $F_b := 18.6$

Max. Moment (k-ft): $Mmax = 12$

Max. Bending Stress (ksi): $f_b := \frac{Mmax \cdot 12}{S_x}$ $f_b = 15.1$ < $F_b = 18.6$ **OK**

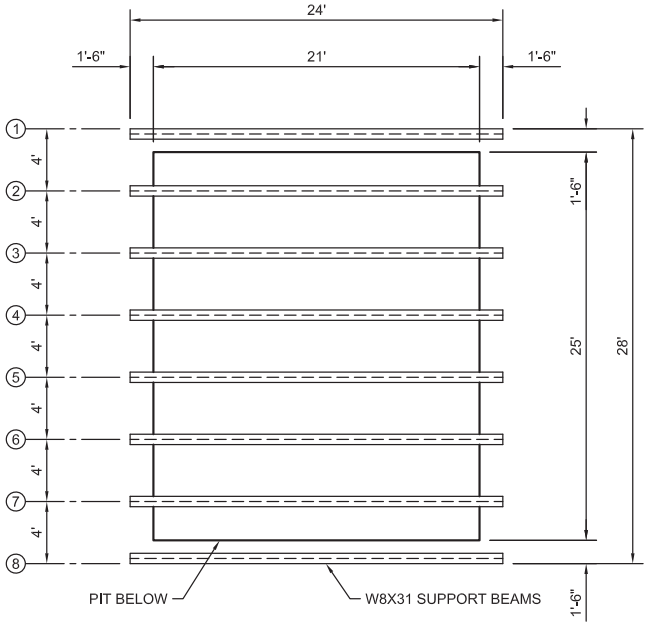
Check Deflection:

Max. Deflection (in): $\Delta := \left(\frac{5 \cdot \left(\frac{w_d}{12 \cdot 1000} \right) \cdot (L \cdot 12)^4}{384 \cdot E \cdot I_x} \right)$ $\Delta = 0.51$ < $\frac{L \cdot 12}{240} = 0.70$ **OK**

SEE SHEET 7 FOR NOTES

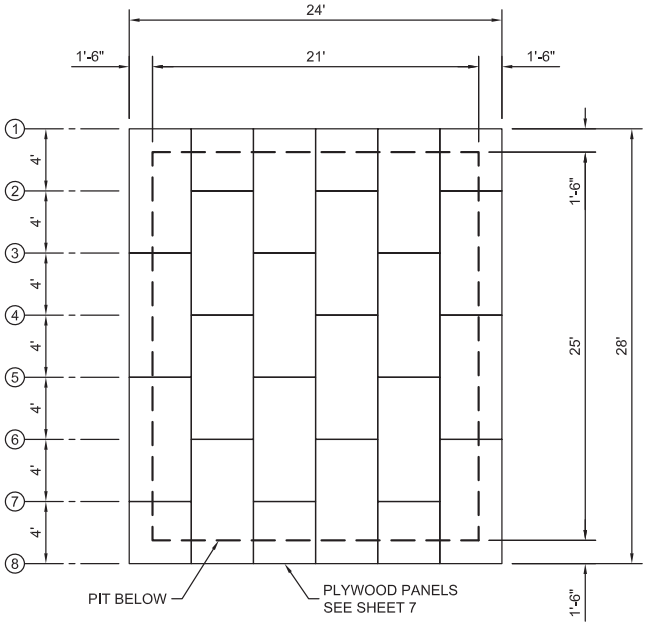
PIT#1 - 21' X 25'

SHEET #	PIT#	SIZE	BEAMS
1	1	21'X25'	W8X31
2	2	12'X28'	W6X15
3	3	14'X18'	W6X15
4	4	14'X14'	W6X15
5	5	10'X13'	W6X15
6	6	9'X12'	W6X15



PLAN VIEW 1/1
SCALE: 1/8"=1'-0"

(STEEL SUPPORT BEAM PLACEMENT)



PLAN VIEW 2/1
SCALE: 1/8"=1'-0"

(PLYWOOD PANEL PLACEMENT)

REGISTERED PROFESSIONAL ENGINEER
JOSEPH W. HARTMAN
No. C-39979
Exp. 06/30/25
CIVIL
STATE OF CALIFORNIA

05/02/25

REVISIONS:	BY:

FORMER OAKLAND FOUNDRY
OAKLAND, CA
TEMP PIT COVER PLANS

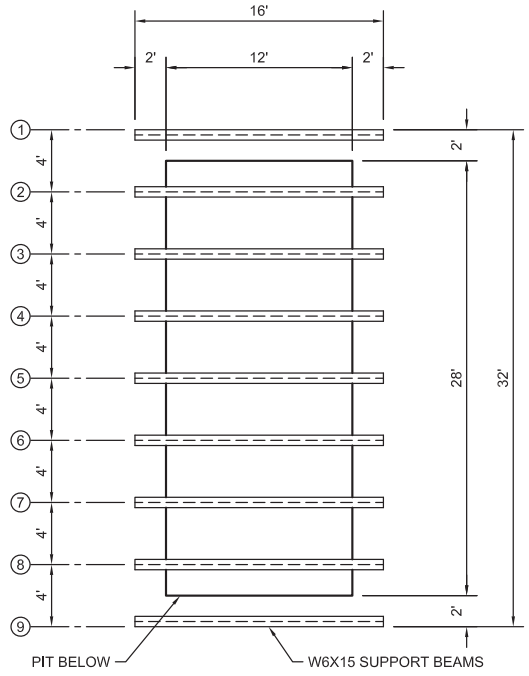
ICS
2525 STANWELL DRIVE
SUITE 200
CONCORD, CA 94520

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

DATE:	08/20/12
SCALE:	NOTED
BY:	J.W.H.
JOB #:	1868-3
SHEET:	1 OF 7

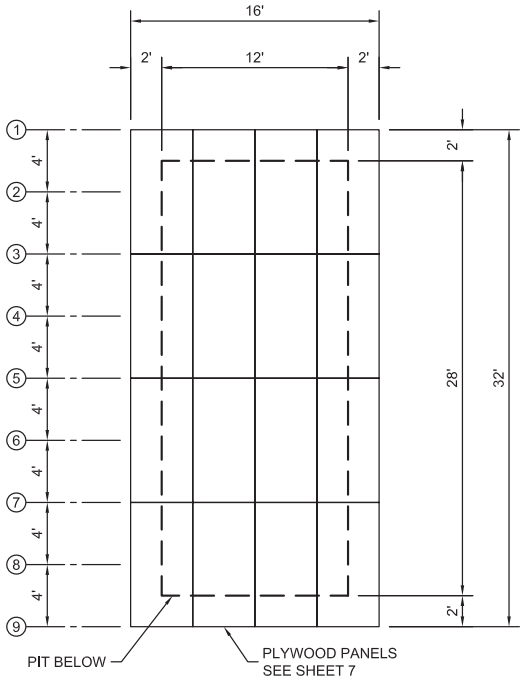
SEE SHEET 7 FOR NOTES

PIT#2 - 12' X 28'



PLAN VIEW 1/2
SCALE: 1/8"=1'-0"

(STEEL SUPPORT BEAM PLACEMENT)



PLAN VIEW 2/2
SCALE: 1/8"=1'-0"

(PLYWOOD PANEL PLACEMENT)

REGISTERED PROFESSIONAL ENGINEER
JOSEPH W. HARTMAN
No. C 59979
Exp. 06/30/25
CIVIL
STATE OF CALIFORNIA

05/02/25

REVISIONS:	BY:

FORMER OAKLAND FOUNDRY
OAKLAND, CA
TEMP PIT COVER PLANS

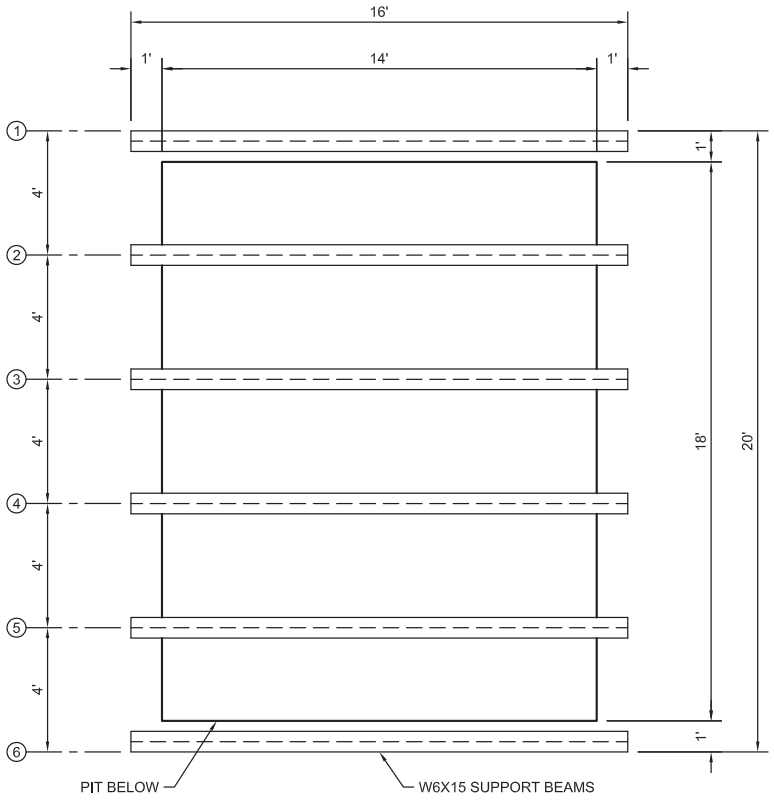
ICS
2525 STANWELL DRIVE
SUITE 200
CONCORD, CA 94520

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

DATE:	05/02/25
SCALE:	NOTED
BY:	J.W.H.
JOB #:	1868-3
SHEET:	2 OF 7

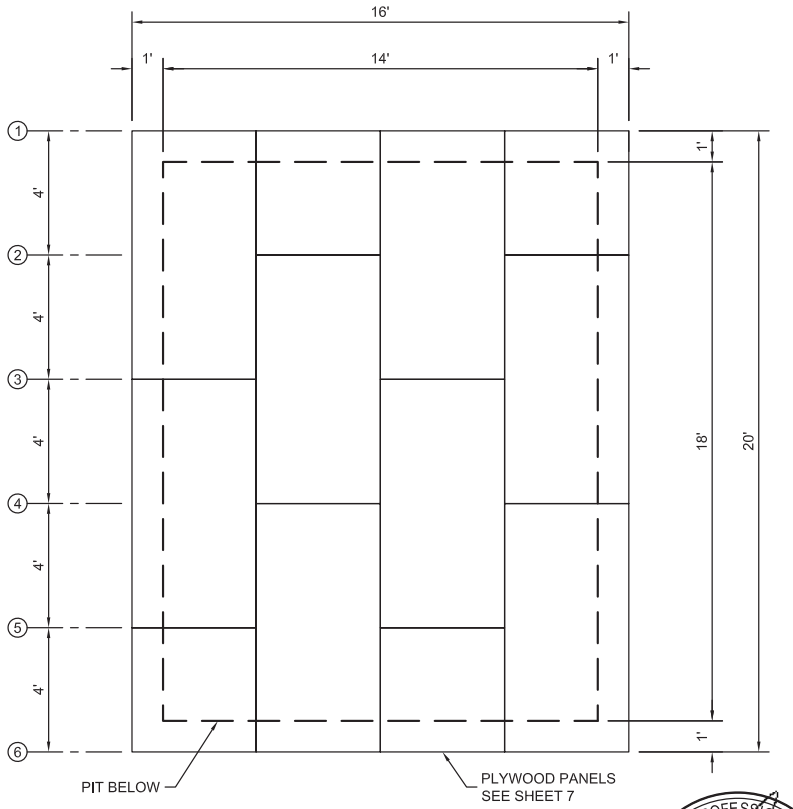
SEE SHEET 7 FOR NOTES

PIT#3 - 14' X 18'



PLAN VIEW 1/5
SCALE: 1/8"=1'-0"

(STEEL SUPPORT BEAM PLACEMENT)



PLAN VIEW 2/5
SCALE: 1/8"=1'-0"

(PLYWOOD PANEL PLACEMENT)



05/02/25

REVISIONS:	BY:

FORMER OAKLAND FOUNDRY
OAKLAND, CA
TEMP PIT COVER PLANS

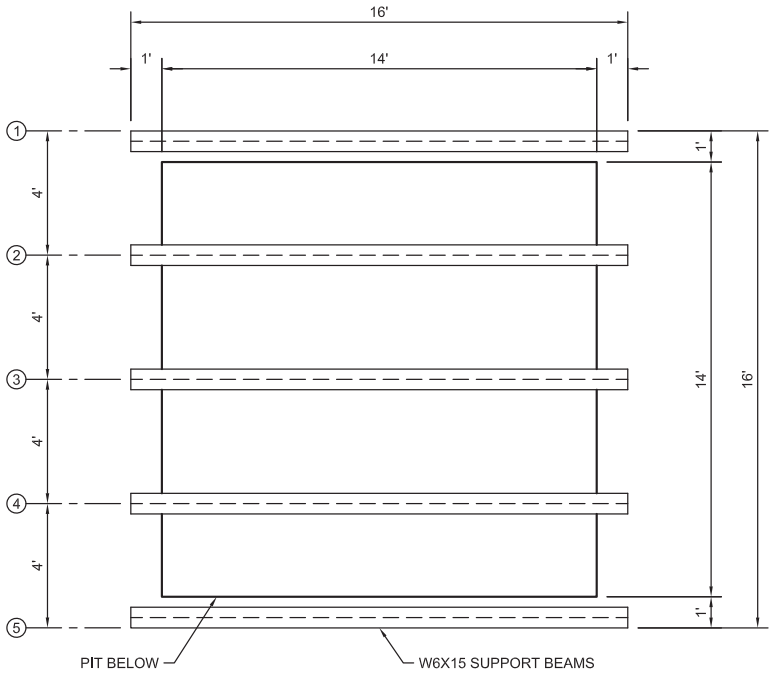
ICS
2525 STANWELL DRIVE
SUITE 200
CONCORD, CA 94520

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

DATE:	05/02/25
SCALE:	NOTED
BY:	J.W.H.
JOB #:	1868-3
SHEET:	3 OF 7

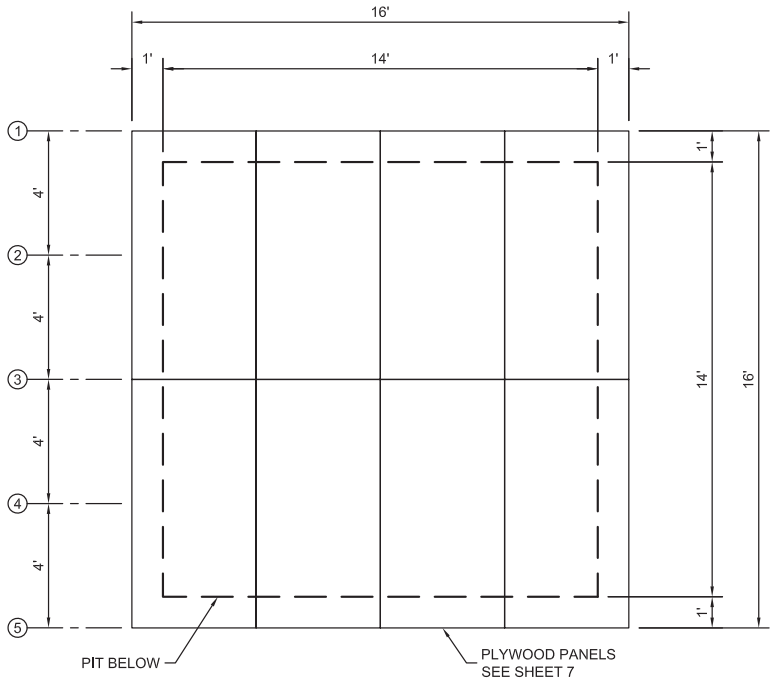
SEE SHEET 7 FOR NOTES

PIT#4 - 14' X 14'



PLAN VIEW 1/4
SCALE: 1/8"=1'-0"

(STEEL SUPPORT BEAM PLACEMENT)



PLAN VIEW 2/4
SCALE: 1/8"=1'-0"

(PLYWOOD PANEL PLACEMENT)



05/02/25

REVISIONS:	BY:

FORMER OAKLAND FOUNDRY
OAKLAND, CA
TEMP PIT COVER PLANS

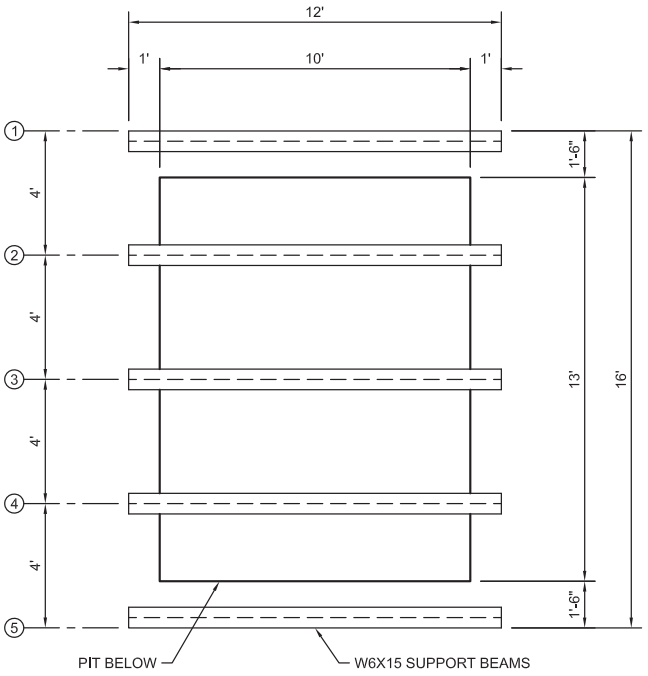
ICS
2525 STANWELL DRIVE
SUITE 200
CONCORD, CA 94520

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

DATE:	05/02/25
SCALE:	NOTED
BY:	J.W.H.
JOB #:	1868-3
SHEET:	4 OF 7

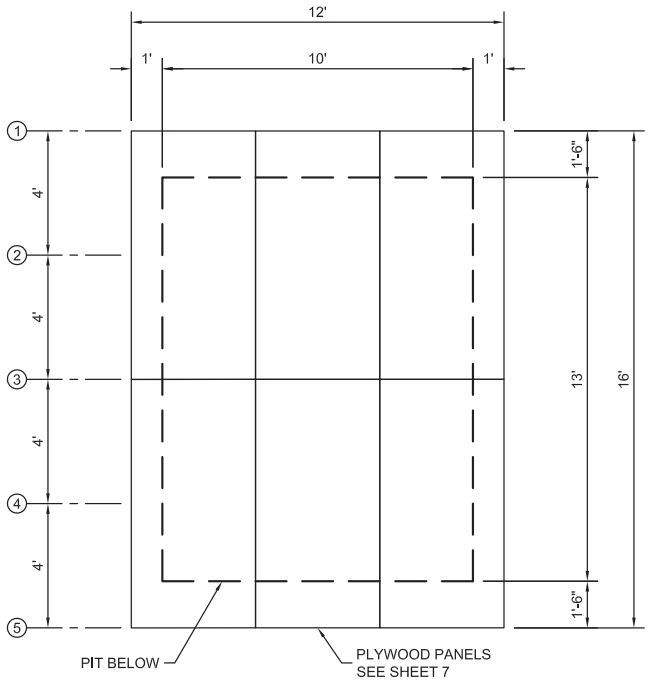
SEE SHEET 7 FOR NOTES

PIT#5 - 10' X 13'



PLAN VIEW 1/3
SCALE: 1/8"=1'-0"

(STEEL SUPPORT BEAM PLACEMENT)



PLAN VIEW 2/3
SCALE: 1/8"=1'-0"

(PLYWOOD PANEL PLACEMENT)

REGISTERED PROFESSIONAL ENGINEER
JOSEPH W. HARTMAN
No. C 59979
Exp. 06/30/25
CIVIL
STATE OF CALIFORNIA

05/02/25

REVISIONS:	BY:

FORMER OAKLAND FOUNDRY
OAKLAND, CA
TEMP PIT COVER PLANS

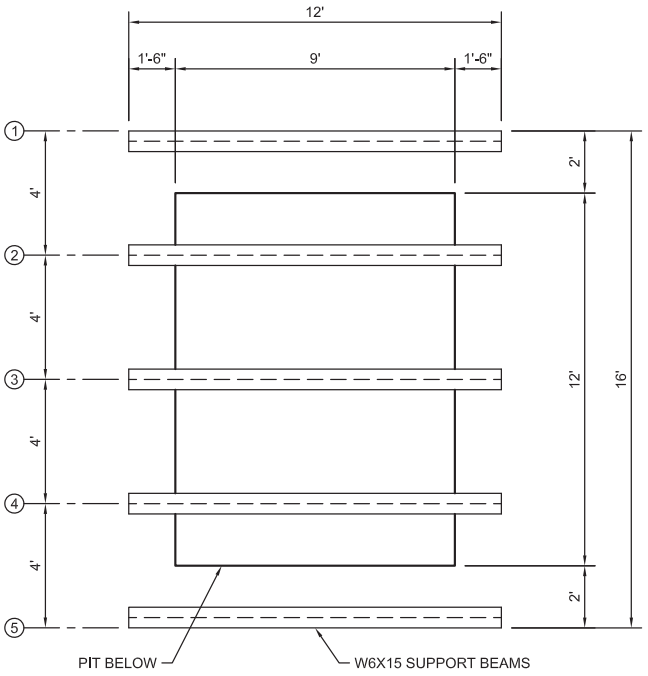
ICS
2525 STANWELL DRIVE
SUITE 200
CONCORD, CA 94520

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

DATE:	05/02/25
SCALE:	NOTED
BY:	J.W.H.
JOB #:	1868-3
SHEET:	5 OF 7

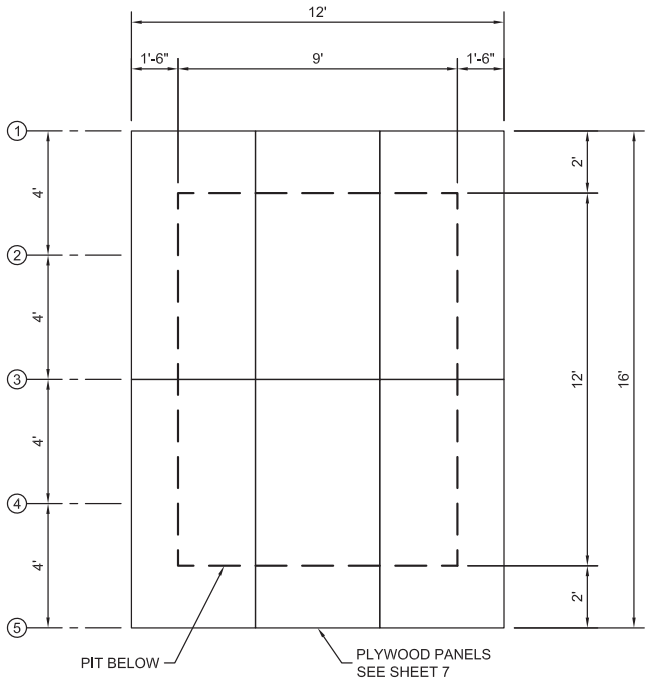
SEE SHEET 7 FOR NOTES

PIT#6 - 9' X 12'



PLAN VIEW 1/6
SCALE: 1/8"=1'-0"

(STEEL SUPPORT BEAM PLACEMENT)



PLAN VIEW 2/6
SCALE: 1/8"=1'-0"

(PLYWOOD PANEL PLACEMENT)

REGISTERED PROFESSIONAL ENGINEER
JOSEPH W. HARTMAN
No. C-59979
Exp. 06/30/25
CIVIL
STATE OF CALIFORNIA

05/02/25

REVISIONS:	BY:

FORMER OAKLAND FOUNDRY
OAKLAND, CA
TEMP PIT COVER PLANS

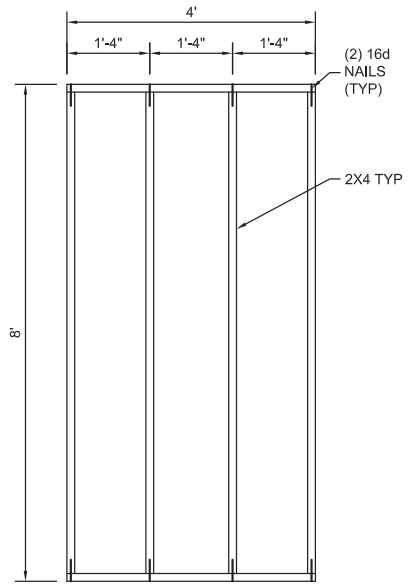
ICS
2525 STANWELL DRIVE
SUITE 200
CONCORD, CA 94520

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

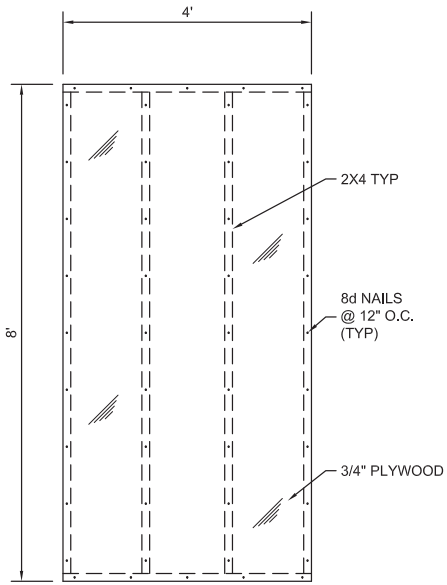
DATE:	05/02/25
SCALE:	NOTED
BY:	J.W.H.
JOB #:	1868-3
SHEET:	6 OF 7

NOTES:

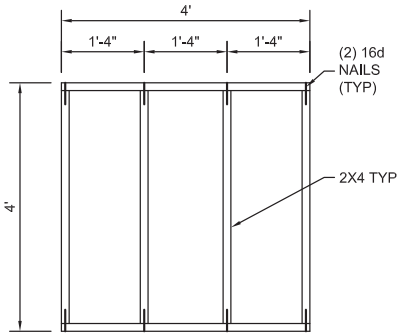
1. THESE PLANS ARE FOR TEMPORARY COVERS TO EXISTING PITS.
2. SUPPORT BEAMS ARE TO BE ASTM A572 GRADE 50, MIN YIELD STRENGTH OF Fy = 50 KSI.
3. LUMBER TO BE DF NO 2 OR BETTER.
3. PLYWOOD TO BE APA RATED STRUCTURAL 1 MDO.
4. TOENAIL PANELS TOGETHER WITH 16d NAILS AT MAX 24-INCHES O.C.
5. ICS IS TO PROVIDE BARRICADING IN ORDER TO KEEP VEHICLE AND PEDESTRIAN TRAFFIC OFF OF THE COVERS.
6. ICS SHALL HAVE A COMPETENT PERSON ON SITE WHERE THESE PLANS ARE TO BE USED. IT IS THIS PERSONS RESPONSIBILITY TO ENSURE THAT THE TEMPORARY COVERS ARE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS. THEY ARE TO NOTIFY HARTMAN CIVIL ENGINEERING IF FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, SO THAT POSSIBLE REMEDIAL ACTION CAN BE TAKEN.



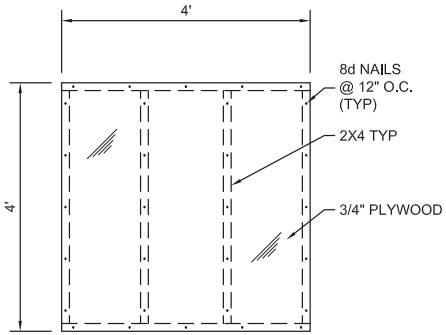
DETAIL 1/7
SCALE: 1/4"=1'-0"
(PLYWOOD PANEL FRAME)



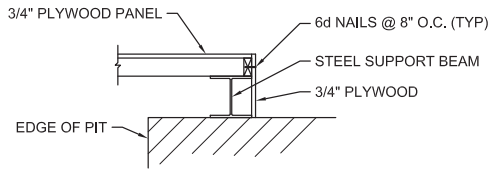
DETAIL 2/7
SCALE: 1/4"=1'-0"
(PLYWOOD PANEL)



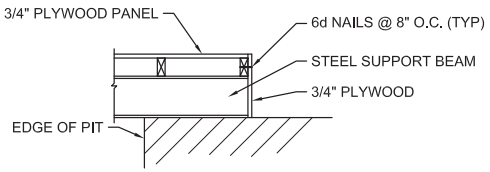
DETAIL 3/7
SCALE: 1/4"=1'-0"
(PLYWOOD 1/2 PANEL FRAME)



DETAIL 4/7
SCALE: 1/4"=1'-0"
(PLYWOOD 1/2 PANEL)



DETAIL 5/7
SCALE: 1/4"=1'-0"
(PLYWOOD EDGE ALONG END BEAMS)



DETAIL 6/7
SCALE: 1/4"=1'-0"
(PLYWOOD EDGE ALONG BEAM ENDS)



05/02/25

REVISIONS:	BY:

FORMER OAKLAND FOUNDRY
OAKLAND, CA
TEMP PIT COVER PLANS

ICS
2525 STANWELL DRIVE
SUITE 200
CONCORD, CA 94520

HARTMAN
Civil Engineering, Inc.
P.O. Box 2958
Petaluma, CA 94953
Office: (707) 763-2862
Fax: (707) 773-2953

DATE:	05/02/25
SCALE:	NOTED
BY:	J.W.H.
JOB #:	1668-3
SHEET:	7 OF 7