STANDARD CHLORINE CHEMICAL CO. INC. SUPERFUND SITE
MONTHLY PROGRESS REPORT
JUNE 2015

I. Actions Completed During the Reporting Period (June 2015)

The investigation of a localized area south of the Site and outside of the barrier wall was initiated in accordance with the scope of work previously approved by EPA.

Revision of the Remedial Investigation (RI) Report to address EPA comments dated June 5, 2015 was initiated.

Responses to EPA comments on the Cultural Resources documents and exhibit were provided to EPA on June 18, 2015.

The Table of Contents for the FFS Report was submitted to EPA on June 18, 2015.

Preparation of the Focused Feasibility Study (FFS) continued.

II. Results of Sampling, Tests, and Data Received by Respondents

No data were received by Respondents during the reporting period, except for routine data associated with the operations and maintenance of Hydraulic Control Treatment System (HCTS). These data are summarized on a quarterly-basis in an appendix to the monthly progress reports.

III. Work Planned for the Next Two Months (July and August 2015)

Implementation of the scope of work for investigation of a localized area south of the Site and outside of the barrier wall will be completed, and preparation of the RI Report Addendum documenting the work and summarizing the results will be initiated.

Implementation of the Cultural Resources Survey Work Plan will continue with the finalization of the documents and exhibit in accordance with the June 18, 2015 responses to the EPA comments received on May 29, 2015.

The RI Report will be revised and submitted to EPA by July 22, 2015.

Surveying of the new top-of-casing elevations of the extended piezometers, hydraulic control wells, and dense non-aqueous phase liquid (DNAPL) recovery wells on the Hudson County Improvement Authority (HCIA) property will be completed, and if made available by HCIA, the review of the geotechnical assessment of the effects of fill placement on the slurry wall.

Preparation of the FFS will continue and a draft FFS will be submitted to EPA on July 28, 2015.

Implementation of the Cultural Resources Survey Work Plan will continue with the finalization of the documents and exhibit in accordance with the June 18, 2015 responses to the EPA comments received on May 29, 2015.

A review of the geotechnical assessment of the effects of fill placement on the slurry wall will be completed if the assessment is completed and made available by HCIA.

Monthly progress reports will continue to be prepared and submitted to EPA.

IV. Problems Encountered/Anticipated Delays

None this reporting period.

V. Operations and Maintenance Information

Routine operations and maintenance activities were completed. A summary of operations and maintenance activities are provided on a quarterly-basis. The summary for the second quarter of 2015 is included as Appendix A to this report.

APPENDIX A

1.0 DESCRIPTION OF ACTIVITIES COMPLETED

1.1 HYDRAULIC CONTROL TREATMENT SYSTEM (HCTS)

- Continued routine HCTS operation, monitoring, inspection and reporting efforts as summarized below:
  - Average monthly flows for April, May and June 2015 were 23.1 gpm, 19.0 gpm and 19.7 gpm, respectively. The total volume of water treated this reporting period was 2,787,325 gallons.
  - Monthly NJPDES sample collection pursuant to NJ Permit No. NJ0155438 was completed. There were no exceedances of permit monitored constituents noted during this period. Whole Effluent Toxicity (WET) via Method 1002.0 (Mysidopsis Bahia), was reported at IC_{25} >100% growth for the 2015 2nd quarter monitoring event.
  - The Final NJPDES BGR Permit was received on June 29, 2015 and became effective on July 1, 2015. Reduction in WET sampling frequency to semiannual from quarterly will become effective on July 1, 2015 and will require one (1) WET sampling event for the monitoring period of July – December 2015. Three additional discharge monitoring parameters (Naphthalene, Bis(2-ethylhexyl)phthalate and Total Iron) will be added to the monthly discharge monitoring analytical suite beginning in July 2015.
  - Preparations for retrofitting of existing HC and DR wells and associated sub-grade electrical and groundwater conveyance components to accommodate for future placement of Processed Dredge Material (PDM) on the Seaboard Site, as proposed by HCIA, were initiated during the week of April 6, 2015. HC and DR well assemblies (PVC and HDPE risers, electrical panels and concrete well vaults) were raised at HCWU-23, 24, 25 and 26 as well as DRWL-10 and 11. PZ-8U/L, PZ-9U/L, PZ-10U/L and PZ-11U/L series piezometers were also raised to accommodate for future PDM placement. Currently FTS is awaiting PDM placement in the area of the above referenced HCTS well network by HCIA to complete the retrofitting efforts.

- Water level gauging data collected during the reporting period from the piezometers, hydraulic control wells and DNAPL recovery wells are provided in Table 1. Figures 1 and 2 provide February 2015 potentiometric surface data (representing a typical HCTS operational

scenario for the reporting period), for both the surficial fill unit and deep sand unit, respectively. Figure 1 shows pronounced gradients toward HCWs across the site within the shallow fill unit. Figure 1 also shows a significant differential in potentiometric surface elevations between inner and outer slurry wall piezometer pairs, indicating that the slurry wall is functioning as an effective hydraulic barrier.

Potentiometric surface elevation contours for the deep sand unit are provided on Figure 2. As indicated, the hydraulic gradient in the sand unit is essentially flat over the area enclosed by the barrier wall system. Similar to the shallow unit, substantial differentials between the water levels inside and outside of the slurry wall exist which is an indication of the lack of hydraulic communication and groundwater flux through the barrier wall in the deep sand unit.

Figures 3, 4 and 5 present graphs of the monthly (April, May and June 2015, respectively) water level measurements made in the shallow unit piezometers inside and outside of the slurry wall and the nearest hydraulic control well. The graphs show that hydraulic gradients inside the barrier wall continue to be inward toward the hydraulic control wells. The graphs also show substantial differentials continue to exist between the water levels inside and outside of the slurry wall. Such differentials are indicative of a lack of hydraulic communication between the fill unit inside and outside of the barrier wall and are demonstrative of the effective containment resulting from the low permeability barrier wall system.

1.2 DNAPL MEASUREMENT AND RECOVERY

- DNAPL measurements from recovery wells are provided in Table 2. DNAPL recovery efforts for the second quarter of 2015 produced 208 gallons of DNAPL. A total of 5,540 gallons of DNAPL have been recovered from the DNAPL recovery well network since January 2012. Total DNAPL recovery to date is provided in the summary table below.

Well ID	April 2015 DNAPL Recovery (gal)	May 2015 DNAPL Recovery (gal)	June 2015 DNAPL Recovery (gal)	Total DNAPL Recovered (gal)
DRWL-1	NR	NR	NR	396
DRWL-5	NR	NR	NR	349
DRWL-7	NR	NR	NR	50
DRWL-9	NR	NR	NR	878.5
DRWL-10	NR	NR	NR	142
DRWL-11	53	80	75	3,724

1.3 NON-HCTS INSPECTIONS

- Continued post-construction inspections of the surface covers, cathodic protection system/steel sheet pile wall, stormwater management system, freshwater wetlands, fences and slurry wall working platform.

- Based upon the July 2015 Wetland Mitigation Monitoring performed by Princeton Hydro, current conditions of the onsite fresh water wetlands are considered to be at or near the 10% maximum coverage of non-native invasive species specified in the wetland mitigation program for the SCCC site. It is anticipated that FTS, on the CPG's behalf, will petition the agency to conduct a final site inspection of the freshwater wetlands during the third quarter of 2015.

1.4 ADDITIONAL COMPLETED EFFORTS

- None to report this period

2.0 PROJECTED FUTURE ACTIVITIES

2.1 HCTS RELATED EFFORTS

- Continue routine HCTS operations, monitoring and maintenance.

- DNAPL recovery will continue.

2.2 NON-HCTS RELATED EFFORTS

- Routine Non-HCTS (consolidation area and IRM surface covers) inspections and maintenance will continue.
- Soil erosion areas and re-vegetation issues will be addressed, as necessary.
- Quarterly inspections of the surface cover systems and repair (as necessary) will continue.

TABLES

Table 1

Standard Chlorine Chemical Co. Inc.
2nd Quarter 2015 Progress Report

HCTS Gauging Data Summary

Well ID	Top of Casing Elevation MSL (NAD 83)	Apr-15			May-15			Jun-15		
		Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)	Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)	Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)
HC-PZ-1U	11.18	6.31	16.68	4.87	6.69	16.69	4.49	6.63	16.73	4.55
HC-PZ-2U	11.32	6.28	16.05	5.04	6.86	16.05	4.46	6.50	16.10	4.82
HC-PZ-3U	10.33	6.61	14.99	3.72	7.7	14.98	2.63	6.91	15.08	3.42
HC-PZ-4U	10.16	6.66	14.60	3.50	4.93	14.58	5.23	4.50	14.60	5.66
HC-PZ-6U	7.15	0.76	9.45	6.39	2.31	9.43	4.84	2.05	9.42	5.10
HC-PZ-7U	6.51	0.04	8.90	6.47	1.91	8.90	4.60	1.24	8.97	5.27
HC-PZ-8U	15.75	10.91	20.89	4.84	12.21	20.90	3.54	10.90	20.90	4.85
HC-PZ-9U	15.86	10.49	20.90	5.37	11.71	20.83	4.15	11.10	20.80	4.76
HC-PZ-10U	15.28	12.44	19.60	2.84	14.15	19.58	1.13	13.49	19.60	1.79
HC-PZ-11U	15.98	8.93	14.45	7.05	9.43	14.50	6.55	9.35	14.50	6.63
HC-PZ-12U	5.35	2.39	8.42	2.96	3.2	8.45	2.15	2.43	8.45	2.92
HC-PZ-13U	4.76	1.87	8.40	2.89	2.83	8.38	1.93	2.71	8.39	2.05
HC-PZ-14U	6.03	1.92	10.05	4.11	2.94	10.03	3.09	2.30	10.09	3.73
HC-PZ-15U	8.28	4.30	11.72	3.98	5.39	11.73	2.89	5.28	11.74	3.00
HC-PZ-1L	11.48	7.47	25.15	4.01	8.1	23.16	3.38	7.68	25.09	3.80
HC-PZ-2L	12.15	8.66	23.82	3.49	9.07	23.82	3.08	9.08	23.64	3.07
HC-PZ-3L	9.97	5.79	23.50	4.18	6.47	23.52	3.50	5.82	23.58	4.15
HC-PZ-4L	9.17	3.39	20.54	5.78	6.83	20.53	2.34	6.40	20.54	2.77
HC-PZ-6L	6.06	3.02	16.85	3.04	3.4	16.83	2.66	3.17	16.83	2.89
HC-PZ-7L	5.5	0.90	16.99	4.60	1.38	16.98	4.12	0.88	17.16	4.62
HC-PZ-8L	14.89	10.59	29.05	4.30	11.46	28.85	3.43	10.70	29.20	4.19
HC-PZ-9L	15.3	11.35	28.71	3.95	12.2	28.70	3.10	11.90	28.85	3.40
HC-PZ-10L	10.1	13.55	29.90	-3.45	13.85	29.89	-3.75	13.46	29.88	-3.36
HC-PZ-11L	8.96	7.68	22.05	1.28	8.08	22.06	0.88	8.00	22.00	0.96
HC-PZ-12L	5.07	1.48	15.76	3.59	2.2	15.76	2.87	1.57	15.79	3.50
HC-PZ-13L	4.77	2.32	16.23	2.45	2.97	16.22	1.80	2.88	16.22	1.89
HZ-PZ-14L	6.43	2.50	18.85	3.93	3.21	18.83	3.22	2.66	18.89	3.77
SC-MW-16L	8.02	4.26	19.82	3.76	4.93	19.81	3.09	4.88	19.80	3.14

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		Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)	Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)	Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)
HCWU-1	10.30	8.07	13.60	2.23	7.35	13.59	2.95	7.37	13.59	2.93
HCWU-2	10.91	9.62	14.15	1.29	8.39	14.15	2.52	8.59	14.15	2.32
HCWU-3	9.85	10.09	13.85	-0.24	9.79	13.86	0.06	9.91	13.86	-0.06
HCWU-4	8.54	8.54	12.95	0.00	9.51	12.95	-0.97	7.96	12.95	0.58
HCWU-5	8.16	5.80	12.35	2.36	7.98	12.33	0.18	5.83	12.33	2.33
HCWU-6	5.84	0.69	10.35	5.15	5.02	10.36	0.82	3.73	10.36	2.11
HCWU-7	5.52	2.49	8.72	3.03	4.81	8.74	0.71	4.40	8.74	1.12
HCWU-8	5.65	0.72	11.88	4.93	6.65	11.88	-1.00	8.88	11.88	-3.23
HCWU-9	5.66	-0.18	6.85	5.84	0.81	6.85	4.85	0.19	6.85	5.47
HCWU-10	4.28	3.10	7.58	1.18	3.79	7.59	0.49	2.49	7.59	1.79
HCWU-11	5.96	1.40	8.36	4.56	4.34	8.36	1.62	2.39	8.36	3.57
HCWU-12	5.26	4.41	8.26	0.85	4.27	8.28	0.99	4.62	8.28	0.64
HCWU-13	4.14	0.96	7.85	3.18	2.19	7.85	1.95	4.31	7.85	-0.17
HCWU-14	2.95	-0.86	5.39	3.81	-0.03	5.40	2.98	-0.61	5.40	3.56
HCWU-15	4.44	6.89	8.78	-2.45	4.77	8.78	-0.33	4.57	8.78	-0.13
HCWU-16	3.98	-0.06	8.50	4.04	5.69	8.50	-1.71	0.74	8.50	3.24
HCWU-17	3.31	-0.88	7.50	4.19	4.48	7.50	-1.17	0.92	7.50	2.39
HCWU-18	3.16	1.01	6.50	2.15	0.28	6.50	2.88	1.05	6.50	2.11
HCWU-19	2.97	-1.12	8.40	4.09	5.18	8.39	-2.21	-0.87	8.39	3.84
HCWU-20	3.32	1.19	7.28	2.13	3.60	7.29	-0.28	2.85	7.29	0.47
HCWU-21	13.41	13.66	17.07	-0.25	13.64	17.05	-0.23	11.97	17.05	1.44
HCWU-22	4.99	4.29	9.70	0.70	4.80	9.71	0.19	3.74	9.71	1.25
HCWU-23	11.53	4.43	16.29	7.10	7.91	16.30	3.62	7.25	16.30	4.28
HCWU-24	10.87	8.52	16.25	2.35	10.20	16.24	0.67	9.49	16.24	1.38
HCWU-25	16.60	17.24	21.40	-0.64	15.28	21.39	1.32	14.37	21.39	2.23
HCWU-26	11.71	8.07	17.50	3.64	9.20	17.50	2.51	10.61	17.50	1.10

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2nd Quarter 2015 Progress Report

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Well ID	Top of Casing Elevation MSL (NAD 83)	Apr-15			May-15			Jun-15		
		Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)	Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)	Depth to Water (ft-TOC)	Total Depth (ft- TOC)	Groundwater Elevation MSL (NAD 83)
DRWU-1	5.17	0.73	10.65	4.44	1.57	10.65	3.60	1.13	10.65	4.04
DRWU-2	5.63	1.19	11.79	4.44	2.00	11.79	3.63	1.48	11.79	4.15
DRWU-3	16.13	11.49	22.35	4.64	11.67	22.35	4.46	11.42	22.35	4.71
DRWU-4	4.71	0.07	12.15	4.64	1.00	12.15	3.71	0.59	12.15	4.12
DRWU-5	2.80	-1.18	8.82	3.98	-0.33	8.82	3.13	-0.93	8.82	3.73
DRWL-1	7.35	2.81	31.90	4.54	3.32	31.90	4.03	2.84	31.90	4.51
DRWL-2	3.09	-0.63	26.80	3.72	0.01	26.80	3.08	-0.42	26.80	3.51
DRWL-3	3.87	-0.22	28.87	4.09	0.50	28.87	3.37	0.01	28.87	3.86
DRWL-4	5.65	1.50	30.45	4.15	2.16	30.45	3.49	1.59	30.45	4.06
DRWL-5	5.74	-0.13	29.65	5.87	1.74	29.65	4.00	0.90	29.65	4.84
DRWL-6	17.36	12.90	40.82	4.46	13.58	40.82	3.78	12.38	40.82	4.98
DRWL-7	2.76	-1.19	27.15	3.95	-0.24	27.15	3.00	-0.88	27.15	3.64
DRWL-8	3.17	-0.84	28.65	4.01	0.02	28.65	3.15	-0.53	28.65	3.70
DRWL-9	4.69	0.17	28.30	4.52	0.98	28.30	3.71	0.35	28.30	4.34
DRWL-10[(1)]	12.52	8.79	36.61	3.73	9.51	36.61	3.01	8.95	36.61	3.57
DRWL-11	11.13	8.21	36.20	2.92	8.96	36.20	2.17	8.41	36.20	2.72

(1) Top of casing elevation at DRWL-10 is estimated based on field measurments pending final casing extension efforts.

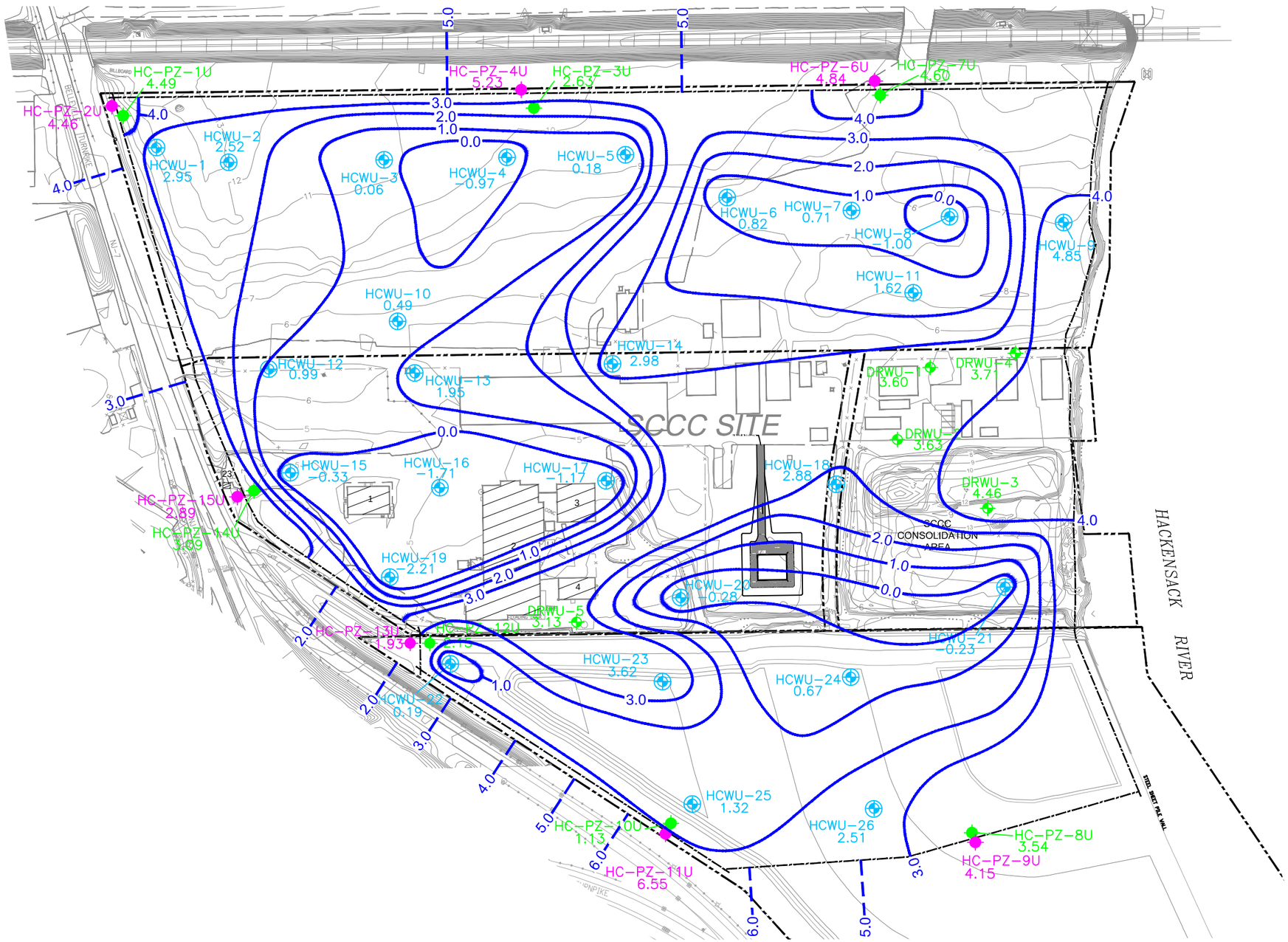
Table 2

Standard Chlorine Chemical Co. Inc.
2nd Quarter 2015 Progress Report
DNAPL Summary

Well ID	Apr-15				May-15				Jun-15			
	Depth to Water (ft-TOC)	Depth to DNAPL (ft-TOC)	Total Depth (ft- TOC)	DNAPL Thickness (ft)	Depth to Water (ft-TOC)	Depth to DNAPL (ft-TOC)	Total Depth (ft- TOC)	DNAPL Thickness (ft)	Depth to Water (ft-TOC)	Depth to DNAPL (ft-TOC)	Total Depth (ft- TOC)	DNAPL Thickness (ft)
DRWU-1	0.73	10.65	10.65	Trace	1.57	10.65	10.65	Trace	1.13	10.65	10.65	Trace
DRWU-2	1.19	NP	11.79	NP	2.00	NP	11.79	NP	1.48	NP	11.79	NP
DRWU-3	11.49	22.15	22.35	0.20	11.67	22.15	22.35	0.20	11.42	22.15	22.35	0.20
DRWU-4	0.07	12.15	12.15	Trace	1.00	12.15	12.15	Trace	0.59	12.15	12.15	Trace
DRWU-5	-1.18	NP	8.82	NP	-0.33	NP	8.82	NP	-0.93	NP	8.82	NP
DRWL-1	2.81	31.90	31.90	Trace	3.32	31.90	31.90	Trace	2.84	30.90	31.90	1.00
DRWL-2	-0.63	NP	26.80	NP	0.01	NP	26.80	NP	-0.42	NP	26.80	NP
DRWL-3	-0.22	28.87	28.87	Trace	0.50	28.87	28.87	Trace	0.01	28.87	28.87	Trace
DRWL-4	1.50	30.45	30.45	Trace	2.16	30.45	30.45	Trace	1.59	30.45	30.45	Trace
DRWL-5	-0.13	27.70	29.65	1.95	1.74	27.25	29.65	2.40	0.90	26.85	29.65	2.80
DRWL-6	12.90	NP	40.82	NP	13.58	NP	40.82	NP	12.38	NP	40.82	NP
DRWL-7	-1.19	26.65	27.15	0.50	-0.24	26.65	27.15	0.50	-0.88	26.65	27.15	0.50
DRWL-8	-0.84	NP	28.65	NP	0.02	NP	28.65	NP	-0.53	NP	28.65	NP
DRWL-9	0.17	25.75	28.30	2.55	0.98	25.75	28.30	2.55	0.35	25.65	28.30	2.65
DRWL-10	8.79	35.71	36.61	0.90	9.51	35.40	36.61	1.21	8.95	35.31	36.61	1.30
DRWL-11	8.21	35.40	36.20	0.80	8.96	31.20	36.20	5.00	8.41	31.20	36.20	5.00

ft-TOC: feet below top of casing.
NP: no product detected

FIGURES



LEGEND

- EXISTING ACCESS ROAD
- EXISTING NEW JERSEY TRANSIT RAILROAD (ACTIVE)
- EXISTING FENCE
- PROPERTY BOUNDARY
- EXISTING GROUND SURFACE ELEVATION CONTOURS
- EXISTING STREAM, POND AND RIVER BANK
- EXISTING STRUCTURE
- SLURRY WALL LOCATION
- FILL UNIT GROUNDWATER EXTRACTION (HYDRAULIC CONTROL) WELL LOCATION – UPPER ZONE
- FILL UNIT DNAPL RECOVERY WELL LOCATION – UPPER ZONE
- HYDRAULIC CONTROL PIEZOMETER UPPER ZONE – OUTSIDE WALL
- HYDRAULIC CONTROL PIEZOMETER UPPER ZONE – INSIDE WALL
- 1.89 GROUNDWATER ELEVATION
- 1.0 GROUNDWATER ELEVATION CONTOUR

0 120 240 FEET

PERFORMING PARTIES GROUP

DRWN: SCC	DATE: 07/30/15	KEY ENVIRONMENTAL INCORPORATED
CHKD:	DATE:	
APPD:	DATE:	
SCALE: AS SHOWN		

SCCC SITE
KEARNY, NEW JERSEY

GROUNDWATER ELEVATION CONTOURS
SURFICIAL FILL UNIT– MAY 2015

PROJECT NO: CPG-2015
FIGURE 1

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: EXISTING GROUND SURFACE CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001. HORIZONTAL REFERENCE: NEW JERSEY STATE PLANE COORDINATES (NAD 1927). VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

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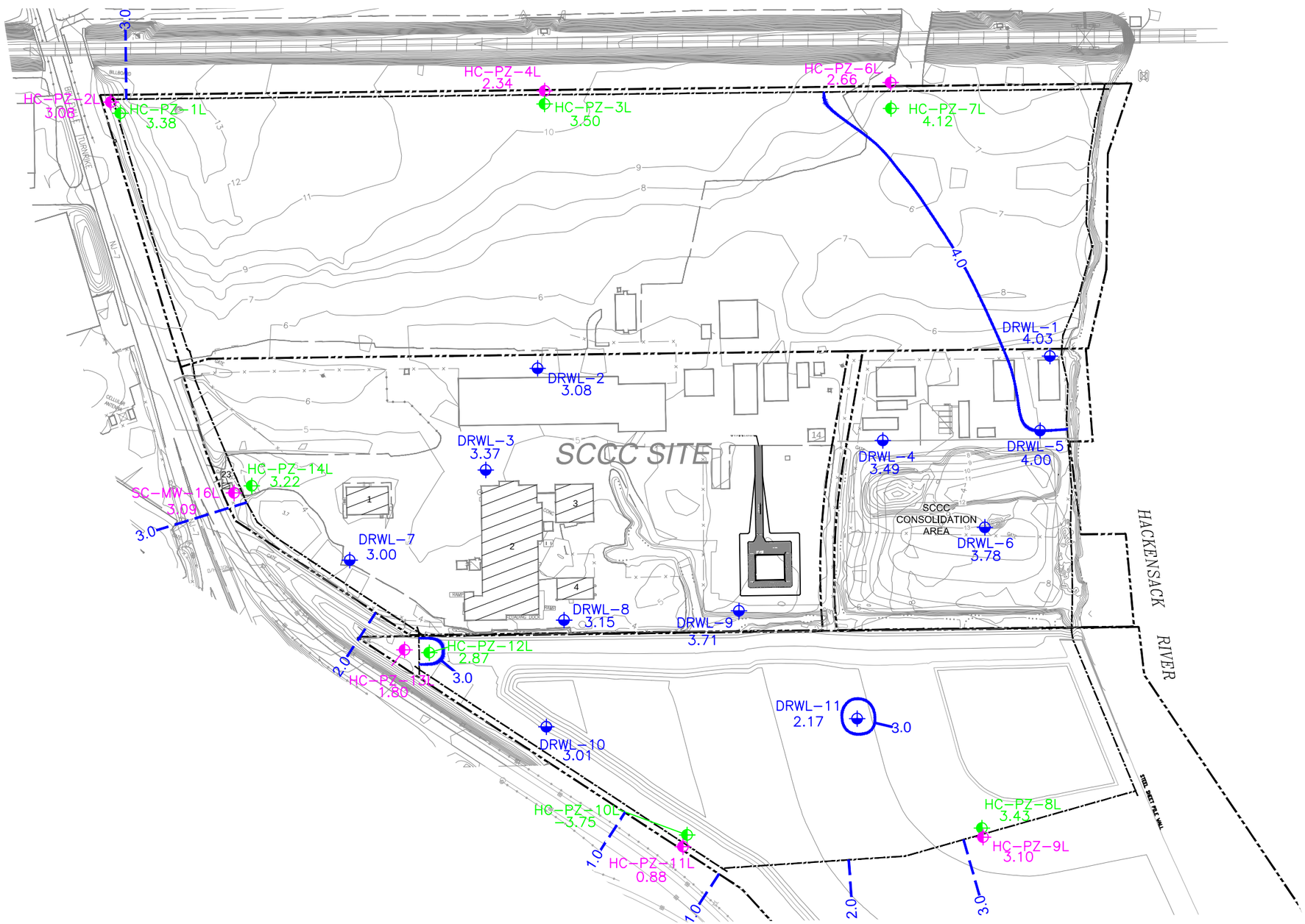

LEGEND

- EXISTING ACCESS ROAD
- EXISTING NEW JERSEY TRANSIT RAILROAD (ACTIVE)
- EXISTING FENCE
- PROPERTY BOUNDARY
- EXISTING GROUND SURFACE ELEVATION CONTOURS
- EXISTING STREAM, POND AND RIVER BANK
- SLURRY WALL LOCATION
- SAND UNIT DNAPL RECOVERY WELL LOCATION – LOWER ZONE
- HYDRAULIC CONTROL PIEZOMETER LOWER ZONE – OUTSIDE WALL
- HYDRAULIC CONTROL PIEZOMETER LOWER ZONE – INSIDE WALL
- 4.00 GROUNDWATER ELEVATION
- 4.0 GROUNDWATER ELEVATION CONTOUR

NOTE:
TOP OF CASING ELEVATION AT DRWL-10 IS ESTIMATED PENDING FINAL CASING EXTENSION EFFORTS.

0 120 240 FEET

PERFORMING PARTIES GROUP

DRWN: SCC	DATE: 07/30/15	KEY ENVIRONMENTAL INCORPORATED
CHKD:	DATE:	
APPD:	DATE:	
SCALE: AS SHOWN		

SCCC SITE
KEARNY, NEW JERSEY

GROUNDWATER ELEVATION CONTOURS
DEEP SAND UNIT – MAY 2015

PROJECT NO: CPG-2015
FIGURE 2

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: EXISTING GROUND SURFACE CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001. HORIZONTAL REFERENCE: NEW JERSEY STATE PLANE COORDINATES (NAD 1927). VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

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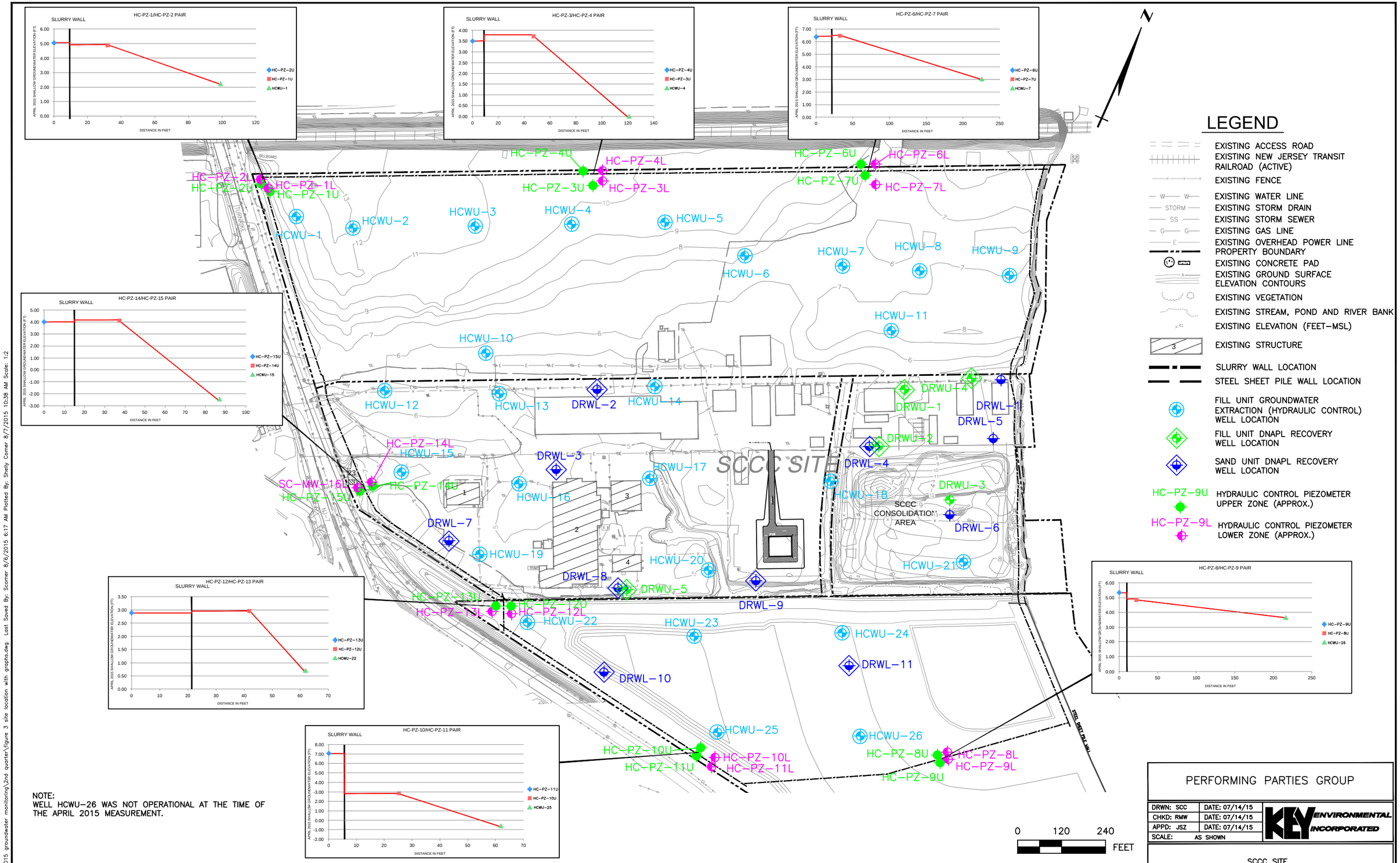
y:\00civil\kearny\2015 groundwater monitoring\2nd quarter\figure 2-may-new.dwg Last Saved By: Scomer 8/5/2015 7:52 AM Plotted By: Shelly Comer 8/5/2015 7:52 AM Scale: 1:2



NOTE:
WELL HCWU-26 WAS NOT OPERATIONAL AT THE TIME OF THE APRIL 2015 MEASUREMENT.

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: EXISTING GROUND SURFACE CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001. HORIZONTAL REFERENCE: NEW JERSEY STATE PLANE COORDINATES (NAD 1927). VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

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CARNEGIE, PA 15106

PERFORMING PARTIES GROUP

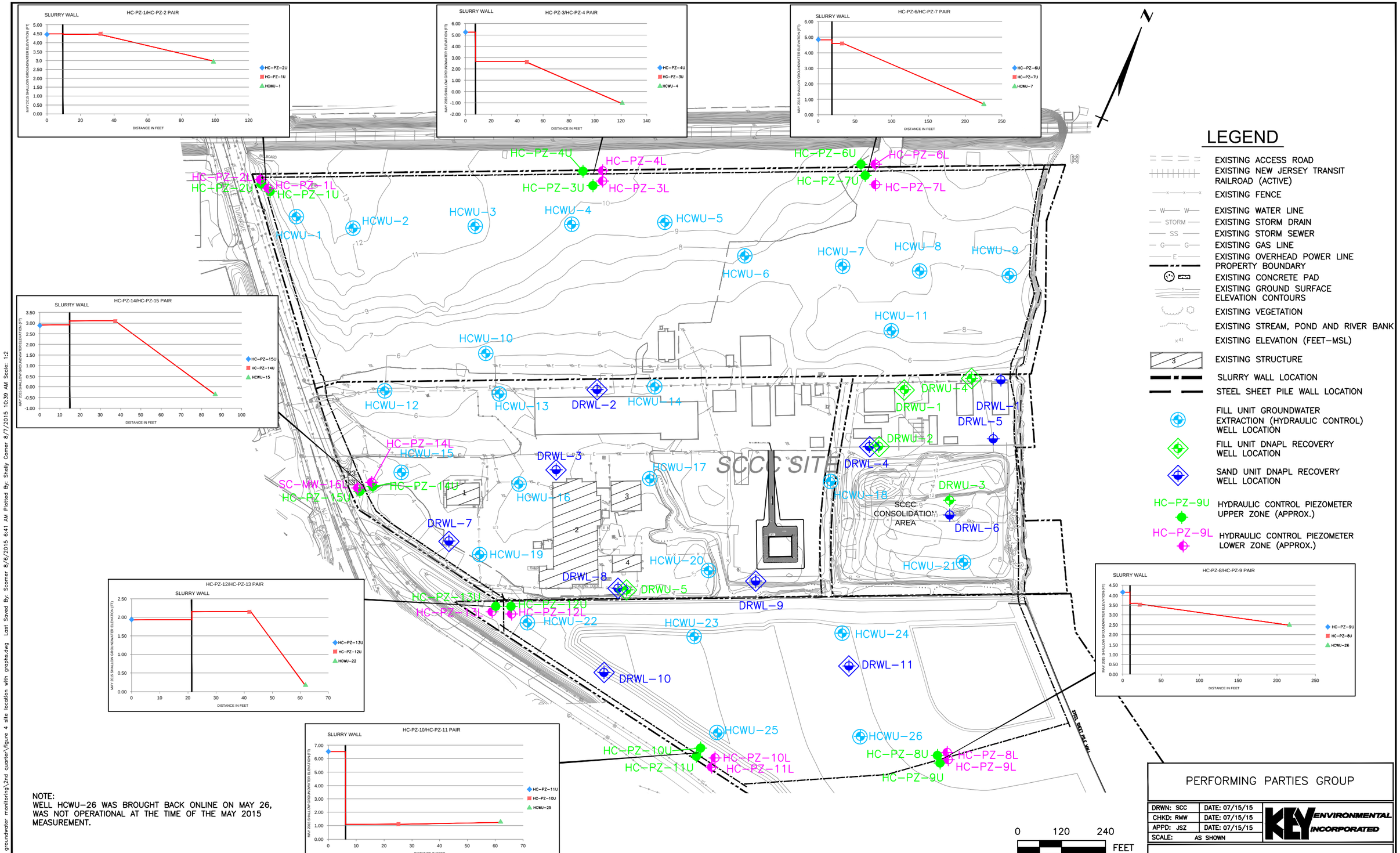
DRWN: SCC	DATE: 07/14/15	KEY ENVIRONMENTAL INCORPORATED
CHKD: RMW	DATE: 07/14/15	
APPD: JSZ	DATE: 07/14/15	
SCALE: AS SHOWN		

SCCC SITE
KEARNY, NEW JERSEY

GROUNDWATER GRAPHS
APRIL 2015

PROJECT NO: 2013-02
FIGURE 3

y:\06civil\kearny\2015 groundwater monitoring\2nd quarter\figure 3 site location with graphs.dwg Last Saved By: Scomer 8/6/2015 6:17 AM Plotted By: Shelly Comer 8/7/2015 10:38 AM Scale: 1:2



NOTE:
WELL HCWU-26 WAS BROUGHT BACK ONLINE ON MAY 26, WAS NOT OPERATIONAL AT THE TIME OF THE MAY 2015 MEASUREMENT.

REV #	DATE	DESCRIPTION	APPD

REFERENCE: EXISTING GROUND SURFACE CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001. HORIZONTAL REFERENCE: NEW JERSEY STATE PLANE COORDINATES (NAD 1927). VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
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CARNEGIE, PA 15106

PERFORMING PARTIES GROUP

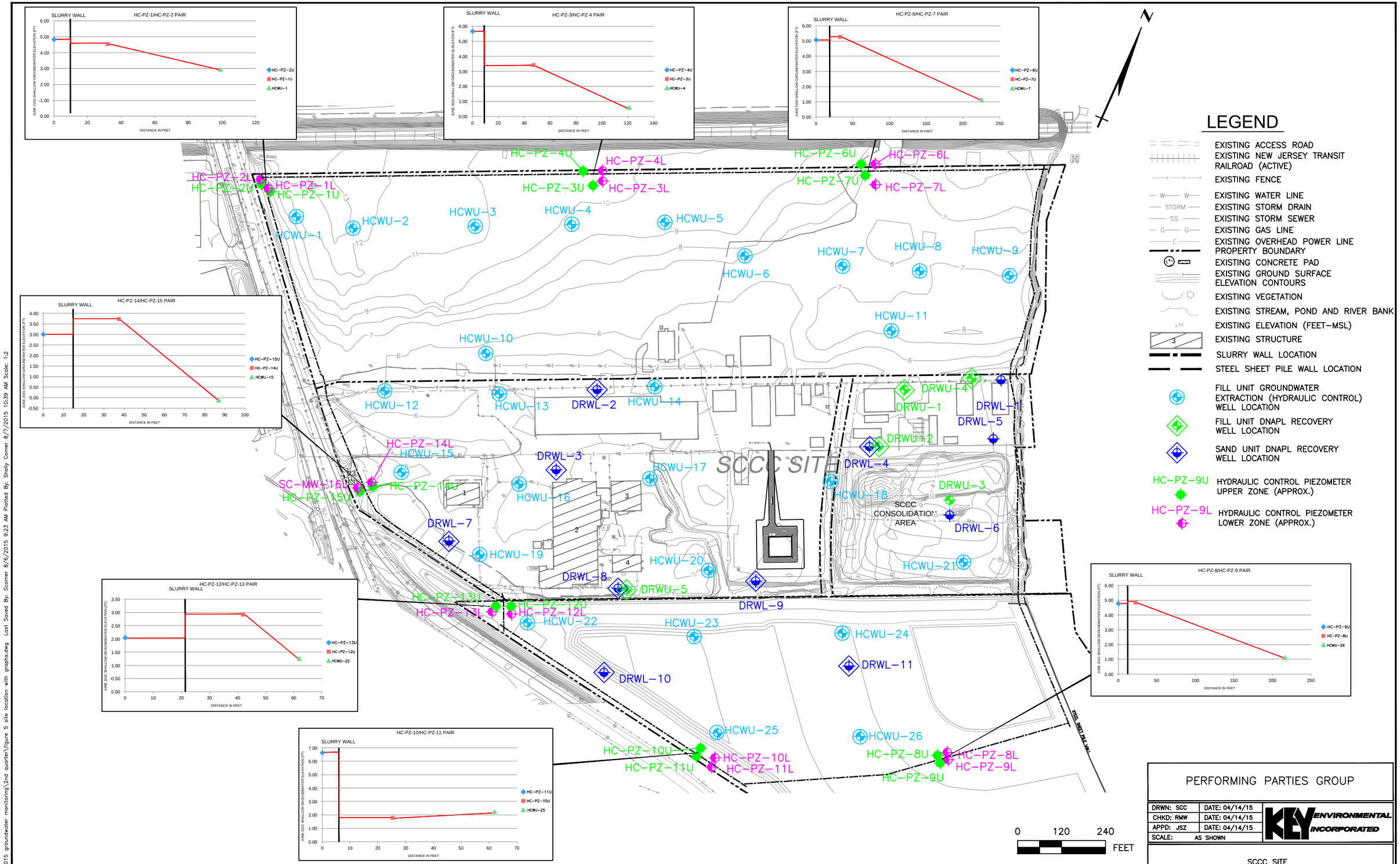
DRWN: SCC	DATE: 07/15/15	KEY ENVIRONMENTAL INCORPORATED
CHKD: RMW	DATE: 07/15/15	
APPD: JSZ	DATE: 07/15/15	
SCALE: AS SHOWN		

SCCC SITE
KEARNY, NEW JERSEY

GROUNDWATER GRAPHS
MAY 2015

PROJECT NO: 2013-02
FIGURE 4

y:\06civil\kearny\2015 groundwater monitoring\2nd quarter\figure 4 site location with graphs.dwg Last Saved By: Scomer 8/6/2015 6:41 AM Plotted By: Shelly Comer 8/7/2015 10:39 AM Scale: 1:2



PERFORMING PARTIES GROUP

DRWN: SCC	DATE: 04/14/15
CHKD: RMW	DATE: 04/14/15
APPD: JSZ	DATE: 04/14/15
SCALE: AS SHOWN	

KEY ENVIRONMENTAL INCORPORATED

SCCC SITE
KEARNY, NEW JERSEY

GROUNDWATER GRAPHS
JUNE 2015

PROJECT NO: 2013-02
FIGURE 5

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: EXISTING GROUND SURFACE CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001. HORIZONTAL REFERENCE: NEW JERSEY STATE PLANE COORDINATES (NAD 1927). VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

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y:\06civil\kearny\2015 groundwater monitoring\2nd quarter\figure 5 site location with graphs.dwg Last Saved By: Scomer 8/6/2015 9:23 AM Plotted By: Shelly Comer 8/7/2015 10:39 AM Scale: 1:2