

*Memorandum: Analytical Results Exceeding Remediation Goals
or Trigger Levels, Second Quarter 2010 (2Q2010)
Hunters Point Shipyard, San Francisco, California*

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To: Base Realignment and Closure Cleanup Team

From: Hamide Kayaci
Project Manager
Hunters Point Shipyard

Date: November 10, 2010

Subject: Groundwater Analytical Results Exceeding Remediation Goals
or Trigger Levels
Second Quarter 2010 (2Q2010)
Hunters Point Shipyard, San Francisco, California

Introduction

This memorandum presents a summary of validated analytical results that exceeded Remediation Goals or Trigger Levels in groundwater samples collected during the Second Quarter 2010 (April to June 2010; 2Q2010) at Hunters Point Shipyard in San Francisco, California. This sampling event was conducted according to the Basewide Groundwater Monitoring Program (BGMP) Final Sampling and Analysis Plan (Final SAP) (CE2-Kleinfelder Joint Venture, 2009) and subsequent SAP Annual Update (CE2-Kleinfelder Joint Venture, 2010).

Remediation Goals

Remediation Goals are analyte-specific and location-specific numerical criteria specified in HPS CERCLA documents including: Feasibility Study (FS) reports, Records of Decision (RODs), and/or Remedial Action Monitoring Plans (RAMPs). These criteria are based on exposure scenarios presented in these documents (i.e., residential, industrial, and/or construction worker).

Groundwater Trigger Levels

Groundwater Trigger Levels are similar to Remediation Goals except that they are criteria for the protection of the environment (e.g. surface water quality), and are derived from nomographs based on distance of the well from the point of surface water discharge. HPS CERCLA documents also refer to the following other numerical criteria which are grouped herein into the Trigger Level category of action limits: "Protection of the Environment;" "Migration of Surface Water to the Bay;" "Screening Levels;" and "Aquatic Evaluation Criteria."

Current (as of the date of this Memorandum) Remediation Goals and Trigger Levels are as specified in the following CERCLA documents:

*Draft Final Remedial Action Monitoring Plan – Parcel B - Excluding Installation
Restoration Sites 7 and 18, Hunters Point Shipyard (July 30, 2010)*

*Final Remedial Action Monitoring Plan – Installation Restoration Sites 7 and 18 - Parcel B,
Hunters Point Shipyard (January 8, 2010)*

Draft Final Record of Decision for Parcel C, Hunters Point Shipyard (August 13, 2010)

*Draft Final Remedial Action Monitoring Plan, Parcel D-1, Hunters Point Shipyard (October
15, 2010)*

Draft Feasibility Study Report for Parcel E, Hunters Point Shipyard (July 2009)

*Draft Final Remedial Investigation/Feasibility Study Report for Parcel E-2, Hunters Point
Shipyard (February 2009)*

*Final Remedial Action Monitoring Plan - Parcel G, Hunters Point Shipyard (October 4,
2010)*

*Draft Final Remedial Action Monitoring Plan, Parcels UC-1 and UC-2, Hunters Point
Shipyard (August 20, 2010)*

Table 1 presents the analytical results that exceeded Remediation Goals or Trigger Levels in the referenced sampling event.

REFERENCES

CE2-Kleinfelder Joint Venture, 2009. Final Sampling and Analysis Plan (Field Sampling Plan and Quality Assurance Project Plan) for Basewide Groundwater Monitoring Program, Hunters Point Shipyard, San Francisco, California. March 5.

CE2-Kleinfelder Joint Venture, 2010. Annual Update of Final Sampling and Analysis Plan, Hunters Point Shipyard, San Francisco, California. March 9.

Table 1. Exceedances of Remediation Goals or Trigger Levels (2Q2010).

Well ID	Parcel	Aquifer	Sampling Objective	Target Analyte	Remediation Goal (ug/L)	Trigger Level (ug/L) ¹	Result Exceeding RG or TL
IR10MW13A1	B	A	MN	TCE	2.9		3.2
IR10MW59A	B	A	MN	Vinyl chloride	0.5		14
IR10MW61A	B	A	MN	Vinyl chloride	0.5		18
IR26MW49A	B	A	MN	Mercury		0.6	2.6
IR06MW22A	C	A	MN	Chloroform	0.7		0.89 J
IR06MW22A	C	A	MN	TCE	2.9		5.5
IR06MW22A	C	A	MN	Vinyl chloride	0.5		70
IR06MW32A	C	A	MN	Vinyl chloride	0.5		1.3
IR06MW40A	C	A	MN	Vinyl chloride	0.5		16
IR06MW59A1	C	A	MN	PCE	0.54		10
IR06MW59A1	C	A	MN	TCE	2.9		26
IR06MW59A1	C	A	MN	Vinyl chloride	0.5		5.9
IR25MW16A	C	A	MN	TCE	2.9		190
IR25MW16A	C	A	MN	Vinyl chloride	0.5		12
IR25MW55A	C	A	MN	1,2-DCA	2.3		51
IR25MW55A	C	A	MN	cis-1,2-DCE	210		1,300
IR25MW55A	C	A	MN	PCE	0.54		300
IR25MW55A	C	A	MN	TCE	2.9		98 J
IR25MW55A	C	A	MN	Vinyl chloride	0.5		170
IR25MW902B	C	B	MN	1,2-DCA	0.5		15,000
IR25MW902B	C	B	MN	1,2-Dichlorobenzene	600		9,800
IR25MW902B	C	B	MN	1,4-Dichlorobenzene	5.0		2,400
IR25MW902B	C	B	MN	cis-1,2-DCE	6.0		26,000
IR25MW902B	C	B	MN	PCE	5.0		2,800

Well ID	Parcel	Aquifer	Sampling Objective	Target Analyte	Remediation Goal (ug/L)	Trigger Level (ug/L) ¹	Result Exceeding RG or TL
IR25MW902B	C	B	MN	TCE	5.0		1,200
IR25MW902B	C	B	MN	trans-1,2-DCE	10		560 J
IR25MW902B	C	B	MN	Vinyl chloride	0.5		9,500
IR28MW200A	C	A	MN	TCE	2.9		7.7
IR28MW211F	C	Bedrock	MN	1,2-DCA	2.3		9.1
IR28MW211F	C	Bedrock	MN	Vinyl chloride	0.5		48
IR28MW355F	C	Bedrock	MN	Chloroform	0.7		1.8
IR28MW355F	C	Bedrock	MN	TCE	2.9		16
IR28MW407	C	A	MN	1,4-Dichlorobenzene	2.1		27
IR28MW407	C	A	MN	Vinyl chloride	0.5		86
IR58MW31A	C	A	MN	1,4-Dichlorobenzene	3.6		260
IR58MW31A	C	A	MN	Benzene	0.63		19
IR58MW31A	C	A	MN	Chlorobenzene	390		2,100
IR58MW31A	C	A	MN	Vinyl chloride	0.5		6.2
PA28MW52A	C	A	MN	PCE	0.9		1.5
PA50MW06A	D-1	A	SDC	Chloroform	1.0		1.6
IR04MW37A	E	A	MN	TCE	2.9		14
IR01MW38A	E-2	A	MN	Ammonia (un-ionized)		25	19,500
IR01MW48A	E-2	A	MN	Ammonia (un-ionized)		25	16,300
IR01MW60A	E-2	A	MN	Ammonia (un-ionized)		25	8,700
IR01MW64A	E-2	A	MN	Ammonia (un-ionized)		25	2,700
IR09MW07A	G	A	SDC	TCE	2.9		3.6
IR71MW03A	G	A	SDC	PCE	0.54		12
IR71MW03A	G	A	SDC	TCE	2.9		3.4

Well ID	Parcel	Aquifer	Sampling Objective	Target Analyte	Remediation Goal (ug/L)	Trigger Level (ug/L) ¹	Result Exceeding RG or TL
IR06MW54F	UC-2	Bedrock	SDC	Carbon tetrachloride	0.5		7.2
IR06MW54F	UC-2	Bedrock	SDC	Chloroform	1.0		2.6

Notes:

¹ Includes the following numerical criteria identified in HPS CERCLA documents: "Protection of the Environment," "Migration to Surface Water of the Bay," "Screening Levels," and "Aquatic Evaluation Criteria."
Remediation Goals and Trigger Levels are current as of the date of this Memorandum.

Abbreviations:

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

J: Detected below the practical quantitation limit but above the method detection limit; estimated value

MN: Monitoring Network

SDC: Supplemental Data Collection

TRANSMITTAL FORM



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Date: 29 November, 2010

To: Diane Silva, Command Records Manager
Naval Facilities Engineering Command, Southwest
2965 Mole Rd., Bldg. 3519
San Diego, CA 92136

Re: Contract No. N62473-09-D-3001

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3	November 2010	<ul style="list-style-type: none">Compact discs with electronic version of above referenced document, and document in native file format

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Remarks: Dear Ms. Silva,

Please find the enclosed documents for the Base Repository and Administrative Record copies. Please contact Mr. Bruce Rucker of CE2-Kleinfelder Joint Venture at (925) 463-7301 x112 or via e-mail at rucker@ce2corp.com if you have any questions.

Copy to:

File
Hamide Kayaci, BRAC PMO West (*electronic file only*)

Signed: Bruce M. Rucker

Date: 11/29/10

Bruce Rucker
CE2 Corporation

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