AR_N00217_000885
HUNTERS POINT
SSIC NO. 5090.3.A

TETRA TECH EC, INC.

March 20, 2006

Attention: Mr. Jose Payne, R.E.A, Navy RPM

Contract: Base Realignment and Closure (BRAC) Program Management Office West Remedial Action Contract (RAC) No.N68711-98-D-5713

Contract Task Order: CTO No. 0084

Subject: BUILDING 115 WASTE CONSOLIDATION FINAL STATUS REPORT

Dear Mr. Payne:

The purpose of this report is to summarize the remediation and cleanup activities of Building 115 at Hunters Point Shipyard.

BACKGROUND

The Department of the Navy (DON) awarded Contract Task Order (CTO) No. 0084 modification (MOD) 008 to Tetra Tech EC, Inc. (TtEC) to (1) survey selected areas of tenant-occupied Building 115; (2) identify industrial process equipment (IPE), hazardous waste, and certain specified non-hazardous waste in those areas of the building; and (3) dispose of those wastes. Building 115 is located at Hunters Point Shipyard, San Francisco, California. Work within Room 102 of Building 115 included the following activites:

- Survey the subfloor area to identify IPE, specified non-hazardous wastes, and potential hazardous wastes.
- Sample the IPE for polychlorinated biphenyls (PCBs).
- Remove IPE from the subfloor.
- Sample, consolidate, and dispose of wastes identified in the survey.
- Evaluate potential asbestos-containing material in the subfloor area.

Additionally, TtEC evaluated the sump and associated contents located outside Building 115.

As described in detail below, each of the work activities was conducted successfully. Attachment 1 shows a floor plan of the building.

SURVEY AND SAMPLING

The survey of the subfloor area in Room 102 inside Building 115 was performed in September 2005. The survey consisted of a visual inspection to identify IPE and potential waste items.

The survey of the subfloor in Room 102 detected numerous containers of acrylic and latex paints, three pieces of IPE and associated piping, and a dry sump. In addition a variety of other general non-hazardous trash and debris was identified. The sump outside Building 115 contained an accumulation of rainwater and debris. Photographs documenting the results of the survey are shown in Attachment 2. As a follow up to the investigative cleanup survey, three separate sampling events took place to characterize the materials of concern identified in the IPE and the sump outside the building.

The first sampling event collected a water sample (sample 84-B115-001) from the exterior sump. Analysis was performed to assess the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, PCBs, Title 22 metals, total extractable petroleum hydrocarbon (TPH–extractable) and ignitability.

The second sampling event collected four distinct samples. The first (sample 84-B115-002) was a product sample from IPE-1. This sample was analyzed for PCBs, ignitability and TPH-extractable. The second (sample 84-B115-003) was a solid sample from the dry sump in the subfloor area. This sample was analyzed for SVOCs, PCBs and Title 22 Metals. The third (sample 84-B115-004) was a wipe sample of the exterior of IPE-2 that was analyzed for PCBs. The fourth sample (sample 84-B115-005) was a wipe sample of the exterior of IPE-03, which was also analyzed for PCBs.

The third and final sampling event collected a sample (sample 84-115-006) from a box of acoustical tiles that was left among the general debris that was analyzed for PCBs. Markings on the exterior of the box by persons unknown had implied that the contents contained PCBs.

Sampling of the paint containers was not required to characterize these materials for disposition.

The analyses were performed in accordance with *Final Addendum 1 to the Draft Final Sampling and Analysis Plan*, PCB Hot Spot Soil Excavation Site, Parcels E and E-2, Hunters Point Shipyard, California, (TtEC, 2005), Section 4.6 – Building 115 Sampling. The laboratory analytical results are presented in Attachment 3. The analyses resulted in the waste determinations shown below in Table 1.

TABLE 1

BUILDING 115 WASTE DISPOSAL DETERMINATIONS

Sample ID	Sample	Results
84-B115-001	Water sample	Water is non-hazardous
84-B115-002	Product sample from IPE-1	Non-RCRA Hazardous Waste Liquid (used oil)
84-B115-003	Solid sample from sump interior	TSCA/RCRA Hazardous
84-B115-004	Wipe sample from IPE-2	TSCA/Non-RCRA Hazardous
84-B115-005	Wipe Sample from IPE-3	TSCA/Non-RCRA Hazardous
84-B115-006	Solid sample of acoustical tile	Non-hazardous

Notes:

RCRA – Resource Conservation and Recovery Act
TSCA – Toxic Substances Control Act

CLEANUP

Based on the analytical results, cleanup activities were performed in the exterior sump and the sub-floor area of Room 102. These included:

- The non-hazardous water in the exterior sump was transferred to the PCB Hot Spot decontamination wastewater tank.
- The paint was used on site, preventing the need for off-site disposal. The resulting empty paint cans were properly disposed of as non-hazardous waste.
- The non-hazardous acoustical tiles were left in place.
- As described below, the three IPE items were drained and removed.
- After removal of the IPE, the sump in the sub-floor area was cleaned of sludge and debris.

Cleanup of the three pieces of IPE was initiated by breaking and venting pipe connections to each piece, allowing the fluids within the IPE to drain and be collected. After initial draining was completed, the three pieces of IPE were removed from the subfloor area and transferred to Building 704. During draining and removal, care was taken to properly contain liquids within the IPE and prevent spreading contamination, including placing protective sheeting on the floor of Room 102. The size and weight of the three pieces of IPE required that the subfloor be temporarily removed to facilitate the cleanup process

After the IPE and piping were taken to Building 704, they were staged for additional draining of potential product remaining within each piece. During this process, due to its lesser waste classification, IPE-1 was segregated from IPE-2 and IPE-3 to prevent cross-contamination. IPE-

2 and IPE-3 contained minimal free liquids, which were captured using absorbent pads and later consolidated with some solids. When the IPE was drained to the extent practicable, it was transported off site for disposal, as documented below.

After the IPE was removed and sump cleaned, the final step of the cleanup process in Room 102 was to restore the su-floor.

WASTE DISPOSAL

The analyses performed on the samples of the various types of waste were used to characterize the wastes for off-site disposal. Manifest copies are attached (Attachment 4) to document the wastes disposed. Information pertinent to characterization and disposal has been summarized in Table 2.

TABLE 2

CHARACTERIZATION AND DISPOSAL OF WASTES

Waste	Quantity	Disposal Determination	Disposal Facility	Disposal Method	Manifest Line No.
Unused Paint	1 pallet	N/A	N/A	Used on site as a hazardous material	N/A
Acoustic Tile	1 box	Non-hazardous	N/A	Left in place	N/A
IPE-001	<1 cy	non-hazardous scrap metal	Circosta Metal	Recycle	N/A
IPE-002	1 drum	TSCA/Non-RCRA Hazardous	Kettleman Hills Landfill	Landfill	11b
IPE-003	1 drum	TSCA/Non-RCRA Hazardous Waste	Kettleman Hills Landfill	Landfill	11b
Oil drained from IPE-001	1 drum	Non-RCRA Hazardous Waste	Kettleman Hills Landfill transferred to Azusa	Recycle	11a
Sump solids, absorbents, poly sheeting	2 drums	TSCA/RCRA Hazardous	Kettleman Hills Landfill transferred to Port Arthur	Incineration	11c

Notes:

cy – cubic yards
N/A – Not applicable
RCRA – Resource Conservation and Recovery Act
TSCA – Toxic Substances Control Act

CONCLUSION

In the execution of CTO No. 0084, MOD 008, the subfloor area of Building 115 in Room 102 and a sump outside the building were surveyed. The survey identified three pieces of IPE, paints, potential PCB-containing acoustic tiles, and waste liquids or solids in two sumps. As required, these materials were sampled for waste characterization purposes and subsequently disposed of, recycled, properly used (paints), or left in place (non-hazardous tiles), as documented above. At the conclusion of the survey and waste removal activities, items identified within the survey areas that could interfere with the future transfer of this building had been removed.

Sincerely,

Ulrika Trulsson Messer
TtEC Project Manager

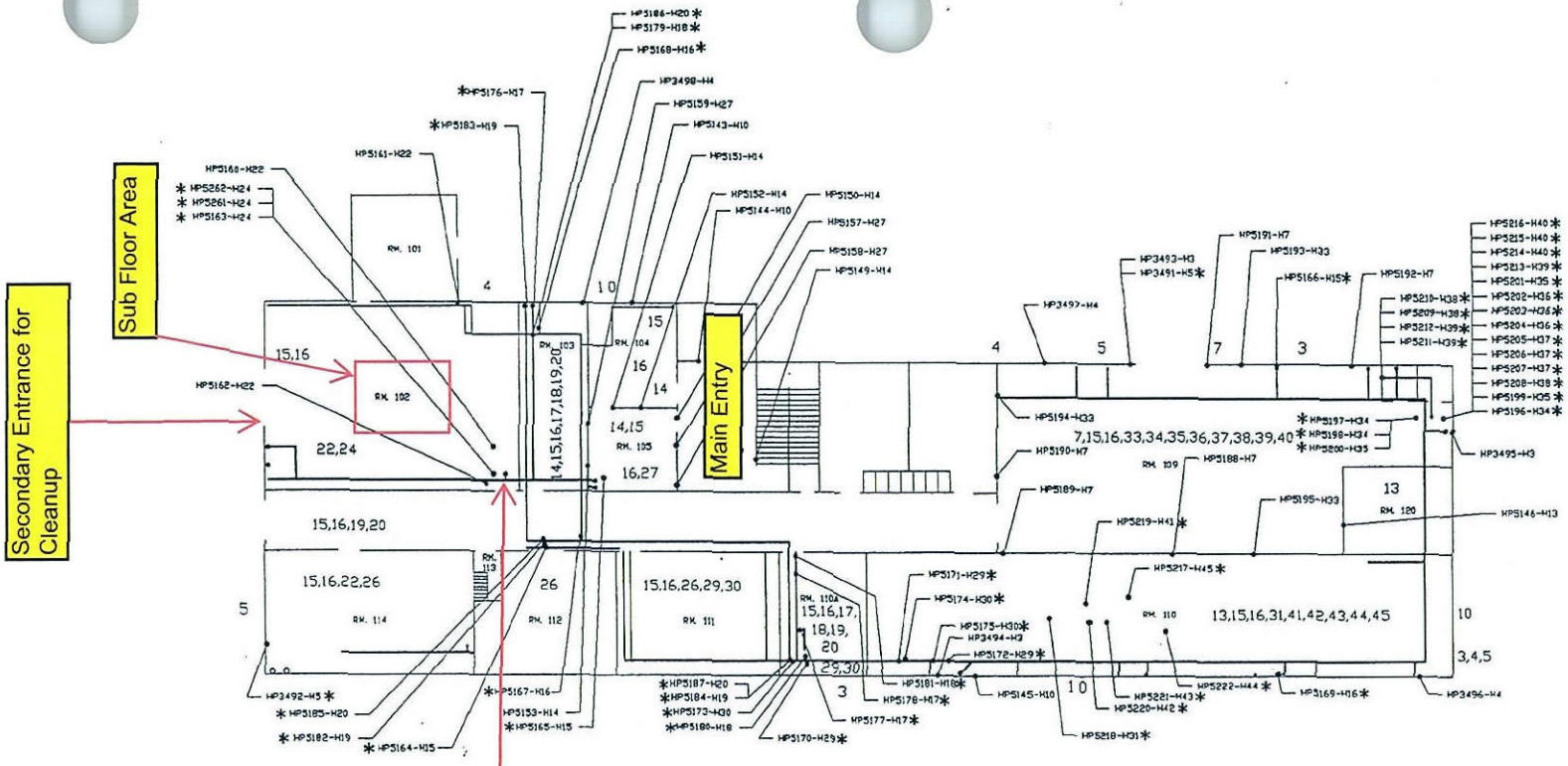
Gary Clark
TtEC Construction Manager

ATTACHMENTS

Attachment 1 – Building 115 Floor Plan
Attachment 2 – Cleanup Survey Photographs
Attachment 3 – Laboratory Analytical Results
Attachment 4 – Manifest

ATTACHMENT 1

BUILDING 115 FLOOR PLAN



BUILDING 115 : COMSUBGRUSFRAN OFFICE AND TRAINING BUILDING

FIRST FLOOR

HOMOGENEOUS AREA DESCRIPTION

	3	ROOFING, TAR PAPER	[ND]
	4	WINDOW GLAZING	[ND]
*	5	JOINT COMPOUND	[Chrysotile]
	7	STUCCO	[ND]
	10	WINDOW GLAZING, NEW	[ND]
	13	SHEETROCK, NEW	[ND]
	14	TEXTURED SURFACING MATERIAL	[ND]
*	15	TSI, 3' PIPE	[Chrysotile]
*	16	TSI, 3' TSI FITTING	[Chrysotile]
*	17	TSI, 5' PIPE	[Chrysotile]
*	18	TSI, 5' FITTING	[Amosite]
*	19	TSI, 7' PIPE	[Amosite]
*	20	TSI, 7' FITTING	[Amosite]
	22	CEILING TILE, ACOUSTICAL	[ND]
*	24	TSI, 2' PIPE	[Chrysotile]
	26	WINDOW GLAZING, INTERIOR	[ND]
	27	SHEETROCK	[ND]
*	29	TSI, 4' PIPE	[Amosite]
*	30	TSI, 4' FITTING	[Chrysotile]
*	31	GASKET, 7'	[Chrysotile]
	33	WALL INSULATION	[ND]
*	34	TSI, 2 1/2' PIPE	[Chrysotile]
*	35	TSI, 2 1/2' FITTING	[Chrysotile]
*	36	TSI, 3 1/2' PIPE	[Chrysotile]
*	37	TSI, 3 1/2' FITTING	[Chrysotile]
*	38	TSI, 5 1/2' PIPE	[Chrysotile]
*	39	TSI, 5 1/2' FITTING	[Chrysotile]
*	40	TSI, BLOCKS THREE	[Chrysotile]
*	41	GASKET, 6' X 7'	[Chrysotile]
*	42	GASKET, 7' X 9'	[Chrysotile]
*	43	GASKET, 6' X 9'	[Chrysotile]
*	44	GASKET, 6'	[Chrysotile]
*	45	GASKET, 17' X 21'	[Chrysotile]

** SIGNIFIES CONFIRMED ACM*

[ND] = NONE DETECTED

0' 20' 40'

NORTH

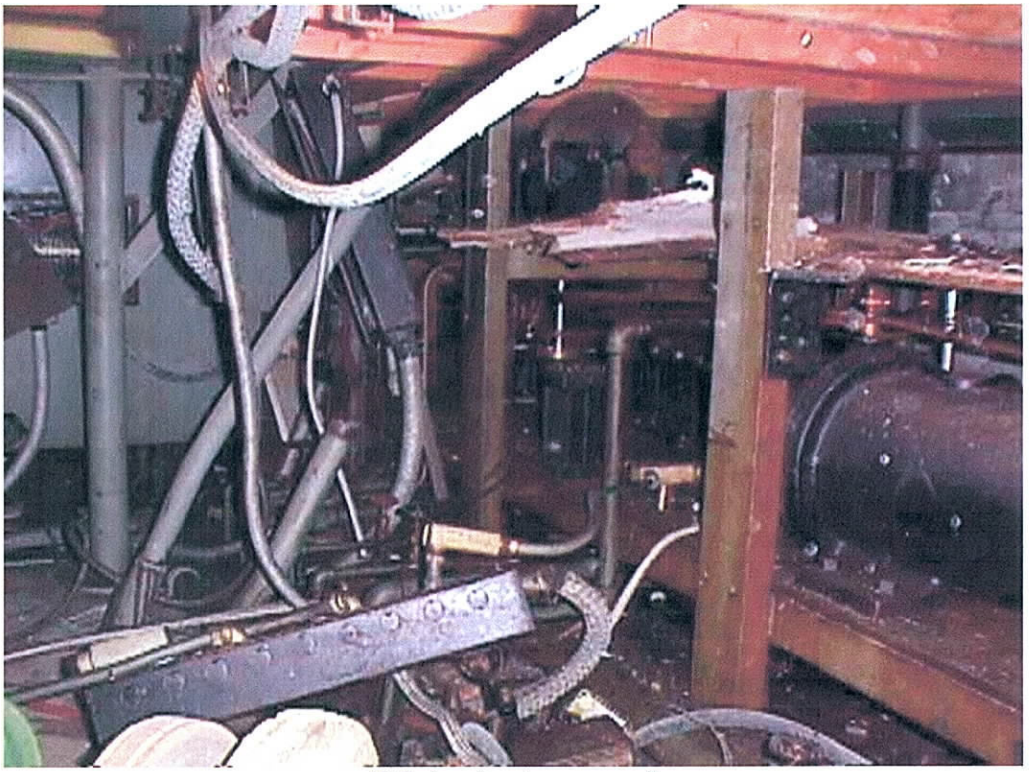
● SAMPLING POINT

ND NONE DETECTED

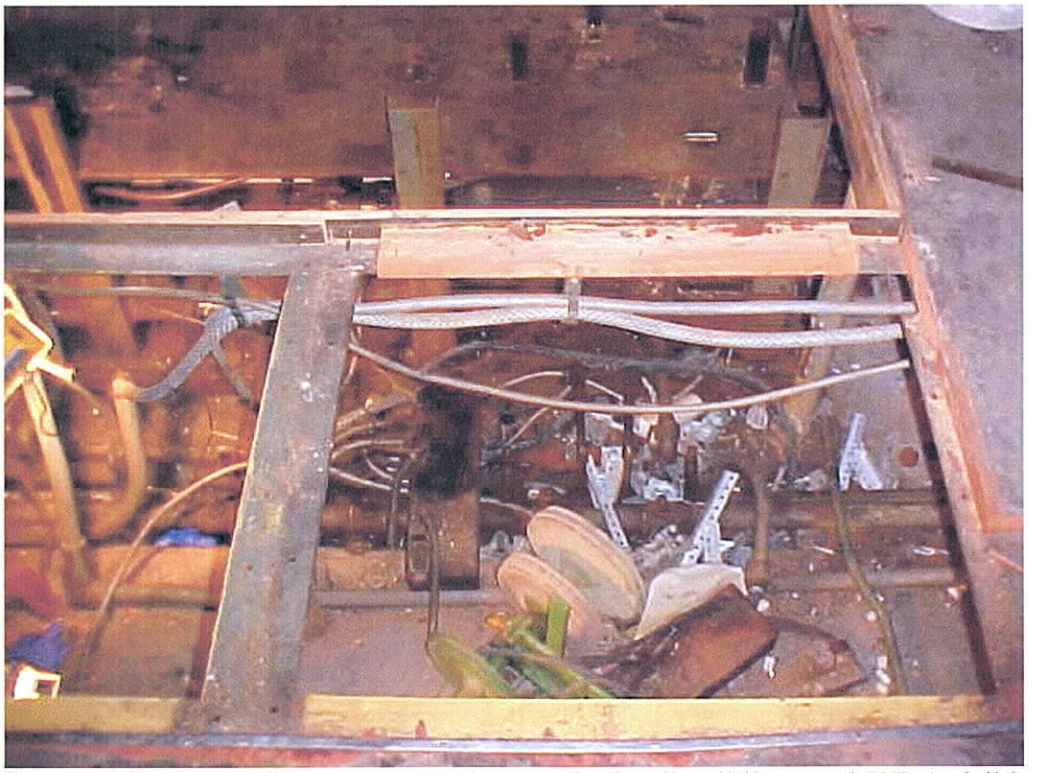
PREPARED BY: MARE ISLAND NAVAL SHIPYARD Vallejo, California Code 248.1 Production Engineering		HUNTER'S POINT BLDG. 115
Drawn by: W. BLAND		CONFIRMED
File No. B115-1	Disk No. HP	ASBESTOS CONTAINING MATERIAL
REVISIONS	BY / DATE	
		SHEET 1 OF 2

ATTACHMENT 2

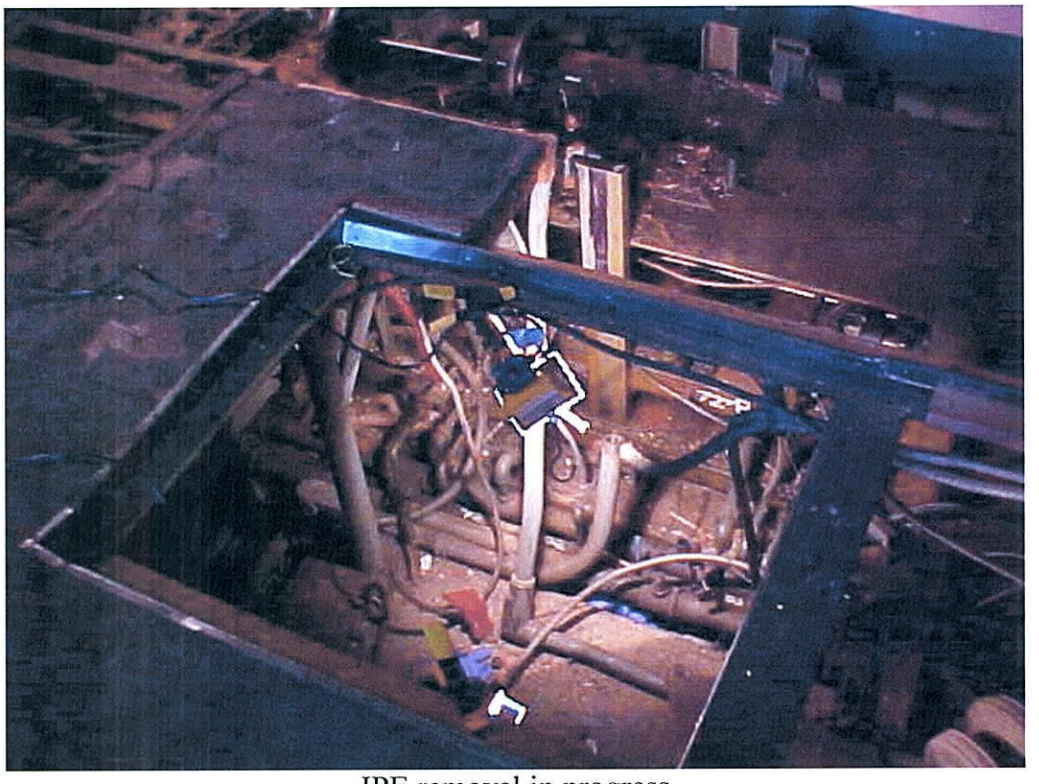
CLEANUP SURVEY PHOTOGRAPHS



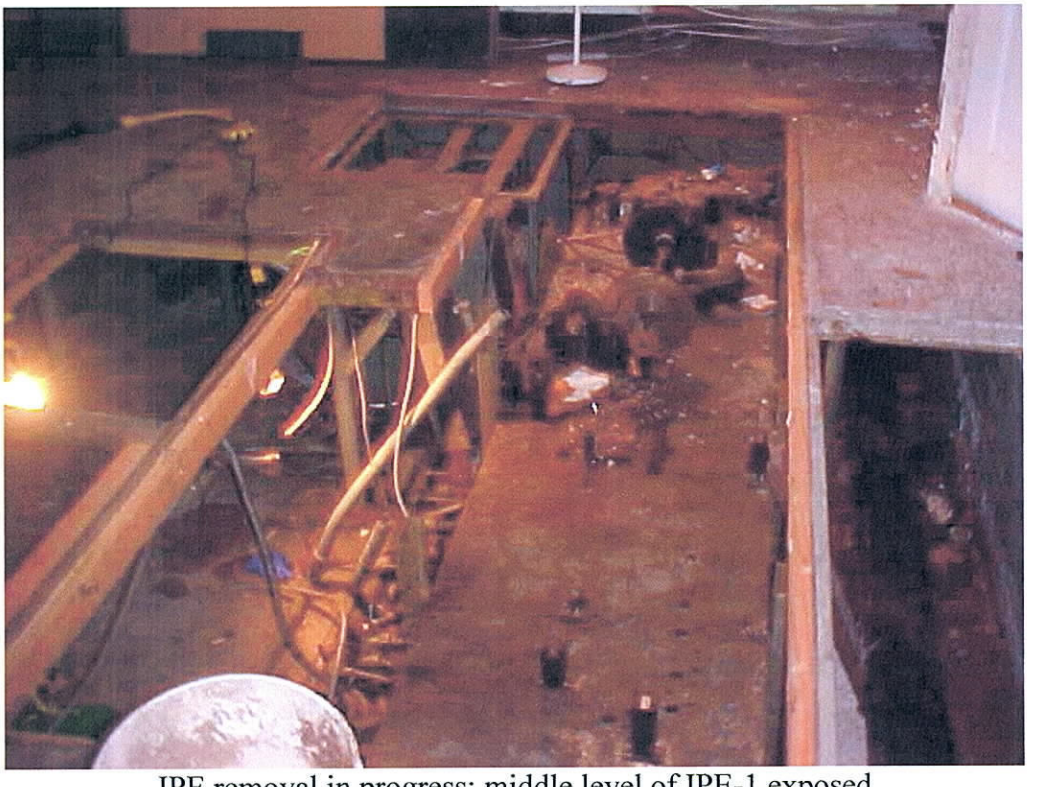
IPE-1 prior to removal



Floor panels removed to access crawl space; hydraulic oil lines and IPE-1 visible

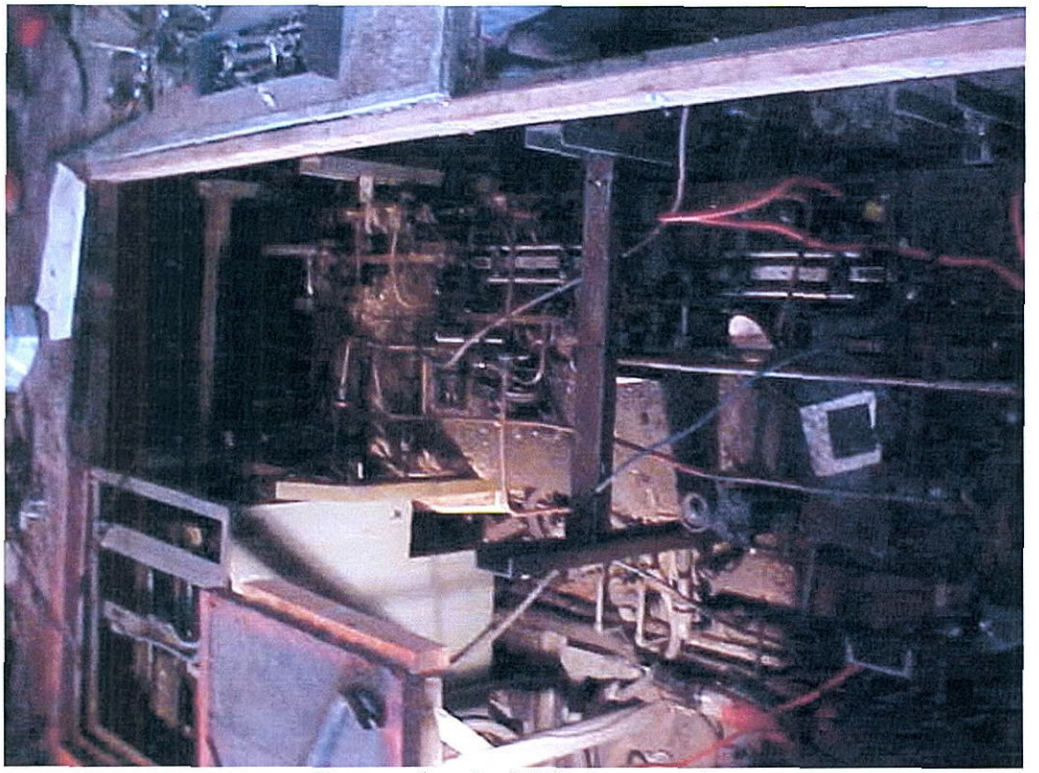


IPE removal in progress

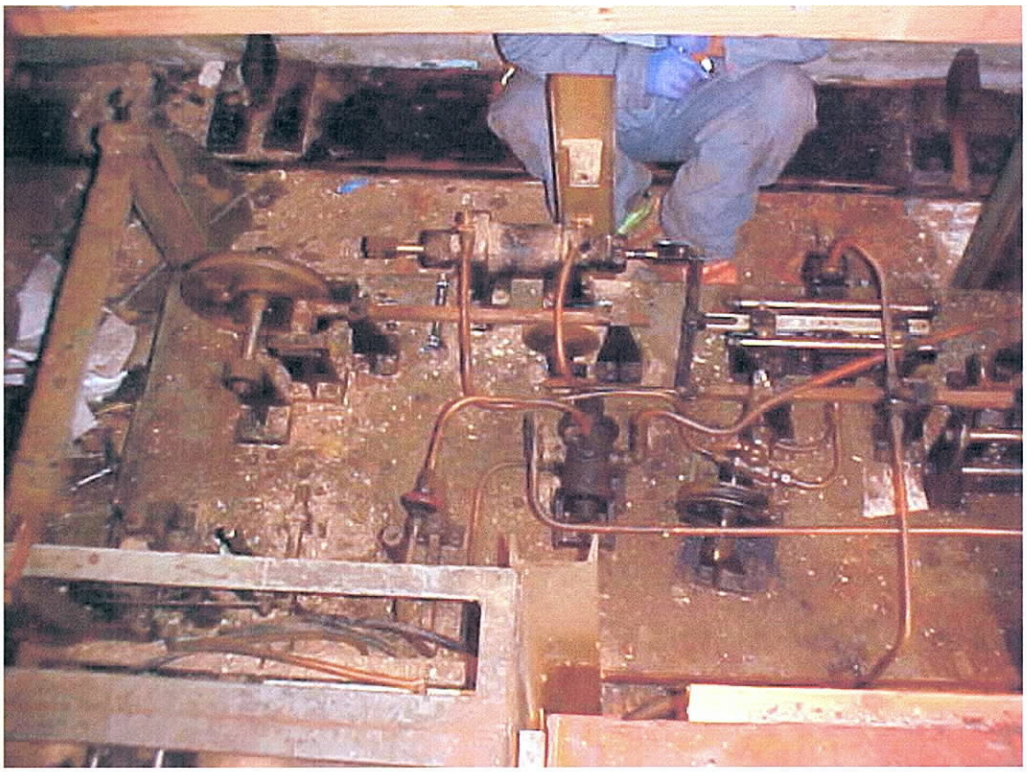


IPE removal in progress; middle level of IPE-1 exposed

IPE removed by hand as tenant had covered the previously existing bridge crane with drywall and soundproofing material



Bottom level of IPE-1 exposed



Typical equipment- components of IPE-1

Interior sump containing PCB and metal-contaminated solids

Unused paint cans discovered in Building 115 crawl space

Exterior sump outside Building 115

ATTACHMENT 3

LABORATORY ANALYTICAL RESULTS

TETRA TECH
1230 Columbia Street, Suite 500
San Diego, CA 92101 (619) 234-8696

NUMBER 13936

B-115

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: HUNTER POINT	PURCHASE ORDER NO: 36184
PROJECT LOCATION: SAN FRANCISCO, CA	PROJECT NO: 1990-084D
SAMPLER NAME: ANDREW GORMAN	AIRBILL NUMBER: N/A - COURIER
PROJECT CONTACT: LUN BIENKOWSKI	PROJECT CONTACT PHONE NUMBER: 707 756 7592

LABORATORY NAME: CPT

LABORATORY ID (FOR LABORATORY): 182563

Project Information Section Do not submit to Laboratory

SAMPLE ID	DATE COLLECTED	TIME COLLECTED	NO OF CONTAINER	LEVEL 3	LEVEL 4	TYPE	TAT	VOCs-8260B	SVOCs-8270C	PESTICIDES-8081A	PCBs-8082	TRACE ZZ METALS	TPH-GX TRIGLYCERIDE	IGNITABILITY-1010			COMMENTS	LOCATION	DEPTH START	DEPTH END	QC
84-B115-001	10-18-95	0950	13	X		W	10 DAY	X	X	X	X	X	X	X				B115 - EXTERNAL SUMP	—	—	PS
																		"			

RELINQUISHED BY (Signature): [illegible]	DATE: 10/18/95	RECEIVED BY (Signature): [illegible]	LABORATORY INSTRUCTIONS/COMMENTS
COMPANY: TTECI	TIME: 1640	COMPANY: CPT	
RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	COMPOSITE DESCRIPTION
COMPANY	TIME	COMPANY	
RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	SAMPLE CONDITION UPON RECEIPT (FOR LABORATORY)
COMPANY	TIME	COMPANY	TEMPERATURE: ____ SAMPLE CONDITION: ☐ INTACT ☐ BROKEN COOLER SEAL: ☐ INTACT ☐ BROKEN

SAMPLING COMMENT:
SUMP SAMPLE-
B 115

White - Laboratory; Pink - Laboratory; Canary - Project File; Manila - Data Management

1179680

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Total Extractable Hydrocarbons

Lab #:	182563	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3520C
Project#:	CT094	Analysis:	EPA 8015B
Field ID:	84-B115-001	Sampled:	10/18/05
Matrix:	Water	Received:	10/18/05
Units:	ug/L	Prepared:	10/23/05
Diln Fac:	1.000	Analyzed:	10/24/05
Batch#:	107022		

Type: SAMPLE
Lab ID: 182563-001
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	50	19
Motor Oil C24-C36	77 J	500	76

Surrogate	%REC	Limits
Hexacosane	119	65-135

Type: BLANK
Lab ID: QC314122
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	50	19
Motor Oil C24-C36	ND	500	76

Surrogate	%REC	Limits
Hexacosane	137 *	65-135

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

10.0

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Analytical Laboratories, Since 1878

Purgeable Organics by GC/MS

Lab #:	182563	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 5030B
Project#:	CT084	Analysis:	EPA 8260B
Field ID:	84-B115-001	Batch#:	107150
Lab ID:	182563-001	Sampled:	10/18/05
Matrix:	Water	Received:	10/18/05
Units:	ug/L	Analyzed:	10/27/05
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	5.0	0.07
Vinyl Chloride	ND	5.0	0.1
Bromomethane	ND	5.0	0.5
Chloroethane	ND	5.0	0.4
Acetone	1.3 J	50	0.6
1,1-Dichloroethene	ND	5.0	0.1
Methylene Chloride	ND	5.0	0.3
MTBE	ND	1.0	0.2
trans-1,2-Dichloroethene	ND	5.0	0.2
Vinyl Acetate	ND	50	0.06
1,1-Dichloroethane	ND	5.0	0.06
2-Butanone	ND	50	0.4
cis-1,2-Dichloroethene	ND	5.0	0.2
Chloroform	ND	5.0	0.04
1,1,1-Trichloroethane	ND	5.0	0.04
Carbon Tetrachloride	ND	5.0	0.09
1,2-Dichloroethane	ND	5.0	0.1
Benzene	ND	0.5	0.04
Trichloroethene	ND	5.0	0.1
1,2-Dichloropropane	ND	5.0	0.1
Bromodichloromethane	ND	5.0	0.07
4-Methyl-2-Pentanone	ND	50	0.07
cis-1,3-Dichloropropene	ND	5.0	0.09
Toluene	ND	0.5	0.08
trans-1,3-Dichloropropene	ND	5.0	0.08
1,1,2-Trichloroethane	ND	5.0	0.1
2-Hexanone	ND	50	0.2
Tetrachloroethene	ND	5.0	0.1
Dibromochloromethane	ND	5.0	0.1
Chlorobenzene	ND	5.0	0.06
Ethylbenzene	ND	0.5	0.07
Styrene	ND	5.0	0.06
Bromoform	ND	5.0	0.07
1,1,2,2-Tetrachloroethane	ND	5.0	0.09
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	119	75-125
Toluene-d8	104	75-125
Bromofluorobenzene	107	75-125

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

14.0

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Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS

Lab #:	182563	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3520C
Project#:	CT084	Analysis:	EPA 8270C
Field ID:	84-B115-001	Batch#:	107056
Lab ID:	182563-001	Sampled:	10/18/05
Matrix:	Water	Received:	10/18/05
Units:	ug/L	Prepared:	10/24/05
Diln Fac:	2.000	Analyzed:	10/31/05

Analyte	Result	RL	MDL
Phenol	ND	20	1.8
bis(2-Chloroethyl)ether	ND	20	1.1
2-Chlorophenol	ND	20	1.7
1,3-Dichlorobenzene	ND	20	1.1
1,4-Dichlorobenzene	ND	20	1.1
1,2-Dichlorobenzene	ND	20	1.0
2-Methylphenol	ND	20	2.1
bis(2-Chloroisopropyl) ether	ND	20	0.84
4-Methylphenol	ND	20	2.0
N-Nitroso-di-n-propylamine	ND	20	0.98
Hexachloroethane	ND	20	0.91
Nitrobenzene	ND	20	0.93
2-Nitrophenol	ND	39	2.2
2,4-Dimethylphenol	ND	20	1.9
bis(2-Chloroethoxy)methane	ND	20	1.1
2,4-Dichlorophenol	ND	20	1.9
1,2,4-Trichlorobenzene	ND	20	0.98
Naphthalene	ND	20	1.1
4-Chloroaniline	ND	20	1.2
Hexachlorobutadiene	ND	20	0.76
4-Chloro-3-methylphenol	ND	20	2.0
Hexachlorocyclopentadiene	ND	39	2.0
2,4,6-Trichlorophenol	ND	20	1.7
2,4,5-Trichlorophenol	ND	20	1.5
2-Chloronaphthalene	ND	20	0.88
2-Nitroaniline	ND	39	0.84
Dimethylphthalate	ND	20	0.88
Acenaphthylene	ND	20	0.75
2,6-Dinitrotoluene	ND	20	0.86
3-Nitroaniline	ND	39	0.99
Acenaphthene	ND	20	0.85
2,4-Dinitrophenol	ND	39	7.9
4-Nitrophenol	ND	39	1.2
Dibenzofuran	ND	20	1.2
2,4-Dinitrotoluene	ND	20	0.82
Diethylphthalate	ND	20	0.85

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

23.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS

Lab #:	182563	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3520C
Project#:	CT084	Analysis:	EPA 8270C
Field ID:	84-B115-001	Batch#:	107056
Lab ID:	182563-001	Sampled:	10/18/05
Matrix:	Water	Received:	10/18/05
Units:	ug/L	Prepared:	10/24/05
Diln Fac:	2.000	Analyzed:	10/31/05

Analyte	Result	RL	MDL
Fluorene	ND	20	0.94
4-Chlorophenyl-phenylether	ND	20	0.90
4-Nitroaniline	ND	39	1.2
4,6-Dinitro-2-methylphenol	ND	39	1.3
N-Nitrosodiphenylamine	ND	20	0.99
4-Bromophenyl-phenylether	ND	20	0.83
Hexachlorobenzene	ND	20	0.88
Pentachlorophenol	ND	39	1.0
Phenanthrene	ND	20	1.1
Anthracene	ND	20	0.92
Di-n-butylphthalate	ND	20	1.0
Fluoranthene	ND	20	1.0
Pyrene	ND	20	1.1
Butylbenzylphthalate	ND	20	0.98
3,3'-Dichlorobenzidine	ND	39	1.1
Benzo(a)anthracene	ND	20	1.0
Chrysene	ND	20	0.91
bis(2-Ethylhexyl)phthalate	ND	20	1.1
Di-n-octylphthalate	ND	20	0.82
Benzo(b)fluoranthene	ND	20	0.74
Benzo(k)fluoranthene	ND	20	0.99
Benzo(a)pyrene	ND	20	0.85
Indeno(1,2,3-cd)pyrene	ND	20	1.0
Dibenz(a,h)anthracene	ND	20	1.1
Benzo(g,h,i)perylene	ND	20	1.0

Surrogate	%REC	Limits
2-Fluorophenol	66	25-125
Phenol-d5	60	25-125
2,4,6-Tribromophenol	58	25-134
Nitrobenzene-d5	80	32-125
2-Fluorobiphenyl	60	43-125
Terphenyl-d14	44	42-126

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

23.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	182563	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3520C
Project#:	CT084	Analysis:	EPA 8081A
Field ID:	84-B115-001	Batch#:	107101
Lab ID:	182563-001	Sampled:	10/18/05
Matrix:	Water	Received:	10/18/05
Units:	ug/L	Prepared:	10/25/05
Diln Fac:	10.00	Analyzed:	10/28/05

Analyte	Result	RL	MDL
alpha-BHC	ND	0.5	0.03
beta-BHC	ND	0.5	0.03
gamma-BHC	ND	0.5	0.03
delta-BHC	ND	0.5	0.02
Heptachlor	ND	0.5	0.03
Aldrin	ND	0.5	0.06
Heptachlor epoxide	ND	0.5	0.03
Endosulfan I	ND	0.5	0.03
Dieldrin	ND	1.0	0.04
4,4'-DDE	0.2 J	1.0	0.04
Endrin	ND	1.0	0.05
Endosulfan II	ND	1.0	0.07
Endosulfan sulfate	ND	1.0	0.05
4,4'-DDD	0.2 J	1.0	0.03
Endrin aldehyde	ND	1.0	0.05
4,4'-DDT	ND	1.0	0.09
Chlordane (Technical)	ND	4.9	1.7
Methoxychlor	ND	4.9	0.4
Endrin ketone	ND	1.0	0.05
Toxaphene	ND	9.8	5.4

Surrogate	%REC	Limits
TCMX	DO	25-143
Decachlorobiphenyl	DO	25-143

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	182563	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3520C
Project#:	CT084	Analysis:	EPA 8082
Field ID:	84-B115-001	Sampled:	10/18/05
Matrix:	Water	Received:	10/18/05
Units:	ug/L	Prepared:	10/25/05
Diln Fac:	1.000	Analyzed:	10/30/05
Batch#:	107100		

Type: SAMPLE
Lab ID: 182563-001
Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.98	0.11
Aroclor-1221	ND	0.98	0.62
Aroclor-1232	ND	0.98	0.14
Aroclor-1242	ND	0.98	0.34
Aroclor-1248	ND	0.98	0.050
Aroclor-1254	ND	0.98	0.25
Aroclor-1260	ND	0.98	0.12

Surrogate	%REC	Limits
TCMX	125	30-140
Decachlorobiphenyl	123	30-140

Type: BLANK
Lab ID: QC314451
Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	1.0	0.12
Aroclor-1221	ND	1.0	0.63
Aroclor-1232	ND	1.0	0.14
Aroclor-1242	ND	1.0	0.35
Aroclor-1248	ND	1.0	0.051
Aroclor-1254	ND	1.0	0.26
Aroclor-1260	ND	1.0	0.12

Surrogate	%REC	Limits
TCMX	103	30-140
Decachlorobiphenyl	114	30-140

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

21.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

California Title 26 Metals

Lab #:	182563	Project#:	CTO84
Client:	Tetra Tech EC, Inc.	Location:	PCB Hot Spot, HPS
Field ID:	84-B115-001	Units:	ug/L
Lab ID:	182563-001	Sampled:	10/18/05
Matrix:	Water	Received:	10/18/05

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.7 J	100	0.078	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Arsenic	3.8 J	10	0.65	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Barium	160	10	0.23	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Beryllium	ND	2.0	0.055	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Cadmium	2.9 J	10	0.14	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Chromium	28	10	0.085	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Cobalt	3.9 J	20	0.034	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Copper	1,000	400	6.2	20.00	107048	10/24/05	10/24/05	200.8	EPA 6020
Lead	2,800	200	4.8	20.00	107048	10/24/05	10/24/05	200.8	EPA 6020
Mercury	0.15 J	0.20	0.080	1.000	106947	10/20/05	10/20/05	METHOD	EPA 7470A
Molybdenum	1.1 J	20	0.062	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Nickel	27	20	0.16	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Selenium	0.63 J	10	0.35	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Silver	1.1 J	10	0.041	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Thallium	0.40 J	10	0.073	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Vanadium	12	10	0.15	1.000	107048	10/24/05	10/24/05	200.8	EPA 6020
Zinc	1,700	400	10	20.00	107048	10/24/05	10/24/05	200.8	EPA 6020

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Flash Point

Lab #:	182563	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	METHOD
Project#:	CTO84	Analysis:	ASTM D-93
Analyte:	Flash Point	Diln Fac:	1.000
Field ID:	84-B115-001	Batch#:	107119
Lab ID:	182563-001	Sampled:	10/18/05
Matrix:	Water	Received:	10/18/05
Units:	degF	Analyzed:	10/28/05

Result	RL
>135	1.0

RL= Reporting Limit

13.0

TETRA TECH
1230 Columbia Street, Suite 500
San Diego, CA 92101 (619) 234-8696

CHAIN-OF-CUSTODY RECORD

NUMBER 13940

B 115

PROJECT NAME: HUNTER POINT	PURCHASE ORDER NO.: 56184
PROJECT LOCATION: SAN FRANCISCO, CA	PROJECT NO.: 1990-084D
SAMPLER NAME: ANDREW GRAY	AIRBILL NUMBER: N/A COURIER
PROJECT CONTACT: CHAS	PROJECT CONTACT PHONE NUMBER: 949-756-7592

LABORATORY NAME: CPT

LABORATORY ID (FOR LABORATORY): 182608

Project Information Section Do not submit to Laboratory

ANALYSES REQUIRED: PCBs, Ignitability, TCLP - Extractable, TPH 22 Method, Solids

SAMPLE ID	DATE COLLECTED	TIME COLLECTED	NO. OF CONTAINER	LEVEL 3	LEVEL 4	TYPE	TAT	PCBs	Ignitability	TCLP - Extractable	TPH 22 Method	Solids					COMMENTS	LOCATION	DEPTH START	DEPTH END	QC
84-B115-002	10-19-05	1015	3	X		P	10 DAY	X	X	X								PRODUCT SAMPLE IPE-1	—	—	RGS
84-B115-003	10-19-05	1040	1	X		S	10 DAY	X			X	X						SOLID SAMPLE - INTERIOR SLAB	—	—	RGS
84-B115-004	10-19-05	1050	1	X		Wipe	10 DAY	X										WIPE SAMPLE IPE-2	—	—	RGS
84-B115-005	10-19-05	1100	1	X		Wipe	10 DAY	X										WIPE SAMPLE - IPE-3	—	—	RGS

RELINQUISHED BY (Signature): [signature]	DATE: 10-19-05	RECEIVED BY (Signature): [signature]	LABORATORY INSTRUCTIONS/COMMENTS
COMPANY: TTCI	TIME: 1632	COMPANY: CPT	
RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	COMPOSITE DESCRIPTION
COMPANY	TIME	COMPANY	
RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	SAMPLE CONDITION UPON RECEIPT (FOR LABORATORY)
COMPANY	TIME	COMPANY	TEMPERATURE: ____ SAMPLE CONDITION: ☐ INTACT ☐ BROKEN COOLER SEAL: ☐ INTACT ☐ BROKEN

SAMPLING COMMENT:
BUILDING 115
IPE

White - Laboratory; Pink - Laboratory; Canary - Project File; Manila - Data Management

1-10784

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	182608	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3580
Project#:	CT084	Analysis:	EPA 8015B
Field ID:	84-B115-002	Sampled:	10/19/05
Matrix:	Oil	Received:	10/19/05
Units:	mg/Kg	Prepared:	10/31/05
Batch#:	107244	Analyzed:	11/01/05

Type: SAMPLE
Lab ID: 182608-001
Diln Fac: 10.00
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	420,000 H Y	4,000	770

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Type: BLANK
Lab ID: QC315034
Diln Fac: 1.000
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	ND	400	77

Surrogate	%REC	Limits
Hexacosane	87	48-132

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
DL= Method Detection Limit

23.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Flash Point

Lab #:	182608	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Analysis:	ASTM D-93
Project#:	CT084		
Analyte:	Flash Point	Diln Fac:	1.000
Field ID:	84-B115-002	Batch#:	107119
Lab ID:	182608-001	Sampled:	10/19/05
Matrix:	Oil	Received:	10/19/05
Units:	degF	Analyzed:	10/28/05

Result	RL
410	1.0

RL= Reporting Limit

5.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	182608	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3580
Project#:	CT084	Analysis:	EPA 8082
Field ID:	84-B115-002	Sampled:	10/19/05
Matrix:	Oil	Received:	10/19/05
Units:	ug/Kg	Prepared:	10/25/05
Diln Fac:	1.000	Analyzed:	10/27/05
Batch#:	107085		

Type: SAMPLE
Lab ID: 182608-001
Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	500	380
Aroclor-1221	ND	1,000	550
Aroclor-1232	ND	500	170
Aroclor-1242	ND	500	150
Aroclor-1248	ND	500	34
Aroclor-1254	ND	500	370
Aroclor-1260	ND	500	200

Surrogate	%REC	Limits
TCMX	102	62-142
Decachlorobiphenyl	103	53-153

Type: BLANK
Lab ID: QC314385
Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	500	380
Aroclor-1221	ND	1,000	550
Aroclor-1232	ND	500	170
Aroclor-1242	ND	500	150
Aroclor-1248	ND	500	34
Aroclor-1254	ND	500	370
Aroclor-1260	ND	500	200

Surrogate	%REC	Limits
TCMX	117	62-142
Decachlorobiphenyl	142	53-153

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	182608	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3550B
Project#:	CT084	Analysis:	EPA 8082
Field ID:	84-B115-003	Sampled:	10/19/05
Matrix:	Soil	Received:	10/19/05
Units:	ug/Kg	Prepared:	10/25/05
Batch#:	107103		

Type:	SAMPLE	Diln Fac:	20.00
Lab ID:	182608-002	Analyzed:	10/27/05
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	73%		

Analyte	Result	RL	MDL
Aroclor-1016	ND	890	470
Aroclor-1221	ND	1,800	680
Aroclor-1232	ND	890	210
Aroclor-1242	ND	890	190
Aroclor-1248	ND	890	42
Aroclor-1254	ND	890	450
Aroclor-1260	40,000	890	380

Surrogate	%REC	Limits
TCMX	DO	30-140
Decachlorobiphenyl	DO	30-140

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC314460	Analyzed:	10/25/05
Basis:	as received	Cleanup Method:	EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	12	4.5
Aroclor-1221	ND	24	9.7
Aroclor-1232	ND	12	2.6
Aroclor-1242	ND	12	3.0
Aroclor-1248	ND	12	1.7
Aroclor-1254	ND	12	6.1
Aroclor-1260	ND	12	5.1

Surrogate	%REC	Limits
TCMX	117	30-140
Decachlorobiphenyl	111	30-140

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	182608	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3580
Project#:	CT084	Analysis:	EPA 8082
Matrix:	Wipe	Sampled:	10/19/05
Units:	ug/s	Received:	10/19/05
Diln Fac:	1.000	Prepared:	10/25/05
Batch#:	107091	Analyzed:	10/27/05

Field ID: 84-B115-004 Lab ID: 182608-003
Type: SAMPLE Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	2.5
Aroclor-1221	ND	5.0
Aroclor-1232	ND	2.5
Aroclor-1242	ND	2.5
Aroclor-1248	ND	2.5
Aroclor-1254	7.2	2.5
Aroclor-1260	4.3	2.5

Surrogate	%REC	Limits
TCMX	134	62-142
Decachlorobiphenyl	127	53-153

Field ID: 84-B115-005 Lab ID: 182608-004
Type: SAMPLE Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	2.5
Aroclor-1221	ND	5.0
Aroclor-1232	ND	2.5
Aroclor-1242	ND	2.5
Aroclor-1248	ND	2.5
Aroclor-1254	20	2.5
Aroclor-1260	17	2.5

Surrogate	%REC	Limits
TCMX	137	62-142
Decachlorobiphenyl	123	53-153

Type: BLANK Cleanup Method: EPA 3665A
Lab ID: QC314416

Analyte	Result	RL
Aroclor-1016	ND	2.5
Aroclor-1221	ND	5.0
Aroclor-1232	ND	2.5
Aroclor-1242	ND	2.5
Aroclor-1248	ND	2.5
Aroclor-1254	ND	2.5
Aroclor-1260	ND	2.5

Surrogate	%REC	Limits
TCMX	132	62-142
Decachlorobiphenyl	163 *	53-153

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

10.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS

Lab #:	182608	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3550B
Project#:	CT084	Analysis:	EPA 8270C
Field ID:	84-B115-003	Batch#:	107228
Lab ID:	182608-002	Sampled:	10/19/05
Matrix:	Soil	Received:	10/19/05
Units:	ug/Kg	Prepared:	10/30/05
Basis:	dry	Analyzed:	11/07/05
Diln Fac:	20.00		

Moisture: 73%

Analyte	Result	RL	MDL
Phenol	ND	24,000	5,200
bis(2-Chloroethyl)ether	ND	24,000	3,400
2-Chlorophenol	ND	24,000	5,500
1,3-Dichlorobenzene	ND	24,000	2,100
1,4-Dichlorobenzene	ND	24,000	2,500
1,2-Dichlorobenzene	ND	24,000	2,400
2-Methylphenol	ND	24,000	6,000
bis(2-Chloroisopropyl) ether	ND	24,000	2,900
4-Methylphenol	ND	24,000	5,600
N-Nitroso-di-n-propylamine	ND	24,000	2,700
Hexachloroethane	ND	24,000	2,200
Nitrobenzene	ND	24,000	2,800
2-Nitrophenol	ND	49,000	4,500
2,4-Dimethylphenol	ND	24,000	5,000
bis(2-Chloroethoxy)methane	ND	24,000	2,900
2,4-Dichlorophenol	ND	24,000	4,300
1,2,4-Trichlorobenzene	ND	24,000	2,200
Naphthalene	ND	4,900	2,600
4-Chloroaniline	ND	24,000	1,600
Hexachlorobutadiene	ND	24,000	2,100
4-Chloro-3-methylphenol	ND	24,000	5,000
Hexachlorocyclopentadiene	ND	49,000	2,800
2,4,6-Trichlorophenol	ND	24,000	4,400
2,4,5-Trichlorophenol	ND	24,000	4,200
2-Chloronaphthalene	ND	24,000	2,800
2-Nitroaniline	ND	49,000	3,600
Dimethylphthalate	85,000	24,000	2,600
Acenaphthylene	ND	4,900	2,100
2,6-Dinitrotoluene	ND	24,000	2,400
3-Nitroaniline	ND	49,000	1,800
Acenaphthene	ND	4,900	2,500
2,4-Dinitrophenol	ND	49,000	3,300
4-Nitrophenol	ND	49,000	4,900
Dibenzofuran	ND	24,000	2,500
2,4-Dinitrotoluene	ND	24,000	2,500
Diethylphthalate	ND	24,000	2,800
Fluorene	ND	4,900	2,800
4-Chlorophenyl-phenylether	ND	24,000	2,600
4-Nitroaniline	ND	49,000	2,800
4,6-Dinitro-2-methylphenol	ND	49,000	5,900
N-Nitrosodiphenylamine	ND	24,000	2,600
4-Bromophenyl-phenylether	ND	24,000	2,200
Hexachlorobenzene	ND	24,000	2,400
Pentachlorophenol	ND	49,000	5,200
Phenanthrene	ND	4,900	2,700
Anthracene	ND	4,900	2,200
Di-n-butylphthalate	ND	24,000	2,800
Fluoranthene	ND	4,900	2,600
Pyrene	ND	4,900	2,500

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

25.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS

Lab #:	182608	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3550B
Project#:	CT084	Analysis:	EPA 8270C
Field ID:	84-B115-003	Batch#:	107228
Lab ID:	182608-002	Sampled:	10/19/05
Matrix:	Soil	Received:	10/19/05
Units:	ug/Kg	Prepared:	10/30/05
Basis:	dry	Analyzed:	11/07/05
Diln Fac:	20.00		

Analyte	Result	RL	MDL
Butylbenzylphthalate	3,300 J	24,000	2,800
3,3'-Dichlorobenzidine	ND	49,000	1,800
Benzo(a)anthracene	ND	4,900	2,400
Chrysene	ND	4,900	2,200
bis(2-Ethylhexyl)phthalate	61,000	24,000	2,400
Di-n-octylphthalate	ND	24,000	2,900
Benzo(b)fluoranthene	ND	4,900	2,100
Benzo(k)fluoranthene	ND	4,900	3,100
Benzo(a)pyrene	ND	4,900	2,000
Indeno(1,2,3-cd)pyrene	ND	4,900	2,700
Dibenz(a,h)anthracene	ND	4,900	2,600
Benzo(g,h,i)perylene	ND	4,900	2,800

Surrogate	%REC	Limits
2-Fluorophenol	DO	25-135
Phenol-d5	DO	25-135
2,4,6-Tribromophenol	DO	25-144
Nitrobenzene-d5	DO	25-135
2-Fluorobiphenyl	DO	34-135
Terphenyl-d14	DO	32-136

J= Estimated value
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

25.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

California Title 26 Metals

Lab #:	182608	Project#:	CTO84
Client:	Tetra Tech EC, Inc.	Location:	PCB Hot Spot, HPS
Field ID:	84-B115-003	Basis:	dry
Lab ID:	182608-002	Sampled:	10/19/05
Matrix:	Soil	Received:	10/19/05
Units:	mg/Kg		

Moisture: 73%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	44	8.7	0.31	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Arsenic	19	0.76	0.30	1.000	107139	10/27/05	10/27/05	EPA 3050B	EPA 6010B
Barium	190	1.4	0.15	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Beryllium	0.13 J	0.29	0.029	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Cadmium	30	0.72	0.067	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Chromium	99	1.4	0.097	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Cobalt	16	2.9	0.074	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Copper	1,000	1.4	0.14	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Lead	630	0.46	0.16	1.000	107139	10/27/05	10/27/05	EPA 3050B	EPA 6010B
Mercury	1.0	0.074	0.014	1.000	106951	10/20/05	10/20/05	METHOD	EPA 7471A
Molybdenum	7.8	2.9	0.065	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Nickel	42	2.9	0.088	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Selenium	1.4	0.72	0.22	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Silver	ND	0.72	0.13	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Thallium	ND	0.72	0.088	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Vanadium	23	1.4	0.091	1.000	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B
Zinc	3,000	29	3.1	10.00	107185	10/28/05	10/28/05	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

TETRA TECH
1230 Columbia Street, Suite 500
San Diego, CA 92101 (619) 234-8696

NUMBER 14210

CHAIN-OF-CUSTODY RECORD

B115

PROJECT NAME	HUNTERS POINT
PROJECT LOCATION	SAN FRANCISCO
SAMPLER NAME	ANDREW GORMAN
PROJECT CONTACT	LISA DIENKOWSKI
PURCHASE ORDER NO	56184
PROJECT NO	1990-084D
AIRBILL NUMBER	N/A - COURIER
PROJECT CONTACT PHONE NUMBER	949-756-7592
LABORATORY NAME	CPT
LABORATORY ID (FOR LABORATORY)	183361

ANALYSES REQUIRED: EPA 8082 (PCB)

Project Information Section
Do not submit to Laboratory

SAMPLE ID	DATE COLLECTED	TIME COLLECTED	NO. OF CONTAINER	LEVEL 3	LEVEL 4	TYPE	TAT	EPA 8082 (PCB)	COMMENTS	LOCATION	DEPTH START	DEPTH END	QC
84115.006	11/21/05	1110	1	X		S	10 DAY	X		B115 BOXED ACOUSTIC TILE	—	—	Reg

RELINQUISHED BY (Signature)	DATE 11/21/05	RECEIVED BY (Signature)	
COMPANY TTECI	TIME 16:23	COMPANY CPT	
RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	
COMPANY	TIME	COMPANY	
RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	
COMPANY	TIME	COMPANY	

LABORATORY INSTRUCTIONS/COMMENTS

COMPOSITE DESCRIPTION

SAMPLE CONDITION UPON RECEIPT (FOR LABORATORY)
TEMPERATURE: _____ SAMPLE CONDITION: ☐ INTACT ☐ BROKEN
COOLER SEAL: ☐ INTACT ☐ BROKEN

SAMPLING COMMENT:
B 115
BOXED
ACOUSTIC
TILE

White - Laboratory; Pink - Laboratory; Canary - Project File; Manila - Data Management

181370

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	183361	Location:	PCB Hot Spot, HPS
Client:	Tetra Tech EC, Inc.	Prep:	EPA 3540
Project#:	CT084	Analysis:	EPA 8082
Field ID:	84-115-006	Batch#:	108207
Matrix:	Miscell.	Sampled:	11/21/05
Units:	ug/Kg	Received:	11/21/05
Basis:	as received	Prepared:	11/29/05
Diln Fac:	1.000		

Type: SAMPLE
Lab ID: 183361-001
Analyzed: 12/02/05
Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.5	3.9
Aroclor-1221	ND	19	10
Aroclor-1232	ND	9.5	2.2
Aroclor-1242	ND	9.5	3.5
Aroclor-1248	ND	9.5	0.68
Aroclor-1254	ND	9.5	2.5
Aroclor-1260	ND	9.5	3.8

Surrogate	%REC	Limits
TCMX	98	30-140
Decachlorobiphenyl	83	30-140

Type: BLANK
Lab ID: QC319010
Analyzed: 11/30/05
Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	5.0
Aroclor-1221	ND	19	7.3
Aroclor-1232	ND	9.6	2.3
Aroclor-1242	ND	9.6	2.0
Aroclor-1248	ND	9.6	0.45
Aroclor-1254	ND	9.6	4.9
Aroclor-1260	ND	9.6	2.7

Surrogate	%REC	Limits
TCMX	121	30-140
Decachlorobiphenyl	117	30-140

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.4

ATTACHMENT 4

MANIFEST

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Cont
Sacramento, California

22733306

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESP[illegible]ENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CA0001019694 — Manifest Document No.: 33306
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Attn: Peter Stroganoff, US Navy - Hunters Point Shipyard, 2450 Saratoga St, Ste 200, Alameda, CA 94501
4. Generator's Phone (510) 755-5877
A. State Manifest Document Number: 2273330[illegible]
B. State Generator's ID:
5. Transporter 1 Company Name: Eighteen Trucking
6. US EPA ID Number: CAR000143875
C. State Transporter's ID [Reserved.]
D. Transporter's Phone: 415-552-1818
7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID [Reserved.]
F. Transporter's Phone:
9. Designated Facility Name and Site Address: Chemical Waste Management, 35251 Old Skyline Dr, Kettleman City, CA
10. US EPA ID Number: sw CA T000646117 ~~0001019694~~
G. State Facility's ID:
H. Facility's Phone: 559-386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	f. Waste Number
a. Non RCRA Hazardous Waste Liquid (used oil)	001	DM	00072	P	State 221; EPA/Other N/A
b. UN2315, RQ, Polychlorinated biphenyls, solid (PCB contaminated equipment, 9, PG III	002	DM	00 ~~209~~ 297 sw	K	State 261; EPA/Other N/A
c. UN3077, Environmentally hazardous substances, solid, nos (polychlorinated biphenyls), 9, PG III	002	DM	00 ~~217~~ 116 sw	K	State 751, 223, 261, 611; EPA/Other D006-008, D015, D018-019, D02[illegible]
d. UN3077, Environmentally hazardous substances, solid, nos (polychlorinated biphenyls), 9, PG III	001	DM	00016	K	State Same as 11C; EPA/Other Same as 11C

J. Additional Descriptions for Materials Listed Above
11a. Profile # EC0443, Drum # D84-104 (CTO-84-B.115) OSD = 1/26/06
11b. Profile # EC1502, RQ = 1 Drum # D-84-129 and D-84-128 (CTO-84-B.115)
11c. Profile # EC7270, OSD = 11/10/05, Drum # D-84-103 and D-84-129 (CTO-84-B.115)
11d. Profile # EC7270, OSD = 11/21/05, Drum D84-99 (CTO84-PCB HS)

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
11a. ERG = 171 11b. ERG = 171 11c ERG = 171 11d ERG = 171
24 Hr Chemtrec Emergency # 800-424-4300 (WMI Contract)
Wear Appropriate PPE when Handling Waste

Site Address: 270 Nimitz Ave, B. 270, San Francisco, C[illegible]

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: PETER STROGANOFF — Signature: Peter Stroganoff — Month 01 Day 31 Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Karim Mehdi Pour — Signature: K. [signature] — Month 02 Day 03 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Month Day Year

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/99)
EPA 8700—22

White To: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS. P.O. Box 3000, Sacramento, CA 95812

TETRA TECH EC, INC.

TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N68711-98-D-5713 (RAC III)

Document Control No. 06-0651

File Code: 5.0

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest
Ms. Beatrice Appling, AQE.BA
1220 Pacific Highway
San Diego, CA 92132-5190

DATE: 03/23/06
CTO: 0084
LOCATION: Hunters Point Shipyard

FROM: Edwin Neil Hart
Neil Hart, Program Manager

DESCRIPTION: Building 115 Waste Consolidation Final Status Report, 03/20/06
(Document went from Internal Draft DCN: 06-0530, 02/17/06 to Final DCN: 06-0651)

TYPE: ☐ Contract/Deliverable ☒ CTO Deliverable ☐ Notification ☐ Other

VERSION: Final (e.g. Draft, Draft Final, Final, etc.)

REVISION #: N/A

ADMIN RECORD: (PM to Identify) Yes ☒ No ☐ Category ☐ Confidential ☐

SCHEDULED DELIVERY DATE: 03/20/06

ACTUAL DELIVERY DATE: 03/23/06

NUMBER OF COPIES SUBMITTED: O/9C/7E

Copy of SAP to N. Ancog ☐

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