

VOLUME 2 OF 3

CONSTRUCTION & OPERATION PERMIT APPLICATION

*2002 North Orient Road
Tampa, FL 33619*

Permit No. 34875-HO-010

Prepared for

EQ Florida, Inc.
7202 East 8th Avenue
Tampa, FL 33619

Prepared by

KCI Technologies, Inc.
10401 Highland Manor Drive, Suite 120
Tampa, FL 33610

July 2013
November 2013
Revision: 01



VOLUME 2 OF 3

Permit Application

FOR

**Construction of a Hazardous Waste Treatment Unit
and Renewal Application for Operation of a
Hazardous Waste Treatment and Storage Facility**

AT

**2002 North Orient Road
Tampa, FL 33619**

Permit No.: 34875-HO-010

Prepared For:

**EQ Florida, Inc.
7202 East 8th Avenue
Tampa, FL 33619**



Prepared By:

**KCI Technologies, Inc.
10401 Highland Manor Drive, Suite 120
Tampa, FL 33610
Project No. 12123014**

**Revision: 01
November July 2013**

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APPENDIX A

Articles of Incorporation

EQ FLORIDA, INC.
CERTIFICATE OF SECRETARY AND CERTIFICATE OF INCUMBENCY

In connection with the execution by EQ FLORIDA, INC., a Michigan corporation ("Corporation"), of certain documents and agreements described in the Consent in Lieu of Special Meeting of the Board of Directors and the delivery of said documents as provided therein with the understanding that this Certificate will be relied upon by third parties, the undersigned hereby certifies and affirms all of the following:

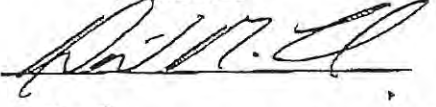

1. The undersigned is the duly elected and incumbent Secretary of the Corporation, a corporation organized and existing under the laws of the State of Michigan.

2. Attached hereto as Exhibit A is a true, correct and complete copy of the Consent in Lieu of Special Meeting of the Board of Directors of the Corporation adopted on January 29, 2004, and said Consent is in full force and effect, unmodified and unrevoked as of the date hereof.

3. Attached hereto as Exhibit B is a true, correct and complete copy of the Articles of Incorporation of the Corporation as in effect on and as of the date hereof, which Articles of Incorporation are in full force and effect without modification or amendment in any respect.

4. Attached hereto as Exhibit C is a true, correct and complete copy of the Bylaws of the Corporation as in effect on and as of the date hereof, which Bylaws are in full force and effect without modification or amendment in any respect.

5. Each of the persons whose name is set forth below is the duly qualified incumbent of the office of the Corporation set forth opposite his name:

<u>Name</u>	<u>Title</u>	<u>Signature</u>
David M. Lusk	President	
Kenneth Wunderlich	Secretary/Treasurer	

The signature set forth opposite the name of each of the above officers is a true and correct specimen of said officer's signature.

WITNESS, my hand as of the 29th day of January, 2004.


Kenneth Wunderlich

CONSENT IN LIEU OF SPECIAL MEETING
OF BOARD OF DIRECTORS OF
EQ FLORIDA, INC.

The undersigned, being all of the members of the Board of Directors EQ FLORIDA, INC., a Michigan corporation (the "Corporation"), hereby approve and adopt the following actions:

RESOLVED, that the form, terms and provisions of that certain Asset Purchase Agreement, dated as of as of January 29, 2004, by and among US Liquids Inc., a Delaware corporation, USL Management Limited Partnership, a Texas limited partnership, US Liquids of Detroit, Inc., a Michigan corporation, USL First Source, Inc., a Maryland corporation, US Liquids of Florida, a Florida corporation, Waste, Research and Recovery, Inc., a Georgia corporation, the Corporation and the other parties thereto (the "Asset Purchase Agreement"), substantially in the form as reviewed by the undersigned, and the Corporation's performance of its obligations thereunder, are hereby in all respects approved.

FURTHER RESOLVED, that the Corporation, through any of its officers, is hereby authorized and directed to execute, deliver and perform the Asset Purchase Agreement.

FURTHER RESOLVED, that the Corporation shall borrow money and have other financial accommodations extended to it from Comerica Bank ("Bank"), in an aggregate principal amount of up to \$5,751,000, or such additional amounts in excess of \$5,751,000 as the officers of the Corporation on behalf of the Corporation shall deem appropriate from time to time pursuant to the Loan Documents referred to below (with such changes in such terms and conditions as the Authorized Officers shall deem to be appropriate).

FURTHER RESOLVED, that the Corporation, through any of its officers, is hereby authorized and directed to execute, deliver and perform the following documents (collectively, the "Loan Documents"): (i) that certain Letter Agreement, dated as of January 29, 2004 (the "Closing Date"), by and among the Corporation, the Bank, and the other parties thereto, (ii) a note up to an aggregate principal amount of \$5,751,000 executed by the Corporation in favor of the Bank (the "Note"); (iii) that certain Guaranty, dated as of the Closing Date, executed by the Corporation for the benefit of the Bank; (iv) that certain Security Agreement, dated as of the Closing Date, by and between the Corporation and the Bank, in each of clauses (i), (ii), (iii) and (iv) in the form previously submitted to the undersigned (with such modifications as the executing officer shall deem appropriate) and (v) any and all documents, instruments or agreements necessary or required in order to effectuate the foregoing.

FURTHER RESOLVED, that the Corporation, through any of its officers, is hereby authorized and directed to execute, deliver and perform such other documents and to take such other actions as such officers, in their sole discretion, may deem appropriate in order to consummate the transactions contemplated


herein, and all documents heretofore or hereafter executed and all actions heretofore or hereafter taken by such officers are hereby ratified and confirmed and shall be fully binding and enforceable upon the Corporation.

FURTHER RESOLVED, that the Corporation, through its officers, is hereby authorized and directed, now and from time to time hereafter: (i) to amend, modify, alter, extend, renew, or otherwise change any of the provisions, terms, conditions, covenants, guarantees, or representations contained in the above agreements; and (ii) to execute and deliver such agreements, instruments, and documents as are required under the above agreements, as amended or otherwise modified from time to time.

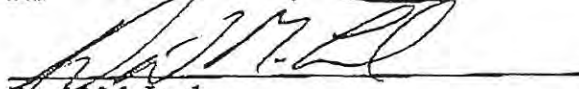
FURTHER RESOLVED, that the Corporation, through its officers, is hereby authorized and directed, now and from time to time hereafter, to make telephonic or written requests for continuation of borrowings under the Note, and the Bank is hereby authorized to honor such telephonic or written request of the officers of the Corporation, or of any person so designated by an officer of the Corporation, until such time as the Bank is notified in writing by the Corporation of the revocation of the authorization of an officer to make such telephonic or written requests for continuation of borrowings under the Note.

FURTHER RESOLVED, that these resolutions may be executed in counterparts, each of which constitutes an original, and all of which, taken together, constitute one and the same original and facsimile signatures on these resolutions shall be deemed to constitute original signatures.


Dated: January 29, 2004


Michael J. Ferrantino, Jr.

Dated: January 29, 2004


David M. Lusk

Dated: January 29, 2004


Michael J. Miller

BCS/CO-500 (Rev. 09/01)

MICHIGAN DEPARTMENT OF CONSUMER & INDUSTRY SERVICES BUREAU OF COMMERCIAL SERVICES	
Date Received NOV 25 2003	(FOR BUREAU USE ONLY) FILED NOV 25 2003
This document is effective on the date filed, unless a subsequent effective date within 90 days after received date is stated in the document.	
Name IANIS K. KUJAN, LEGAL ASSISTANT Address 32270 Telegraph Road, Suite 225 City State ZIP Code Bingham Farms Michigan 48025-2457	
Administrator BUREAU OF COMMERCIAL SERVICES Effective Date:	

Document will be returned to the name and address you enter above.
If left blank document will be mailed to the registered office.

046-790

ARTICLES OF INCORPORATION

For use by Domestic Profit Corporations
(Please read information and instructions on the last page)

Pursuant to the provisions of Act 284, Public Acts of 1972, the undersigned corporation executes the following Articles:

ARTICLE I

The name of the corporation is:
EQ FLORIDA, INC.

ARTICLE II

The purpose or purposes for which the corporation is formed is to engage in any activity within the purposes for which corporations may be formed under the Business Corporation Act of Michigan.

ARTICLE III

The total authorized shares:

1. Common Shares 60,000

Preferred Shares 0

2. A statement of all or any of the relative rights, preferences and limitations of the shares of each class is as follows:
NONE

ARTICLE IV

1. The address of the registered office is:

36255 MICHIGAN AVENUE, WAYNE, Michigan 48184
(Street Address) (City) (ZIP Code)

2. The mailing address of the registered office, if different than above:

_____, Michigan _____
(Street Address or P.O. Box) (City) (ZIP Code)

The name of the resident agent at the registered office is: DAVID LUSK

ARTICLE V

The name(s) and address(es) of the incorporator(s) is(are) as follows:

Name

Residence or Business Address

JANIS K. KUJAN, 32270 TELEGRAPH ROAD, SUITE 225, BINGHAM FARMS, MI 48025

ARTICLE VI (Optional, Delete if not applicable)

~~When a compromise or arrangement or a plan of reorganization of this corporation is proposed between this corporation and its creditors or any class of them or between this corporation and its shareholders or any class of them, a court of equity jurisdiction within the state, on application of this corporation or of a creditor or shareholder thereof, or an application of a receiver appointed for the corporation, may order a meeting of the creditors or class of creditors or of the shareholders or class of shareholders to be affected by the proposed compromise or arrangement or reorganization, to be summoned in such manner as the court directs. If a majority in number representing 3/4 in value of the creditors or class of creditors, or of the shareholders or class of shareholders to be affected by the proposed compromise or arrangement or a reorganization, agree to a compromise or arrangement or a reorganization of this corporation as a consequence of the compromise or arrangement, the compromise or arrangement and the reorganization, if sanctioned by the court to which the application has been made, shall be binding on all the creditors or class of creditors, or on all the shareholders or class of shareholders and also on this corporation.~~

ARTICLE VI (Optional, Delete if not applicable)

Any action required or permitted by the Act to be taken at an annual or special meeting of shareholders may be taken without a meeting, without prior notice, and without a vote, if consents in writing, setting forth the action so taken, are signed by the holders of outstanding shares having not less than the minimum number of votes that would be necessary to authorize or take the action at a meeting at which all shares entitled to vote on the action were present and voted. A written consent shall bear the date of signature of the shareholder who signs the consent. Written consents are not effective to take corporate action unless within 60 days after the record date for determining shareholders entitled to express consent to or to dissent from a proposal without a meeting, written consents dated not more than 10 days before the record date and signed by a sufficient number of shareholders to take the action are delivered to the corporation. Delivery shall be to the corporation's registered office, its principal place of business, or an officer or agent of the corporation having custody of the minutes of the proceedings of its shareholders. Delivery made to a corporation's registered office shall be by hand or by certified or registered mail, return receipt requested.

Prompt notice of the taking of the corporate action without a meeting by less than unanimous written consent shall be given to shareholders who would have been entitled to notice of the shareholder meeting if the action had been taken at a meeting and who have not consented to the action in writing. An electronic transmission consenting to an action must comply with Section 407(3).

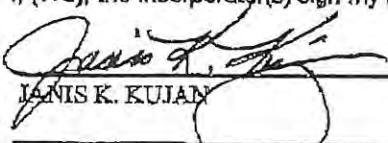
MCS/CO-500 (Rev. 00/01)

The space below for additional Articles or for continuation of previous Articles. Please identify any Article being continued or added. Attach additional pages if needed.

Article VII

To the full extent permitted by the Michigan Business Corporation Act or any other applicable laws presently or hereafter in effect, no director of this Corporation shall be personally liable to this Corporation or its shareholders for or with respect to any acts or omissions in the performance of his or her duties as a director of this Corporation. Any repeal or modification of this Article VII shall not adversely affect any right or protection of a director of this Corporation existing immediately prior to such repeal or modification.

I, (We), the incorporator(s) sign my (our) name(s) this 24th day of November, 2003.



IANIS K. KUJAN



This is to Certify that the annexed copy has been compared by me with the record on file in this Department and that the same is a true copy thereof.

This certificate is in due form, made by me as the proper officer, and is entitled to have full faith and credit given it in every court and office within the United States.

In testimony whereof, I have hereunto set my hand, in the City of Lansing, this 26th day of January, 2004

Andrew J. Matloff, Director

Bureau of Commercial Services

OFFICE FACILITY
FLORIDA

Parcel 2:

Lots 1 through 10, inclusive, of Block 5 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the public records of Hillsborough County, Florida, TOGETHER WITH the West 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lots 1 and 10 on the East, bounded on the North by Ninth Avenue and on the South by Eighth Avenue.

Parcel 3:

Lots 5 and 6 in Block 5 of DRURY'S ADDITION TO ORIENT PARK, according to the map or plat thereof recorded in Plat Book 12, Page 63 of the public records of Hillsborough County, Florida.

Parcel 4:

Lots 7 and 8 of Block 6 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the public records of Hillsborough County, Florida, TOGETHER WITH the East 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lots 7 and 8 on the West, bounded on the North by Ninth Street and on the South by Eighth Avenue.

Parcel 5:

TOGETHER WITH a perpetual, non-exclusive easement for utilities, being more particularly described as follows:

Lots 1 through 6, inclusive, and Lots 9 through 14, inclusive, of Block 6 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the public records of Hillsborough County, Florida.

Tax parcel ID No. 1345625

TRANSFER FacilityLEGAL DESCRIPTION
PROPERTY IN HILLSBOROUGH COUNTY
FLORIDA

Land situated in Hillsborough County, Florida, more particularly described as follows:

Parcel 1:

Lots 8 through 14, inclusive, of Block 1 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the public records of Hillsborough County, Florida, TOGETHER WITH the East 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lot 8 on the West, bounded on the South by Ninth Avenue and on the North by the South boundary of Lot 7

Tax parcel ID No. 1345614

This instrument prepared by:

Name: Phyllis G. Rozof, Esq.
Address: Honigman Miller Schwartz & Cohn LLP
660 Woodward Avenue
2290 First National Building
Detroit, Michigan 48226

Return to: Phyllis G. Rozof, Esq.
Honigman Miller Schwartz & Cohn LLP
660 Woodward Avenue
2290 First National Building
Detroit, Michigan 48226

SPECIAL WARRANTY DEED

THIS SPECIAL WARRANTY DEED is made as of the 30 day of January, 2004, between US LIQUIDS OF FLORIDA, INC., a Florida corporation which was formerly known as USL City Environmental Services of Florida, Inc. ("Grantor"), whose address is 411 N. Sam Houston Parkway East, Suite 400, Houston, Texas 77060, and EQ FLORIDA, INC., a Michigan corporation ("Grantee"), whose address is 36255 Michigan Avenue, Wayne, Michigan 48184.

WITNESSETH:

GRANTOR, in consideration of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration paid by Grantee, the receipt and sufficiency of which are hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto Grantee, and Grantee's successors and assigns forever, the following property located in Hillsborough County, Florida ("Property"), to wit:

See Exhibit A attached hereto and by this reference made a part hereof.

TOGETHER, with all the tenements, hereditaments, easements and appurtenances thereto belonging or in any way appertaining.

SUBJECT TO easements and building and use restrictions of record and further subject to those matters set forth in Schedule B of that certain Pro Forma Policy of Title Insurance issued by First American Title Insurance Company under Commitment No. NCS-64112-CH11 with respect to the Property on or about the date of delivery of this deed.

TO HAVE AND TO HOLD the same unto Grantee and Grantee's successors and assigns in fee simple forever.

Grantor hereby covenants with Grantee that Grantor is lawfully seized of said Property in fee simple; that Grantor has good right and lawful authority to sell and convey the Property; and Grantor hereby warrants the title to the Property and will defend the same against the lawful claims of all persons claiming by, through or under Grantor, but against no others.

IN WITNESS WHEREOF, Grantor has executed and delivered this Special Warranty Deed as of the day and year first above written.

Signed, sealed and delivered
in the presence of:

US LIQUIDS OF FLORIDA, INC.,
a Florida corporation, formerly know as
USL City Environmental Services of Florida, Inc.

[Signature]
Name: Gregory Fleck

By:

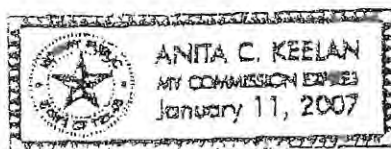
[Signature]
Print Name: William M. DeArman

Title: PRESIDENT

[Signature]
Name: Kevin L Fletcher

STATE OF TEXAS)
) SS.
COUNTY OF HARRIS)

The foregoing instrument was acknowledged before me this 30TH day of JANUARY, 2004, by WILLIAM M DEARMAN, the PRESIDENT of US Liquids of Florida, Inc., a Florida corporation, formerly known as USL City Environmental Services of Florida, Inc., on behalf of said corporation.



Notary: [Signature]

Print Name: ANITA C. KEELAN

Notary Public, State of TEXAS

My Commission Expires: 1-11-2007

PAGE 04/04

EXHIBIT A

Legal Description

Land situated in Hillsborough County, Florida more particularly described as follows:

Parcel I:

Lots 8 through 14, inclusive, of Block 1 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the Public Records of Hillsborough County, Florida, TOGETHER WITH the East 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lot 8 on the West, bounded on the South by Ninth Avenue and on the North by the South boundary of Lot 7 extended.

Parcel II:

Lots 1 through 10, inclusive, of Block 5 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the Public Records of Hillsborough County, Florida, TOGETHER WITH the West 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lots 1 and 10 on the East, bounded on the North by Ninth Avenue and on the South by Eighth Avenue.

Parcel III:

Lots 5 and 6 in Block 5 of DRURY'S ADDITION TO ORIENT PARK, according to the map or plat thereof recorded in Plat Book 12, Page 63 of the Public Records of Hillsborough County, Florida.

Parcel IV:

Lots 7 and 8 of Block 6 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the Public Records of Hillsborough County, Florida, TOGETHER WITH the East 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lots 7 and 8 on the West, bounded on the North by Ninth Street and on the South by Eighth Avenue.

Parcel V:

TOGETHER WITH a perpetual, non-exclusive easement as set forth in Easement Agreement by and between Armando O. Roche and Linda J. Roche, husband and wife, and Universal Transit Property Company, a Florida corporation, dated October 3, 1994, recorded October 4, 1994 in O.R. Book 7542, Page 868, Public Records of Hillsborough County, Florida, over property more particularly described as follows:

Lots 1 through 6, inclusive, and Lots 9 through 14, inclusive, of Block 6 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the Public Records of Hillsborough County, Florida.

APPENDIX B

Summary of Permitted EPA Hazardous Waste Codes

EQ FLORIDA INC. (EQFL)

Summary of Characteristic and Listed Hazardous Wastes

Process Code	EPA Hazardous Waste Number	Waste Type	Estimated Annual Quantity (Gallons)
S01	D001	Ignitable	175,000
S01	D002	Corrosive	50,000
S01	D003	Reactive	5,000
S01	"D" Characteristic Waste (Excluding D001-D003)	Characteristic Hazardous Waste	90,000
S01	F001 & F002	Halogenated Solvents	10,000
S01	F003 & F005	Non-Halogenated	Included in D001
S01	F006-F012 & F019	Plating Wastes	24,000
S01	"F" Listed Wastes (Excluding F001, F002 F001, F005-F012, & F019)	Listed Wastes from Non-Specific Sources	1,000
S01	"K" Listed Wastes	Listed wastes from Specific Sources	1,000
S01	"U" Listed Waste	Toxic Wastes	<u>20,000</u>
			377,000 <u>237,000</u>
T21 T40	"D" Characteristic Waste (Excluding D001 & D003)	Characteristic Hazardous Waste (D002, D004-011)	0* <u>204,000*</u>
T40	"F" Listed Wastes (Excluding F020-F023, F026, and F027)	Listed Waste from Non-Specific Sources	0*
			<u>0*</u>

* ~~Chemical fixation/solidification/stabilization in the to-be-constructed treatment tank. EQFL currently does not plan to treat any wastes by using the filter press. EQFL may (in the future) treat wastes prior to the expiration of the permit should business, environmental regulations, or economics justify the treatment. Annual quantities will not exceed those permitted in Section 15.~~

BAY CAPACITIES:

Bay 1	-	20,000 gallons
Bay 2	-	10,000 gallons
Bay 3	-	20,000 gallons

Each bay may contain hazardous wastes with any of the EQFL permitted waste codes. The hazardous waste is segregated into separate bays (and containment) by hazard class and compatibility, not by waste code. Storage location by waste (hazard class) is indicated on Figure 14.



PERMITTED HAZARDOUS WASTE CODES

EQ Florida

CHARACTERISTIC WASTES

D001	D002	D003	D004	D005	D006	D007	D008	D009	D010	D011	D012	D013	D014	D015	D016	D017	D018
D019	D020	D021	D022	D023	D024	D025	D026	D027	D028	D029	D030	D031	D032	D033	D034	D035	D036
D037	D038	D039	D040	D041	D042	D043											

HAZARDOUS WASTE FROM NON-SPECIFIC SOURCES

F001	F002	F003	F004	F005	F006	F007	F008	F009	F010	F011	F012	F019	F020	F021	F022	F023	F024
F025	F026	F027	F028	F032	F034	F035	F037	F038	F039								

HAZARDOUS WASTE FROM SPECIFIC SOURCES

K001	K002	K003	K004	K005	K006	K007	K008	K009	K010	K011	K013	K014	K015	K016	K017	K018	K019
K020	K021	K022	K023	K024	K025	K026	K027	K028	K029	K030	K031	K032	K033	K034	K035	K036	K037
K038	K039	K040	K041	K042	K043	K044	K045	K046	K047	K048	K049	K050	K051	K052	K060	K061	K062
K064	K065	K066	K069	K071	K073	K083	K084	K085	K086	K087	K088	K090	K091	K093	K094	K095	K096
K097	K098	K099	K100	K101	K102	K103	K104	K105	K106	K107	K108	K109	K110	K111	K112	K113	K114
K115	K116	K117	K118	K123	K124	K125	K126	K131	K132	K136	K140	K141	K142	K143	K144	K145	K147
K148	K149	K150	K151	K156	K157	K158	K159	K160	K161	K162	K163	K164	K165	K166			

ACUTE TOXIC HAZARDOUS WASTES

P001	P002	P003	P004	P005	P006	P007	P008	P009	P010	P011	P012	P013	P014	P015	P016	P017	P018
P020	P021	P022	P023	P024	P026	P027	P028	P029	P030	P031	P033	P034	P036	P037	P038	P039	P040
P041	P042	P043	P044	P045	P046	P047	P048	P049	P050	P051	P054	P056	P057	P058	P059	P060	P062
P063	P064	P065	P066	P067	P068	P069	P070	P071	P072	P073	P074	P075	P076	P077	P078	P081	P082
P084	P085	P087	P088	<u>P089</u>	P092	P093	P094	P095	P096	P097	P098	P099	P101	P102	P103	P104	P105
P106	P108	P109	P110	P111	P112	P113	P114	P115	P116	P118	P119	P120	P121	P122	P123	P127	P128
P185	P187	P188	P189	P190	P191	P192	P193	P194	P195	P196	P197	P198	P199	P200	P201	P202	P203
P204	P205																

TOXIC HAZARDOUS WASTES

U001	U002	U003	U004	U005	U006	U007	U008	U009	U010	U011	U012	U014	U015	U016	U017	U018	U019
U020	U021	U022	U023	U024	U025	U026	U027	U028	U029	U030	U031	U032	U033	U034	U035	U036	U037
U038	U039	U041	U042	U043	U044	U045	U046	U047	U048	U049	U050	U051	U052	U053	U055	U056	U057
U058	U059	U060	U061	U062	U063	U064	U066	U067	U068	U069	U070	U071	U072	U073	U074	U075	U076
U077	U078	U079	U080	U081	U082	U083	U084	U085	U086	U087	U088	U089	U090	U091	U092	U093	U094
U095	U096	U097	U098	U099	U101	U102	U103	U105	U106	U107	U108	U109	U110	U111	U112	U113	U114
U115	U116	U117	U118	U119	U120	U121	U122	U123	U124	U125	U126	U127	U128	U129	U130	U131	U132
U133	U134	U135	U136	U137	U138	U139	U140	U141	U142	U143	U144	U145	U146	U147	U148	U149	U150
U151	U152	U153	U154	U155	U156	U157	U158	U159	U160	U161	U162	U163	U164	U165	U166	U167	U168
U169	U170	U171	U172	U173	U174	U176	U177	U178	U179	U180	U181	U182	U183	U184	U185	U186	U187
U188	U189	U190	U191	U192	U193	U194	U196	U197	U200	U201	U202	U203	U204	U205	U206	U207	U208
U209	U210	U211	U213	U214	U215	U216	U217	U218	U219	U220	U221	U222	U223	U225	U226	U227	U228
U234	U235	U236	U237	U238	U239	U240	U243	U244	U246	U247	U248	U249	U271	U277	U278	U279	U280
U328	U353	U359	U360	U361	U362	U363	U364	U365	U366	U367	U368	U369	U370	U371	U372	U373	U374
U375	U376	U377	U378	U379	U380	U381	U382	U383	U384	U385	U386	U387	U388	U389	U390	U391	U392
U393	U394	U395	U396	U397	U398	U399	U400	U401	U402	U403	U404	U405	U406	U407	U408	U409	U410
U411																	

APPENDIX C

EQFL Permit List Summary

EQ Florida Permit List

CATEGORY	Permit & Reference	AGENCY
TAMPA - SPECIAL USE PETITION	#V99-68	COT
EPA ID #	FLD981932494	EPA, FDEP
SWFWMD STORMWATER EXEMPTION	E07840	EPA
CERCLA APPROVAL LETTER	FLD981932494	FDEP
EPA STORMWATER NOI MULTI-SECTOR	FLR05E179	FDEP
DOT HAZ MAT REGISTRATION	050709 550 055RT	DOT
SOLID WASTE PERMIT	34757-006-SO/30	FDEP
UNIVERSAL WASTE STORAGE & TRANSPORTER	FLD981932494	FDEP
HAZARDOUS WASTE TRANSPORTER (FL)	FLD981932494	FDEP
HAZARDOUS WASTE 10-DAY TRANSFER (FL)	FLD981932494	FDEP
INSURANCE WITH COMP/ AUTO/ LIABILITY	see ACCORD	see ACCORD
TAMPA PORT AUTHORITY WASTE OIL	N/A	TPA
WASTE TIRE COLLECTOR	96665	FDEP
EPCRA REPORTING	N/A	FILE
HAZARDOUS WASTE EXPORT REPORT	N/A	EPA
MIAMI-DADE LIQUID WASTE TRANSPORTER	LW-000277-2011/2012	DERM
USED OIL COLLECTION & TRANSPORTER	FLD981932494	FDEP
BROWARD CO. WASTE TRANSPORTER	WT-10-0032	Broward County
HAZARDOUS WASTE PERMIT (TSDF)	FLD981932494	FDEP
RX DRUG DESTRUCTION PERMIT	5316	FDOH
APHIS Permit to Receive Soil	P330-08-00259	FDA

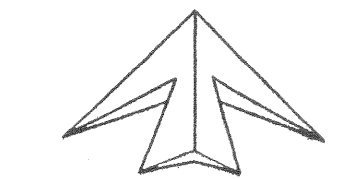
APPENDIX D

Facility & Hazardous Waste Management Building As-Built Drawings

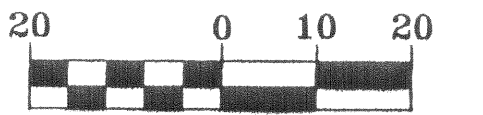
LEGAL DESCRIPTION

A SURVEY OF LOTS 8 THRU 14, INCLUSIVE, BLOCK 1, ORIENT PARK, AS RECORDED IN PLAT BOOK 11, PAGE 7, PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; TOGETHER WITH THE EAST 1/2 OF THAT PORTION OF 72ND STREET (62ND STREET PER PLAT) ABUTTING LOT 8, BLOCK 1, AND LOT 2, BLOCK 2, OF STATED ORIENT PARK.

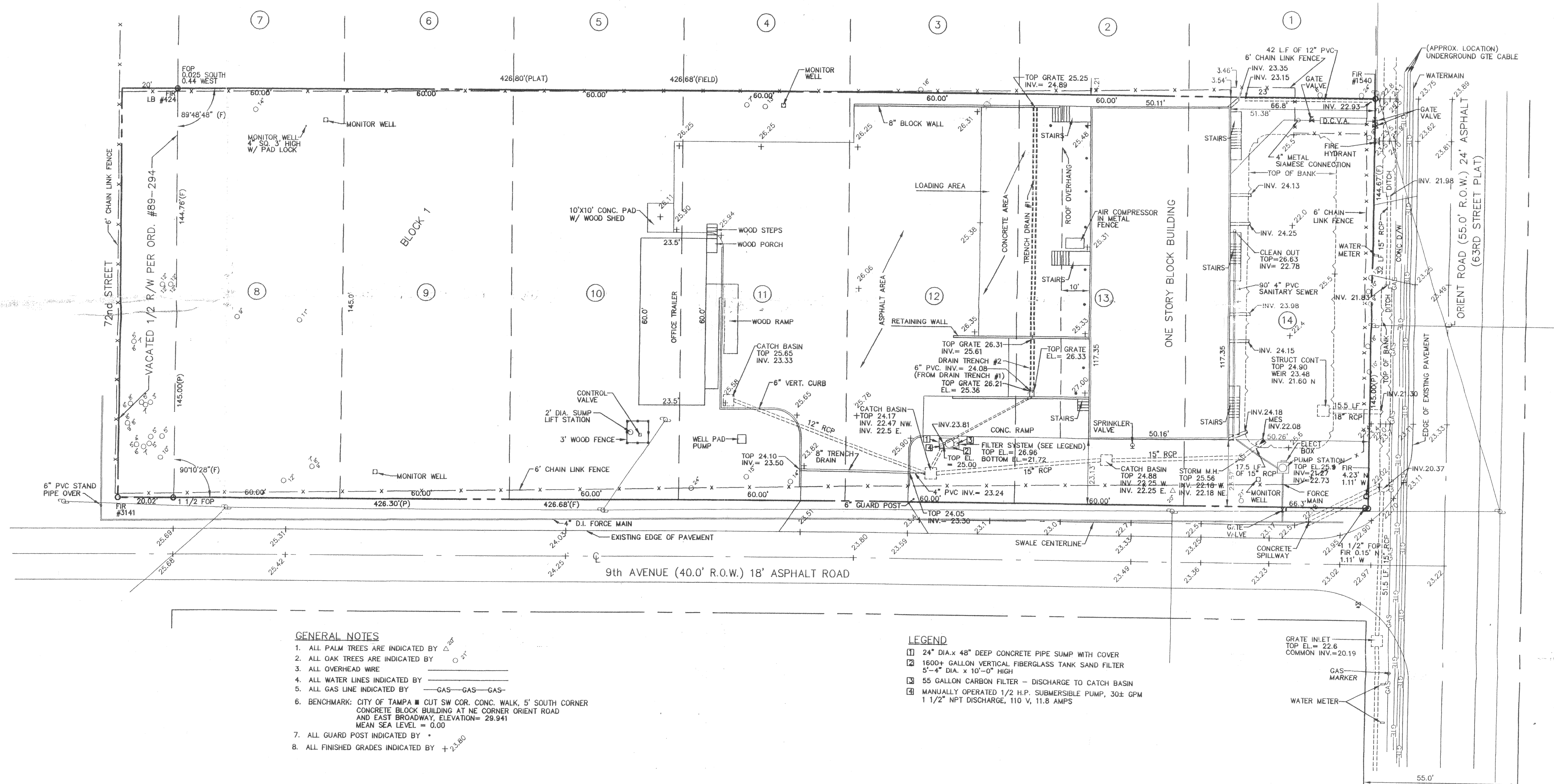
DESCRIPTION: (WATER LINE EASEMENT)
THE SOUTH 5.0 FEET OF LOTS 8 THRU 14, INCLUSIVE, BLOCK 1, ORIENT PARK, AS RECORDED IN PLAT BOOK 11, PAGE 7, PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; TOGETHER WITH THE SOUTH 5.0 FEET OF THE EAST 1/2 OF THAT PORTION OF 72ND STREET (62ND STREET PER PLAT) ABUTTING LOT 8, BLOCK 1, AND LOT 2, BLOCK 2, OF STATED ORIENT PARK.



NORTH
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.
12-27-94
8143-A



GENERAL NOTES

- ALL PALM TREES ARE INDICATED BY
- ALL OAK TREES ARE INDICATED BY
- ALL OVERHEAD WIRE
- ALL WATER LINES INDICATED BY
- ALL GAS LINES INDICATED BY
- BENCHMARK: CITY OF TAMPA CUT SW COR. CONC. WALK, 5' SOUTH CORNER CONCRETE BLOCK BUILDING AT NE CORNER ORIENT ROAD AND EAST BROADWAY, ELEVATION= 29.941 MEAN SEA LEVEL = 0.00
- ALL GUARD POST INDICATED BY
- ALL FINISHED GRADES INDICATED BY

LEGEND

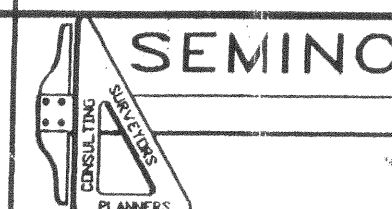
- 24" DIA. x 48" DEEP CONCRETE PIPE SUMP WITH COVER
- 1600+ GALLON VERTICAL FIBERGLASS TANK SAND FILTER 5'-4" DIA. x 10'-0" HIGH
- 55 GALLON CARBON FILTER - DISCHARGE TO CATCH BASIN
- MANUALLY OPERATED 1/2 H.P. SUBMERSIBLE PUMP, 30+ GPM 1 1/2" NPT DISCHARGE, 110 V, 11.8 AMPS

CITY ENVIRONMENTAL
SERVICES OF FLORIDA, INC.

7202 EAST EIGHTH AVENUE
TAMPA, FLORIDA 33619



KBN ENGINEERING AND APPLIED SCIENCES, INC.
5405 W. Cypress St., Suite 215 Telephone: (813) 287-1717
Tampa, Florida 33607 Fax: (813) 287-1716



SEMINOLE ENGINEERING, INC.

14483 62nd STREET NORTH
CLEARWATER, FL. 34620
TELEPHONE (813) 539-0051

RECORD DRAWING - 11/22/94

James M. Winter
JAMES M. WINTER, P.E. # 18313
DATE: 12/27/94

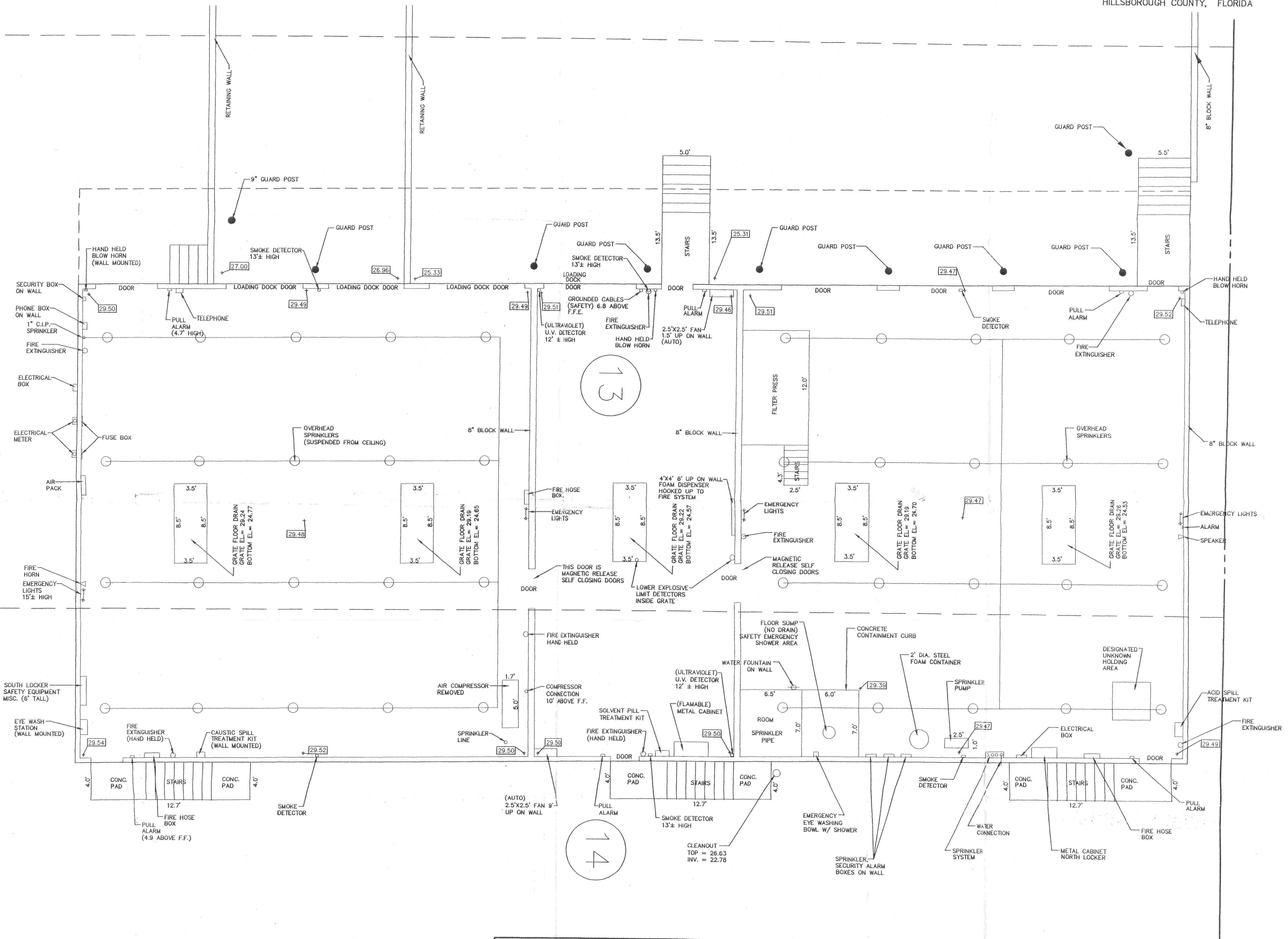
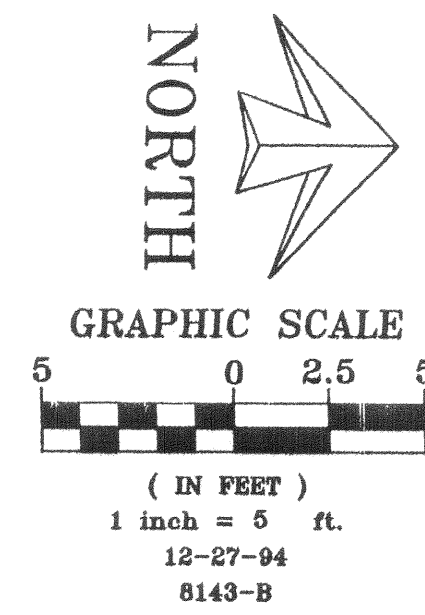
DWG. FILE No.
8143-A
FIELD BOOK No.

PROJECT No.
8143
ENG. SHEET No.


1 OF 2

DATE	No.	REVISIONS	BY	CLIENT	DATE
12/21/94		KBN ENGINEERING AND APPLIED SCIENCES, INC.; BY WLR	SR	UNIVERSAL WASTE & TRANSIT, INC.	12-12-94
12/12/94		JOB NO. 8143; DRAWN BY JES	JHM		DRAWN BY JES
4/12/89		JOB NO. 8143; SEMINOLE ENGINEERING; BY CN	EWB		CHECKED BY JHM
			<input checked="" type="checkbox"/> RECORD DRAWING	SCALE 1" = 20'	

EXISTING LOT PLAN



**CITY ENVIRONMENTAL
SERVICES OF FLORIDA, INC.**



KBN ENGINEERING AND APPLIED SCIENCES, INC.
 5405 W. Cypress St., Suite 215 Telephone: (813) 287-1717
 Tampa, Florida 33607 FAX: (813) 287-1716

SEMINOLE ENGINEERING, INC.

14483 62nd STREET NORTH
CLEARWATER, FL. 34620
TELEPHONE (813) 539-0051

RECORD DRAWING - 11/22/94

James Winter
JAMES M. WINTER, P.E. # 18313
DATE: 12/27/94

DWG. FILE No. 8143-B	PROJECT No. 8143
FIELD BOOK No.	ENG. SHEET No. 2 OF 2

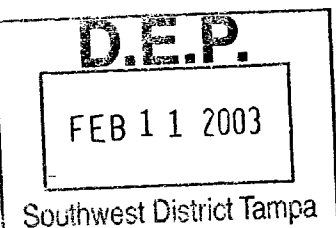
DATE	No.	REVISIONS	BY	<input type="checkbox"/> PRELIMINARY	CLIENT UNIVERSAL WASTE & TRANSIT, INC.	DATE 12-12-94
				<input type="checkbox"/> CONSTRUCTION		DRAWN BY JES
				<input checked="" type="checkbox"/> RECORD DRAWING		SCALE 1" = 5'

EXISTING BUILDING PLAN

CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA

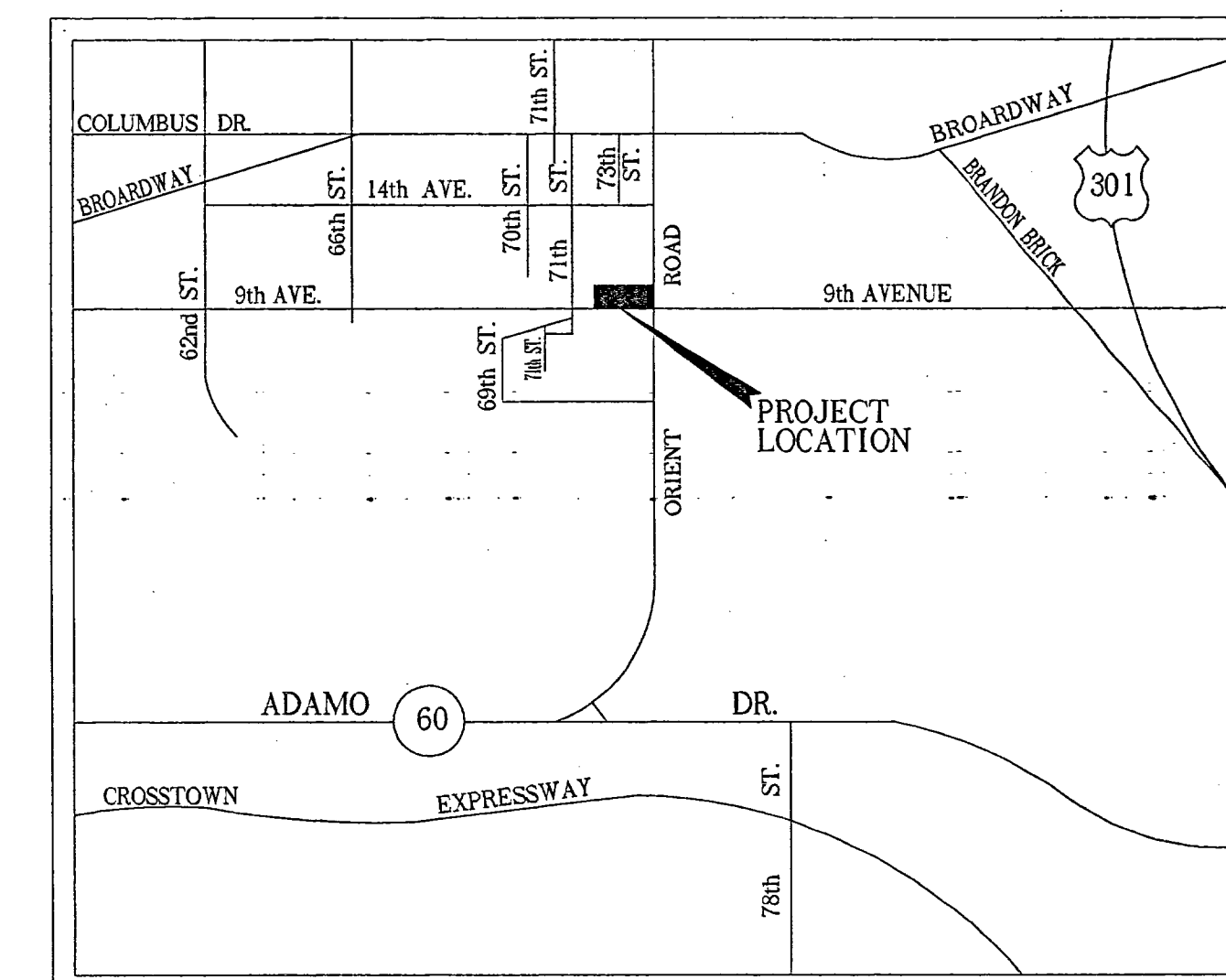
7202 EAST EIGHT AVENUE

TAMPA, FLORIDA, 33619



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DRAWING INDEX		
SHEET	DESCRIPTION	PAGE
SP-1	EXISTING SITE PLAN	1 OF 11
SP-1.1	EXISTING ADJACENT SITE PLAN	1.1 OF 11
SP-2	PROPOSED SITE PLAN	2 OF 11
A-1	EXISTING LOADING DOCK FLOOR PLAN	3 OF 11
A-2	DEMOLITION PLAN	4 OF 11
A-3	PROPOSED CONTAMINANT AREA & LOADING DOCK FLOOR PLAN	5 OF 11
A-4	EAST & WEST ELEVATION PLAN	6 OF 11
A-5	NORTH & SOUTH ELEVATION PLAN	7 OF 11
A-6	ROOF & CROSS SECTION PLAN	8 OF 11
S-1	CONTAMINANT AREA FOUNDATION PLAN	9 OF 11
S-2	FOUNDATION DETAILS	10 OF 11

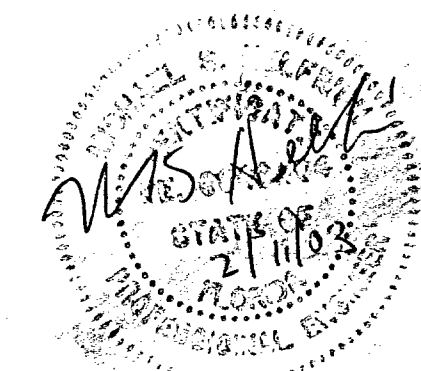




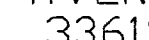
KEY MAP
N.T.S.

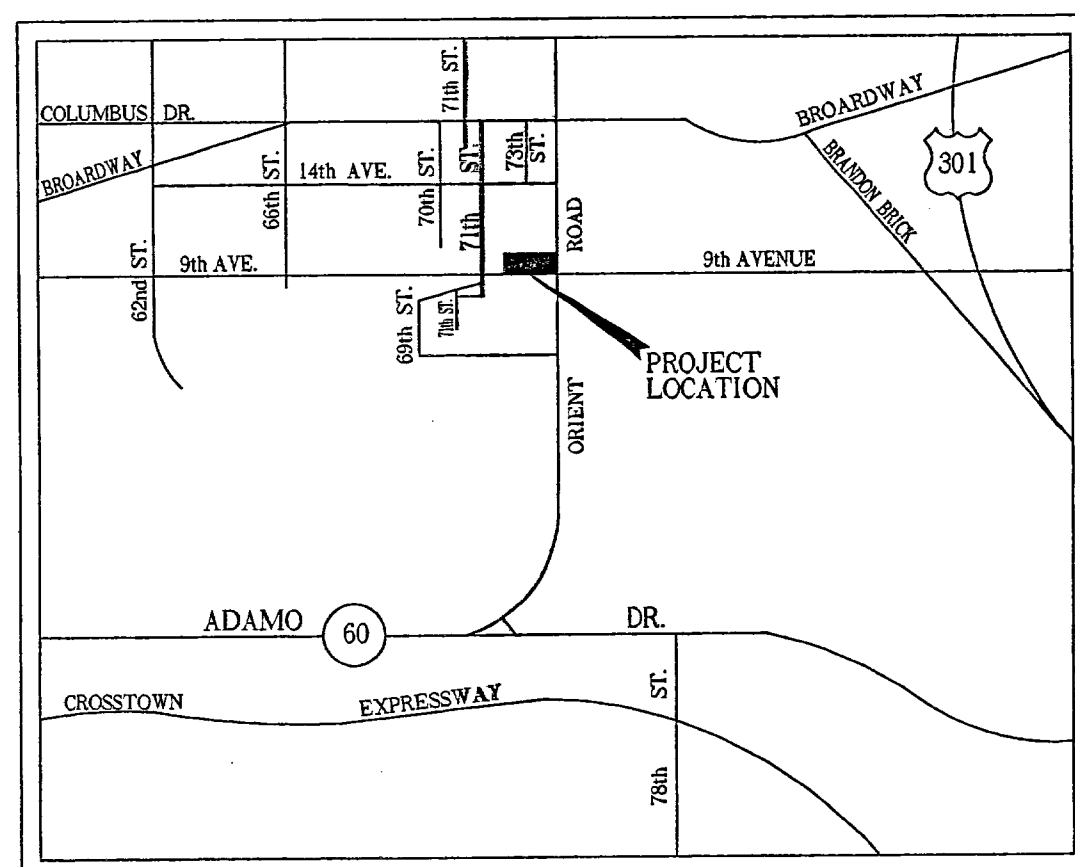


CHANGES FOR AS-BUILD

- ① SP-2 CHANGE TOP OF WALL ELEVATION TO 26.08
- ② A-1 CHANGE TOP OF GRATE ELEVATION TO 26.33
CHANGE INV. TO 25.36
- ③ A-3 CHANGE TOP OF WALL ELEVATION TO 26.08
MOVE VALVE & NOTE LOCATION AS SHOWN
- ④ A-6 ADD DETAIL 7/S-2
- ⑤ S-2 CHANGE TOP OF WALL ELEVATION TO 26.08
CHANGE WALL HEIGHTS AS SHOWN
CHANGE COATING NOTE AS SHOWN



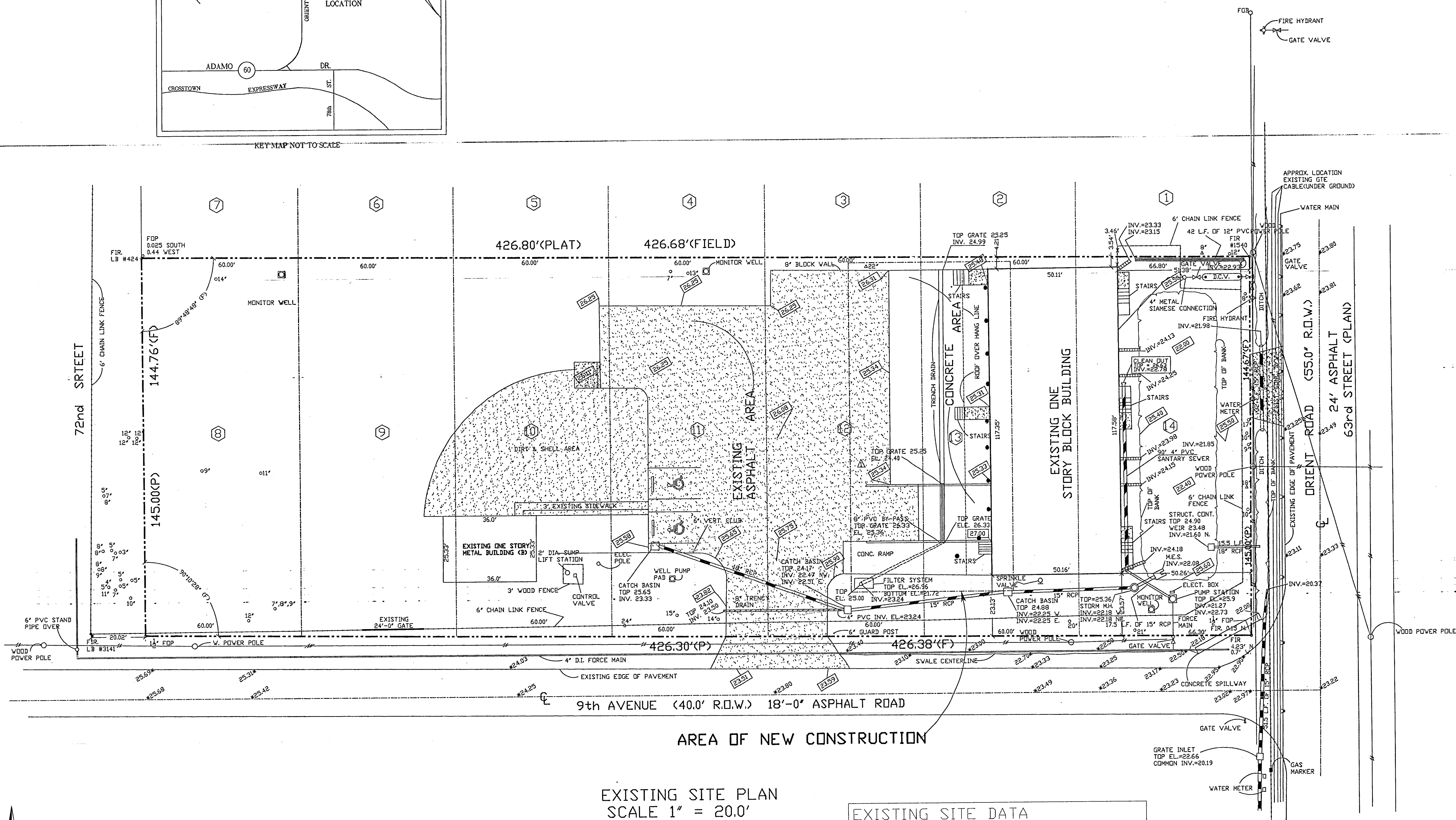
DATE	REVISION	BY	© 2001		 P.J. CALLAGHAN GENERAL CONTRACTORS 10525 49th ST. NO. CLEARWATER FL 34622 PH 573-2505 FAX 572-8077	DATE	12/5/01
1/24/03	1 AS-BUILD NOTE	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA 7202 EAST EIGHT AVENUE TAMPA, FLORIDA, 33619			DRAWN BY	RD
2			 S T A R B U I L D I N G S			FILE #	1727
3						PAGE NO	
4						SHEET NO.	COVER
5						 STATE OF FLORIDA ENGINEER	



KEY MAP NOT TO SCALE

LEGAL DESCRIPTION:

A SURVEY OF LOTS 8,9,10,11,12,13, AND 14, BLOCK 1, OF ORIENT PARK SUBDIVISION, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 11, PAGE 7, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.



AREA OF NEW CONSTRUCTION

EXISTING SITE PLAN
SCALE 1" = 20.0'

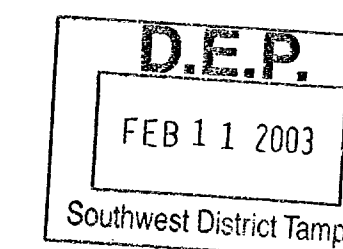
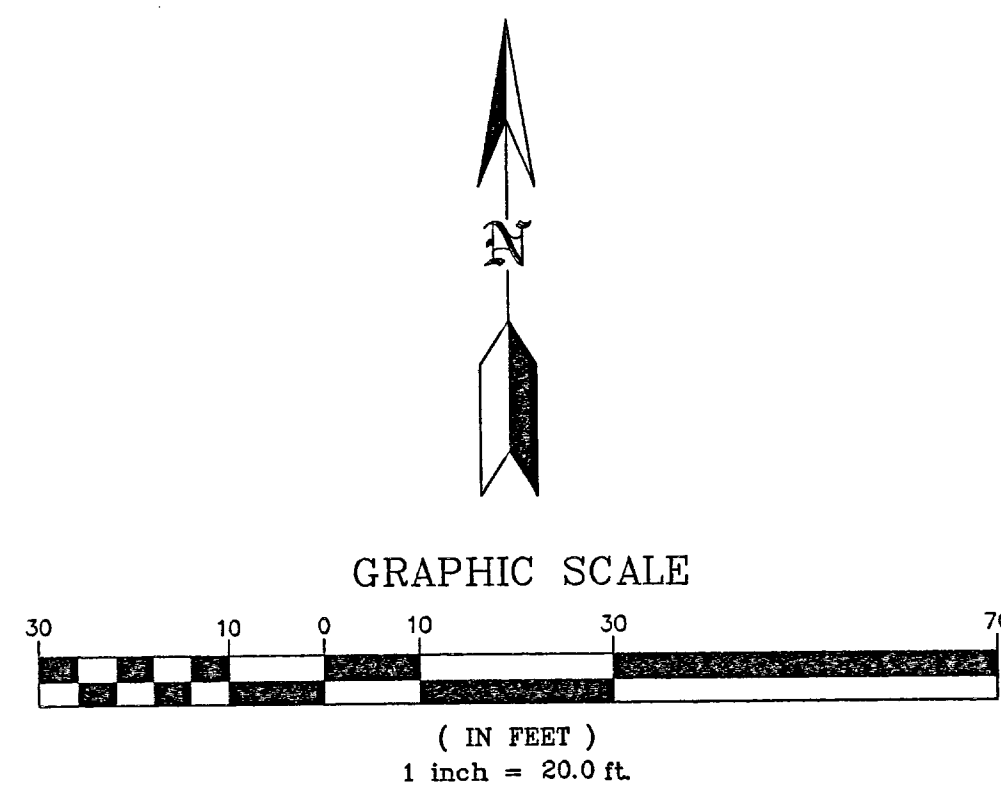
EXISTING SITE DATA

EXISTING BUILDING	6,798.0 SQ. FT. = 11 %
EXISTING ASPHALT	11,498.0 SQ. FT. = 19 %
EXISTING CONCRETE	4,829.0 SQ. FT. = 8 %
GREEN AREA	35,131.0 SQ. FT. = 56 %
DIRT & SHELL AREA	3,882.0 SQ. FT. = 6 %
TOTAL SITE	62,138.0 SQ. FT. = 100 %

GENERAL NOTE:

- 1)- ALL PALM TREE INDICATED BY: Δ 12"
- 2)- ALL OAK TREE INDICATED BY: \circ 14"
- 3)- ALL OVERHEAD WIRE INDICATED BY: $---$
- 4)- ALL WATER LINE INDICATED BY: $---$
- 5)- ALL GAS LINE INDICATED BY: $---$
- 6)- BENCH MARK: CITY OF TAMPA @ CUT SW. COR. CONC. WALK, 5' SOUTH CORNER CONCRETE BLOCK BUILDING AT NE. CORNER ORIENT ROAD AND EAST BROADWAY, ELEVATION = 28.94; MEAN SEA LEVEL = 0.00
- 7)- ALL GUARD POST INDICATED BY: \bullet
- 8)- ALL FINISH GRADES INDICATED BY: \square 25.00

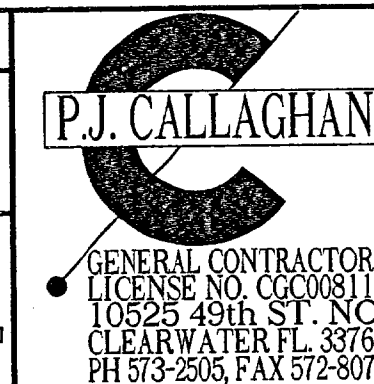
INFORMATION WAS UTILIZED IN THE PREPARATION OF THIS SITE PLAN WAS TAKEN FROM A SURVEY PREPARED BY EARL W. RAMER FLORIDA REG. LAND SURVEYOR NO.3618. AND I HEREBY GIVE CREDIT.



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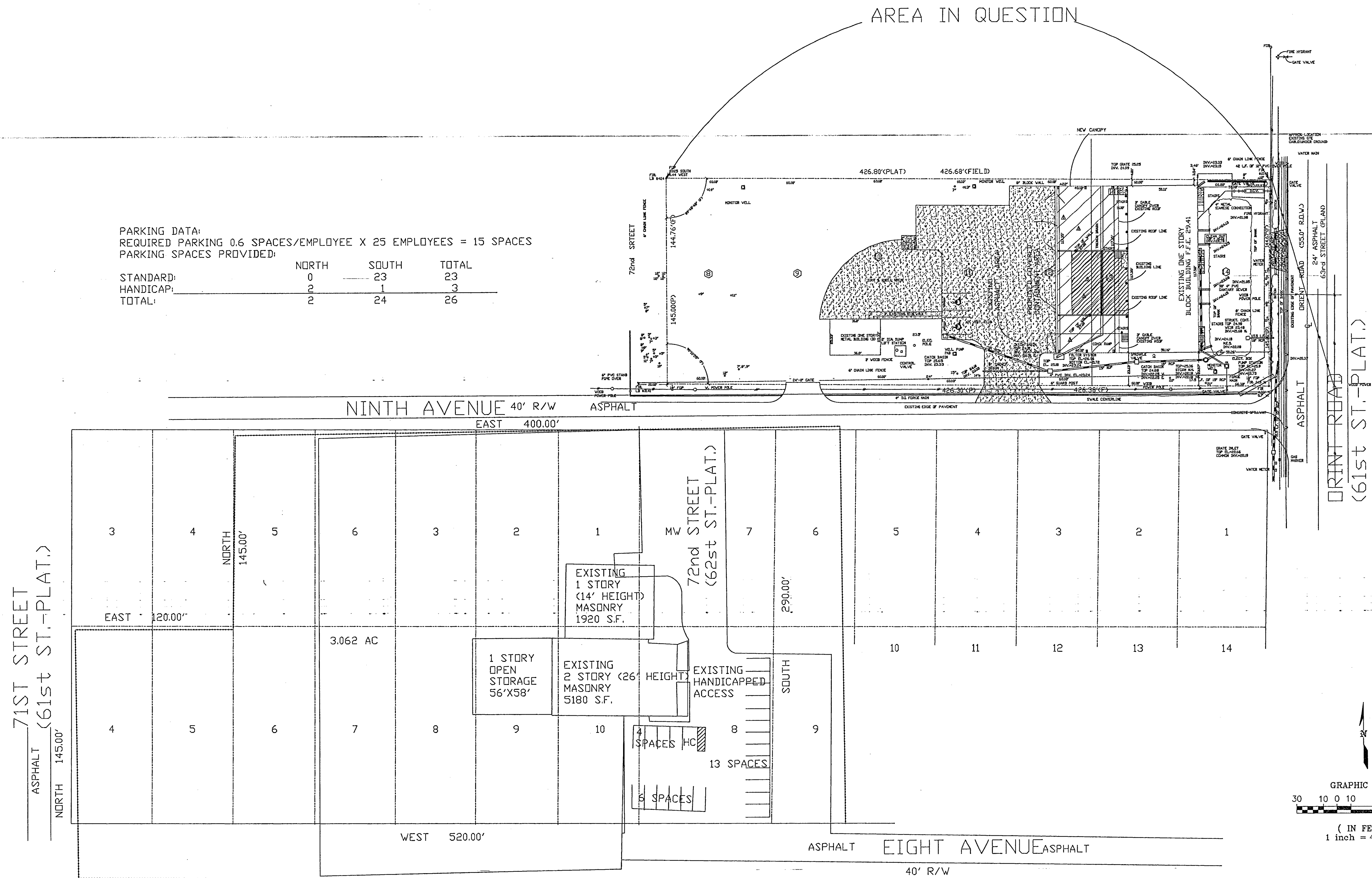
DATE	REVISION	BY	SCALE 1" = 20.0'	© 2001
1			CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	
2			7202 EAST EIGHT AVENUE	
3			TAMPA, FLORIDA, 33619	
4				
5				

DATE	12/5/01
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FILE #	1727
PAGE NO	1 OF 11
SHEET NO	SP-1



PARKING DATA:
 REQUIRED PARKING 0.6 SPACES/EMPLOYEE X 25 EMPLOYEES = 15 SPACES
 PARKING SPACES PROVIDED:

	NORTH	SOUTH	TOTAL
STANDARD:	0	23	23
HANDICAP:	2	1	3
TOTAL:	2	24	26



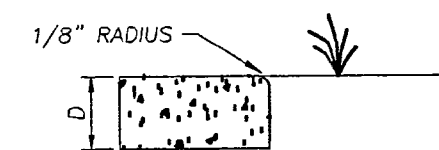
EXISTING ADJACENT SITE PLAN
 SCALE 1" = 40.0'

D.E.P.
 FEB 11 2003
 Southwest District Tampa

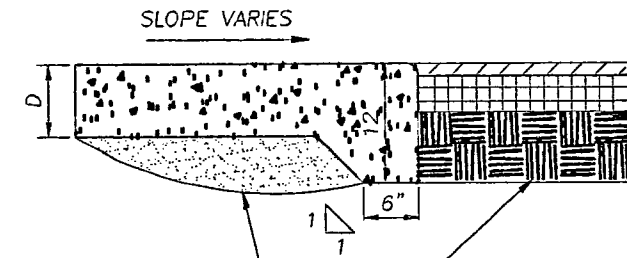
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 RCRA
 FEB 13 2003
 Hazardous Waste Regulation

DATE	REVISION	BY	SCALE 1" = 40.0'	© 2001	DATE
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2			7202 EAST EIGHT AVENUE		RD
3			TAMPA, FLORIDA, 33619		FILE #
4					1727
5					PAGE NO
					1.1 OF 11
					SHEET NO
					SP-1.1

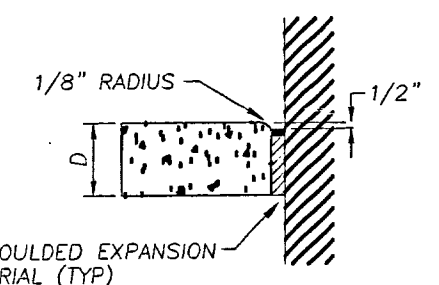
P.J. CALLAGHAN
 GENERAL CONTRACTORS
 LICENSE NO. CC008102
 10525 49th ST. NO
 CLEARWATER FL 34625
 PH 573-2005 FAX 572-8077



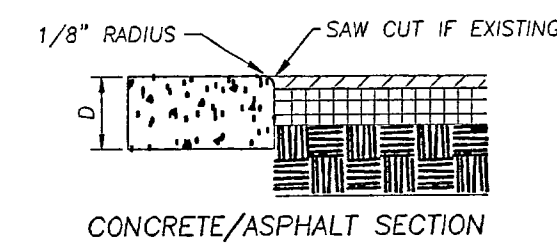
CONCRETE/GRASS SECTION



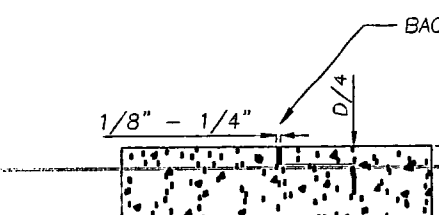
CONCRETE APRON EDGE SECTION



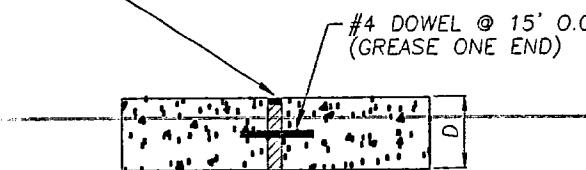
BUILDING/CONCRETE JOINT



CONCRETE/ASPHALT SECTION



TRANSVERSE CONTRACTION OR LONGITUDINAL JOINT (SAWED OR PRE-MOLDED).



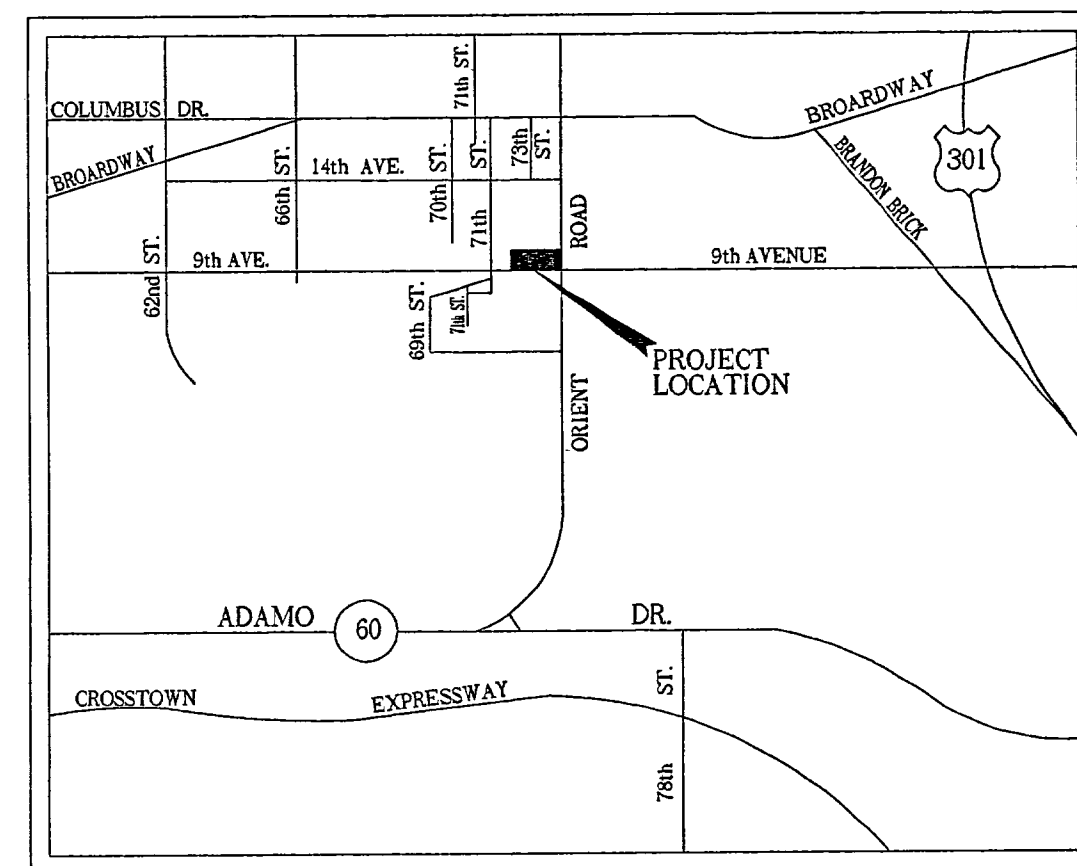
LONGITUDINAL EXPANSION JOINT (FOR CONC 7" THICK OR GREATER)

ALL CONCRETE PAVEMENT ON-SITE IS TO BE FIBERMESH REINFORCED. 8" THICK CONCRETE IN TRUCK TRAFFIC AREAS. MATERIAL AND CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH RECOMMENDED SPECIFICATIONS FOR NON-REINFORCED PORTLAND CEMENT CONCRETE PAVING BY THE PORTLAND CEMENT ASSOCIATION. JOINTS TO BE SPACED AT 18 FEET FOR 8 INCH THICK CONCRETE. JOINTS TO BE CONSTRUCTED AS SHOWN ABOVE.

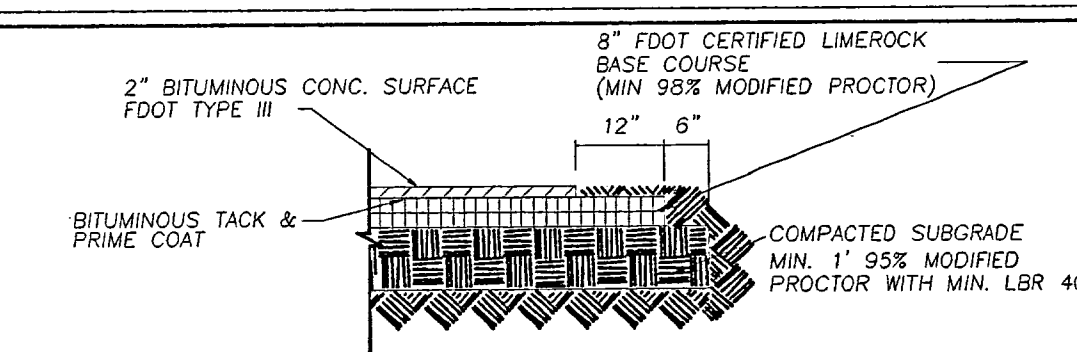
NO STEEL REINFORCEMENT IS REQUIRED FOR PAVEMENT AREAS PROVIDE FIBER REINFORCEMENT AT 3.0 LBS PER CUBIC YARD

CONCRETE PAVEMENT DETAILS

N.T.S.

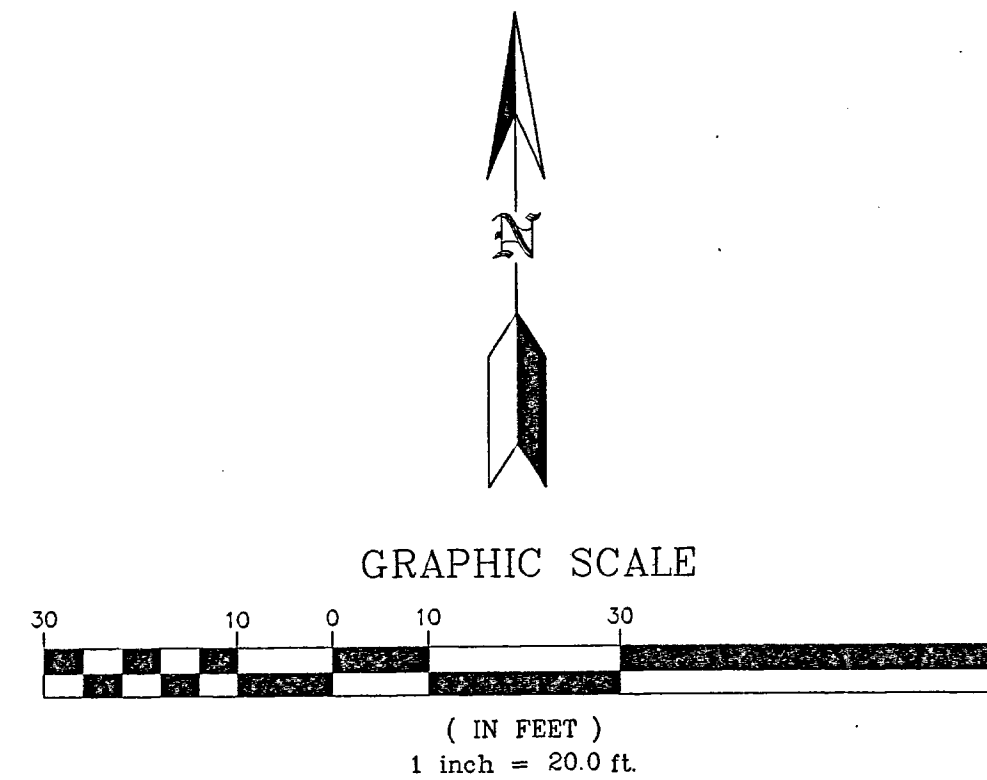


KEY MAP NOT TO SCALE



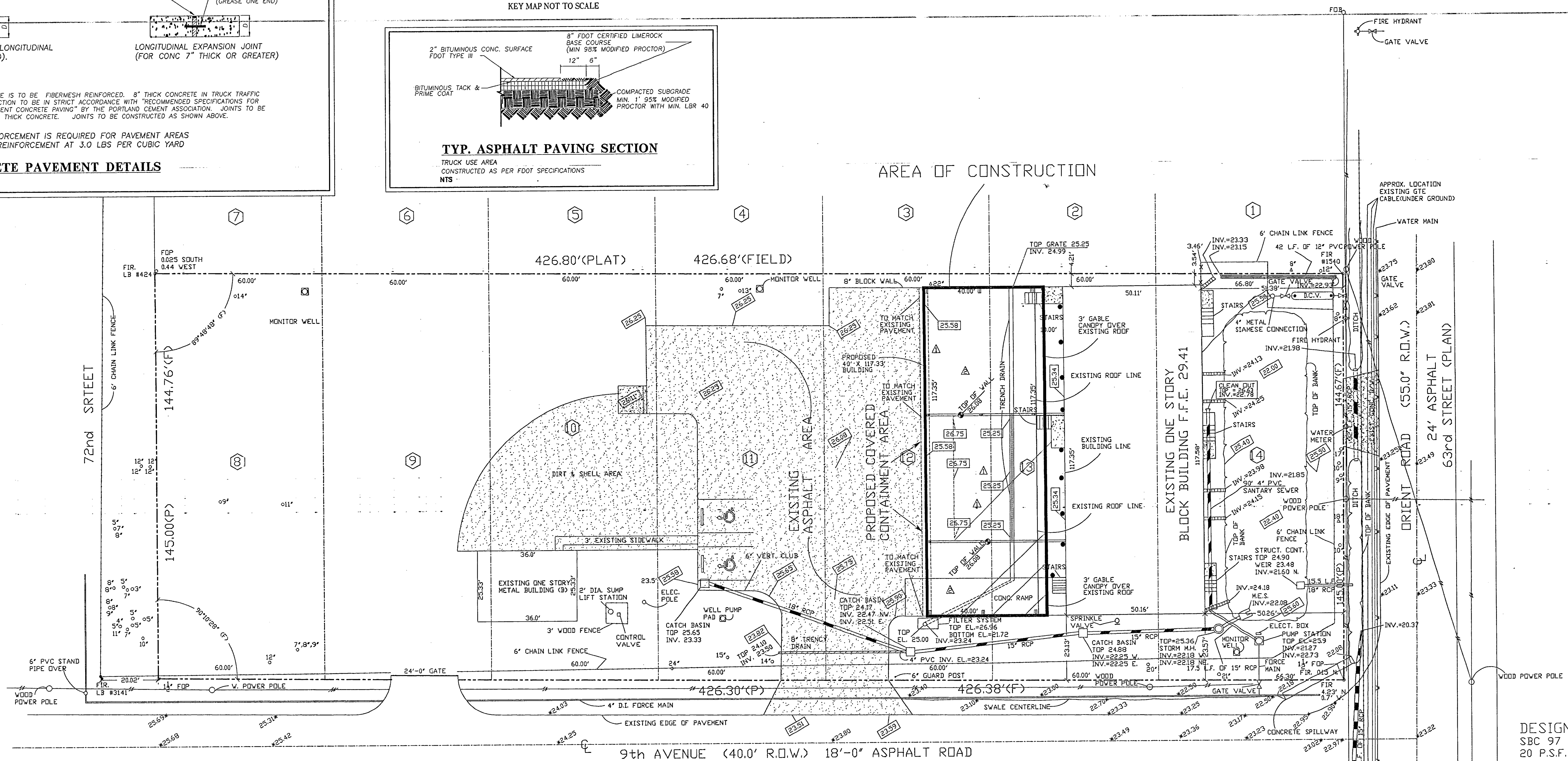
TYP. ASPHALT PAVING SECTION

TRUCK USE AREA
CONSTRUCTED AS PER FOOT SPECIFICATIONS
N.T.S.



MATERIALS STORED IN EXISTING BUILDING
CLASS 1, EXPLOSIVES (NOT ALLOWED)
CLASS 2, FLAMMABLE/POISON/NON-FLAMMABLE GASES
CLASS 3, FLAMMABLE/COMBUSTIBLE/FLU. OIL LIQUIDS
CLASS 4, FLAMMABLE/SPONTANEOUSLY COMBUSTIBLE
DANGEROUS WHEN WET SOLIDS
CLASS 5, OXIDIZER/ORGANIC PEROXIDE LIQUIDS AND SOLIDS
CLASS 6, POISON/TOXIC LIQUIDS AND SOLIDS
CLASS 7, BIOLOGICAL (NOT ALLOWED)
CLASS 8, RADIOLOGICAL (NOT ALLOWED)
CLASS 9, CORROSIVE LIQUID AND SOLIDS
CLASS 9, MISCELLANEOUS MATERIALS

H2 TYPE 4 CONSTRUCTION SPRINKLED
TABLE 500 MAX. ALLOWABLE
SQUARE FOOTAGE 5,000 SQ. FT.
1 1/2 HOUR EXISTING FIRE SEPARATION
ADJACENT TO PROPOSED BUILDING
OF 4,694 SQ. FT.



GENERAL NOTE:

- 1)- ALL PALM TREE INDICATED BY: Δ 12" O 14"
- 2)- ALL OAK TREE INDICATED BY: Δ 12" O 14"
- 3)- ALL OVERHEAD WIRE INDICATED BY: Δ 12" O 14"
- 4)- ALL WATER LINE INDICATED BY: Δ 12" O 14"
- 5)- ALL GAS LINE INDICATED BY: Δ 12" O 14"
- 6)- BENCH MARK: CITY OF TAMPA @ CUT SW. COR. CONC. WALK, 5' SOUTH CORNER CONCRETE BLOCK BUILDING AT NE. CORNER ORIENT ROAD AND EAST BROADWAY, ELEVATION = 28.94: MEAN SEA LEVEL = 0.00
- 7)- ALL GUARD POST INDICATED BY: Δ 12" O 14"
- 8)- EXISTING GRADES INDICATED BY: Δ 12" O 14"
- 9)- PROPOSED GRADES INDICATED BY: Δ 12" O 14"

LEGAL DESCRIPTION:

A SURVEY OF LOTS 8,9,10,11,12,13, AND 14, BLOCK 1, OF ORIENT PARK SUBDIVISION ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 11, PAGE 7, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.

SECTION 14, TOWNSHIP 29 SOUTH, RANGE 19 EAST

INFORMATION WAS UTILIZED IN THE PREPARATION OF THIS SITE PLAN WAS TAKEN FROM A SURVEY PREPARED BY EARL W. RAMER FLORIDA REG. LAND SURVEYOR NO.3618, AND I HEREBY GIVE CREDIT.

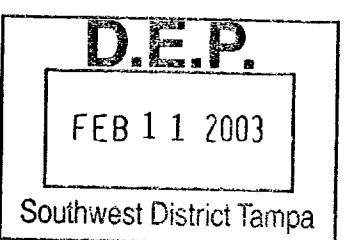
PROPOSED SITE PLAN COVERED CONTAINMENT AREA SCALE 1" = 20.0'

PROPOSED SITE DATA

EXISTING BUILDING	6,798.0 SQ. FT. = 11 %
EXISTING ASPHALT	9,950.0 SQ. FT. = 16 %
EXISTING CONCRETE	4,005.0 SQ. FT. = 7 %
PROPOSED CONCRETE	2,372.0 SQ. FT. = 4 %
GREEN AREA	35,131.0 SQ. FT. = 56 %
DIRT & SHELL AREA	3,882.0 SQ. FT. = 6 %
TOTAL SITE	62,138.0 SQ. FT. = 100 %

DATE	REVISION	BY	SCALE 1" = 20.0'	© 2001
1/24/03	1	AS-BUILD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	
	2		7202 EAST EIGHT AVENUE	
	3		TAMPA, FLORIDA, 33619	
	4			
	5			

DATE	12/5/01
DRAWN BY	RD
FILE #	1727
PAGE NO	2 OF 11
SHEET NO	SP-2

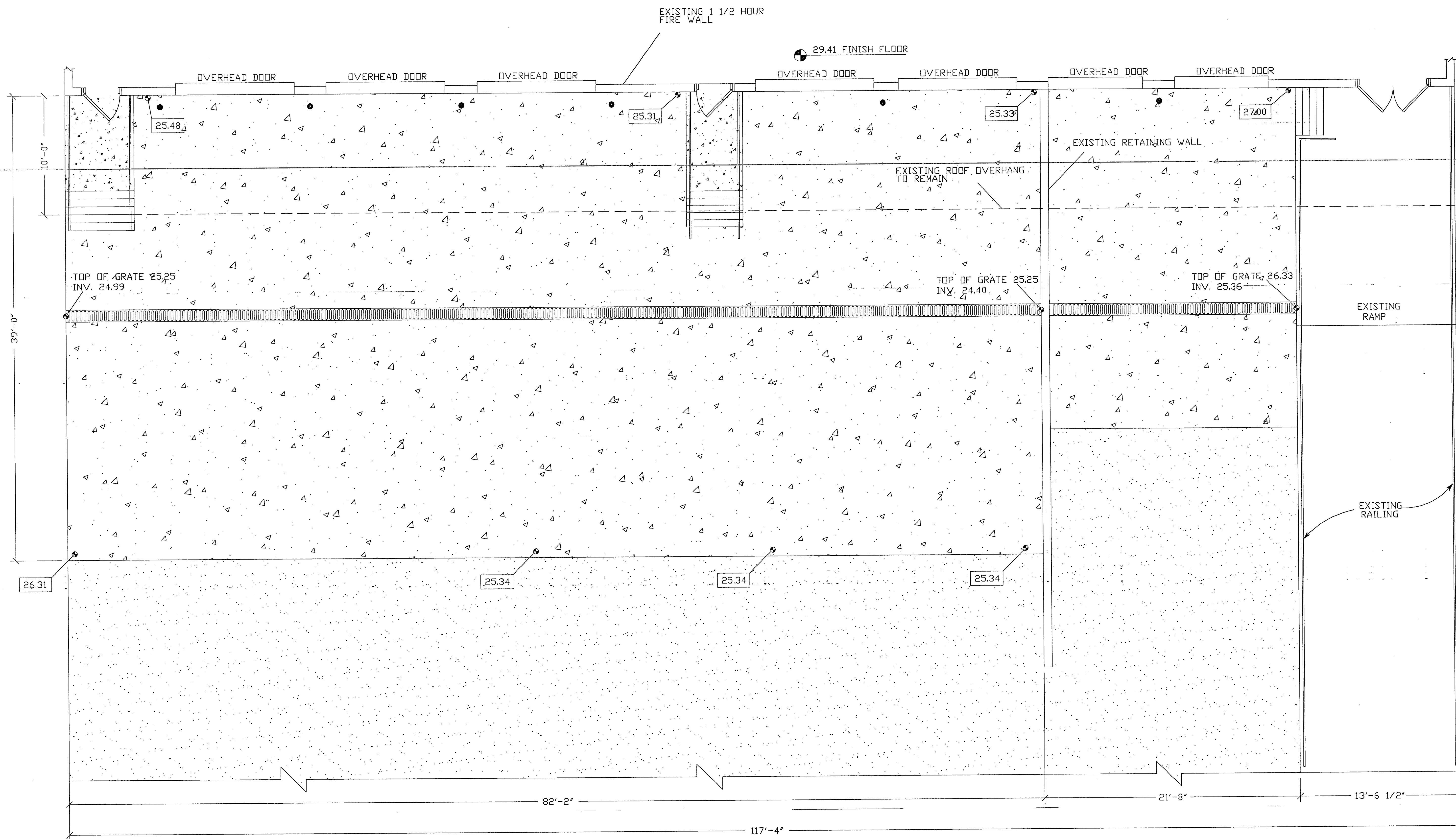


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DESIGN INFORMATION:
SBC 97
20 P.S.F. LIVE LOAD
100 MPH WIND LOAD
OCCUPANCY: GROUP H-2

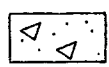

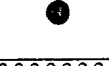

TYPE IV: UNPROTECTED SPRINKLERED

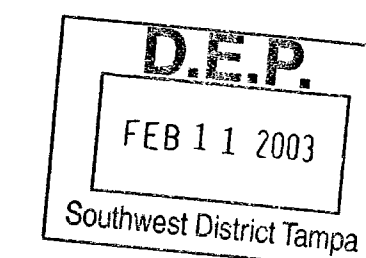
EXISTING OVERHEAD DOORS ARE A MIN. OF 1 1/2 HOUR FIRE DOORS
EXISTING 6'X7' + 3'X7' DOORS ARE A MIN. 1 1/2 HOUR FIRE DOORS



EXISTING LOADING DOCK FLOOR PLAN
SCALE 1/4" = 1'-0"

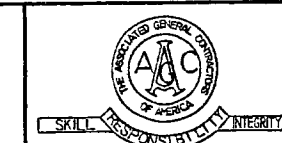
KEY

-  CONCRETE
-  ASPHALT
-  EXISTING PIPE BOLLARD
-  EXISTING TRENCH DRAIN

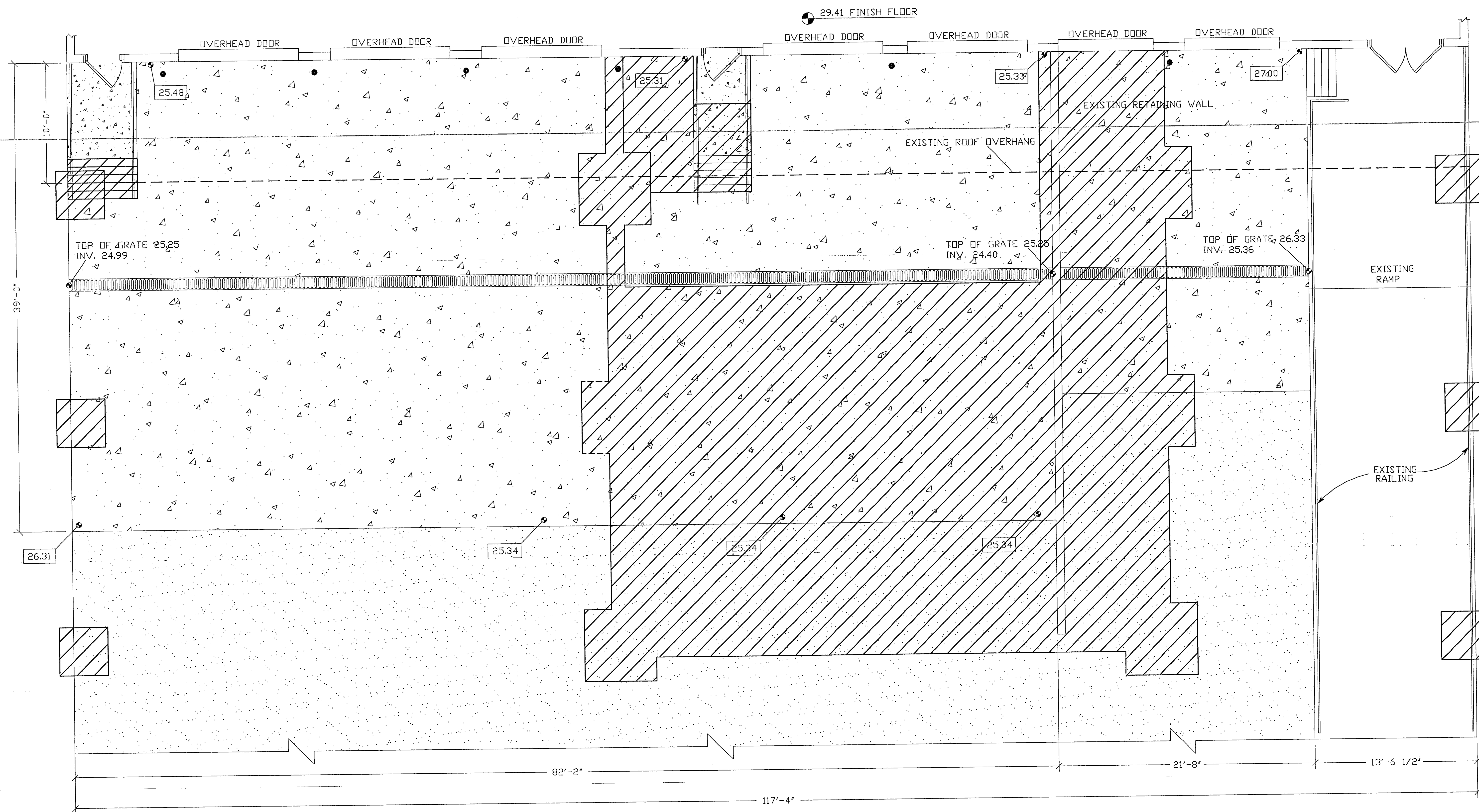


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Hazardous Waste Regulation

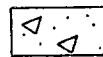
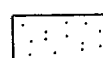

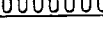
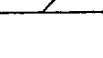
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	2		7202 EAST EIGHT AVENUE		DRAWN BY
	3		TAMPA, FLORIDA, 33619		RD
	4				FILE #
	5				1727
					PAGE NO
					3 OF 11
					SHEET NO
					A-1



P.J. CALLAGHAN
GENERAL CONTRACTORS
LICENSE NO. 0000812
10525 49th ST. NO.
CLEARWATER FL 33762
PH 573-2303, FAX 572-8077



KEY

-  CONCRETE
-  ASPHALT
-  EXISTING PIPE BOLLARD
-  EXISTING TRENCH DRAIN
-  AREAS OF DEMOLITION

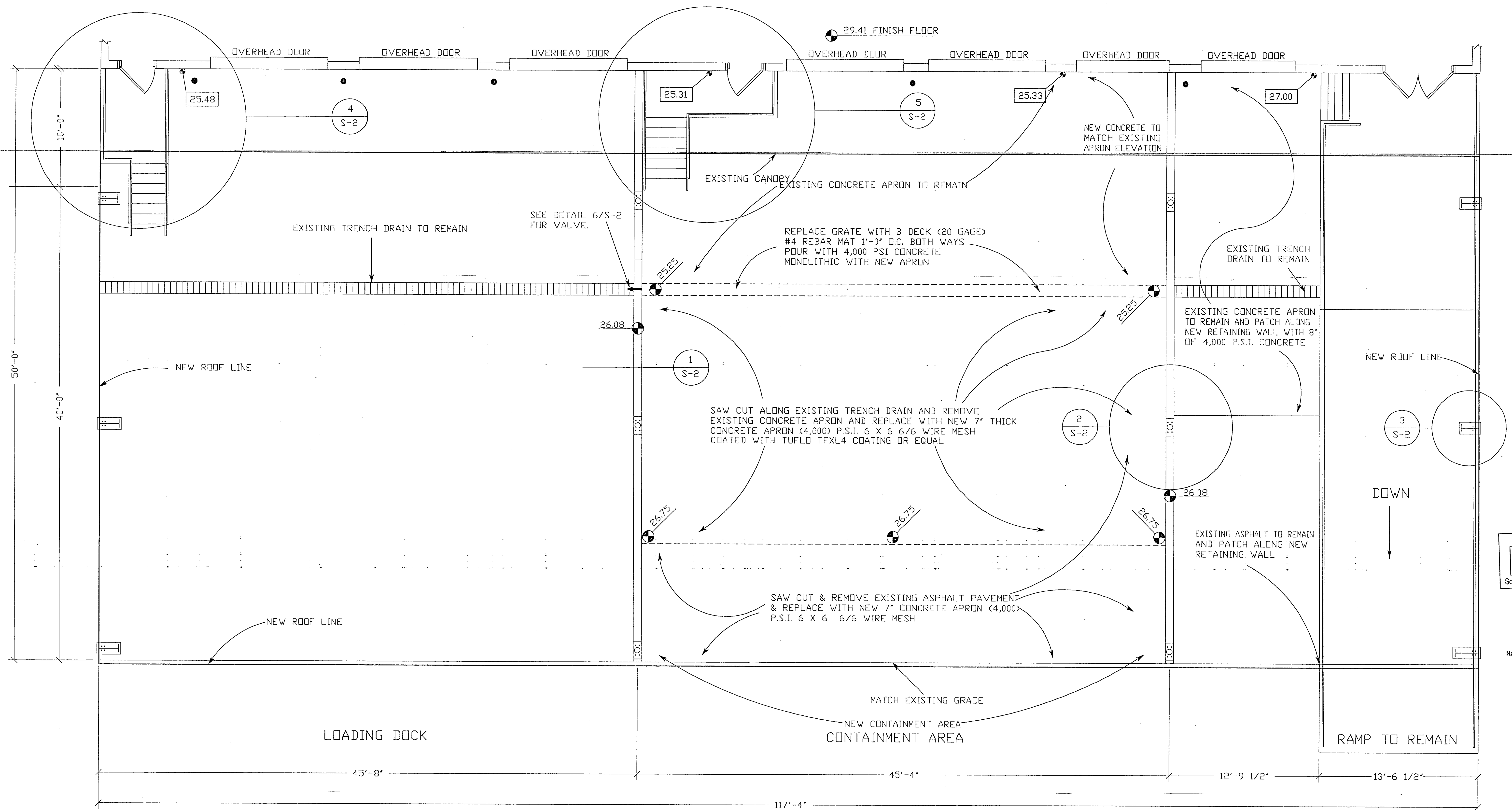
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	2			7202 EAST EIGHT AVENUE	DRAWN BY
	3			TAMPA, FLORIDA, 33619	RD
	4				FILE #
	5				1727
					PAGE NO
					4 OF 11
					SHEET NO
					A-2

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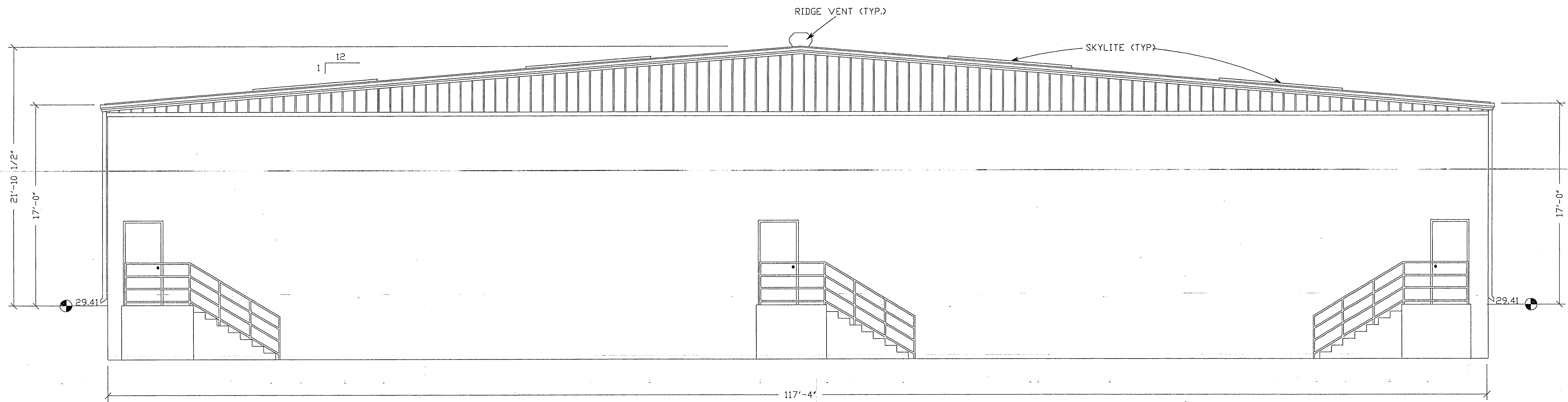
P.J. CALLAGHAN
GENERAL CONTRACTORS
LICENSE NO. CC-008112
10925 49th ST. NO.
CLEARWATER, FL 33762
PH 573-2506, FAX 572-8077



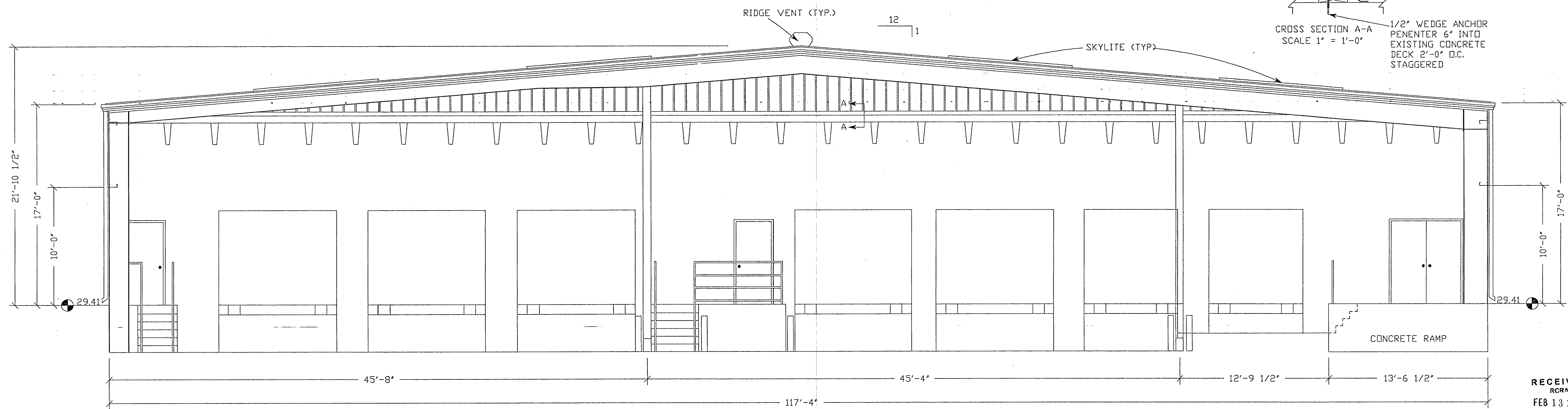
NOTE:
NEW CANOPY TO BE FIRE SPRINKLED IN
ACCORDANCE WITH NFPA & LOCAL CODES.
CONTAMINANT AREA FLOOR & WALLS TO BE
COATED WITH TUFLO TFXL4 COATING

PROPOSED CONTAINMENT AREA & LOADING DOCK FLOOR PLAN
SCALE 1/4" = 1'-0"

DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001	DATE
1/24/03	1	AS-BUILD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	RD	12/5/01
	2		7202 EAST EIGHT AVENUE		
	3		TAMPA, FLORIDA, 33619		
	4				
	5				



EAST ELEVATION
SCALE 1/4" = 1'-0"



WEST ELEVATION
SCALE 1/4" = 1'-0"

3 EACH 2" X 8" PT
GLUED & NAILED WITH
8D GALVANIZED
1'-4" O.C. STAGGERED

BASE ANGLE & BASE TRIM BY
PRE ENGINEERED METAL BUILDING
MANUFACTURE

ROOF TO TIE INTO EXISTING
BUILD UP ROOF BY
LICENSED ROOFING CONTRACTOR

CROSS SECTION A-A
SCALE 1" = 1'-0"

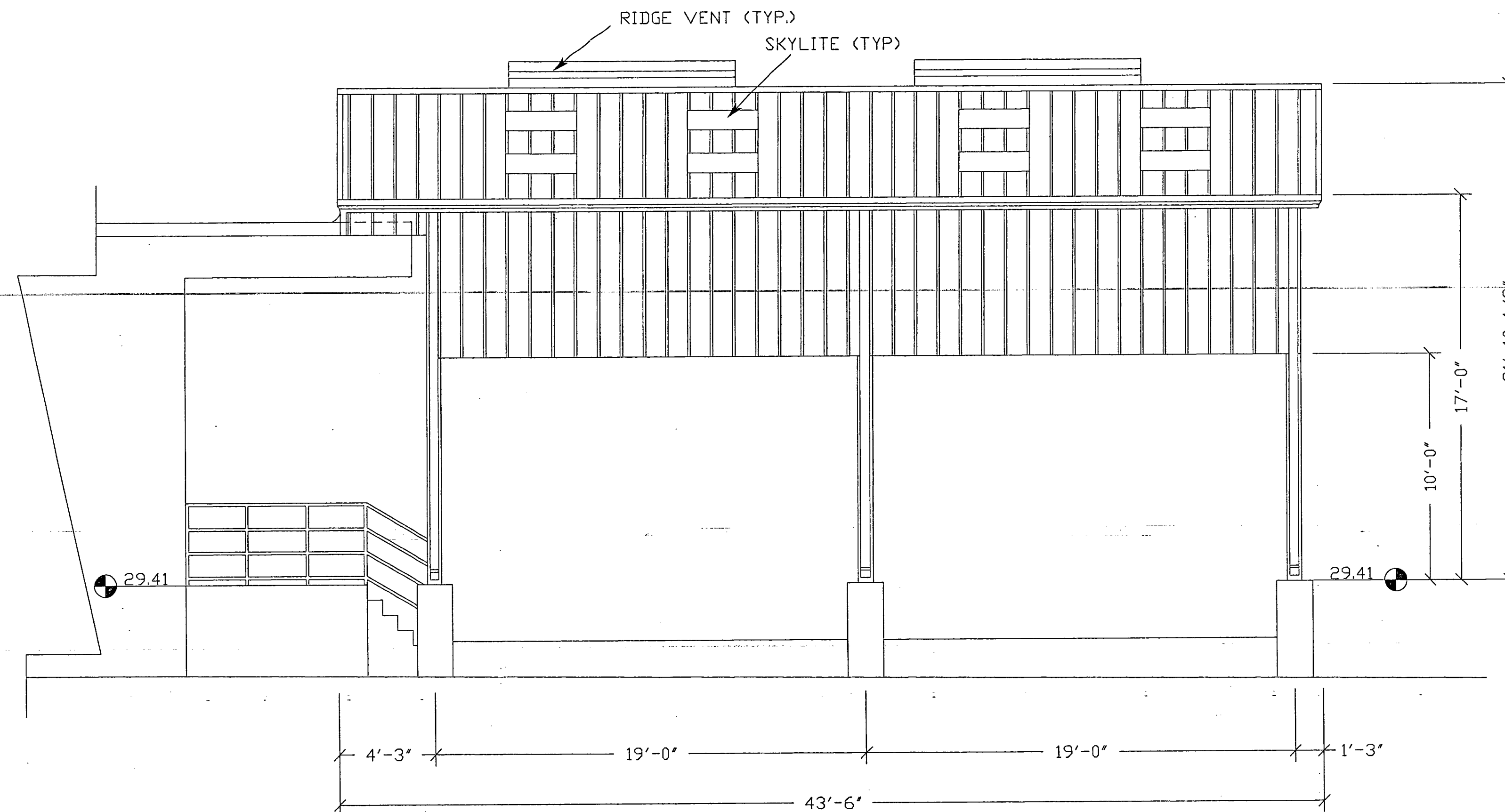
1/2" WEDGE ANCHOR
PENETRATOR 6" INTO
EXISTING CONCRETE
DECK 2'-0" O.C.
STAGGERED

RECEIVED
RCRA
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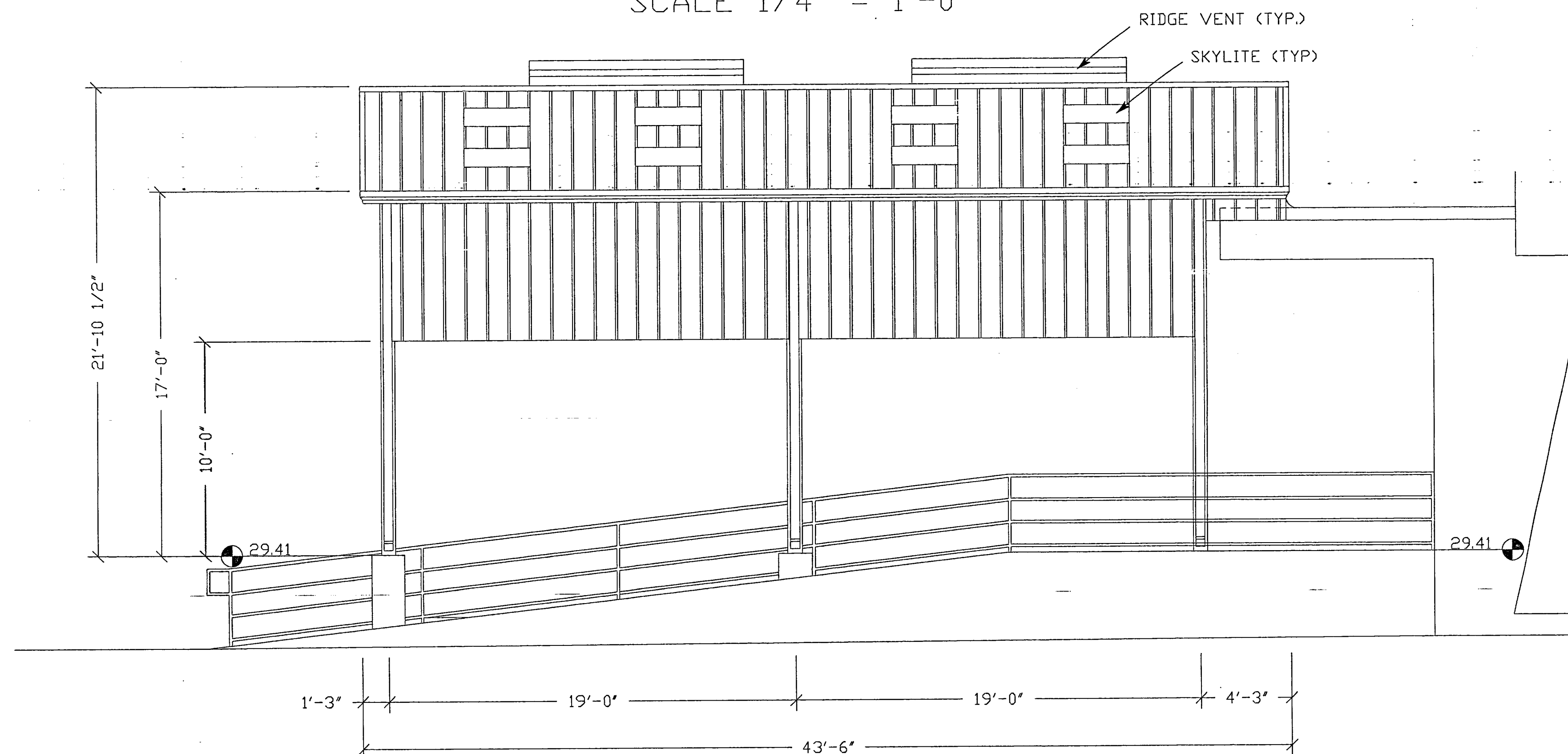
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	2			7202 EAST EIGHT AVENUE			
	3			TAMPA, FLORIDA, 33619			
	4						
	5						



P.J. CALLAGHAN
GENERAL CONTRACTORS
LICENSE NO. CC008812
10525 49th ST. NO
CLEARWATER FL 33762
PH 573-2503, FAX 572-5017



NORTH ELEVATION
SCALE 1/4" = 1'-0"



SOUTH ELEVATION
SCALE 1/4" = 1'-0"

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Southwest District Tampa

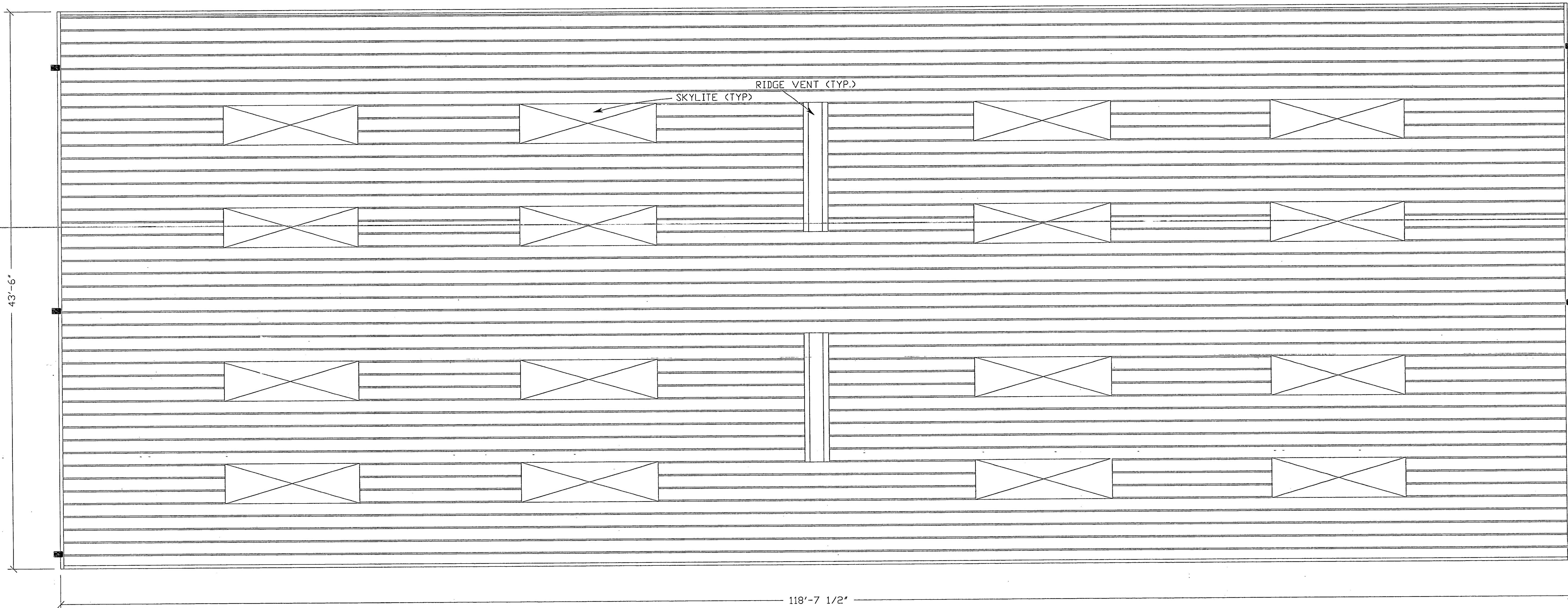
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RCRA
FEB 13 2003
Hazardous Waste Regulation

DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001
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	2		7202 EAST EIGHT AVENUE	
	3		TAMPA, FLORIDA, 33619	
	4			
	5			

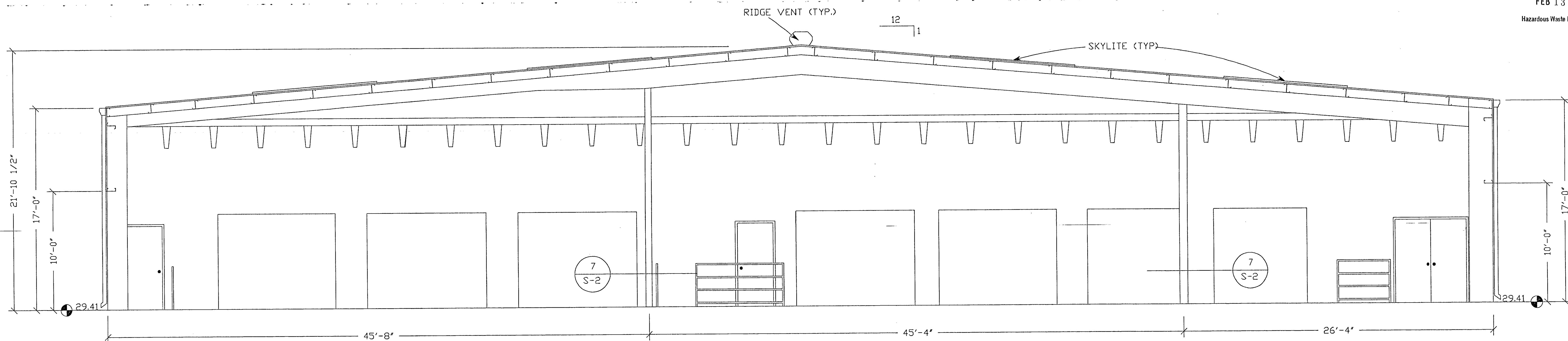


P.J. CALLAGHAN
GENERAL CONTRACTORS
LICENSE NO. CC008102
10525 49th ST. NO.
CLEARWATER, FL 34622
PH 573-2505, FAX 572-8077

DATE 12/3/01
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FILE # 1727
PAGE NO 7 OF 11
SHEET NO A-5



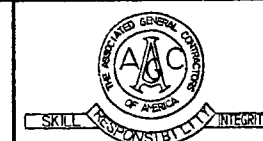
ROOF PANEL PLAN
SCALE 1/4" = 1'-0"



WALL SECTION
SCALE 1/4" = 1'-0"

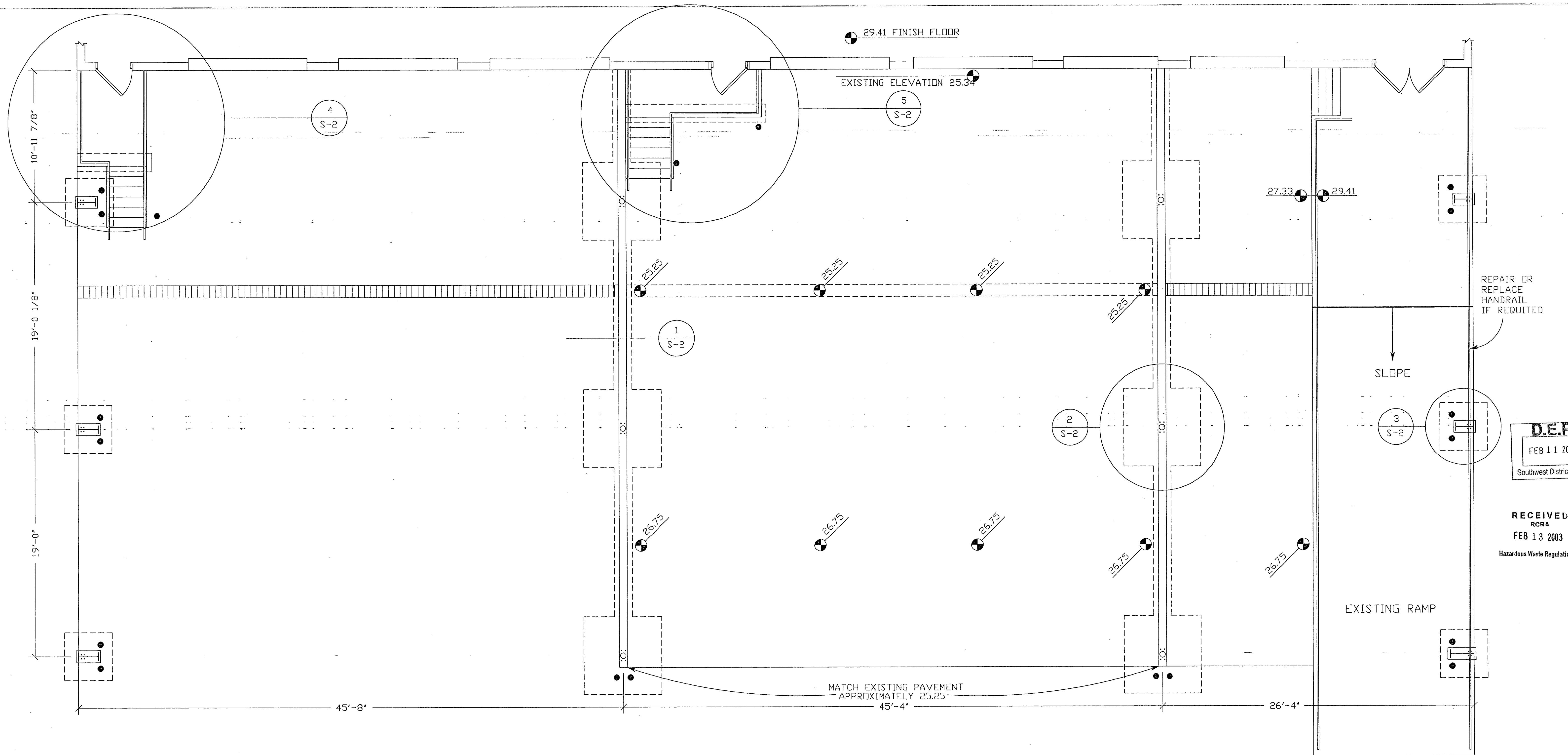
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RORA
FEB 13 2003
Hazardous Waste Regulation

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	2			7202 EAST EIGHT AVENUE
	3			TAMPA, FLORIDA, 33619
	4			
	5			



P.J. CALLAGHAN
GENERAL CONTRACTORS
LICENSE NO. 00008102
10525 49th ST. NO
CLEARWATER FL 33762
PH 573-2505, FAX 572-8077

DATE 12/3/01
DRAWN BY RD
FILE # 1727
PAGE NO 8 OF 11
SHEET NO A-6



CONTAINMENT AREA FOUNDATION PLAN

SCALE 1/4" = 1'-0"

- NEW 6" BOLLARDS
CONCRETE FILLED 48"
FINISH ELEVATION 36"
EMBEDDED

DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001
1/24/03	1	AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA
	2			7202 EAST EIGHT AVENUE
	3			TAMPA, FLORIDA, 33619
	4			
	5			

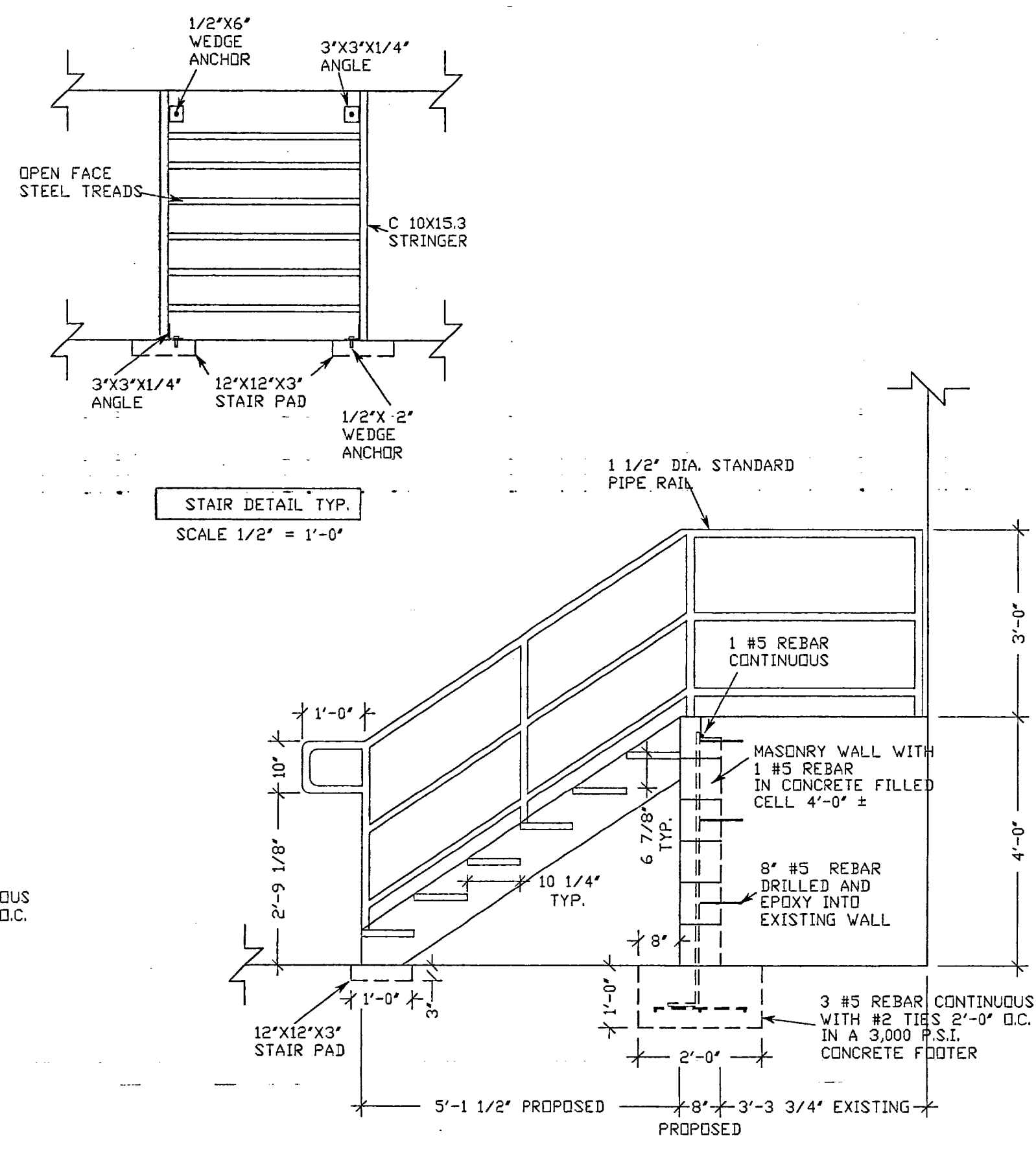
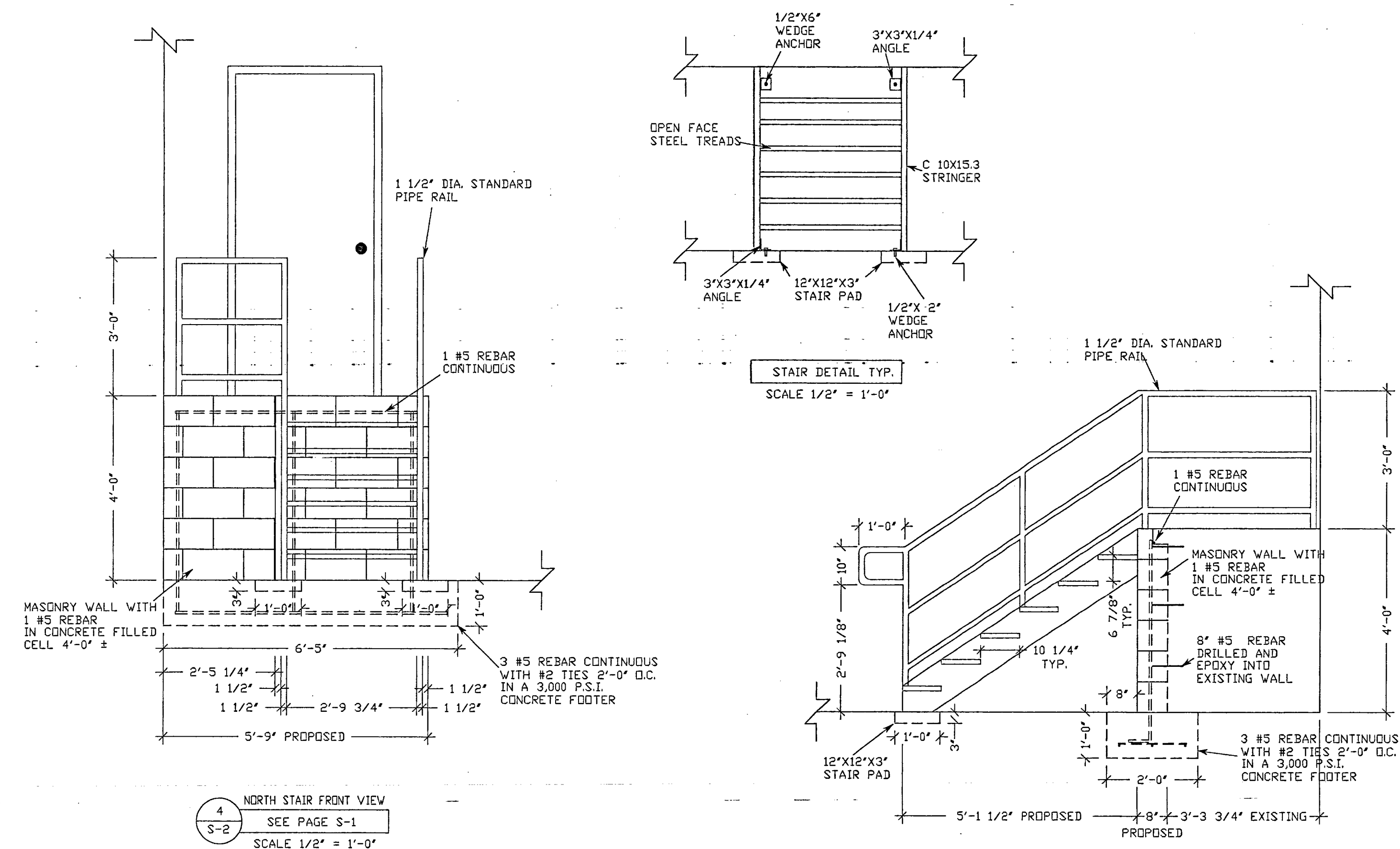
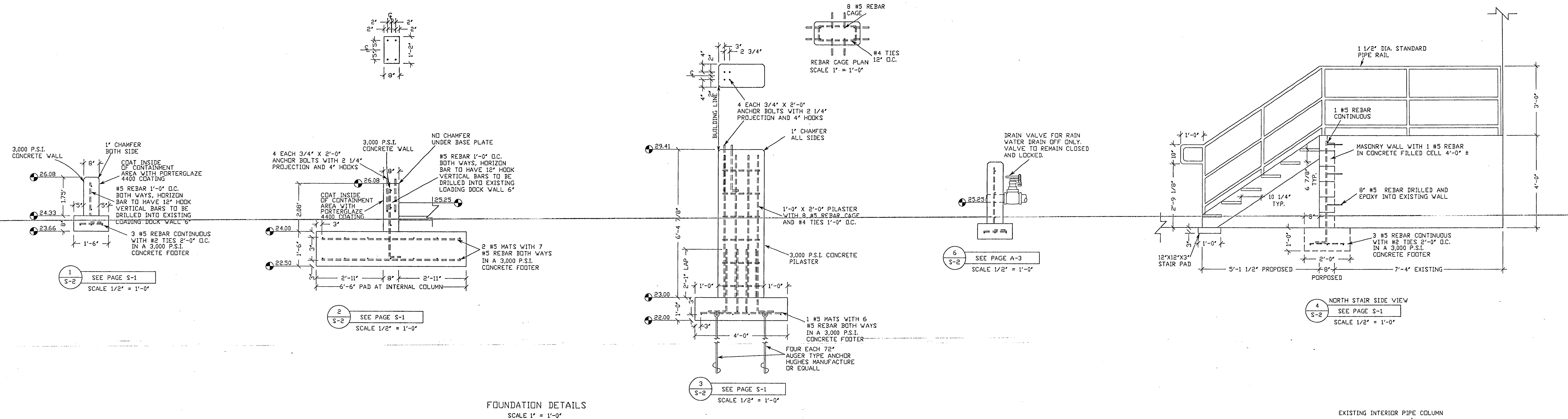


P.J. CALLAGHAN
GENERAL CONTRACTORS
LICENSE NO. CC000812
10525 49th ST, NO
CLEARWATER, FL 33762
PH 573-2505, FAX 572-8077

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FEB 11 2003
Southwest District

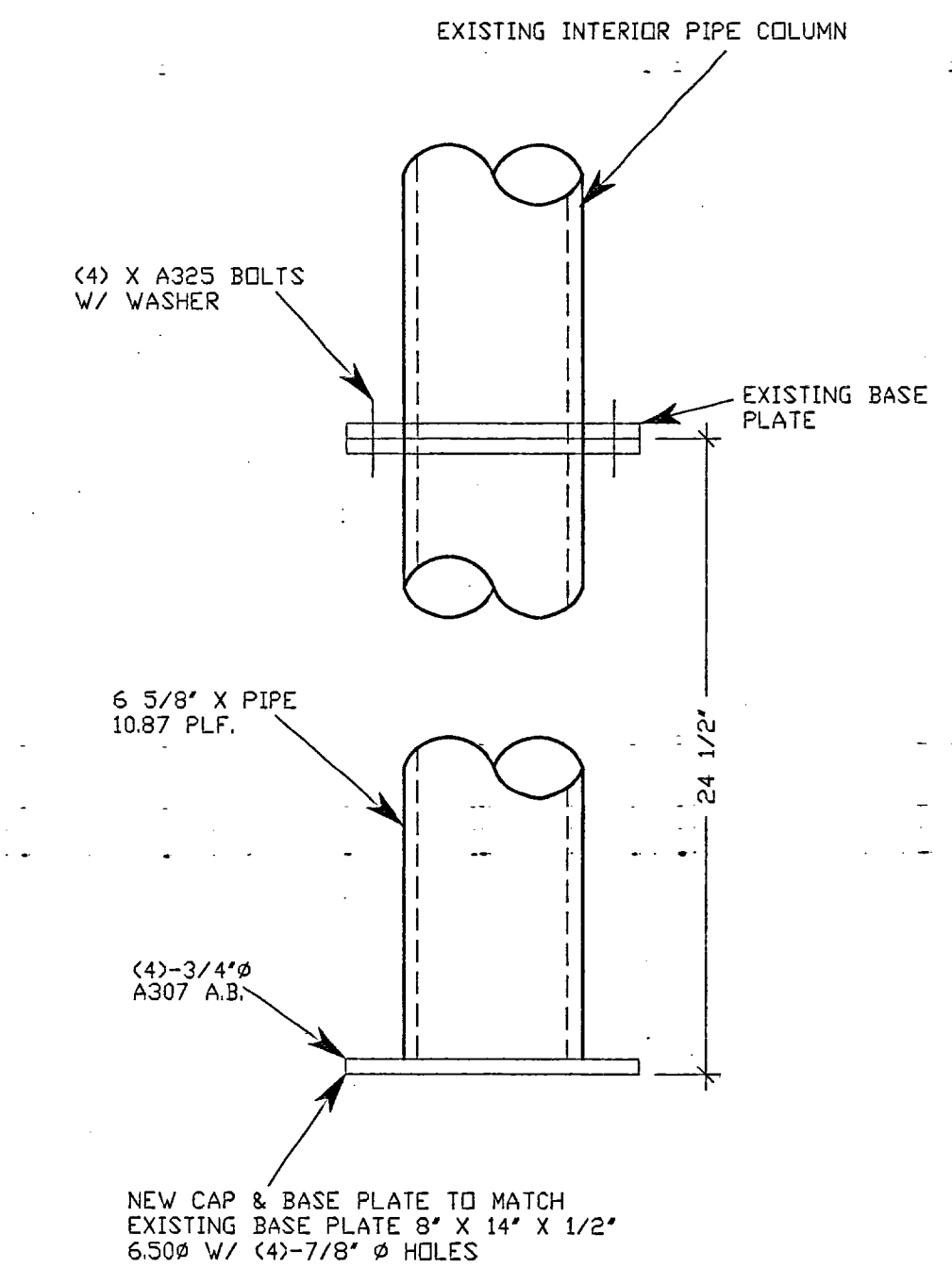
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RCRA
FEB 13 2003
Hazardous Waste Regulation

DATE 12/5/01
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FILE # 1727
PAGE NO 9 OF 11
SHEET NO S-1



5 MIDDLE STAIR SIDE VIEW
SEE PAGE S-1
SCALE 1/2" = 1'-0"

STAIR DETAILS
SCALE 1/2" = 1'-0"



DATE	REVISION	BY	SCALE 1/2" = 1'-0"	© 2001
1/24/03	1 AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	
	2		7202 EAST EIGHT AVENUE	
	3		TAMPA, FLORIDA, 33619	
	4			
	5			

BUILDINGS

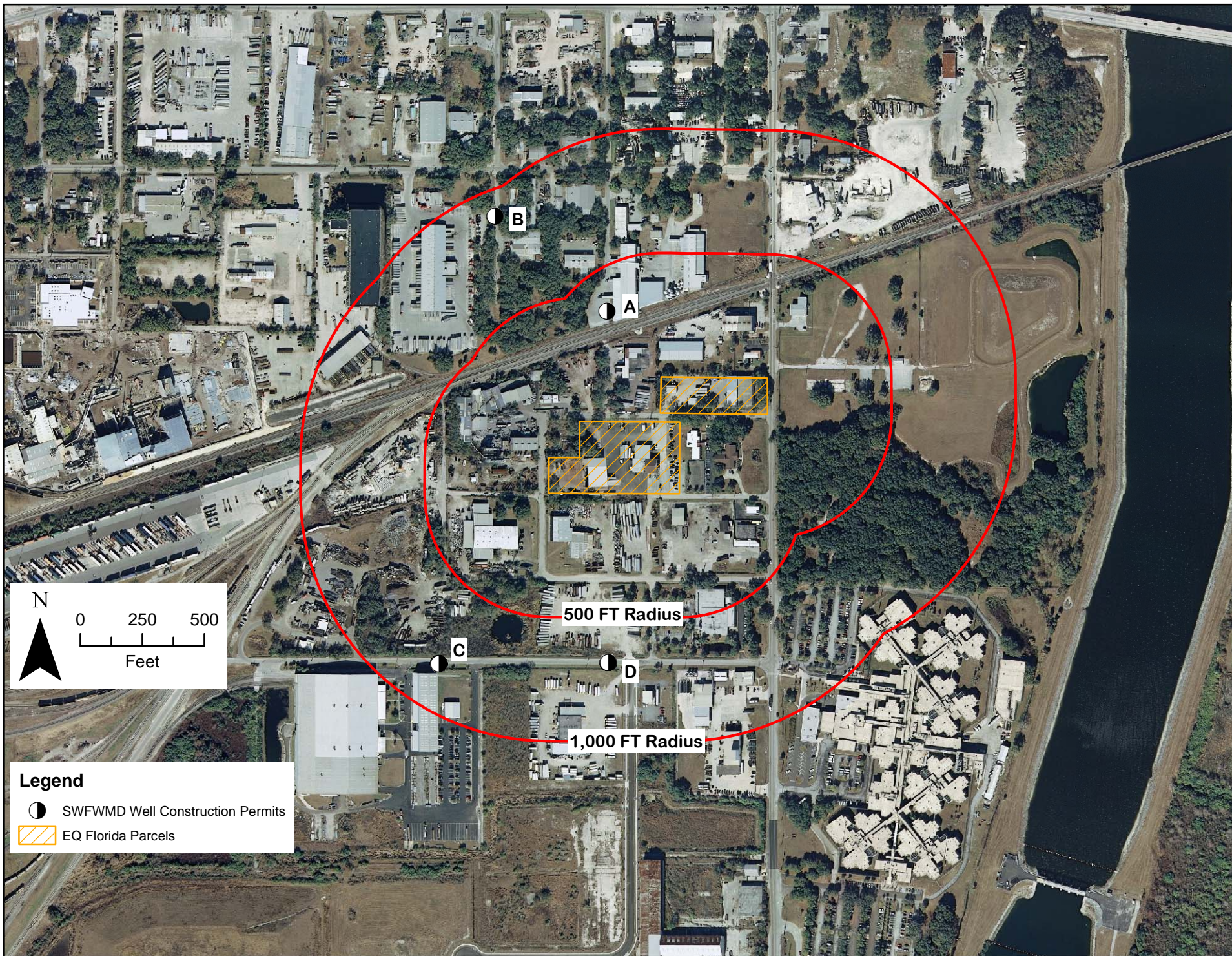
GENERAL CONTRACTORS
10525 49TH ST. NO. 3762
CLEARWATER, FL 34622
PH 573-2505, FAX 572-8077

DATE: 12/5/01
DRAWN BY: RD
FILE # 1727
PAGE NO: 10 OF 11
SHEET NO: S-2

APPENDIX E

SWFWMD Well Inventory

WCP_PERMIT	DIAMETER	CASING	DEPTH	OWNERNAME	ADDRESS	LATITUDE	LONGITUDE	SECTION	TOWNSHIP	RANGE	LABEL
687154	4	300	440	Alaric	2110 NORTH 71ST STREET	27 57 48.29	82 22 30.25	14	29	19	A
362857	4	67	102	Osborne, Marie	3505 72ND ST	27 57 52.06	82 22 35.29	14	29	19	B
368283	4	80	143	Woodham, T. C.	2002 65TH ST	27 57 34.17	82 22 37.75	14	29	19	C
377412	4	99	180	Central Fla. Landscaping	6109 ORIENT ROAD	27 57 34.17	82 22 37.75	14	29	19	C
382788	10	38	150	A L Welding Products	1502 ORIENT RD	27 57 34.17	82 22 37.75	14	29	19	C
399419	4	80	80	Drury, O.D.	7220 E 29 AVE	27 57 34.17	82 22 37.75	14	29	19	C
466446	5	115	303	Joseph, David	BOX 11906	27 57 34.17	82 22 37.75	14	29	19	C
466256	3	21	23	All State Homes	11300 N CENTRAL AVE	27 57 34.17	82 22 37.75	14	29	19	C
467955	4	50	57	Levant, Lee	6912 E. 9TH AVE.	27 57 34.17	82 22 37.75	14	29	19	C
471877	4	0	90	David Joseph Company	1002 ORIENT ROAD	27 57 34.17	82 22 37.75	14	29	19	C
473948	4	479	479	Southwest Fla Water Mgt District, Attn: Brandt Henningsen	2379 BROAD ST	27 57 34.17	82 22 37.75	14	29	19	C
477406	8	120	200	Hillsborough County Solid Waste Dept	601 E KENNEDY BLVD 23RD FLOOR	27 57 34.17	82 22 37.75	14	29	19	C
483237	4	80	200	Universal Waste Inc.	2002 N. ORIENT RD.	27 57 34.17	82 22 37.75	14	29	19	C
481208	4	29	29	N.U.S. Corporation	1300 N. 17TH ST. STE. 1320	27 57 34.17	82 22 37.75	14	29	19	C
481209	4	40	40	N.U.S. Corporation	1300 N. 17TH ST. STE. 1320	27 57 34.17	82 22 37.75	14	29	19	C
490957	4	130	202	Florida Mega-Mix Inc	1902 NORTH 69TH STREET	27 57 34.17	82 22 37.75	14	29	19	C
492047	4	40	50	Gulf Coast Lead Co	10901 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
492048	4	40	50	Gulf Coast Lead Co	10901 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
492049	4	40	50	Gulf Coast Lead Co	10901 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
492050	4	40	50	Gulf Coast Lead Co	10901 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
502430	4	34	44	Stauffer Chemical Co	2009 ORIENT RD	27 57 34.17	82 22 37.75	14	29	19	C
502431	4	28	38	Stauffer Chemical Co	2009 ORIENT RD	27 57 34.17	82 22 37.75	14	29	19	C
502432	4	50	60	Stauffer Chemical Co	2009 ORIENT RD	27 57 34.17	82 22 37.75	14	29	19	C
502433	4	45	55	Stauffer Chemical Co	2009 ORIENT RD	27 57 34.17	82 22 37.75	14	29	19	C
502434	4	32	42	Stauffer Chemical Co	2009 ORIENT RD	27 57 34.17	82 22 37.75	14	29	19	C
502435	4	28	38	Stauffer Chemical Co	2009 ORIENT RD	27 57 34.17	82 22 37.75	14	29	19	C
622364	4	35	110	Bay Cities Gas Corp	1902 63RD STREET, TAMPA	27 57 34.17	82 22 37.75	14	29	19	C
305163	6	50	305	Stauffer Chemical Co	2009 ORIENT RD	27 57 34.17	82 22 37.75	14	29	19	C
305886	10	65	498	Seaboard Coastline	GENERAL DELIVERY	27 57 34.17	82 22 37.75	14	29	19	C
310940	3	41	55	Bivan Sls	4406 WISCONSIN	27 57 34.17	82 22 37.75	14	29	19	C
667886	4	84	185	Southwestern Suppliers	1906 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
316339	3	91	105	C Cooper	1410 21ST AVE.	27 57 34.17	82 22 37.75	14	29	19	C
317824	4	50	97	Singleton, Charles	3201 3RD AVE.	27 57 34.17	82 22 37.75	14	29	19	C
318215	4	34	86	Hackett, C.A.	1800 ORIENT ROAD	27 57 34.17	82 22 37.75	14	29	19	C
316870	4	83	160	Fla Steel C	NO ADDRESS	27 57 34.17	82 22 37.75	14	29	19	C
317346	4	40	108	Florida Material Handling	4314 EAST 7TH AVE.	27 57 34.17	82 22 37.75	14	29	19	C
324981	4	66	105	Gulf Coast Recycling	1901 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
331140	4	69	220	Chapman Com	NO ADDRESS	27 57 34.17	82 22 37.75	14	29	19	C
339486	4	116	313	D Joseph Co	NO ADDRESS	27 57 34.17	82 22 37.75	14	29	19	C
361296	4	31	54	Meening, Mr.	2806 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
361279	4	39	60	Gulf Coast Lead Co	10901 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
361280	4	39	70	Gulf Coast Lead Co	10901 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
361281	4	34	60	Gulf Coast Lead Co	10901 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
362971	6	50	197	Cook Lumber Co Inc.	1905 N 66TH ST	27 57 34.17	82 22 37.75	14	29	19	C
593608	4	14	35	Ameri Steel	7105 E 6TH AVE	27 57 34.27	82 22 30.14	14	29	19	D
593608	4	14	35	Ameri Steel	7105 E 6TH AVE	27 57 34.27	82 22 30.14	14	29	19	D
593608	4	24	45	Ameri Steel	7105 E 6TH AVE	27 57 34.27	82 22 30.14	14	29	19	D
593608	4	24	45	Ameri Steel	7105 E 6TH AVE	27 57 34.27	82 22 30.14	14	29	19	D
612501	4	70	70	Ameri Steel	7105 E SIXTH AV	27 57 34.27	82 22 30.14	14	29	19	D
612502	4	210	210	Ameri Steel	7105 E SIXTH ST	27 57 34.27	82 22 30.14	14	29	19	D
612503	8	370	370	Ameri Steel	7105 E. SIXTH AV	27 57 34.27	82 22 30.14	14	29	19	D
608369	4	166	166	Ameri Steel	7105 E. SIXTH AVE	27 57 34.27	82 22 30.14	14	29	19	D
621002	5	9	25	Tampa Mill	7105 6TH AVE	27 57 34.27	82 22 30.14	14	29	19	D
653987	6	15	30	Tampa Mill	7105 6TH AVE	27 57 34.27	82 22 30.14	14	29	19	D



APPENDIX F

Financial Assurance & Insurance Documentation

Requisite Insurance Documentation and a Letter of Credit in favor of the State of Florida will be issued upon the Department's review and acceptance of the facility closure cost estimate provided in Section 11.0 of this Permit Application.

APPENDIX G

Solid Waste Management Units

EQ Florida, Inc.

**Solid Waste Management Unit (SWMU)
Identification Summary**

SWMU NO.	SWMU NAME/ DESCRIPTION	YEARS OF OPERATION	WASTE MANAGED	EVIDENCE OF RELEASE
1	Concrete Container Storage Area (<i>aka</i> Waste Management Building)	June 1990 - Present	Permitted Wastes	None
2	Loading/Unloading Dock Area (<i>aka</i> Covered Processing Area)	June 1990 - Present	Permitted Wastes	None
3	Stormwater Retention Pond	June 1990 - Present	Stormwater	None
4	Filter Press	Certified Closed on 10/31/2013	None	None
5	Municipal Waste Dumpster	June 1990 - Present	RCRA Empty Containers, Office Waste	None
6	Stormwater Pre-Treatment Unit	June 1990 - Present	Stormwater	None
7	Waste Processing Building	June 2006 - Present	Hazardous & Non-Hazardous Waste	None
8	Universal Waste Battery Storage Area	January 2009 - Present	Universal Waste Batteries	None
9	Paint Can Crushing Area	1996 - Present	Scrap Cans & Paint	None
10	Roll-Off Storage Area (<i>aka</i> Solid Waste Operations Area)	July 2010 - Present	Non-Hazardous Solid Waste	None
11	Transfer Facility/Staging Area	June 1990 - Present	Permitted Wastes	None
12	Used Oil Facility (Removed & replaced by SWMU-19 once constructed)	June 1990 - Present	Used Oil	None
13	Satellite Accumulation Area	January 2002 - Present	Laboratory Waste	None
14	Parts Washer	January 2009 - Present	Parts Washer Solvent	None
15	Additional Retention Pond	July 2010 - Present	Stormwater	None
16	Universal Waste Lamp Storage Area	2002 - Present	Universal Waste Lamps	None
17	Aerosol Can Crushing Area	Removed & scrapped Circa 2010	None	None
18	Drum Crushing Area	1996 - Present	RCRA Empty Metal Containers	None
19 (Proposed)	Oil-Water Separator System	Proposed for construction	Used Oil	None

The locations of the SWMUs summarized above are depicted on Figure 17.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

JAN 30 1989

4WD-RCRA

Mr. Barry Swihart, Chief
Bureau of Waste Planning and Regulation
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RECEIVED

FEB 26 1989

RE: Universal Waste and Transit, Inc.
EPA I.D. Number FLD 981 932 544

HAZARDOUS WASTE
PERMITTING

Dear Mr. Swihart:

The Environmental Protection Agency (EPA) conducted a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) at the referenced facility on August 18, 1988. This is a new facility and it was determined that there has been no evidence of a prior or continuing release of hazardous wastes or hazardous constituents at this site. Therefore, at this time, Section 3004(u) of the Hazardous and Solid Waste Amendments (HSWA) of 1984 does not apply.

Since, apparently, only the Section 3005(h) waste minimization and Section 3004(d) prohibitions on land disposal of specified wastes requirements of HSWA apply to this facility, a separate permit would not be required, provided the State permit incorporates these requirements. In this case, the State permit would constitute the full RCRA permit.

For facilities where only the above mentioned sections apply, the public notice, the notice of intent to issue, and cover page of the permit should contain the following information:


1. EPA has determined that the provisions of 3004(u) of HSWA do not apply; but if new information to the contrary becomes available, the permit may be reopened.
2. The permit incorporates both the Section 3005(h) HSWA Waste minimization certification requirements and Section 3004(d) Land Disposal prohibitions.
3. The State permit constitutes the full RCRA permit, and a federal permit is not required to address the provisions of HSWA.

Additionally, the permit should incorporate the waste minimization requirements, land disposal restrictions and condition for reopening the permit if it is later determined that 3004(u) applies.

We have enclosed recommended wording for inclusion in the public notice, notice of intent to issue, permit cover page and permit conditions.

If you have any questions concerning this matter, please contact Harry Desai at (404) 347-3433.

Sincerely yours,


James H. Scarbrough, P.E.
Chief, RCRA Branch
Waste Management Division

Enclosure

cc: Satish Kastury, FDER, Tallahassee
Bill Crawford, FDER, Southwest District



The Environmental Quality Company
FLD 981 932 494
Operating Permit 34875-HO-009

*RCRA Facility Assessment (RFA)
Addendum*

Prepared by
Merlin D. Russell Jr, P.G.



May 13, 2011



Contents.....	Page
1.0 Introduction	3
2.0 Corrective Action Chronology	5
3.0 Facility Description & Operations	8
4.0 References	10
5.0 SWMU/AOC Summary Table	11
6.0 SWMU/AOC Data Sheets	12
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1.0 Introduction

The purpose of a RCRA Facility Assessment (RFA) is to compile existing information on environmental conditions at a given facility, including information on actual or potential releases. The RFA includes a review of existing information about a facility, a visit to the facility, and, if warranted, limited sampling to determine if there is an actual or potential release of hazardous wastes or hazardous constituents from the Solid Waste Management Units (SWMU) or Areas of Concern (AOC) at the facility. The primary decision point is a determination of whether there is the potential for contamination at levels that would pose human health or ecological concerns. If no further investigation or remediation is necessary, the Department of Environmental Protection (DEP or Department) issues a "No Further Action at this Time" This RFA addendum provides an update to the original RFA. This addendum provides information for twelve additional SWMUs (SWMU-7 through SWMU-18). The information is based upon documents listed in Section 4.0 References of this addendum, information submitted by EQ and the DEP inspection of August 25, 2010.

The original RCRA Facility Assessment Report was completed for Universal Waste & Transit, Inc., and was dated March 1995. That RFA identified six SWMUs. These six SWMUs are not discussed in detail in this addendum. The current Operating Permit 34875-HO-009, issued on June 14, 2006, contains the following SWMU list:

TABLE 1

• SWMU-1, Drum Storage Area	• SWMU-2, Loading and Unloading Area
• SWMU-3, Pre-Treatment Unit	• SWMU-4, Filter Press
• SWMU-5, Municipal Waste Dumpster	• SWMU-6, Retention Pond
• SWMU-7, Solid Waste Processing Building	• SWMU-8, Batteries Storage Area
• SWMU-9, Paint Can Crushing Area, and	• SWMU-10, Roll-off Storage Area

Each of these SWMUs has been given a No Further Action recommendation. A review of FDEP files revealed that a RFA Addendum had not been completed for SWMUs seven through ten above. In addition, the summary above is in error as it reversed the number assignments and names for SWMUs 3 and 6. As shown in section 2.0 below, SWMU-3 is actually the Retention Pond and SWMU-6 is actually the Pre-treatment Unit used to treat stormwater before it enters the Retention Pond.

On July 22, 2010, EQ submitted a renewal application for their Part B. The review of the Part B determined that the SWMU information was incomplete although much of the information was provided in various parts of the Part B. The request to update and consolidate the SWMU information was embodied in the First Notice of Deficiencies dated September 22, 2010.

On November 4, 2010, EQ submitted updated SWMU information to the Department as part of their response to the First Notice of Deficiencies. Upon receipt, the Department initiated the drafting of this RFA Addendum.

2.0 Corrective Action Chronology

EPA conducted the initial Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) at this location on August 18, 1988. At that time, the construction of the facility was not completed and it was determined that there was no evidence of a prior or continuing release of hazardous wastes or hazardous constituents at the site. Therefore, at that time, Section 3004(u) of the Hazardous and Solid Waste Amendments (HSWA) of 1984 did not apply.

On January 30, 1990, a site inspection was conducted to verify completion of construction activities. On July 3, 1990, DEP Tampa issued Universal Waste & Transit (UW&T) an operating permit for a Hazardous Waste Storage and Treatment Facility.

During the week of February 15-19, 1993, DEP Tallahassee conducted a facility file search. The search consisted of the review of UW&T's November 15, 1990 and May 21, 1991 RCRA Compliance Inspection Reports, permitting files, Superfund files, the permit application and the Operating Permit. The file search enabled staff to compile background data on existing and potential SWMUs and the regulatory history of the facility.

On February 25, 1993, a VSI was conducted by both DEP and EPA staff. The inspection was led by Wanda Parker (FDEP) and Harry Desai (EPA). The other attendees were Bheem Kothur (FDEP), Roger Evans (FDEP, Tampa), and John Taylor, General Manager for UW&T.

The 1993 the draft RFA (PR and VSI) resulted in the identification of six SWMUs. The findings and suggested further actions for this facility are summarized in Table 2 below. No further action was suggested for four of the SWMUs: Drum Storage Area and five Sumps (SWMU #1), Loading/Unloading Area (SWMU #2), Filter Press (SWMU #4), and Municipal Waste Dumpster (SWMU #5). Confirmatory soil sampling was recommended for the unlined retention pond (SWMU #3). Confirmatory sampling of influent and effluent of the pretreatment system (SWMU #6) was also recommended. These original six SWMUs are not discussed further in this RFA Addendum.

TABLE 2

SWMU IDENTIFICATION SUMMARY										
SWMU NO.	TYPE OF UNIT	YEARS OF OPERATION	WASTE MANAGED	POLLUTANT MIGRATION PATHWAYS	EVIDENCE OF RELEASE	EXPOSURE POTENTIAL	RECOMMENDATIONS			
							Confirmatory Sampling	RFI	NFA	FURTHER ASSESSMENT
1 *	Drum Storage Area	June 1990 - Present	Permitted Wastes (see Appendix A)	Air, Soil, Surface Water, Ground Water	None	L			X	
2 *	Loading/Unloading Area	June 1990 - Present	Permitted Wastes (see Appendix A)	Air, Soil, Surface Water, Ground Water	None	L			X	
3	Retention Pond	June 1990 - Present	Storm Water	Air, Soil, Surface Water, Ground Water	None	M	X			
4 *	Filter Press	June 1990 - Present	Non-hazardous wastes (One-time test)	Air, Soil, Surface Water, Ground Water	None	L			X	
5	Municipal Waste Dumpster	June 1990 - Present	Empty storage containers, paint cans, office wastes	Air, Soil, Surface Water, Ground Water	None	L			X	
6	Pre-treatment Unit	June 1990 - Present	Storm Water	Air, Soil, Surface Water, Ground Water	None	M	X			

* = RCRA Regulated Unit

The RFA Report for UT&W was finalized by FDEP in March, 1995.

In a letter dated April 18, 1996, a request for a name change to City Environmental Services, Inc., (dated March 29, 1996), was submitted to DEP for approval. In a May 27, 1998 letter to DEP, the name was changed again to USL City Environmental Services of Florida, Inc. That change was approved on June 4, 1998. A January 9, 2001 request to change the name from USL City Environmental Services of Florida to US Liquids of Florida was approved by DEP on January 30, 2001. A February 5, 2004 request to change the name from US Liquids of Florida to EQ Florida Inc. was approved by DEP on February 13, 2004.

The current Operating Permit 34875-HO-009 was issued to EQ on June 14, 2006 and contains the following SWMU summary:

TABLE 3

<ul style="list-style-type: none"> • SWMU-1, Drum Storage Area • SWMU-3, Pre-Treatment Unit • SWMU-5, Municipal Waste Dumpster • SWMU-7, Solid Waste Processing Building • SWMU-9, Paint Can Crushing Area, and 	<ul style="list-style-type: none"> • SWMU-2, Loading and Unloading Area • SWMU-4, Filter Press • SWMU-6, Retention Pond • SWMU-8, Batteries Storage Area • SWMU-10, Roll-off Storage Area
--	--

Each of these SWMUs has a No Further Action recommendation.

On July 22, 2010, EQ submitted a renewal application for their Part B. The review of the Part B determined that the SWMU information was incomplete although much of the information had

been submitted in various parts of the Part B. The request to update and consolidate the SWMU information was embodied in the First Notice of Deficiencies dated September 22, 2010.

On November 4, 2010, EQ submitted updated SWMU information to the Department as part of their response to the First Notice of Deficiencies. Upon receipt, the Department initiated the drafting of this RFA Addendum.

Included in this addendum are summary sheets describing each additional SWMU¹, photographs and a location map (Figure 5.14 from the Part B).

¹ Other than the original SWMUs identified in the UW&T RFA dated December 1995.

3.0 Facility Description & Operations

The EQ facility is a permitted hazardous waste storage and treatment facility. No on-site disposal occurs at EQ. EQ also manages non-hazardous regulated waste, household hazardous waste, used oil and filters, mercury containing lamps and devices, TSCA-exempt and limited quantity exempt PCB and asbestos wastes, recyclable materials, and other similar substances, materials, and wastes. The primary waste management operations are storage and transfer.

The facility consists of the 4.46-acre, more or less (MOL), site. The permitted hazardous waste storage facility located on site is a 5,866 square foot (MOL) building, which was specifically designed for hazardous waste management. The container storage building is composed of three separate bays separated by an eight-inch wide concrete block wall and fire doors. The wall extends from the floor to the roof and has been designed with a minimum fire resistance of four hours. Container storage is also allowed under a 1,786 square foot (MOL) improved secondary containment area located on the loading dock side of Bay 2.

The total hazardous waste capacity within the building and covered outside storage area is 50,000 gallons. The hazardous waste consists of solids, sludges, liquids, and lab packs.

Prior to construction, the land had been undeveloped. There were no existing SWMUs located at this location.

The surrounding land uses are heavy industrial. Land uses include two National Priority List (NPL) sites, metal recyclers, a construction debris transfer facility, steel cleaning and coating, fishery, gas manufacturing, a pesticide formulator, and bail bonds businesses. The facility is located in the City of Tampa in a heavy industrial area known as Orient Park. The area is zoned heavy industrial. The City of Tampa classifies this area as suitable for hazardous waste facilities.

The primary operation at the EQ facility is storage of hazardous waste in containers, primarily 55-gallon drums. Some waste is re-containerized or consolidated in other containers of similar size or larger. Re-containerization operations may also include use of the paint can crusher, aerosol spray can recycler, and/or drum crusher. Wastes are primarily shipped out of the facility in 55-gallon drums, although some wastes are consolidated in roll-off dumpsters or tanker trucks.

The following waste type categories are handled at the facility: solid waste, flammable, poisons, toxic, acids, alkaline, Hazardous Organic Compounds (HOC), oxidizers, reactive and Otherwise Regulated Material (ORM or Class 9). No regulated explosive, regulated radioactive, or regulated biohazardous waste are managed at EQ. Waste types include liquids, solids, sludges, and lab packs. Lab pack waste usually consists of waste generated by private (household) individuals such as paints, pesticides, household wastes, etc.

EQ is also authorized to operate a transfer facility on site in accordance with Rule 62-730.171, Florida Administrative Code (F.A.C.), and is authorized to hold manifested hazardous waste on site not to exceed ten (10) days as allowed for transfer facilities. Current regulations allow transfer facility waste to be held anywhere on the paved lot within the facility boundary. The maximum permitted capacity is limited to 20,000 gallons or 100 cubic yards.

EQ is also a used oil and used oil filter transporter and transfer facility in accordance with Chapter 62-710, F.A.C.

EQ is a transporter and handler of mercury containing lamps and devices that are regulated in accordance with Chapter 62-737, F.A.C.

EQ manages Solid Waste in accordance with its solid waste permit (34757-003-SO and 34757-005-SO) and Chapter 62-701, F.A.C.

EQ also manages household hazardous waste (HHW) at the facility. This waste is regulated as a Solid Waste. Any HHW received with a hazardous waste manifest is managed as hazardous waste.

EQ also manages pharmaceutical wastes in accordance with a Drugs, Devices and Cosmetics permit (53; 00007) issued by the Florida Department of Health.

4.0 References

The following documents were used in preparation of this amended RFA (listed chronologically):

1. EQ's additional information for the Operating Permit Renewal dated April 28, 2011.
2. EQ's (Stuart Stapleton) e-mail dated April 25, 2011 containing information.
3. EQ's response to the Second Notice of Deficiencies dated February 10, 2011.
4. EQ's (Stuart Stapleton) e-mail dated January 25, 2011 containing photographs and information.
5. EQ's (Stuart Stapleton) e-mail dated January 18, 2011 containing photographs and information.
6. EQ's response to the First Notice of Deficiencies dated November 4, 2010.
7. FDEP Inspection report dated August 25, 2010.
8. EQ's Part B renewal dated July 22, 2010.
9. Kleinfelder's *Monitoring Well Installation and Sampling Report* dated November 4, 2009
10. *RCRA Facility Assessment Report for Universal Waste & Transit, Inc.*, March 1995, prepared by Florida Department of Environmental Protection.

5.0 SWMU/AOC Summary Table

SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN SUMMARY TABLE						
SWMU or AOC #	Waste Management Unit/Area of Concern Name	Type of Unit	Evidence of releases	Suggested Action		Wastes Managed
				NFA at This Time	Confirmatory Sampling Required	
SWMU-7	Solid Waste Processing Facility	Treatment and Storage	No	X		Non-hazardous materials
SWMU-8	Universal Waste Battery Storage Area	Storage	No	X		Used batteries
SWMU-9	Paint Can Crushing Area	Treatment and Storage	No	X		Water- and solvent-based paints
SWMU-10	Roll-off Storage	Storage	No	X		Non-hazardous materials
SWMU-11	Transfer Facility	Temporary Holding of Waste	No	X		Hazardous Waste
SWMU-12	Used Oil Facility	Storage	No	X		Used oil
SWMU-13	Satellite Accumulation Area	Storage	No	X		Laboratory chemicals
SWMU-14	Parts Washer	Treatment and Storage	No	X		Solvents
SWMU-15	Additional Retention Pond	Treatment, Storage & Disposal	No		X	Storm water
SWMU-16	Universal Waste Lamp Storage Area	Storage	No	X		Fluorescent lamps
SWMU-17	Aerosol Can Crushing	Treatment and Storage	No	X		Aerosol cans
SWMU-18	Drum Crushing	Treatment and Storage	No	X		Drums and drum residues

6.0 SWMU/AOC Data Sheets

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-7
NAME	Solid Waste Processing Facility (<i>aka</i> Solid Waste Processing Area)
TYPE OF UNIT	Treatment and storage
DESCRIPTION OF WASTE MANAGED	Non-hazardous materials
PHYSICAL DESCRIPTION AND CONDITION	<p>The Materials Processing Facility (MPF) is an 8,050 square foot building located on the 8th Avenue property (southern portion of property). The building is used for processing, staging, storage and management of non-hazardous regulated solid waste. Processing includes segregation, decanting, filtration, transfer, shredding, or solidification. The storage capacity of the MPF is 185,650 gallons. The containment provided by the 8-inch high concrete curb and two 50-gallon sumps is 32,676 gallons which is sufficient to hold 110% of the largest container (a 7,660 gallon constructed steel welded box used in the solidification process) or 10% of the total volume of the waste permitted to be stored in the building.</p> <p>Construction of the MFP was completed in November 2009 and it went into operation in July 2010.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	The operations are conducted in accordance with DEP's solid waste permit 34757-006-SO/30 issued November 18, 2008 and expiring on November 18, 2013. Closure and postclosure of the facility are covered by Part G of the Solid Waste permit.

Photos of SWMU-7



SWMU-7, Solid Waste Processing Facility. This photograph shows the front entrance, facing west. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-8
NAME	Universal Waste Battery Storage Area
TYPE OF UNIT	Storage
DESCRIPTION OF WASTE MANAGED	Universal Waste Batteries
PHYSICAL DESCRIPTION AND CONDITION	<p>The Universal Waste Battery Storage Area is located in the southeastern portion of the container storage building in Bay 3. This area is covered by a roof and slopes towards the containment trench.</p> <p>Batteries stored in the battery storage area include lead acid, lithium, alkaline, and NiCd. These batteries are sent to AERC for recycling. Alkaline batteries are land filled (Omni Landfill).</p> <p>The Batteries Storage Area began operation in January 2009 and is currently in use.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	

Photos of SWMU-8



SWMU-8, Universal Waste Battery Storage Area. This photograph was taken facing east. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-9
NAME	Paint Can Crushing Area
TYPE OF UNIT	Treatment and Storage
DESCRIPTION OF WASTE MANAGED	Solvent-based paints
PHYSICAL DESCRIPTION AND CONDITION	<p>Solvent-based paints are received in one-gallon cans for re-containerization and disposal. The operation takes place in the permitted hazardous waste processing areas. The operation includes the opening of containers, crushing the can in an enclosed unit, collecting the paint waste in a 55-gallon drum and containerizing the paint for off-site transport. The paint can is manually placed in and removed from the unit. EQ uses best management practices such as using plastic sheeting to contain any drippage. Each waste stream is characterized to determine appropriate management.</p> <p>Latex or water based paints are not crushed in this machine.</p> <p>The Paint Can Crushing Area began operations in 1996 and is currently in use.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	

Photo of SWMU-9



SWMU-9, Paint Can Crushing Area. This photograph was taken facing east/northeast. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-10
NAME	Rolloff Storage (<i>aka</i> Rolloff Storage Area)
TYPE OF UNIT	Storage
DESCRIPTION OF WASTE MANAGED	Non-hazardous materials
PHYSICAL DESCRIPTION AND CONDITION	<p>The Rolloff Storage Area is also known as the Solid Waste Processing Building. It is used for the storage of roll-off boxes that are full of the solidified material created in the MPF (SWMU-7). The roll-off boxes are staged in this area where they await outbound transportation. The area consists of a 2,288 square foot covered concrete pad and has a capacity of 20,200 gallons.</p> <p>The Rolloff Storage was a pre-existing building and no special construction was needed prior to using it for the roll-off storage. Operation as the Rolloff Storage began in November 2008.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	The operations are conducted in accordance with DEP's solid waste permit 34757-006-SO/30 issued November 18, 2008 and expiring on November 18, 2013. Closure and postclosure of the facility are covered by Part G of the Solid Waste permit.

Photo of SWMU 10



SWMU-10, Rolloff Storage. This photograph was taken facing east. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-11
NAME	Transfer Facility (<i>aka</i> Transfer Area/Staging Area)
TYPE OF UNIT	Short-term Storage
DESCRIPTION OF WASTE MANAGED	Hazardous Waste
PHYSICAL DESCRIPTION AND CONDITION	<p>The Transfer Facility is currently located in, and part of, the Container Storage Area (SWMU 1). It is located in Bay 1.</p> <p>EQ is authorized to operate a transfer facility on site in accordance with Rule 62-730.171, F.A.C., and is be authorized to hold manifested hazardous waste on site not to exceed ten (10) days as allowed for transfer facilities. Current regulations allow transfer facility waste to be held anywhere on the paved lot within the facility boundary. The maximum permitted capacity is limited to 20,000 gallons or 100 cubic yards</p> <p>The Transfer Facility began operation in 1990 and is currently in use.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	EQ's information submitted in the February 10, 2011 Part B updates proposes to move the transfer facility to an area located on the 8 th Avenue Property as identified on Figure 5.14.

Photo of SWMU 11



SWMU-11, Transfer Facility. This photograph was taken facing east. Photo taken on April 16, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-12
NAME	Used Oil Facility
TYPE OF UNIT	Storage
DESCRIPTION OF WASTE MANAGED	Used Oil, Used Oil Filters
PHYSICAL DESCRIPTION AND CONDITION	<p>The Used Oil Facility is located within, and part of, the Container Storage Area (SWMU 1). It is located in Bay 1.</p> <p>Used oil is received in various size containers and transferred into either 55- gallon drums or 275-gallon tote tanks. Used oil is pumped from these containers on a weekly basis. EQ does not drain oil filters other than during routine vehicle maintenance performed in the vehicle maintenance area. Used oil filter are received in various sized containers and are consolidated into 55-gallon drums.</p> <p>The Used Oil Facility began operation in 1990 and is currently in use.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	EQ is registered as a used oil transporter, transfer facility, filter transporter and filter transfer facility in accordance with Chapter 62-710, F.A.C. The June 16, 2010 certification expires on June 30, 2011.

Photo of SWMU 12



SWMU-12, Used Oil Facility. This photograph was taken facing west. Photo taken on April 16, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-13
NAME	Satellite Accumulation Area
TYPE OF UNIT	Storage
DESCRIPTION OF WASTE MANAGED	Laboratory samples
PHYSICAL DESCRIPTION AND CONDITION	<p>The Satellite Accumulation Area is located in the laboratory located in the Office Building on the 8th Avenue (southern) property. The material collected in the satellite accumulation area includes various types of solvents and debris associated with waste sampling. Accumulated material is transferred to the northern property for further processing.</p> <p>The Satellite Accumulation Area began operation in 2002 and is currently in use.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	

Photos of SWMU 13



SWMU-13 Satellite Accumulation Area. This photograph was taken facing south. Photo taken on January 11, 2011 by Stuart Stapleton.



SWMU-13 Satellite Accumulation Area. This photograph was taken facing east. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-14
NAME	Parts Washer
TYPE OF UNIT	Treatment and Storage
DESCRIPTION OF WASTE MANAGED	Liquids and sludges from a non-hazardous solvent
PHYSICAL DESCRIPTION AND CONDITION	<p>EQ currently utilizes a Safety Kleen Parts Washer located in the maintenance area of the office building on the 8th Avenue property. The washer consists of a metal sink fixed to a 30-gallon drum of part cleaning solution. The solution is pumped from the drum into the sink where the parts are washed and cleaned. The solution is drained back into the drum when the cleaning is completed. The solution is reused until it is no longer useful and at that point it is sent off-site for recycling. The waste solvent is periodically tested.</p> <p>Parts Washers began operation in January 2009 and it is currently in use.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	

Photo of SWMU 14



SWMU-14 Parts Washer. This photograph was taken facing west. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-15
NAME	Additional Retention Pond
TYPE OF UNIT	Storage
DESCRIPTION OF WASTE MANAGED	Storm water
PHYSICAL DESCRIPTION AND CONDITION	<p>The Additional Retention Pond is located in the northwestern corner of the 8th Avenue property. It collects storm water from the roof of the Material Processing Facility (SWMU-7). The retention pond was sized for both the permanent pool volume required and the 1" runoff storage (temporary pool). The pond is unlined.</p> <p>Construction of the retention pond was completed in March 2010 and it became operational in July 2010.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	<p>None. Prior to construction, a shallow well (MW-1) was installed on October 22, 2009 to determine if there were any groundwater impacts from the Helena Chemical Company Superfund Site. The sampling did not detect any measurable concentrations of analytes. Analytes were limited to total xylenes, alpha-BHC, beta-BHC, lindane (gamma-BHC) 4,4'-DDT, aldrin, dieldrin, endosulfan I and endosulfan II.</p>
RECOMMENDATION	Confirmatory Sampling
COMMENTS	

Photo of SWMU 15



SWMU-15 Additional Retention Pond. This photograph was taken facing north. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-16
NAME	Universal Waste Lamp Storage Area
TYPE OF UNIT	Storage
DESCRIPTION OF WASTE MANAGED	Fluorescent lamps
PHYSICAL DESCRIPTION AND CONDITION	<p>Lamps are received from various sources including Conditionally Exempt Small Quantity Generators (CESQG). If Universal waste (UW) is received in containers that show evidence of spillage, leakage or damage that could cause leakage, the material is repacked into structurally sound containers.</p> <p>The Universal Waste Lamp Storage Area is located in the parking area of the northern property. The material is stored in a box van with a storage capacity of 1,104 cubic feet.</p> <p>The Universal Waste Lamp Storage Area began operation in 2002 and is currently in use.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	EQ is a transporter and a Small Quantity Handler Facility of Universal Waste Lamps and Devices in accordance with Chapter 62-737, F.A.C. EQ's certification was issued March 31, 2011 and it expires on March 1, 2012.

Photo of SWMU 16



SWMU-16 Universal Waste Lamp Storage Area. This photograph was taken facing south/southwest. Photo taken on January 26, 2011 by Stuart Stapleton.

WASTE MANAGEMENT AREA /AREA OF CONCERN DATA SHEET

WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-17
NAME	Aerosol Can Crushing (<i>aka</i> Aerosol Can Recycling)
TYPE OF UNIT	Treatment
DESCRIPTION OF WASTE MANAGED	Solvent-based paint waste, auto products (e.g., carburetor cleaner, engine degreaser, etc.) and personal care products
PHYSICAL DESCRIPTION AND CONDITION	<p>The aerosol can crushing was conducted in a machine that crushed aerosol cans while simultaneously capturing all liquids into a 55-gallon container. Aerosol cans were placed within an enclosed unit and punctured. The material within the can was ejected into the drum. A filter unit was attached to the machine that captured vapors expelled from the can/drum during the recycling operation. This operation was carried out in area 2A of the hazardous waste storage area.</p> <p>The filters were changed out as per the manufacturer's specifications. Spent filters were characterized and managed as solid or hazardous waste.</p> <p>Both Aerosolv and TeeMark crushers have been used. The TeeMark is no longer in operation and a replacement is being considered. Additional details of the crushers are located in Attachment 16 of the Part B renewal dated July 22, 2010.</p> <p>The empty cans were sent off site to a metal recycler. The collected paint was sent off site for fuels blending.</p> <p>The Aerosol Can Crushing units began operation in 2003 but are currently <i>not</i> in use. This process may be used in the future at some point, and if so, information on the</p>

	particular type of unit will be submitted to the Department.
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	

**WASTE MANAGEMENT AREA /AREA OF CONCERN
DATA SHEET**

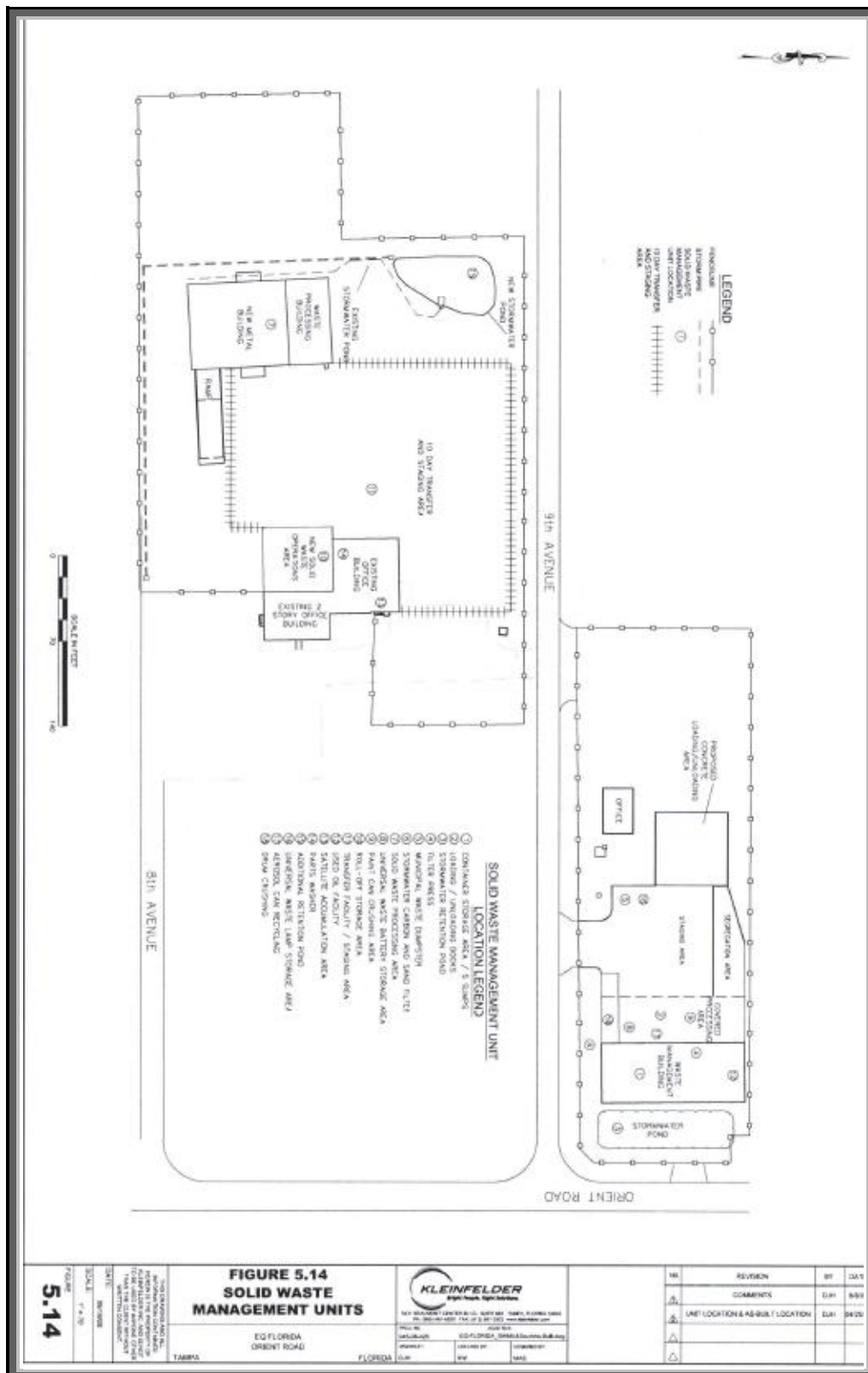
WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER	SWMU-18
NAME	Drum Crushing
TYPE OF UNIT	Treatment
DESCRIPTION OF WASTE MANAGED	Empty Drums and residues
PHYSICAL DESCRIPTION AND CONDITION	<p>EQ uses a Drumbeaters of America crusher, model # DC5000-10. Additional details of the compactor are located in Attachment 16 of the Part B renewal dated July 22, 2010. The unit is located at the top of the ramp leading into Bay 3.</p> <p>The unit is used to crush drums and other various RCRA empty metal containers. Crushed drums are sent off site to a metal recycler. Rags are no longer being compacted.</p> <p>Crushed drums are sent off site to a metal recycler.</p> <p>The Drum Crushing units began operation in 1996 and is currently in use.</p>
HISTORY AND/OR EVIDENCE OF RELEASE(s)	None
RECOMMENDATION	No Further Action
COMMENTS	

Photo of SWMU 18



SWMU-18 Drum Crushing. This photograph was taken facing west/northwest. Photo taken on January 11, 2011 by Stuart Stapleton.

7.0 Figure



8.0 Index

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APPENDIX H

Emergency & Safety Equipment

EQ Florida, Inc

SUPPLEMENTAL EMERGENCY AND SAFETY EQUIPMENT

1. Hand-Held blow Horns (3)
2. Telephones (2)
3. Emergency Lights (4)
4. Pull alarms (6)
5. Fire Extinguishers (6)
6. Emergency Exits (6)
7. Containment sumps (5)
8. Spill Kits (Acid, Alkaline, Solvent) (1 each)
9. Fire Hoses (3)
10. Safety Equipment Cabinets (2)
11. UV Smoke and Flame Detectors (6)
12. Heat Sensors (2)
13. LEL Sensors (2)
14. LEL Meter (1)
15. SCBA Respirator (1)
16. Eye Washes (2)
17. Safety Shower (1)
18. Sprinkler Systems (2)
19. Foam System (1)
20. Intrusion Alarm System (1)
21. Fire Alarm System (1)

(Supplemental emergency and safety equipment which may not be referenced in the PPP/CP)

APPENDIX I

Equipment Specifications



**Drumbeaters
of America Inc.**



Drum Crushers
Drum Washers
Drum Washers Crushers
Tote Washers
Drum Cleaning Solutions



Drum Crusher Model# DC5000-10 Electric

The Model DC5000-10 is used to crush unlimited drums. This system will crush a 55 gallon drum down to 4" in height greatly reducing storage space requirements and transport fees.

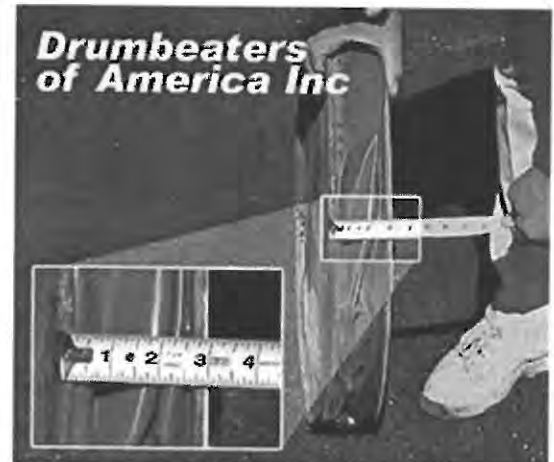
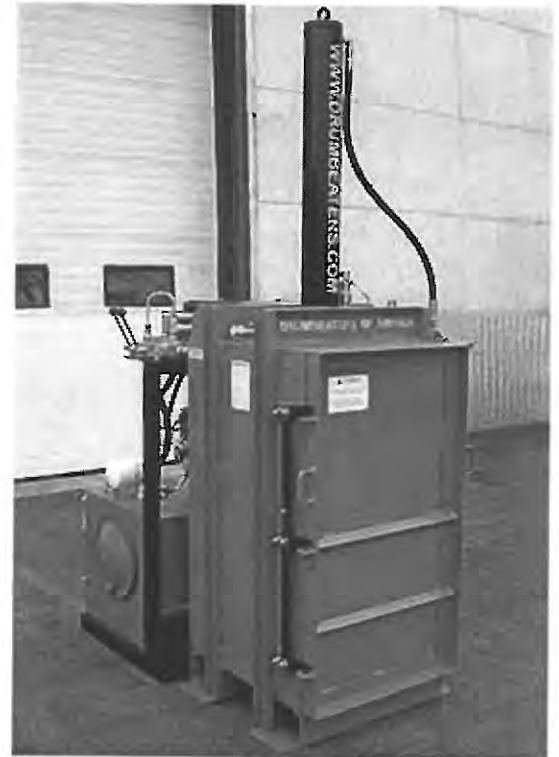
The unit comes complete with fused electrical controls, hydraulic door safety switch, and an oil sight gauge with temperature indicator. Heavy duty construction, all structural components are made with heavy steel plate.

Standard Features:

- 10hp electric motor
- Compaction force 60,000 pounds at 3000 psi
- Crush 55 gallon steel drum down to 4"
- Cycle time of 35 seconds
- 40 gallon hydraulic tank
- Heavy Duty Steel construction
- Directional Control Valve
- Drum ring locator, keep the drum aligned
- Safety interlocks door, prevent operation while door is open
- Electrical disconnect box
- Portability with Fork Lift Truck
- Electrical control box NEMA- 1
- Safety features to comply with OSHA

Additional Options:

Explosion Proof System	When you have a hazardous area
Drip Pan for Liquid Containment	Under the crushing chamber to collect any fluids inadvertently not removed prior to crushing the drum
One step control valve	Causes the equipment to go through a full cycle without holding the lever down through the entire crushing cycle



Shipping dimensions:

H: 75" W: 40" D: 65" Weight: 2,500 lbs

We sell directly from Elburn IL, USA
We have worldwide distribution
We ship to all countries

Drumbeaters of America Inc.
215 West Nebraska St.
Elburn, IL 60119 USA

Jim Popp:

Phone: (630)365-5527 ext 3006
Fax: (630)365-9928

Mary Brown:

Phone: (630)365-5527 ext 3003
Fax: (630)365-9928

General Sales:

Phone: (630)365-5527 ext 0
Fax: (630)365-9928

<http://www.drumbeaters.com>





CORPORATION

TEEMARK CORPORATION

Model PCC1J-X

EXPLOSION PROOF ELECTRIC PRODUCTION CAN CRUSHER

With Can Ejector Option

CARE & USE INSTRUCTIONS

SERIAL NO. 10283

DATE MFG. 7/99

HC7 Box 14-T • Aitkin, MN 56431
218-927-2200 • 800-428-9900 • FAX 218-927-2333

TEEMark

PCC1J PAINT CAN CRUSHER WITH CAN EJECTOR

*Pierces, drains,
crushes and ejects
one-gallon cans!*

●●●●●●●●

*Typically empty
by EPA definition.*

●●●●●●●●

*No need to
remove lids from
one-gallon cans.*

HYDRAULICS

Equipped with a hydraulic pump
provides 30,000 pounds of
crushing force.

RECYCLE CHECK NOW AVAILABLE!

This option sorts out crushed
cans that retain too much
paint for recycling.



PCC1J AUTOMATICALLY EJECTS CRUSHED CANS & PAILS

One-gallon cans are
crushed and ejected by
the PCC1J. Ejection
system proven on
millions of cans.

SAFE, EXPLOSION PROOF

Units will not operate with
door open. These crushers
are completely explosion
proof and are suitable for use
with solvent based paints and
other flammable liquids.

RESULTS!

With no need to remove lids,
PCC1J crushers can
process 300 cans per hour.
Leaving the lids on also
reduces labor costs and the
risk of personal injury.

TeeMark PCC1J SPECIFICATIONS

CRUSHING FORCE: 30,000 pounds

CRUSHING CHAMBER: one gallon

CYCLE TIME: 10 seconds or less

POWER SYSTEM ALTERNATIVES:

- 1-1/2 hp* 115/230V 1 Ph 20/10A w/starter, 10 sec cycle
- 3 hp* 208-230/460V 3ph 11-10/5A w/o starter, 6 sec cycle

*Explosion Proof Class 1, Group D

- 1-1/2 hp 80 psi Air @ 40 SCFM, 10 sec cycle

EJECTION SYSTEM: Requires 80 psi air from 1/4 inch air
line or a one-horse compressor

DIMENSIONS: 37" w x 37" d x 90" h

CLEARANCE UNDER STAND: 41"

APPROXIMATE SHIPPING WEIGHT: 1160 lbs.

WARRANTY: 1 year on all materials and workmanship

From 1 to 110 gallons, TeeMark Crushers help prepare containers and their contents for recycling or disposal.

TeeMark Corporation • Aitkin, MN 56431 • 1-800-428-9900 • FAX 218-927-2333 • e-mail teemark@aitkin.com
Crusher Homepage: www.aitkin.com/teemark

EXPLOSION PROOF ELECTRIC PRODUCTION CAN CRUSHER

Model PCC1J-X With Can Ejector Option

INITIAL START UP

Congratulations on choosing a **TeeMark PCC1J-X Production One Gallon Can Crusher**. Your crusher has been thoroughly tested before leaving the factory.

ASSEMBLY

Follow the instructions on the assembly diagram to mount the crusher, drip pan, and stand. The crusher can be lifted by the lifting eye on the top of the cylinder. It weighs about 900 pounds.

The assembled unit is somewhat top heavy so we recommend that the stand legs be properly anchored to the floor using 3/8" anchor bolts. There is enough clearance under the stand for a 55 gallon drum on a standard 2 inch roller conveyor or drum dolly.

ELECTRICAL CONNECTION

The explosion proof motor, motor controls, and connections on your PCC1X-J are UL listed and CSA certified for Class 1, Group D, Hazardous locations. Forty feet of rubber electrical cord is supplied without an end connector. It is up to the purchaser to install the equipment to comply with the appropriate local and national electrical codes.

The motor is 1-1/2 hp, 115/230 VAC 16/8 FLA single phase. Thermal protection is built into the motor and resets automatically.

***** CAUTION *****

THE MOTOR HAS AUTOMATIC THERMAL PROTECTION.
AFTER A TRIP IT WILL RESTART WITHOUT WARNING.
DO NOT PERFORM MAINTENANCE WITH THE POWER ON.

The motor is connected for use with 115 volts from the factory unless arrangements were made prior to shipping. A minimum 20 amp service should be used to avoid nuisance tripping of the circuit breaker.

See wiring diagram for conversion to 230 VAC.

INITIAL START UP - continued

HYDRAULIC FLUID

The hydraulic reservoir should be kept full to within 1 inch of the top of the tank when the ram is fully raised. Use a premium grade antiwear hydraulic oil, 150 viscosity grade 32 (e.g. Mobile #DTE24 or equal). This is the same antiwear hydraulic fluid that is typically used in farm tractors and dump trucks. It should be available in auto supply stores. Total fluid capacity is 3-1/2 gallons. Oil should be at a level that is visible in the temperature sight gauge throughout the complete ram cycle.

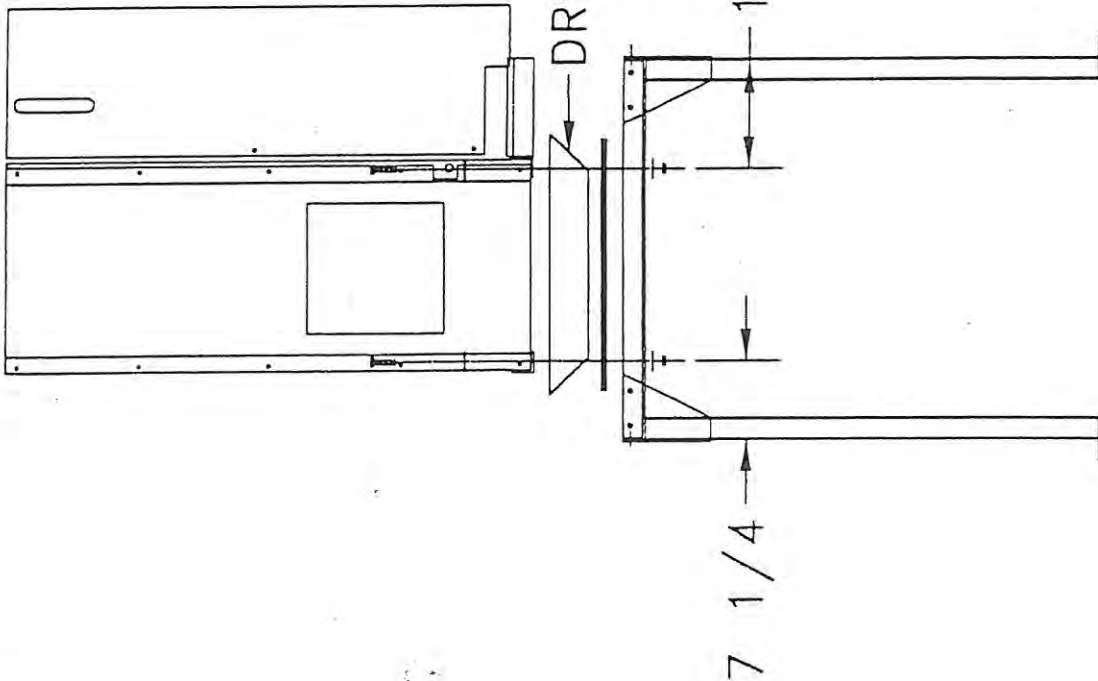
OIL FILTER

A standard 20 GPM 10 micron cellulose oil filter is used to filter the hydraulic oil. It should be changed after the first 100 hours of operation or 2 months, whichever comes first, then every 500 hours of operation thereafter.

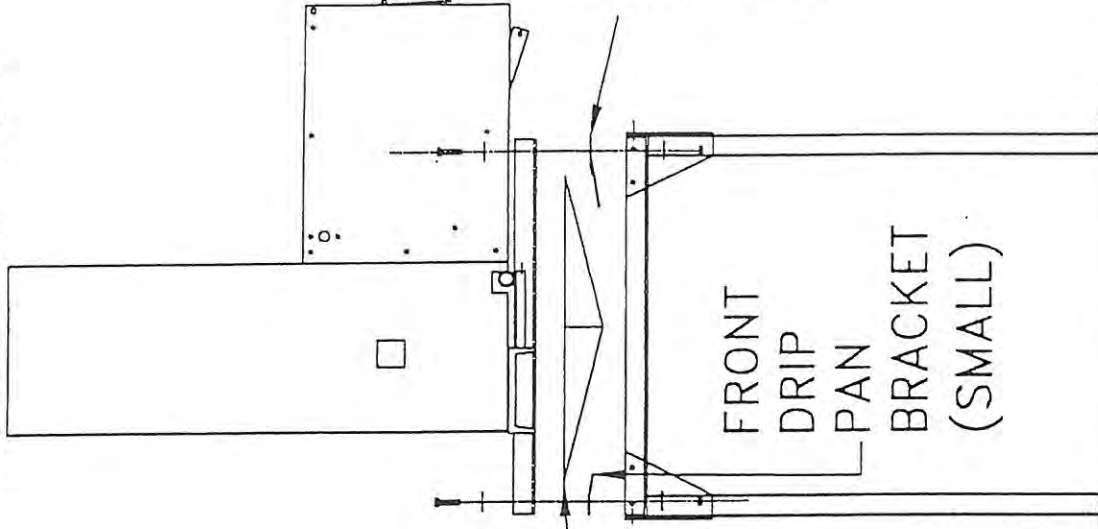
VALVE SETTINGS

The pressure relief valve and squeeze (detent) pressure have been preset at the factory for optimum performance. **DO NOT INCREASE THESE SETTINGS** as this will exceed the capacity of the equipment and cause damage. Lowering the squeeze valve detent pressure below the factory setting of 3000 psi is permissible. See **DETENT ADJUSTMENT** instructions.

FRONT VIEW



RIGHT SIDE VIEW



ITEM	QTY	DESCRIPTION	ITEM	QTY	DESCRIPTION
TOLERANCES UNLESS OTHERWISE SPECIFIED:			CUSTOMER ASSEMBLY		
DIM'S ARE IN INCHES			PCC1-J		
FRACTIONAL ±1/32			DATE 9/11/97		
1 PLC. DEC. ±.015			TEEMARK		
2 PLC. DEC. ±.010			TeemMark Corp		
3 PLC. DEC. ±.005			CAD. REF. C028-085		
ANGULAR ±1°			PART NO. C028-085		
AITKIN MINNESOTA 56431 218-927-2200					
REV	DESCRIPTION		AUTH	DATE	

OPERATING INSTRUCTIONS

ONE GALLON CAN CRUSHING

Pull the **"STOP"** button to start the motor of the PCC1X Production Can Crusher. As a safety feature, the hydraulic power will not run when the door is open.

***** CAUTION *****

ALWAYS TURN THE POWER OFF WHEN SERVICING
THE CRUSHER OR WHEN NOT IN USE.

Place an open topped 55 gallon drum or other container under the crusher to collect the liquid extracted from the cans. There is enough clearance to position the drum on a 2 inch roller conveyor.

Place the can to be crushed into the crushing chamber until it contacts both locating stop pins. This centers the can for proper piercing and crushing.

Swing the door shut and pull the two hydraulic valve handles toward you until they reach the detent position and lock in place. The crushing cycle will begin. The PCC1 has two piercers that slit the sidewall of the can as it is crushed.

At the bottom of the stroke the ram automatically stops and returns to the up position. If the door is opened at any time during the cycle, the ram will stop. The ram can be manually retracted by throwing the left valve handle to the neutral position.

If the valve handles are not returning automatically or if they return too soon, see the **DETENT ADJUSTMENT** instructions.

SMALLER CANS

Cans smaller than one gallon may also be crushed in the PCC1 but they will not be pierced. To crush smaller cans, place the can in the center of the chamber and proceed as above. Since small cans are not pierced they may rupture with a popping sound. The cabinet is designed to contain the spray when this happens.

CANS WITH SEMI-SOLID CONTENTS

The PCC1 is designed to handle the nastiest of contents. All but the driest, hardest material will be squeezed from the can.

PIERCER SHARPENING AND ADJUSTMENT

Each piercer is attached with two bolts. They can be removed and sharpened with a power grinder or sander.

CAN EJECTOR OPTION

INTRODUCTION - The Can Ejector option on the PCC1J-X is an air powered system that interlocks with the operating system of the crusher. The primary features of the ejector are a pneumatic cylinder, a can "tossler", and a door in the rear of the unit that opens to allow the crushed can to be ejected. Compressed air is used to dislodge the can from the ram after crushing is completed. This blast of air prevents the can from sticking to the crusher face.

AIR REQUIREMENTS - Electric PCC1 units with the ejector option need a 1/4 inch air line for the ejector. Air volume requirements are minimal and can be provided by a 3/4 hp compressor. The air line should be equipped with a dryer and oiler that is set to provide one drop of oil every ten crusher operating cycles.

OPERATION - The ejector must be connected to a supply of compressed air and the air valve must be opened to provide power to the ejector air cylinder.

If a can is not crushed completely, or gets hung up inside the machine, the operator may need to remove the can by hand. Air pressure to the ejector system is cut off and vented when the operator opens the main door of the crusher. With the main door open, the ejector arm and the ejector door at the rear of the crusher can easily be moved by hand to free a stuck can.

SMALLER CONTAINERS - The ejector is designed for one gallon cans. The crusher is also very effective on smaller cans and oil filters but the ejector should be turned off when they are crushed. When crushing of small containers is finished, the ejector air supply should be turned back on and the crusher should be cycled 2 or 3 times to clear wet paint from the air jet holes in the crusher face.

***** CAUTION *****

KEEP HANDS FREE OF THE CRUSHING CHAMBER AND
REAR EJECTION CHUTE WHENEVER THE MACHINE IS CYCLING.

In the event of a jam or malfunction, be certain all power is off before clearing.

THE PROTECTIVE SHIELD ON THE EJECTION CHUTE MUST BE IN PLACE
WHEN THE CRUSHER IS OPERATING.

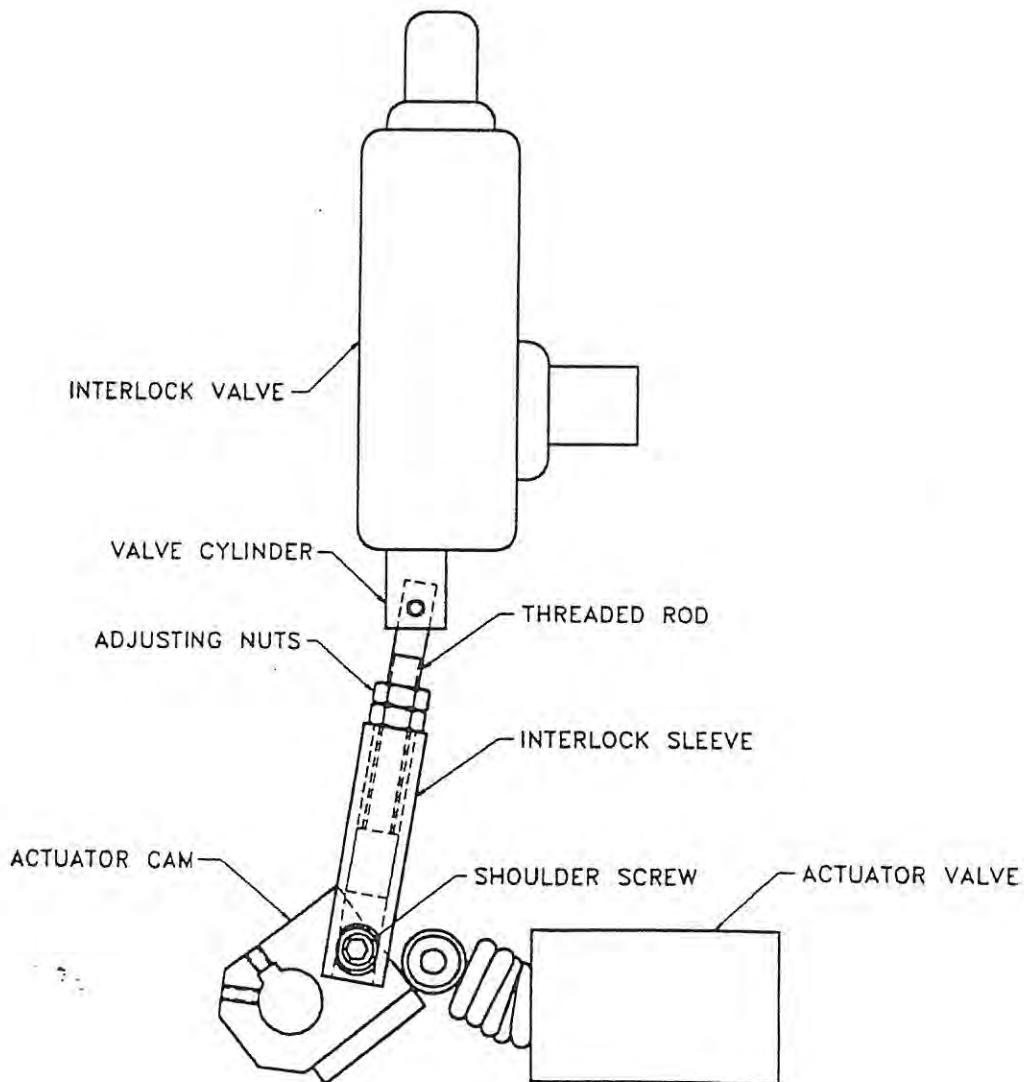
DO NOT RAISE THE SHIELD OR LOOK INTO THE EJECTION CHUTE
WHEN THE CRUSHER IS OPERATING.

Cans are ejected from the crusher with considerable force and speed.

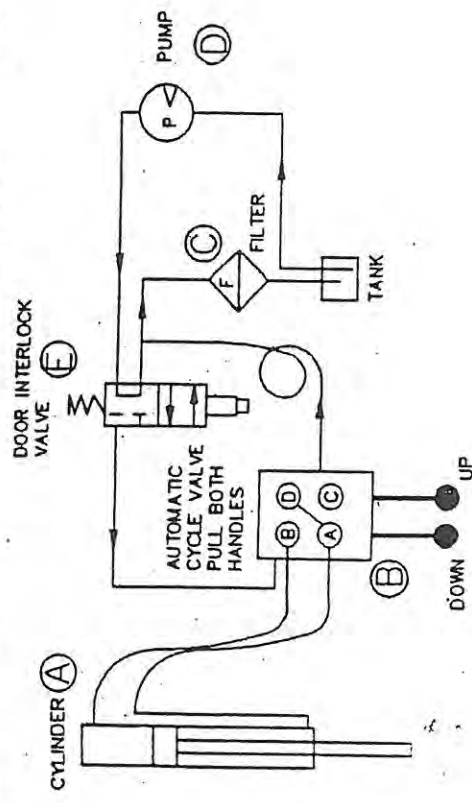
DOOR INTERLOCK VALVE AND LINKAGE

The safety door interlock valve is a hydraulic valve installed so the crusher cannot operate when the door is open. This interlock valve is adjusted at the factory. This valve can come out of adjustment after a lot of use. If this valve comes out of adjustment then your crusher will not cycle.

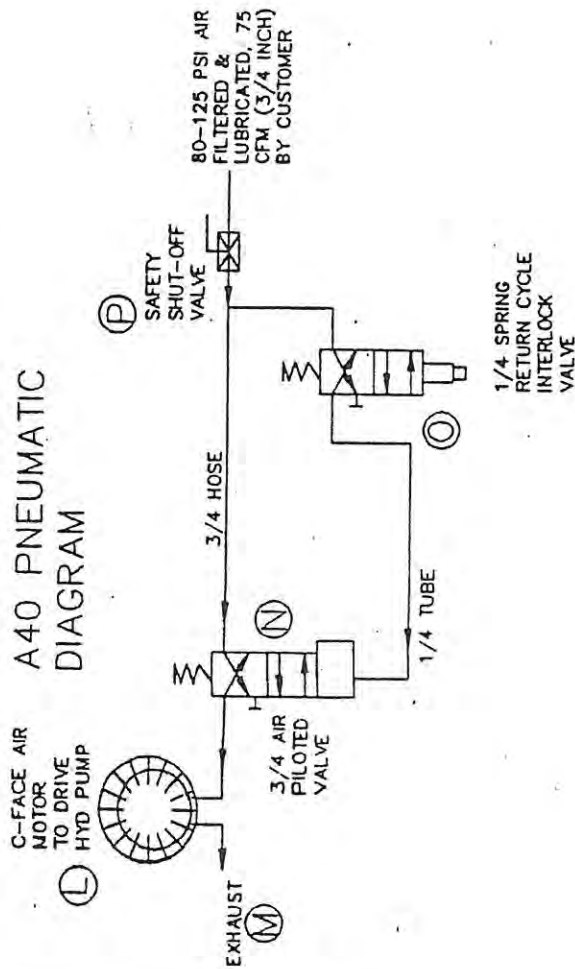
To adjust the door interlock valve you must adjust the door interlock linkage. You adjust the linkage with the two adjustable nuts on the threaded rod. (See drawing below.) Use two 9/16" wrenches to break the nuts apart. Now adjust the adjusting nuts down so when you close the door the valve cylinder moves up a 1/4". The valve cylinder is the silver part connected to the top of the threaded rod. Start the machine and try cycling it. If the machine cycles tighten the nuts together. If the machine doesn't cycle move the bottom nut down 2-3 turns and try cycling it again. If the machine still won't cycle call TeeMark at 800-428-9900 for help.



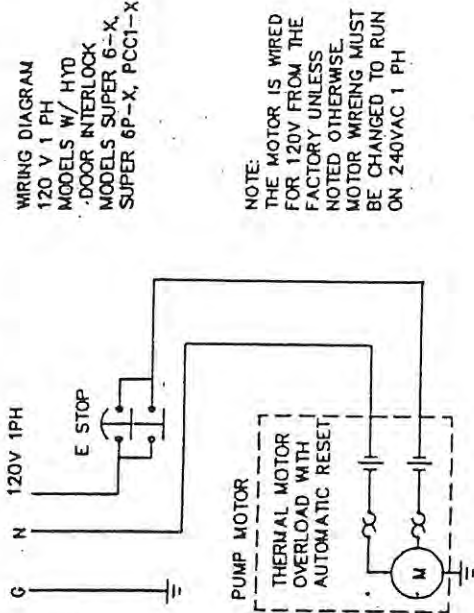
HYDRAULIC POWER SUPPLY WITH HYDRAULIC DOOR INTERLOCK VALVE



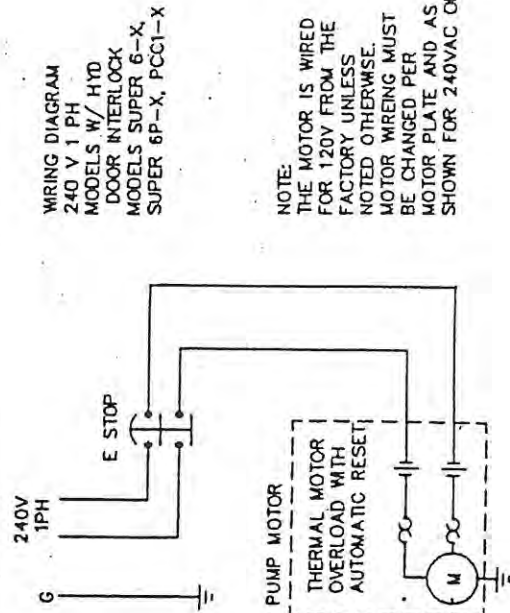
A40 PNEUMATIC DIAGRAM



1 PH ELECTRICAL DIAGRAM CLASS 1 GROUP D EXPLOSION PROOF



NOTE:
THE MOTOR IS WIRED
FOR 120V FROM THE
FACTORY UNLESS
NOTED OTHERWISE.
MOTOR WIRING MUST
BE CHANGED TO RUN
ON 240VAC 1 PH



NOTE:
THE MOTOR IS WIRED
FOR 120V FROM THE
FACTORY UNLESS
NOTED OTHERWISE.
MOTOR WIRING MUST
BE CHANGED PER
MOTOR PLATE AND AS
SHOWN FOR 240VAC OPERATION.

TEEMARK CORPORATION

WARRANTY

TeeMark manufactured products are warranted free of original defects in material and workmanship for a period of one year from the date of shipment to first user.

TeeMark's obligation is to repair or replace free of charge any part that its inspection shows to be defective. Except as it may otherwise specifically agree in writing, TeeMark shall not be liable for transportation, labor or other charges for adjustments, repairs, replacement parts, or other work which may be done upon or in connection with such products. TeeMark shall not be liable for loss of time, manufacturing costs, removal and installation costs, loss of profits, consequential damages, direct or indirect, because of defective products, whether due to rights arising under the contract of sale or independently thereof, and whether or not such claim is based on contract, tort or warranty.

Written permission for any warranty claim repair or return must be first obtained from authorized TeeMark personnel. Any part or parts of a product to be repaired or replaced under this warranty must be returned to the factory f.o.b.

Any modification to any TeeMark product without TeeMark's prior approval and consent, is at the user's sole risk and responsibility. TeeMark disclaims any and all liability, obligation, or responsibility for the modified product and for any claims, demands, or causes of action for damage or for personal injuries resulting from the modification and/or use of such a modified TeeMark product.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(This warranty voids all previous issues.)
(Effective Date: January 1, 1996)

DRUM CRUSHERS, WASTE COMPACTORS

Disposal of one drum of hazardous waste can cost up to \$1,000!

Compaction can reduce disposal volume and cost by 30-80%.

TeeMark manufactures a variety of drum crushers and drum packer/crushers. Our packer/crushers use up to 150,000 pounds of adjustable hydraulic force to crush drums as large as 110 gallons. They also pack waste material into drums. Special waste management features and/or options on these units include:



DRUM HOLD DOWN

Holds drum in place while compaction head is withdrawn from drum.

COMPACTION HEAD

Reaches into drum, forcing materials to the bottom.

REMOVABLE PALLET

Fork lift pockets in pallet allow easy handling of full drums.

LOCKABLE DOOR CHUTE

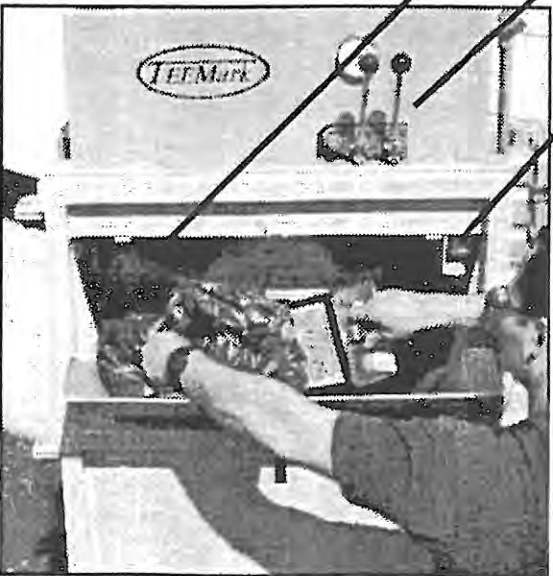
Allows material to be added to the collection drum without opening main door.

EXPLOSION-PROOF CONTROLS

Explosion-proof controls are standard and explosion-proof motors and motor controls are available.

INTERLOCK SAFETY

Door chute and main door are both equipped with safety interlocks. Unit will not operate while either door is open.



With the easily-attached crushing head in place, and up to 150,000 pounds of crushing force, these units can turn those drum liabilities into assets. Clean crushed drums are recyclable, and are a valuable commodity in the scrap market.

For more information, call us:

TOLL FREE 800/428-9900



CORPORATION

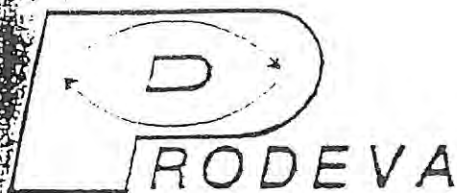
Aitkin, Minnesota 56431

1-800/428-9900

home page: <http://aitkin.com/teemark>

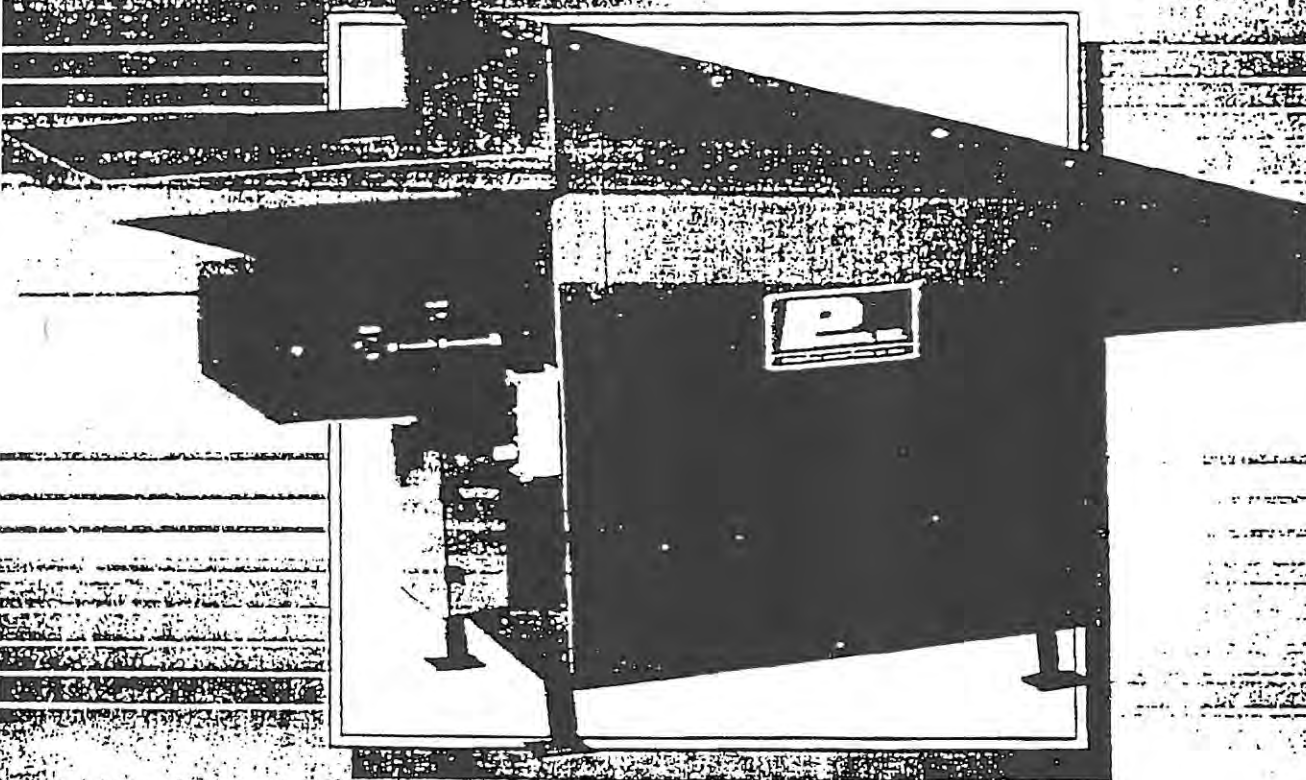
FAX 218/927-2333 • e-mail: teemark@aitkin.com

From half pints to 110 gallons, TeeMark Crushers help prepare containers and their contents for recycling or disposal. See other side for **can crushing** information.



CAN & GLASS CRUSHER

MODEL 270



► Rated capacities of Model 270:

- 2500 lbs. of Aluminum cans per hour
- 5000 lbs. of Steel cans per hour
- 15 tons of Glass per hour

► Safety engineered throughout.

► Factory direct parts and service.

► Overload compression springs to prevent jamming.

► Model 270 will crush cans and glass up to and including 5 gallon kegs.

A proven PRODEVA performer in our line for over 34 years. Unit is ideal for can manufacturers, recycling centers, bottlers and breweries. In fact anywhere glass containers, beverage cans or food containers are a problem. Model 270 is user friendly; easy to maintain and requires no change in machine set-up to crush cans or glass. Built for hard use and trouble-free operation with minimal maintenance or up-keep. Backed by PRODEVA's proven experience in manufacturing quality size-reduction equipment.

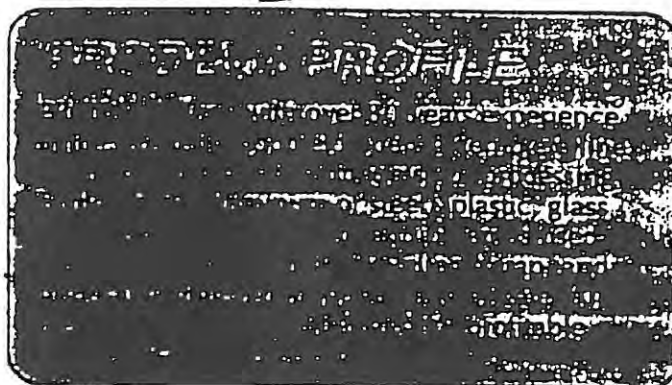
PRODEVA

Pusher MODEL 270

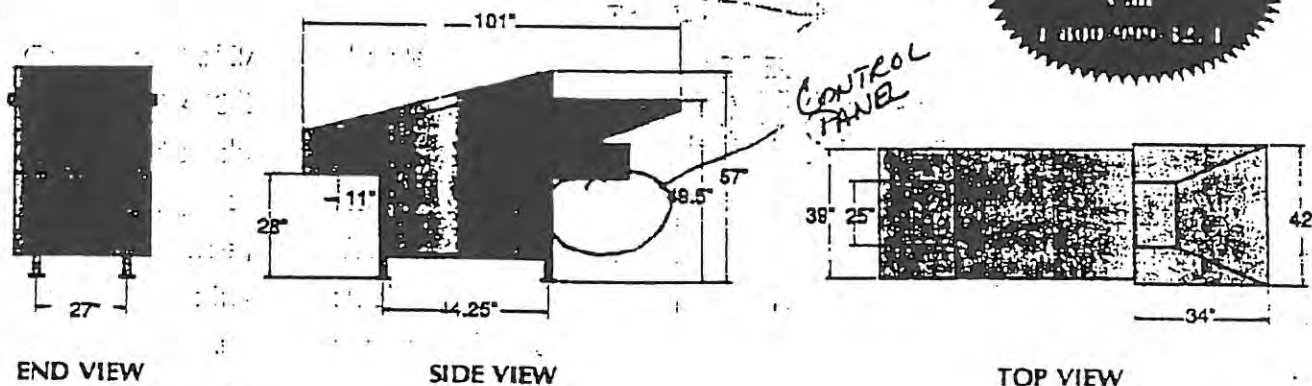
- Constructed of 3/8" steel plate
- 10 HP 230/460/60/3
- Infeed and discharge conveyors are available
- All moving parts enclosed
- Removable side panels for easy maintenance
- Crushes glass into recyclable cullet
- Flattens cans, and crushes plastic bottles
- Available with casters
- Available with blowers for aluminum and bi-metal cans

CONTROL PANEL

MODEL
270



STANDARD SPECIFICATIONS



Overnight
Parts Service
Call
1-800-999-3271

1 Year Written Warranty

All Prodeva brand equipment carries a warranty on workmanship and materials, provided equipment is used for its intended use and maintained properly.

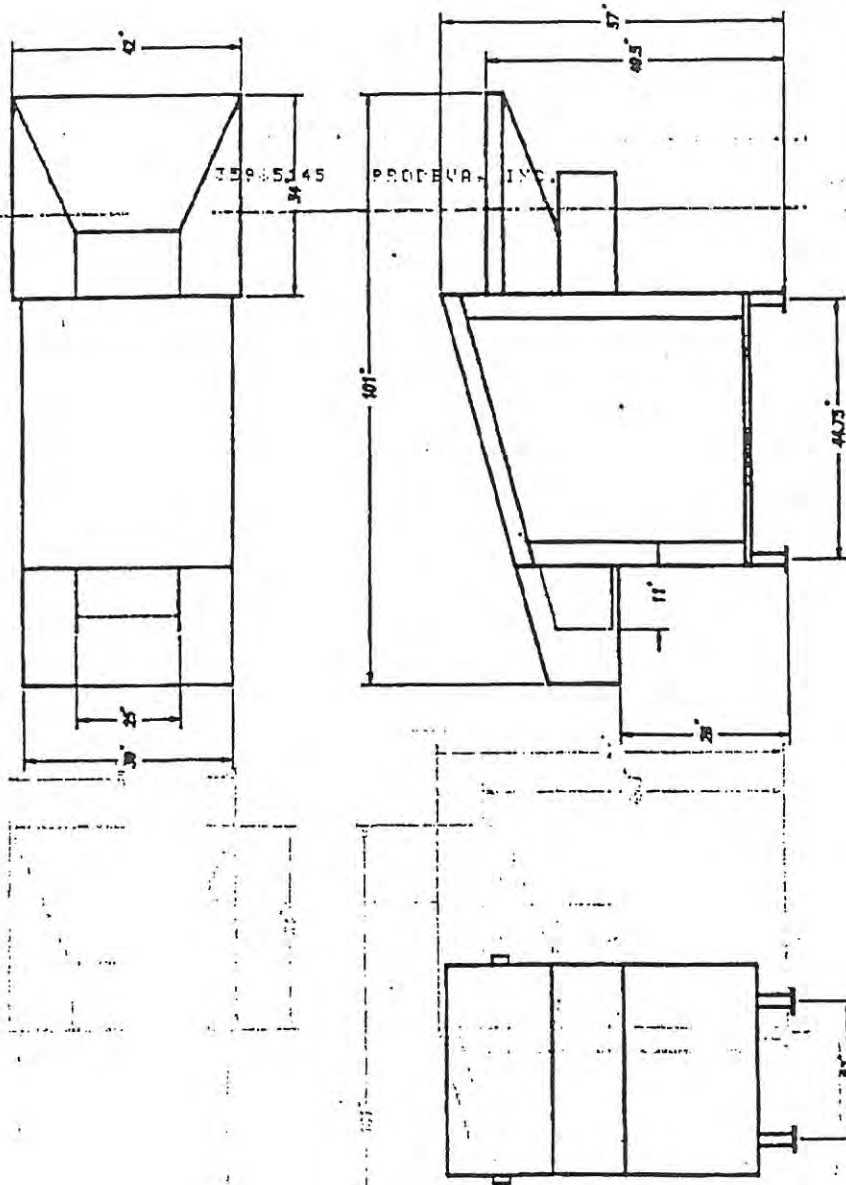
We reserve the right to repair or replace parts at our option. Ask for further details. Prodeva, Inc., also reserves the right to improve or alter products without prior notice.

Call Prodeva for help or further information.

Should you have any questions about the above Model's operating features and its suitability for your needs.



100 Jerry Drive, Jackson Center, Ohio 45334
Phones: 1-800-999-3271 FAX 513-596-5145
513-596-6713



DRAWER R		100 JERRY DRIVE		JACKSON CENTER, OHIO 45334	
ROBEA, INC.		270 DIMENSIONS		270	
DATE 11-18-91		BY SL		20	
270		270		270	

MANUAL OF INSTRUCTIONS FOR MODELS 250 & 270 PRODEVA CRUSHERS

"Prodeva" Model 250 or 270 Crusher has been thoroughly tested to the rigidification of all "Prodeva" products. By following these simple instructions, you will have a trouble free unit for many years to come.

ELECTRICAL:

Make the electrical connections to the magnetic starter with the proper sized wire for the full load current of the motor. Be sure the voltage supplied to the machine is the same voltage that is indicated on the nameplate. If the conveyor runs backward, when the Forward button is depressed, reverse any two leads in the starter.

ADJUSTABLE RESTRICTOR:

Set the opening above the conveyor (on the hopper end) high enough to permit an even flow of material through the crushing area of the machine. Too much material going through the machine at one time will jam the unit.

ADJUSTABLE CRUSHER PLATE:

All Model 250's & 270's are equipped with an adjustable crusher plate. This new feature permits you to set the discharge opening to the desired height. To adjust the discharge opening remove the bolts that hold the shaft to the crusher plate and add shims for less opening. Do not flatten material any more than necessary, as this puts an undue load on the machine.

CONVEYOR CLUTCH:

The conveyor clutch located at the discharge end of the conveyor should be tightened just tight enough to carry the load through the machine. The conveyor chain MUST BE ABLE TO STOP WHEN UNDER LOAD, and the crusher plate is in the down position. This means there will be intermittent stop-start of the conveyor chain when the clutch has the proper tension.

CONVEYOR CHAIN:

The conveyor chain should have approximately 1-1/2" of SAG on the bottom side. To adjust the conveyor, loosen the lock nut on the adjusting screw on the conveyor take-up unit. The take-up units are located at the hopper end of the crusher.

MAINTENANCE:

Remove the side covers of the machine and grease the bearings at least once a month. The bearings in the drive arms should be greased at least every ten (10) hours. The oil in the Gear Reducer should be changed every six (6) to eight (8) months or (2500) operational hours. Fill with SAE 140 Gear Oil.

THERMAL OVERLOAD PROTECTION:

When the machine is overloaded or jammed the motor will automatically shut off. The motor and controls are protected by Thermal Overload Heater Coils, located in the Magnetic Starter. In the event the motor does shut off, correct the cause of the overload and wait a few minutes until the starter has cooled, then the starter can be re-set by depressing the reset button located in the cover of the Magnetic Control.

ING:

When liquids are to be run through the crusher, leveling bolts should be used. The hopper end of the crusher should be slightly higher than the discharge end to insure proper drainage of the liquid.

CTIVE HINGED COVER:

When crushing glass, filled cans and aerosols, the hinged cover located at the discharge end of the crusher MUST be in the closed or down position for protection against splashing of liquids and flying fragments of glass.

ING:

When crushing cans or bottles with the contents the crusher should be cleaned at the end of the day with hot water, steam or a commercial solvent. The crusher chamber is sealed so that the machine can be cleaned in this manner. Care should be taken - DO NOT DIRECT A WATER SPRAY AT THE ELECTRICAL CONTROLS!

NG:

No solid material such as blocks of wood, iron bars, etc., should be fed into the crusher. This may cause damage to the crusher.

DEXTRITE®

Fluorescent Lamp Disposer with MERCURY APOR CONTROL

For a safer, faster and more efficient
way in lamp disposal maintenance.

TURING... a new exclusive, patented filter system that
traps toxic mercury vapor gases in a disposable filter cartridge.

Disposes of 4 & 8-ft. lamps
T-12, 40 and 90 watt sizes.

Processes 25, 4-ft. lamps per minute.

Telescoping feed tube

fully houses a 4-ft. lamp before it is crushed.

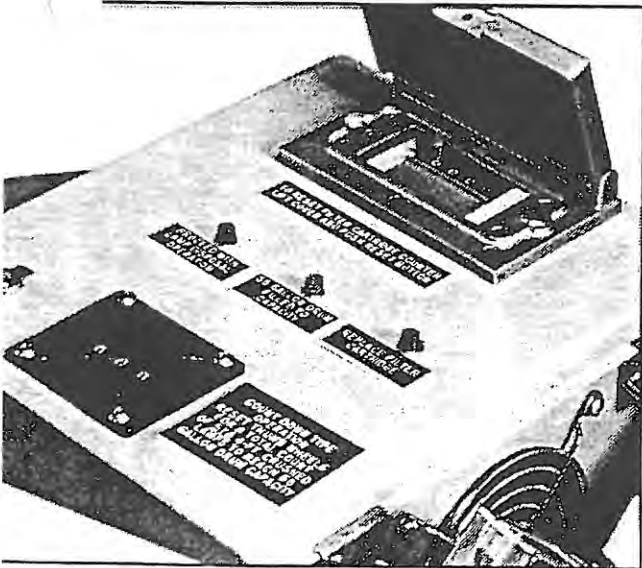
High filter cartridge efficiency rate.

Handles up to 2400 mixed 4 & 8-ft. lamps before
changing filter cartridge.

Built to withstand impact and abrasion,
designed for heavy-duty use.

Handling weight 40 pounds
without filter carriage.

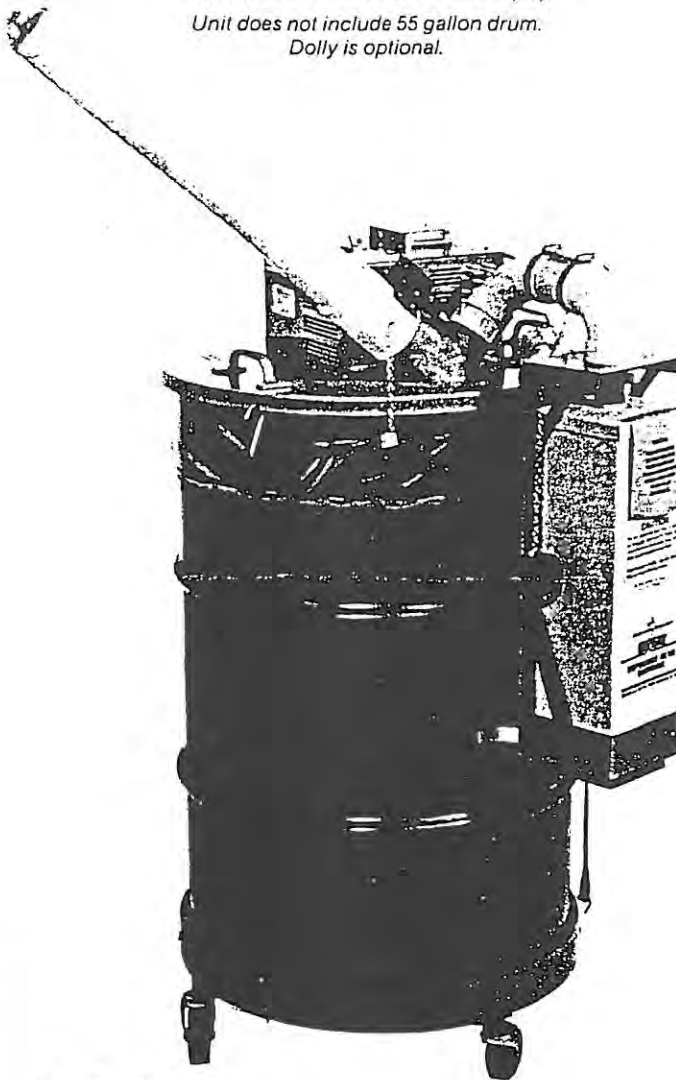
UL & CSA approved electrical components.



Dextrite LC-55FDA Disposer includes a Predetermined
(Filter) Counter featuring automatic motor shut-off when a
preset count of 2400 mixed 4 & 8-ft. lamps have been
disposed of. A push button reactivates motor, resets counter
for new count-up operation. A red and green Neon Lamp,
a Buzzer Alarm, alerts operator to change filter cartridge
when to proceed with lamp disposal operation. A Fan
alarm is controlled by ON/OFF Toggle Switch.

(Drum) Counter features Thumb Wheel
Count-down operation, with amber Neon Lamp and
Buzzer Alarm to alert operator when 55 gallon drum is filled to
capacity.

Fits over 55 gallon drum
(Holds 576 4-ft. Crushed Lamps).
Unit does not include 55 gallon drum.
Dolly is optional.



Specifications

Model	LC-55FDA
Feed Tube Opening	2 1/2" dia.; Feed Tube Insert 1 3/8" dia.
(Filter) Counter	Predetermined, Push Button Reset. (Count-Up Operation)
(Drum) Counter	Predetermined, Thumb Wheel Reset. (Count-Down Operation)
Dimensions	24" x 24" dia. x 4"H
Weight	40 Lbs. Handling Weight (Without Filter Carriage)
Power Requirements	115V, 60 Hz

Accessories:	Part No.:
Disposable Filter Cartridge (Filters 2400 mixed 4 & 8-ft. lamps)	F-55
Disposable Poly-Sleeve (Traps mercury vapor in the drum during drum change)	PS-55
Dolly (For 55 Gallon Drum).	D-55

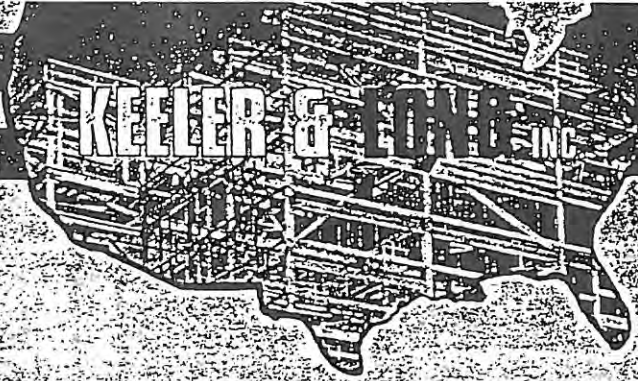
Specifications subject to change without notice.

DISTRIBUTED BY

DEXTRITE**Dextrite, Inc.**

P.O. Box 18426, Rochester, N.Y. 14618 • (716) 436-7015

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WESTERN OFFICE:
P. O. Box 964
Solana Beach, CA 92075
Tel (619) 481-3777
Fax (619) 481-3236

HEADQUARTERS:
P. O. Box 460
856 Echo Lake Road
Watertown, CT 06795
Tel (203) 274-6701
Fax (203) 274-5857

KOLOR-POXY PRIMER/SEALER

No. 5129

GENERIC TYPE: EPOXY/AMIDO-AMINE

PRODUCT DESCRIPTION: A 100% solids, two component, non-pigmented epoxy primer/sealer.

RECOMMENDED USES: Designed to seal rough, etched, or blasted concrete surfaces.

NOT RECOMMENDED FOR: Patching holes or cracks.

COMPATIBLE TOPCOATS:

- Kolor-Poxy Self-Leveling Floor Coating
- Kolor-Poxy Self-Priming Surfacing Enamel
- Kolor-Poxy Primers and Enamels
- Hydro-Poxy Primers and Enamels
- Vinyl-Latex
- Kolormastic
- Tri-Polar Silicone Enamels
- Kolor-Sil Enamels
- Poly-Silicone Enamels

PRODUCT CHARACTERISTICS:

Solids by Volume:	100%
Solids by Weight:	100%
Recommended	
Dry Film Thickness:	1.5 - 2.5 mils
Theoretical Coverage:	800 Sq. Ft./Gallon @ 2.0 mils dft
Finish:	NA
Available Colors:	Clear Amber
Drying Time @ 72°F	
To Touch:	12 Hours
To Handle:	12 Hours
To Recoat:	12-24 Hours
VOC Content:	0.0 Pounds/Gallon 0.0 Grams/Liter

January, 1991

TECHNICAL BULLETIN

TECHNICAL DATA

PHYSICAL DATA:

Weight per gallon: 8.8 ± 0.2 (pounds)
 Flash Point (Pensky-Martens): > 200°F
 Shelf Life: 2 Years
 Pot Life @ 72°F: 45 Minutes
 Temperature Resistance: 200°F
 Viscosity @ 77°F: 66 ± 5 (Krebs Units)
 Gloss (60° meter): NA
 Storage Temperature: 50 - 85°F
 Mixing Ratio (Approx. by Volume): 3:2

APPLICATION DATA:

Application Procedure Guide: APG-6
 Wet Film Thickness Range: 1.5 - 2.5 mils
 Dry Film Thickness Range: 1.5 - 2.5 mils
 Temperature Range: 50 - 85°F
 Relative Humidity: 80% Maximum
 Substrate Temperature: Dew Point + 5°F
 Minimum Surface Preparation: Clean, Dry, No
 Contaminants with
 surface profile
 of 80 grit sandpaper
 Induction Time @ 72°F: None
 Recommended Solvent: None. Normally Required

Application Methods

Airless Spray
 Tip Size: .009" - .015"
 Pressure: 1500 - 2500 PSIG
 Thin: Not Recommended

Brush or Roller
 Thin: Not Recommended

KEELER & LONG INC.

P. O. Box 460, 856 Echo Lake Road

Watertown, CT 06795

Tel: (203) 274-6701 Fax: (203) 274-5857



This information is presented as accurate and correct, in good faith, to assist the user in specification and application. No warranty is expressed or implied. No liability is assumed. Product specifications are subject to change without notice.



SUSTAINING MEMBER

WESTERN OFFICE:
P. O. Box 964
Solana Beach, CA 92075
Tel (619) 481-3777
Fax (619) 481-3236

HEADQUARTERS:
P. O. Box 460
856 Echo Lake Road
Watertown, CT 06795
Tel (203) 274-6701
Fax (203) 274-5857

KOLOR-POXY SELF-LEVELING FLOOR COATING No. 5500 SERIES

GENERIC TYPE: EPOXY/AMINE

PRODUCT DESCRIPTION: A high solids, two component epoxy enamel floor coating for interior use in a multitude of industrial applications.

RECOMMENDED USES: As a floor coating where a smooth, high gloss, durable and/or decontaminable surface is required. May be used on concrete floors, steel decking or embeds.

NOT RECOMMENDED FOR: Exterior service; splash and spillage of strong acids; patching of holes.

COMPATIBLE UNDERCOATS: Kolor-Poxy Primer/Sealer
Kolor-Poxy Clear Sealer
Kolor-Poxy Primers and Enamels

PRODUCT CHARACTERISTICS:

Solids by Volume:	98 ± 1%
Solids by Weight:	99 ± 1%
Recommended	
Dry Film Thickness:	15 - 125 mils
Theoretical Coverage:	63 Sq. Ft./Gallon @ 25 mils DFT
Finish:	Gloss
Available Colors:	White, Gray, Beige, Russet, Red Oxide (Special colors available on request)
Drying Time @ 72°F	
To Touch:	5 Hours
To Recoat:	12 Hours
Light Traffic:	24 Hours
Heavy Traffic:	72 Hours
VOC Content:	<0.35 Pounds/Gallon <42 Grams/Liter

April, 1991

TECHNICAL DATA

PHYSICAL DATA:

Weight per gallon:	11.8 ± 0.5 (pounds)
Flash Point (Pensky-Martens):	> 110° F
Shelf Life:	1 Year
Pot Life @ 72° F:	20 Minutes
Temperature Resistance:	200° F
Viscosity @ 77° F:	116 ± 5 (Krebs Units)
Gloss (60° meter):	90 ± 5
Storage Temperature:	50 - 85° F
Mixing Ratio (Approx. by Volume):	2.1:1

APPLICATION DATA:

Application Procedure Guide:	APG-6
Wet Film Thickness Range:	35 - 125 mils
Dry Film Thickness Range:	34 - 122 mils
Temperature Range:	59 - 85° F
Relative Humidity:	85% Maximum
Substrate Temperature:	Dew Point + 5° F
Minimum Surface Preparation:	Sealed; Clean, Dry, No Contaminants
Induction Time @ 72° F:	None
Recommended Solvent:	None Required

Application Methods

For detailed application method, see APG-6.

KEELER & LONG inc.

P. O. Box 460, 856 Echo Lake Road
Watertown, CT 06795

Tel: (203) 274-6701 Fax: (203) 274-5857



This information is presented as accurate and correct, in good faith, to assist the user in specification and application. No warranty is expressed or implied. No liability is assumed. Product specifications are subject to change without notice.



SUSTAINING MEMBER

5500-SERIES
KOLOR-POXY SELF-LEVELING FLOOR COATING

MSDS Number	065
Revision Number	07
Revision Date	01/26/93

Please note that this product is covered by three (3) Material Safety Data Sheets. The first sheet (distinguished by the MSDS Number followed by the letter A) identifies Part A of this two (2) component product. Similarly, the second sheet covers Part B, and the third sheet covers the product as it would be used for application.

This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Pursuant with section G(xii)(4) of this Standard, a "family" MSDS has been prepared where the mixtures have similar hazards and contents, even though the specific compositions vary.

Chemicals which are subject to SARA Title III Section 313 Annual Release Reporting have been listed and identified as required.

Keeler & Long
Regulatory Compliance

MATERIAL SAFETY DATA SHEET

KEELER & LONG, INC.
356 ECHO LAKE ROAD
P. O. BOX 460
WATERTOWN, CT 06795

Information Phone
(203) 274-6701

MSDS Number 065-A
Revision Number 07
Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME: 5500 KOLOR-POXY SELF-LEVELING
FLOOR COATING
(Part A only)

CHEMICAL FAMILY: Epoxy

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT	OSHA TWA	ACGIH TLV*	CAS NUMBER	PERCENTAGE RANGE (wt)
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Hazardous Ingredients

Modified Diglycidyl Ether of Bisphenol A	NE	NE	25068-38-6	50 - 60
Silicon Dioxide (1)(4)	0.1 mg/m ³ (3)	0.1 mg/m ³ (3)	7631-86-9 and/or 14808-60-7	10 - 20
Magnesium Silicate (Talc) (1)	2 mg/m ³ (3)	2 mg/m ³ (3)	14807-96-6	10 - 20
Titanium Dioxide (1)	10 mg/m ³	10 mg/m ³	13463-67-7	10 - 20
Barium Sulfate (1)(2)	0.5 mg/m ³ as Ba	0.5 mg/m ³ as Ba	7727-43-7	1 - 5

This product may contain (depending on color):

Xylene (2)	100 ppm	100 ppm	1330-20-7	<2
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SECTION 3 PHYSICAL DATA

BOILING POINT:	(solvent) NA
VAPOR PRESSURE:	(solvent) NA
VAPOR DENSITY: (air = 1)	(solvent) NA
SOLUBILITY IN WATER:	Negligible
APPEARANCE / ODOR:	Ester-like odor Semi-Paste Limited Colors
WEIGHT/GAL.	13.5 ± 0.5 lbs.
PERCENT VOLATILE: (by weight)	1 ± 1%
EVAPORATION RATE: (BuAcc = 1) (Solvent)	NA

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS:	Combustible Liquid
FLASH POINT PMCC °F):	> 110°F
FLAMMABLE LIMITS: (solvent) LEL: NE	UEL: NE
EXTINGUISHING MEDIA:	Foam, Carbon Dioxide, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:	Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire. Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Fire hazard in the form of vapor when exposed to extreme heat or open flame.

Footnotes

(C) = Ceiling Value
NA = Not Applicable
NE = Not Evaluated
* = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected for dusts are "wetted-up" in the product.
(2) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.
(7) = Exposure limits have not been established for this chemical. A closely related compound, Propylene Glycol Monomethyl Ether (CAS# 107-98-2) has an OSHA TWA of 100 ppm and an ACGIH TLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

SECTION 5 HEALTH HAZARD DATA

LD LIMIT VALUE: See Section 2

OF OVEREXPOSURE:

May cause skin or eye irritation, contact dermatitis. May be absorbed through skin. Inhalation of high vapor concentrations may have results ranging from headaches and dizziness to unconsciousness, may cause CNS Depression, may irritate respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

IC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the pulmonary system.

CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting skin and eye disorders may be aggravated.

ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion, etc.

SYMPTOMS AND FIRST AID PROCEDURES:

IN: Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

INGESTION: Dilute with large amounts of water or milk. **DO NOT INDUCE VOMITING.**

NOGENTICITY: None of the chemicals used in this product have been listed by either ACGIH, IARC, OSHA, or NTP as cancer causing agents.

SECTION 6 REACTIVITY DATA

STABILITY: STABLE

TO AVOID: Keep away from heat, sparks, open flame. Acids or bases in bulk.

COMPATIBILITY: Strong oxidants. May dissolve some plastics and rubbers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Aldehydes

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions of use.

SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all sources of ignition. Dike large spills and pump into salvage tank. Work with suitable material. Keep unnecessary personnel away, and breathing vapors. Ventilate enclosed areas - open windows.

WASTE DISPOSAL METHOD: Dispose in accordance with local, state, or federal regulations. For further information, contact your state or local solid waste agency or the U.S. EPA RCRA Hotline (800-424-9346)

SECTION 8 SPECIAL PROTECTION INFORMATION

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:
*May be absorbed through the skin.

RESPIRATORY:

1. In outdoor or open areas with unrestricted ventilation - Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.
2. In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and particulates.
3. In confined areas - Approved air-supplied type respirators.

VENTILATION: Local exhaust. Explosion proof equipment - No Smoking.

PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended.

OTHER PROTECTIVE EQUIPMENT: Clean, long legged, long sleeved work clothes.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. **Do Not Work Alone! Keep Away From Children!**

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH: 2
FLAMMABILITY: 1
REACTIVITY: 0

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

MATERIAL SAFETY DATA SHEET

KEELER & LONG, INC.
356 ECHO LAKE ROAD
P. O. BOX 460
WATER TOWN, CT 06795

Information Phone
(203) 274-6701

MSDS Number 065-B
Revision Number 07
Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME: 5500 KOLOR-POXY SELF-LEVELING FLOOR COATING (Part B only) CHEMICAL FAMILY: Amine

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT	OSHA TWA	ACGIH TLV*	CAS NUMBER	PERCENTAGE RANGE (wt)
Modified Amines	NE	NE	Proprietary	70 - 80
Benzyl Alcohol	NE	NE	100-51-6	20-30
Phenol (2)	5 ppm (skin)	5 ppm (skin)	108-95-2	<2.0

SECTION 3 PHYSICAL DATA

BOILING POINT: >200°C
VAPOR PRESSURE: NA
VAPOR DENSITY: NA
(air = 1)
SOLUBILITY IN WATER: Miscible
APPEARANCE / ODOR: Mild Amine Odor
Clear Liquid
WEIGHT/GAL: 8.3 lbs.
PERCENT VOLATILE: nil
(by weight)
EVAPORATION RATE: NA
(BuAcc = 1)
(Solvent)

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS: Paint, 8, UN 1760
(eye/skin corrosive only)
PG-III
Corrosive Liquid
FLASH POINT (PMCC °F): >200°F
FLAMMABLE LIMITS:
(solvent) LEL: UEL: NA
EXTINGUISHING MEDIA: Foam, Carbon
Dioxide, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Treat as gasoline or oil fire; water in solid hose
stream will tend to scatter liquid and spread fire.
Cool exposed equipment and containers with water.
Use air supplied equipment for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Fire hazard in the form of vapor when exposed to
extreme heat or flame.

Footnotes

(C) = Ceiling Value
NA = Not Applicable
NE = Not Evaluated
* = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected since dusts are "wetted-up" in the product.
(2) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.
(7) = Exposure limits have not been established for this chemical. A closely related compound, Propylene Glycol Monomethyl Ether (CAS# 107-98-2) has an OSHA TWA of 100 ppm and an ACGIH TLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

SECTION 5 HEALTH HAZARD DATA

HOLD LIMIT VALUE: See Section 2

EFFECTS OF OVEREXPOSURE:

May be corrosive to skin and eyes, may be absorbed through the skin. May cause reversible eye damage. Inhalation of high vapor concentrations may have results ranging from headaches and dizziness to unconsciousness, may cause CNS Depression, may irritate respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

TOXIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the pulmonary system. May be sensitizer.

ADDITIONAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting skin and eye disorders may be aggravated.

PRIMARY ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion, Contact

AGENCY AND FIRST AID PROCEDURES:

First Aid: Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

Eyes: Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

Ingestion: Dilute with large amounts of water or milk. **DO NOT INDUCE VOMITING.**

MUTAGENICITY: None of the chemicals used in this product have been listed by either ACGIH, IARC, OSHA, or NTP as cancer causing agents.

SECTION 6 REACTIVITY DATA

STABILITY: STABLE

HAZARD TO AVOID: Keep away from extreme heat, sparks, open flames.

COMPATIBILITY: Strong oxidants. May dissolve some plastics and rubbers. Avoid epoxy resins under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Aldehydes, Nitrogen Oxides

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions of use.

SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all sources of ignition. Dike large spills and pump into salvage tank. Absorb with suitable material. Keep unnecessary personnel away. Avoid breathing vapors. Ventilate enclosed areas - open windows.

WASTE DISPOSAL METHOD: Dispose in accordance with local, state, and federal regulations. For further information, contact your state or local solid waste agency or the U.S. EPA RCRA Hotline (800-424-9346)

SECTION 8 SPECIAL PROTECTION INFORMATION

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

1. In outdoor or open areas with unrestricted ventilation - Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.
2. In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and particulates.
3. In confined areas - Approved air-supplied type respirators.

VENTILATION: As necessary to keep exposure levels to a minimum. *No Smoking.*

PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended.

OTHER PROTECTIVE EQUIPMENT: Clean, long legged, long sleeved work clothes.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from extreme heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. *Do Not Work Alone! Keep Away From Children!*

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPGA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH:	2 corrosive to skin/eyes
FLAMMABILITY:	1
REACTIVITY:	0

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

MATERIAL SAFETY DATA SHEET

KEELER & LONG, INC.
856 ECHO LAKE ROAD
O. BOX 460
TOWN, CT 06795

Information Phone
(203) 274-6701

MSDS Number 065-AB
Revision Number 07
Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME: **5500 KOLOR-POXY SELF-LEVELING FLOOR COATING (Parts A + B)** CHEMICAL FAMILY: **Epoxy/Amine**

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT	OSHA TWA	ACGIH TLV*	CAS NUMBER	PERCENTAGE RANGE (wt)
<u>Hazardous Ingredients</u>				
Modified Diglycidyl Ether of Bisphenol A	NE	NE	25068-38-6	40 - 50
Silicon Dioxide (1)(4)	0.1 mg/m ³ (5)	0.1 mg/m ³ (3)	7631-86-9 and/or 14808-60-7	10 - 20
Modified Amines	NE	NE	Proprietary	10 - 20
Magnesium Silicate (Talc) (1)	2 mg/m ³ (3)	2 mg/m ³ (3)	14807-96-6	5 - 10
Titanium Dioxide (1)	10 mg/m ³	10 mg/m ³	13463-67-7	5 - 10
Barium Sulfate (1)(2)	0.5 mg/m ³ as Ba	0.5 mg/m ³ as Ba	7727-43-7	1 - 5
Benzyl Alcohol	NE	NE	100-51-6	5 - 10
<u>This product may contain (depending on color):</u>				
nc (2)	100 ppm	100 ppm	1330-20-7	<2.0

SECTION 3 PHYSICAL DATA

BOILING POINT: (solvent) NA
VAPOR PRESSURE: (solvent) NA
VAPOR DENSITY: (solvent) NA
(air = 1)
SOLUBILITY IN WATER: Negligible
APPEARANCE / ODOR: Ester-like odor
Liquid Paint
Limited Colors
WEIGHT/GAL: 11.8 ± 0.5 lbs.
PERCENT VOLATILE: 1 ± 1%
(by weight)
EVAPORATION RATE: NA
(BuAce = 1)
(Solvent)

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS: Combustible Liquid
FLASH POINT (PMCC °): >110°F
FLAMMABLE LIMITS:
(solvent) LEL: NA UEL: NE
EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire. Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Fire hazard in the form of vapor when exposed to extreme heat or open flame.

Footnotes

(C) = Ceiling Value
NA = Not Applicable
NE = Not Evaluated
* = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected since dusts are "wetted-up" in the product.
(2) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.
(7) = Exposure limits have not been established for this chemical. A closely related compound, Propylene Glycol Monomethyl Ether (CAS# 107-98-2) has an OSHA TWA of 100 ppm and an ACGIH TLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

SECTION 5 HEALTH HAZARD DATA

OLD LIMIT VALUE: See Section 2

S OF OVEREXPOSURE:

May be corrosive to skin and eyes, may be absorbed through skin. Inhalation of high vapor concentrations have results ranging from headaches and dizziness to unconsciousness, may cause CNS Depression, may irritate respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

NIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the mucous membranes and/or pulmonary system.

CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting skin and eye disorders may be aggravated.

RY ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion, Contact.

EMERGENCY AND FIRST AID PROCEDURES:

on: Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

ion: Dilute with large amounts of water or milk. **DO NOT INDUCE VOMITING.**

INOGENICITY: None of the chemicals used in this product have been listed by either ACGIH, IARC, OSHA, or NTP as cancer causing agents.

SECTION 6 REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: Keep away from heat, sparks, open flame.

REACTIVITY: Strong oxidants. May dissolve some plastics and rubbers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Aldehydes, Nitrogen Oxides and compounds

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions of use.

WARNING: The curing process is an exothermic reaction. When mixed product is close to the end of its pot life, heat may be generated.

SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all sources of ignition. Dike large spills and pump into salvage tank. Cover with suitable material. Keep unnecessary personnel away, and breathing vapors. Ventilate enclosed areas - open windows.

WASTE DISPOSAL METHOD: Dispose in accordance with local, state, and federal regulations. For further information, contact your state or local solid waste agency or the U.S. EPA RCRA Hotline (800-424-9346)

SECTION 8 SPECIAL PROTECTION INFORMATION

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

1. In outdoor or open areas with unrestricted ventilation - Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.
2. In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and particulates.
3. In confined areas - Approved air-supplied type respirators.

VENTILATION: Local exhaust. Explosion proof equipment - No Smoking.

PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended.

OTHER PROTECTIVE EQUIPMENT: Clean, long legged, long sleeved work clothes.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. *Do Not Work Alone! Keep Away From Children!*

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH: 3 (corrosive to skin & eyes)

FLAMMABILITY: 1

REACTIVITY: 0

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

5129
KOLOR-POXY PRIMER/SEALER

MSDS Number	070
Revision Number	04
Revision Date	01/26/93

Please note that this product is covered by three (3) Material Safety Data Sheets. The first sheet (distinguished by the MSDS Number followed by the letter A) identifies Part A of this two (2) component product. Similarly, the second sheet covers Part B, and the third sheet covers the product as it would be used for application.

This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Pursuant with section G(xii)(4) of this Standard, a "family" MSDS has been prepared where the mixtures have similar hazards and contents, even though the specific compositions vary.

Chemicals which are subject to SARA Title III Section 313 Annual Release Reporting have been listed and identified as required.

Keeler & Long
Regulatory Compliance

KEELER & LONG

Box 460, Watertown, Conn. 06795, Tel. (203) 274-6701

MATERIAL SAFETY DATA SHEET

KEELER & LONG, INC.
356 ECHO LAKE ROAD
P. O. BOX 460
MERTOWN, CT 06795

Information Phone
(203) 274-6701

MSDS Number 070-A
Revision Number 04
Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME: #5129 KOLOR-POXY PRIMER/SEALER CHEMICAL FAMILY: Epoxy
Part A only

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT	OSHA TWA	ACGIH TLV*	CAS NUMBER	PERCENTAGE RANGE (wt)
Alkyd Glycidyl Ethers	NE	NE	686909-97-2	15 - 25
Bisphenol A	NE	NE	25068-38-6	75 - 85
Diglycidyl Ether Resin				

SECTION 3 PHYSICAL DATA

BOILING POINT: (solvent) NA
VAPOR PRESSURE: (solvent) NA
VAPOR DENSITY: (solvent) NA
(air = 1)
SOLUBILITY IN WATER: Negligible
APPEARANCE / ODOR: Ester-like odor
Clear Pale Yellow
WEIGHT/GAL: 9.2 ± 0.5 lbs.
PERCENT VOLATILE: Nil
(by weight)
EVAPORATION RATE: NA
(BuAcc = 1)
(Solvent)

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS: NA
FLASH POINT (PMCC °F): > 200°
FLAMMABLE LIMITS:
(solvent) LEL: NE UEL: NE
EXTINGUISHING MEDIA: Foam, Carbon
Dioxide, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Treat as gasoline or oil fire; water in solid hose
stream will tend to scatter liquid and spread fire.
Cool exposed equipment and containers with water.
Use air supplied equipment for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Decomposition and combustion products may be
toxic.

Footnotes

(C) = Ceiling Value
NA = Not Applicable
NE = Not Evaluated
* = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected since dusts
are "wetted-up" in the product.
(2) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.
(7) = Exposure limits have not been established for this chemical. A closely
related compound, Propylene Glycol Monomethyl Ether
(CAS# 107-98-2) has an OSHA TWA of 100 ppm and an
ACGIH TLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

SECTION 5 HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section 2

EFFECTS OF OVEREXPOSURE:

ACUTE: May be skin and eye irritant. May cause reversible eye damage. May be sensitizer. Inhalation of high vapor concentrations may have results ranging from headaches and dizziness to unconsciousness, may cause CNS Depression, may irritate respiratory system. Can be fatal if ingested in large quantities.

CHRONIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the skin, and/or pulmonary system. Chronic overexposure to Xylenes have been shown to cause adverse effects to the liver, kidneys, and or blood. May be sensitizer.

ADDITIONAL CONDITIONS PRONE TO AGGRAVATION BY OVEREXPOSURE: Preexisting liver, kidney, skin and eye disorders may be aggravated.

PRIMARY ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion.

EMERGENCY AND FIRST AID PROCEDURES:

Evacuation: Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

Eyes: Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash: Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

Ingestion: Dilute with large amounts of water or milk. **DO NOT INDUCE VOMITING.**

Notes: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage and possible liver and kidney damage. Potential misuse by deliberately concentrating and inhaling the contents may be **HARMFUL** or **FATAL**.

MUTAGENICITY:

Carbon Dioxide: The IARC determined that there is sufficient evidence of carcinogenicity of crystalline silica to experimental animals and that there is limited evidence of the carcinogenicity of crystalline silica to humans. This health risk is from prolonged excessive exposure to the dust. No exposure to crystalline silica is expected since the dust is "dust-free" in the product.

SECTION 6 REACTIVITY DATA

Stability: STABLE

Conditions to Avoid: Keep away from extreme heat, sparks, open flame.

Compatibility: Strong oxidants. May dissolve some plastics and rubber.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide

Hazardous Polymerization: Will not occur.

SECTION 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is spilled: Eliminate all sources of ignition. Dike large spills and pump into salvage tank. Absorb with suitable material. Keep unnecessary personnel away. Avoid breathing vapors. Ventilate enclosed areas - open windows.

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. For further information, contact your state or local solid waste agency or the U.S. EPA RCRA Hotline -800-424-9346)

SECTION 8 SPECIAL PROTECTION INFORMATION

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

1. In outdoor or open areas with unrestricted ventilation - Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.
2. In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and particulates.
3. In confined areas - Approved air-supplied type respirators.

VENTILATION: As necessary to keep exposure levels to a minimum. No Smoking.

PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended.

OTHER PROTECTIVE EQUIPMENT: Clean, long legged, long sleeved work clothes.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from extreme heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. *Do Not Work Alone! Keep Away From Children!*

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NIOSH classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH:	2
FLAMMABILITY:	2
REACTIVITY:	0

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

MATERIAL SAFETY DATA SHEET

KEELER & LONG, INC.
356 ECHO LAKE ROAD
P. O. BOX 460
WATER TOWN, CT 06795

Information Phone
(203) 274-6701

MSDS Number 070-B
Revision Number 04
Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME: #5129 KOLOR-POXY PRIMER/SEALER Part B only CHEMICAL FAMILY: Amido-Amine

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT	OSHA TWA	ACGIH TLV*	CAS NUMBER	PERCENTAGE RANGE (wt)
Amido-Amine Resin	NE	NE	Proprietary	55 - 65
Benzyl Alcohol	NE	NE	100-51-6	35 - 45

SECTION 3 PHYSICAL DATA

BOILING POINT: (solvent) > 200°F
VAPOR PRESSURE: (solvent) NA
VAPOR DENSITY: (solvent) NA
(air = 1)
SOLUBILITY IN WATER: Nil
APPEARANCE / ODOR: Mild Amine Odor
Clear Amber Liquid
WEIGHT/GAL: 8.0 ± 0.2 lbs.
PERCENT VOLATILE: Nil
(by weight)
EVAPORATION RATE: NA
(BuAcc = 1)
(Solvent)

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS: NA
FLASH POINT (PMCC °F): > 200°
FLAMMABLE LIMITS:
(solvent) LEL: NE UEL: NE
EXTINGUISHING MEDIA: Foam, Carbon
Dioxide, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Treat as gasoline or oil fire; water in solid hose
stream will tend to scatter liquid and spread fire.
Cool exposed equipment and containers with water.
Use air supplied equipment for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Decomposition and combustion products may be
toxic.

Footnotes

(C) = Ceiling Value
NA = Not Applicable
NE = Not Evaluated
* = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected since dusts
are "wetted-up" in the product.
(-) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.
(7) = Exposure limits have not been established for this chemical. A closely
related compound, Propylene Glycol Monomethyl Ether
(CAS# 107-98-2) has an OSHA TWA of 100 ppm and an
ACGIH TLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

SECTION 5 HEALTH HAZARD DATA

OLD LIMIT VALUE: See Section 2

OF OVEREXPOSURE:

May be corrosive to skin and eyes, may be absorbed through the skin. Inhalation of high vapor concentrations have results ranging from headaches and dizziness to unconsciousness, may cause CNS Depression, may irritate respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

NIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the mucous membranes and/or pulmonary system.

CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting skin and eye disorders may be aggravated.

PRINCIPAL ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion.

PREVENTION AND FIRST AID PROCEDURES:

First Aid: Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

First Aid: Dilute with large amounts of water or milk. **DO NOT INDUCE VOMITING.**

MUTAGENICITY: None of the chemicals used in this product have been listed by either ACGIH, IARC, OSHA, or NTP as cancer causing agents.

SECTION 6 REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: Keep away from heat, sparks, open flame.

REACTIVITY: Strong oxidants. May dissolve some plastics and rubbers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Aldehydes, Nitrogen Oxides and compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all sources of ignition. Dike large spills and pump into salvage tank. Absorb with suitable material. Keep unnecessary personnel away. Avoid breathing vapors. Ventilate enclosed areas - open windows.

WASTE DISPOSAL METHOD: Dispose in accordance with local, state, and federal regulations. For further information, contact your state or local solid waste agency or the U.S. EPA RCRA Hotline (800-424-9346)

SECTION 8 SPECIAL PROTECTION REQUIREMENTS

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

1. In outdoor or open areas with unrestricted ventilation - Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.
2. In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and particulates.
3. In confined areas - Approved air-supplied type respirators.

VENTILATION: Local exhaust. Explosion proof equipment - No Smoking.

PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended.

OTHER PROTECTIVE EQUIPMENT: Clean, long legged, long sleeved work clothes.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. **Do Not Work Alone! Keep Away From Children!**

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPGA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH: 3 (corrosive to skin & eyes)
FLAMMABILITY: 1
REACTIVITY: 0

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

MATERIAL SAFETY DATA SHEET

KEELER & LONG, INC.
356 ECHO LAKE ROAD
P. O. BOX 460
TERTOWN, CT 06795

Information Phone
(203) 274-6701

MSDS Number 070-AB
Revision Number 04
Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME: #5129 KOLOR-POXY PRIMER/SEALER CHEMICAL FAMILY: Epoxy/Amido-Amine
Parts A + B

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT	OSHA TWA	ACGIH TLV*	CAS NUMBER	PERCENTAGE RANGE (wt)
Alkyd Glycidyl Ethers	NE	NE	686909-97-2	10 - 15
Bisphenol A	NE	NE	25068-38-6	45 - 55
Diglycidyl Ether Resin				
Amido-Amine Resin	NE	NE	Proprietary	20 - 30
Benzyl Alcohol	NE	NE	100-51-6	10 - 20

SECTION 3 PHYSICAL DATA

BOILING POINT:	(solvent) NA
VAPOR PRESSURE:	(solvent) NA
VAPOR DENSITY: (air = 1)	(solvent) NA
SOLUBILITY IN WATER:	Negligible
APPEARANCE / ODOR:	Ester-like odor Clear Amber Liquid
WEIGHT/GAL	8.8 ± 0.2 lbs.
PERCENT VOLATILE: (by weight)	Nil
EVAPORATION RATE: (BuAcc = 1) (Solvent)	NA

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS:	NA
FLASH POINT (PMCC °F):	> 200°
FLAMMABLE LIMITS: (solvent) LEL: NE	UEL: NE
EXTINGUISHING MEDIA:	Foam, Carbon Dioxide, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:	Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire. Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Decomposition and combustion products may be toxic.

Footnotes

(C) = Ceiling Value
NA = Not Applicable
NE = Not Evaluated
* = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected since dusts
are "wetted-up" in the product.
(-) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.
(7) = Exposure limits have not been established for this chemical. A closely
related compound, Propylene Glycol Monomethyl Ether
(CAS# 107-98-2) has an OSHA TWA of 100 ppm and an
ACGIH TLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

SECTION 5 HEALTH HAZARD DATA

THOLD LIMIT VALUE: See Section 2

EFFECTS OF OVEREXPOSURE:

IRITATION: May be corrosive to skin and eyes, may be absorbed through the skin. May cause reversible eye damage. Inhalation of high vapor concentrations may have results ranging from headaches and dizziness to unconsciousness, may cause CNS Depression, may irritate respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

TOXICITY: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the pulmonary system. May be sensitizer.

EXPOSURE CONDITIONS PRONE TO AGGRAVATION BY PREEXISTING CONDITIONS: Preexisting skin and eye disorders may be aggravated. Preexisting lung allergies may be aggravated. Preexisting lung allergies may increase the chance of developing increased allergic symptoms.

PRIMARY ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion, Contact

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

EYES: Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

SKIN: Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

INGESTION: Dilute with large amounts of water or milk. **DO NOT INDUCE VOMITING.**

TOXICITY: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage and possible liver and kidney damage. Occupational misuse by deliberately concentrating and inhaling the vapors may be **HARMFUL** or **FATAL**.

MUTAGENICITY:

Silica: The IARC determined that there is sufficient evidence of the carcinogenicity of crystalline silica to experimental animals and that there is evidence of the carcinogenicity of crystalline silica to humans. The health risk is from prolonged excessive exposure to the respirable dust. No exposure to crystalline silica is expected since the product is "wetted-up" in the product.

SECTION 6 REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: Keep away from extreme heat, sparks, open flame.

COMPATIBILITY: Strong oxidants. May dissolve some plastics and rubber.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Aldehydes, Nitrogen Oxides

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions of use.

WARNING: The curing process is an exothermic reaction. When mixed product is close to the end of its pot life, heat may be generated.

SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all sources of ignition. Dike large spills and pump into salvage tank. Absorb with suitable material. Keep unnecessary personnel away, avoid breathing vapors. Ventilate enclosed areas - open windows.

WASTE DISPOSAL METHOD: Dispose in accordance with local, state, and federal regulations. For further information, contact your state or local solid waste agency or the U.S. EPA RCRA hotline (800-424-9346)

SECTION 8 SPECIAL PROTECTION INFORMATION

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

1. In outdoor or open areas with unrestricted ventilation - Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.
2. In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and particulates.
3. In confined areas - Approved air-supplied type respirators.

VENTILATION: As necessary to keep exposure levels to a minimum. *No Smoking.*

PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended.

OTHER PROTECTIVE EQUIPMENT: Clean, long legged, long sleeved work clothes.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from extreme heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. *Do Not Work Alone! Keep Away From Children!*

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NIOSH-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH: 2 corrosive to skin/eyes
FLAMMABILITY: 2
REACTIVITY: 0

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.



24' x 8' x 8' Type 2 magazine with 2 sets of double doors

Standard Type 2 Magazines

All Armag Corporation type 2 magazines have been manufactured since 1969 to meet or exceed ATF specs. The exterior is 1/4" ASTM A-36 prime steel and the interior is lined with 3" of hardwood. Two lock staples are shrouded by 1/4" steel hoods. We include hinge side door protection to prevent the door from being opened in the event the hinges are defeated and each door has an attached grounding strap to transfer static electricity back to the main structure. The magazine is properly vented and is mounted on 6" wide flange beams to keep the bottom off the ground. The unit is commercially sandblasted and painted with 8 mils of high solids urethane to protect the structure from the elements.



4' x 4' x 4' Type 2 ATF spec magazine



5' x 4' x 7' Type 2 magazine with attached 24" x 24" x 24" Type 4 cap box



Interior view of 24' x 8' x 8' Type 2 magazine

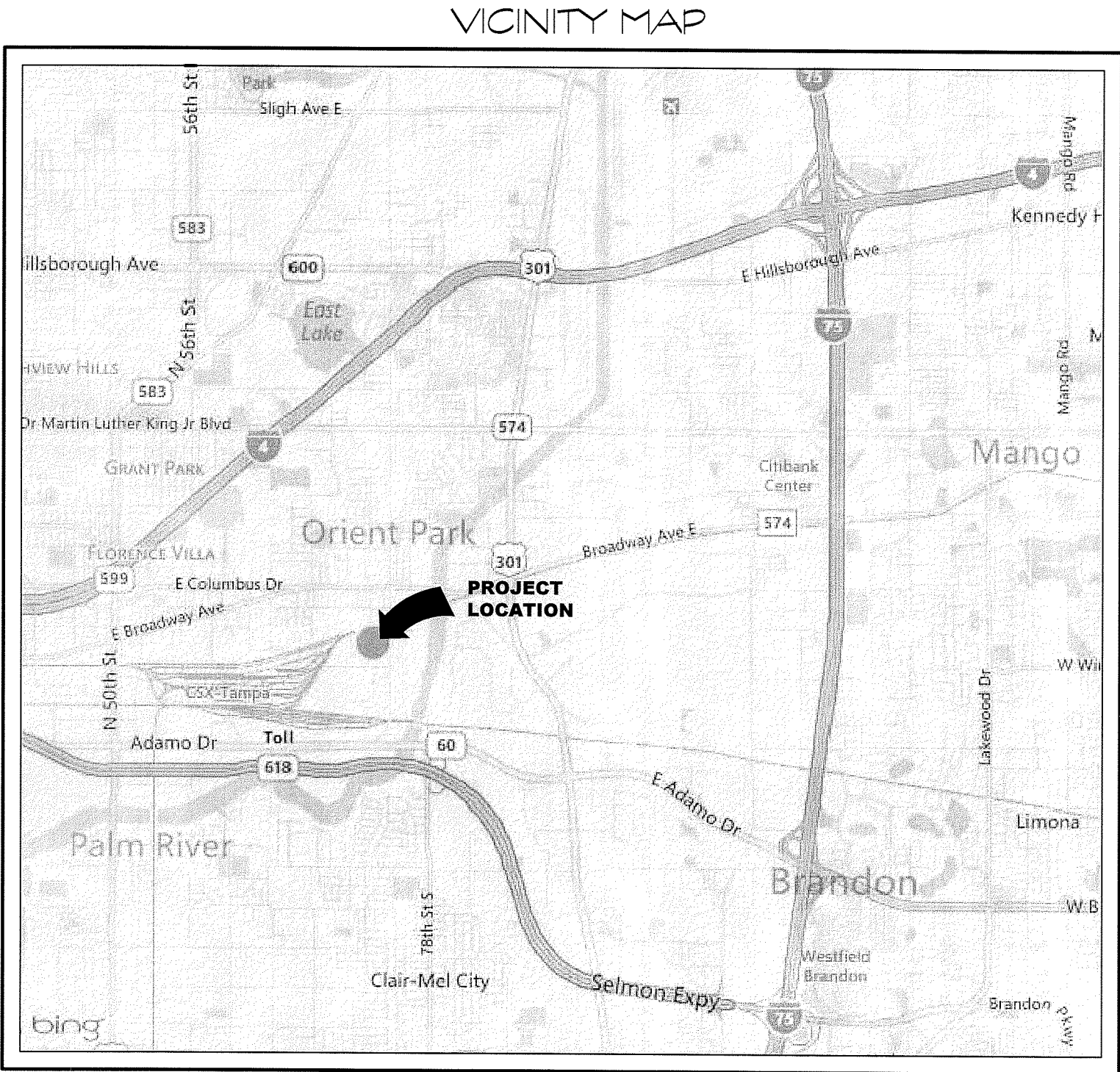
Numerous options are available including explosion proof lights and heat/AC, attached cap boxes and attached magazines, interior divider walls, and double doors. Standard size magazines range from 3' x 3' x 3' (LWH) to 40' x 8' x 10'.

Call us to discuss your storage needs or visit our website for a complete listing of standard sizes.

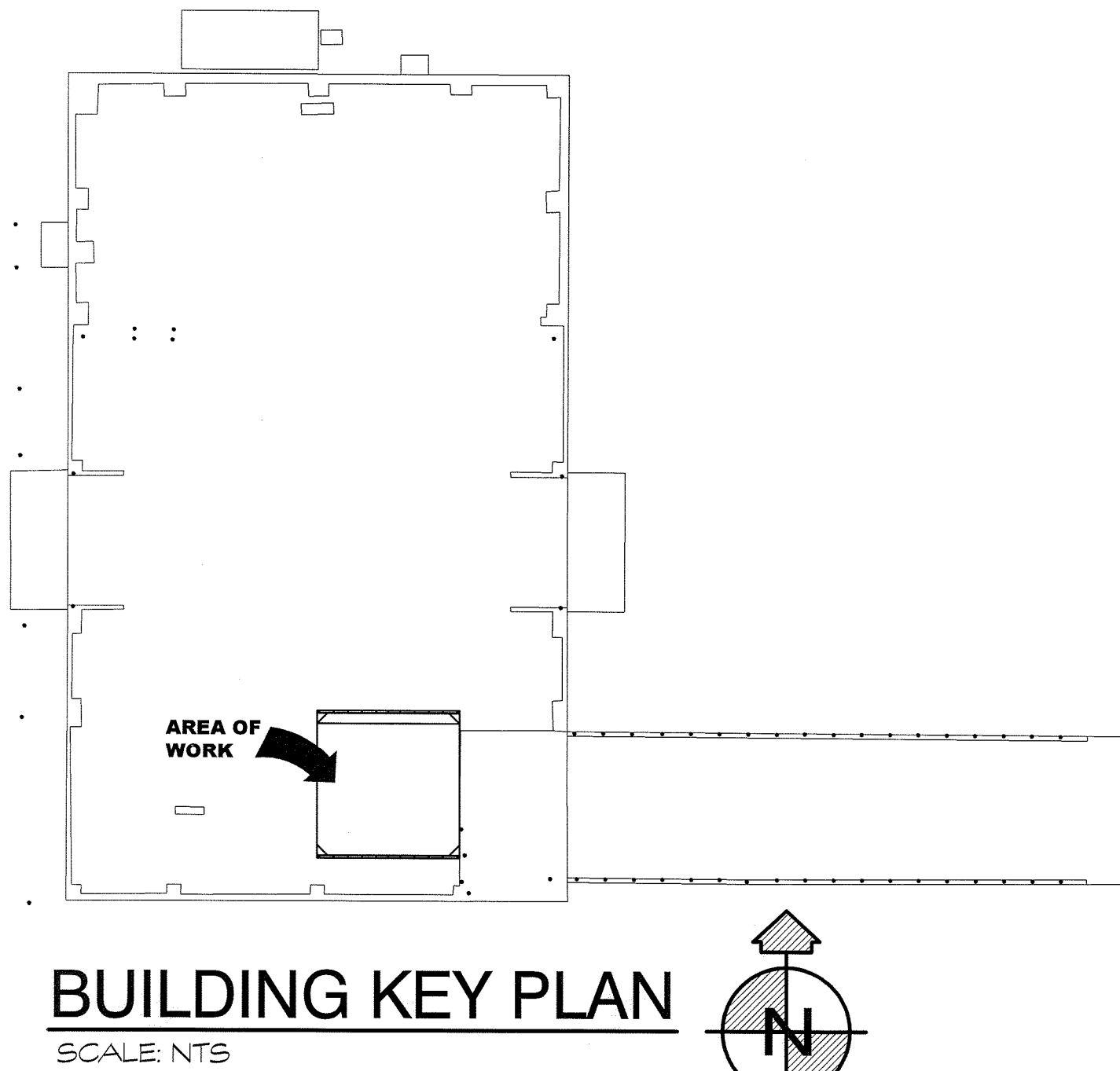
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STRUCTURAL NOTES

- I. **GOVERNING CODES:**
This design is based on the following codes:
- A. 40 CFR Part 264, Subpart J - Tank Systems
 - B. Florida Building Code, 2010 EDITION.
 - C. Specification for the Design, Fabrication, and Erection of Structural Steel for Building, ASD Design method.
 - D. Structural Welding Code D1.1
- II. **DISCREPANCIES BETWEEN DRAWINGS & EXISTING CONDITIONS:**
These drawings were prepared based on field data gathered during the design process. However, as the demolition of the existing structure allows for better views of the existing structure, there may be discrepancies between the drawings & the actual conditions. These discrepancies should be brought to the attention of the engineer immediately. Please confirm all dimensions to the existing structure before ordering, purchasing, or installing any new work.
- III. **DRAWINGS AND SPECIFICATIONS:**
- A. Do not scale these drawings for dimensions not given. Verify all field conditions and confirm column locations in respect to building wall alignment prior to the start of work.
 - B. These construction documents have been prepared from the most complete information available to the engineer. All data on existing construction conditions are approximate & shall be verified prior to commencing work.
 - C. The contractor shall comply with the manufacturer's instructions & recommendations to the extent-printed information are more detailed or stringent than the requirements contained in the plans.
 - D. The plans show the location of all fixtures & equipment & are intended to convey the general intent of the work in scope & layout. They are not intended to show in minute detail every & all of the accessories intended for the purpose of execution of the work, but it is understood that such details are part of this work.
 - E. The Contractor shall perform no portion of the work at any time without Contract Documents or, where required, approved shop drawings, product data or supplemental details for such portion of the work.
 - F. The Contractor is responsible for means and methods of construction to ensure the safety of the building until the structural system is completed. The structural system is unstable until all connections have been made and all concrete has reached the minimum design strength as specified in these drawings.
- IV. **STRUCTURAL STEEL:**
- A. Fabrication and erection of structural steel shall be in accordance with AISC "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings" (latest edition).
 - B. Structural steel shapes (used as beams and columns) shall conform to ASTM A572 Grade 50 KSI unless otherwise noted on the contract drawings.
 - C. Plates, channels, rods, anchor bolts and angles shall conform to ASTM A36 unless otherwise noted of the contract drawings.
 - D. Steel pipe shall conform to ASTM A53 Grade B or ASTM A501.
 - E. Structural tubing shall conform to ASTM A500 Grade B (46 KSI minimum).
 - F. All bolts (except anchor bolts) shall be high strength (HSB) shall conform to ASTM A325, 3/4" diameter unless noted otherwise. High strength bolts shall be used unless specifically noted on the drawings.
 - G. All welding shall be performed by certified welders in accordance with AWS "Code for Arc and Gas Welding in Building Construction" (latest edition). The minimum electrode used shall be E70xx Low Hydrogen electrodes unless otherwise specified.
 - H. All beams shall be fabricated and erected natural camber up
 - I. Splicing of structural steel where not detailed is not permitted with out prior written approval of the structural engineer.



ABBREVIATIONS (NOT ALL ARE USED)			
AB	ANCHOR BOLT	LL	LIVE LOAD
AFF	ABOVE FINISH FLOOR	LLBB	LONG LEG BACK-TO-BACK
ARCH	ARCHITECT(URAL)	LLH	LONG LEG HORIZONTAL
BLDG	BUILDING	LLV	LONG LEG VERTICAL
BRDG	BRIDGING	OC	ON CENTER
BRG	BEARING	PAF	POWDER-ACTUATED FASTENER(S)
CJ	CONSTRUCTION JOINT (OR CONTROL JOINT)	PL	PLATE
CL	CENTERLINE	PLF	POUNDS PER LINEAR FOOT
CMU	CONCRETE MASONRY UNIT	PNL	PANEL
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUOUS	REQD	REQUIRED
COORD	COORDINATE	SDI	STEEL DECK INSTITUTE
DIA	DIAMETER	SM	SIMILAR
DL	DEAD LOAD	SJI	STEEL JOIST INSTITUTE
DWG	DRAWING	SOG	SLAB ON GRADE
EA	EACH	SPECS	SPECIFICATIONS
ENG	ENGINEER	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
EQ	EQUAL	STL	STEEL
EV	EACH WAY	T&B	TOP AND BOTTOM
EXT	EXTERIOR	TRANS	TRANSVERSE
PBC	FLORIDA BUILDING CODE	TYP	TYPICAL
FF	FINISHED FLOOR	UNO	UNLESS NOTED OTHERWISE
FS	FAR SIDE	VIF	VERIFY IN FIELD
FTG	FOOTING	VERT	VERTICAL
gc	GAUGE	WWF	WELDED WIRE FABRIC
GC	GENERAL CONTRACTOR	W/	WITH
HC	HOLLOW-CORE		
HORIZ	HORIZONTAL		
HS	HEADED STUD		
HSS	HOLLOW STRUCTURAL SECTION		
INT	INTERIOR		



STRUCTURAL NOTES

REVISIONS					
1	2	3	4	5	

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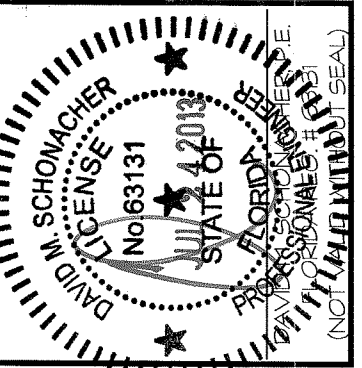
THE AVANTI GROUP
consulting engineers

CLIENT:

KCI TECHNOLOGIES, INC
10401 HIGHLAND MANOR DR SUITE 120
TAMPA, FL 33610

PROPOSED TANK SYSTEM FOR

EQ FLORIDA
7202 EAST 8TH AVE
TAMPA, FL 33619

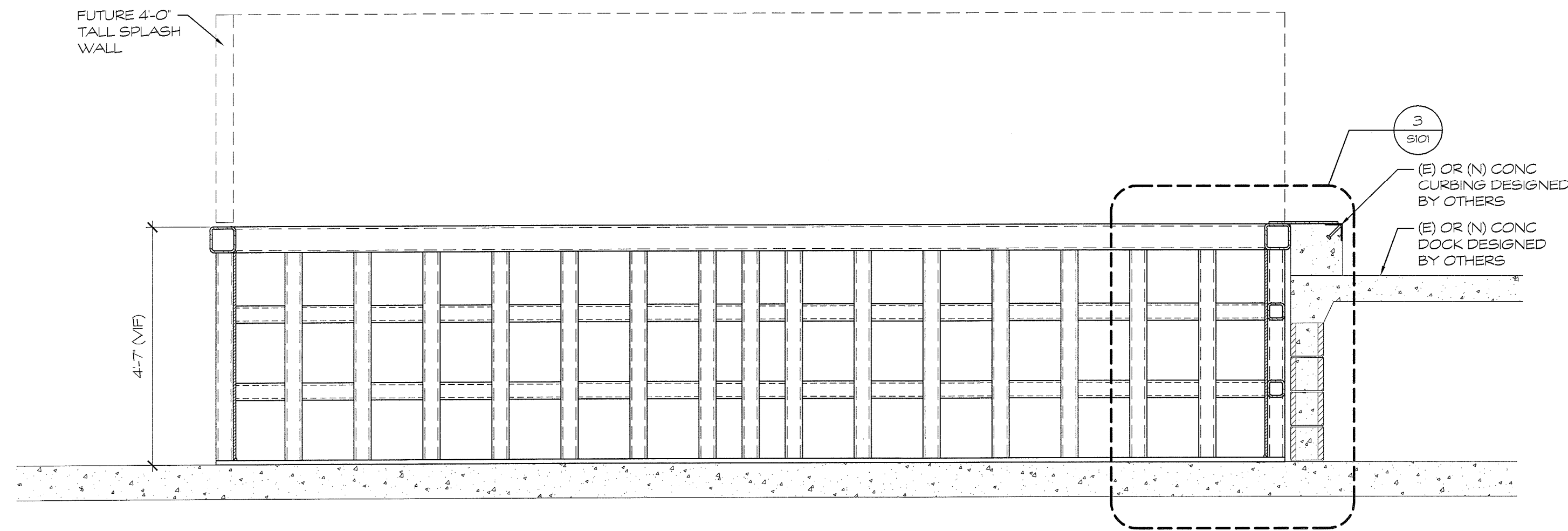


I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS & SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

SCALE:	AS SHOWN
DRAWN BY:	ALH
CHECKED BY:	DMS
ISSUE DATE:	07-24-13
PROJECT:	13-098

SHEET NUMBER
S001

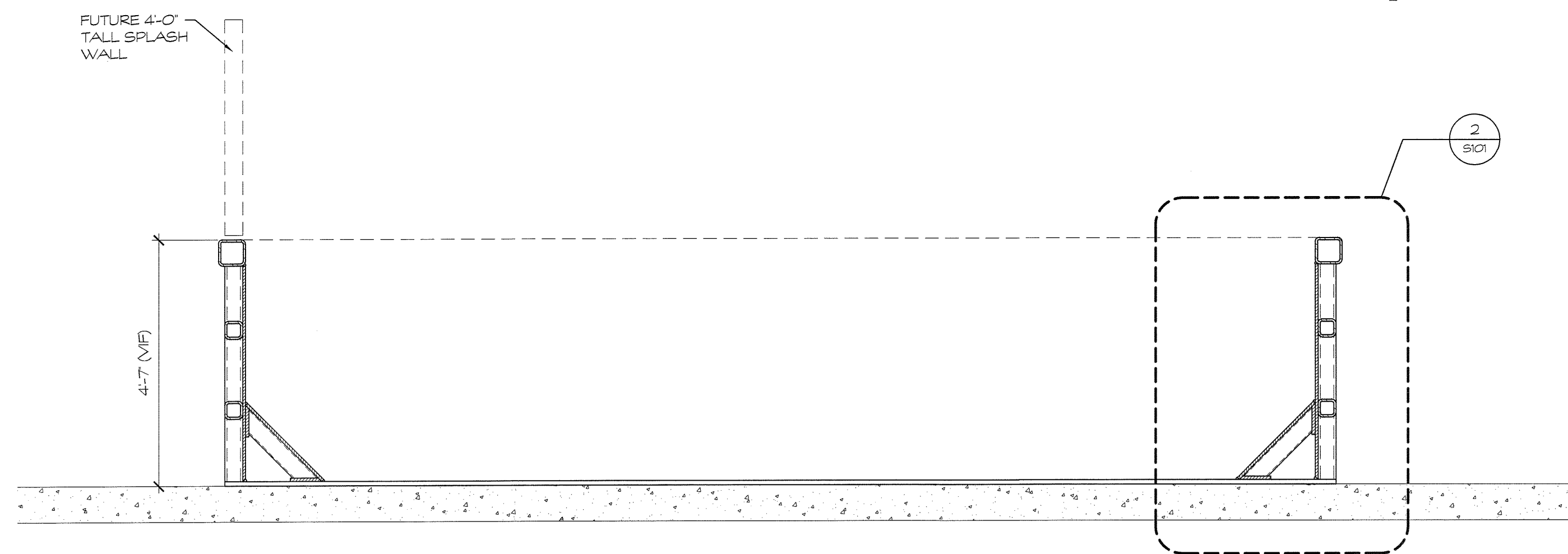
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TANK SOUTH ELEVATION

SCALE: 1/2" = 1'-0"

FILE_NAME

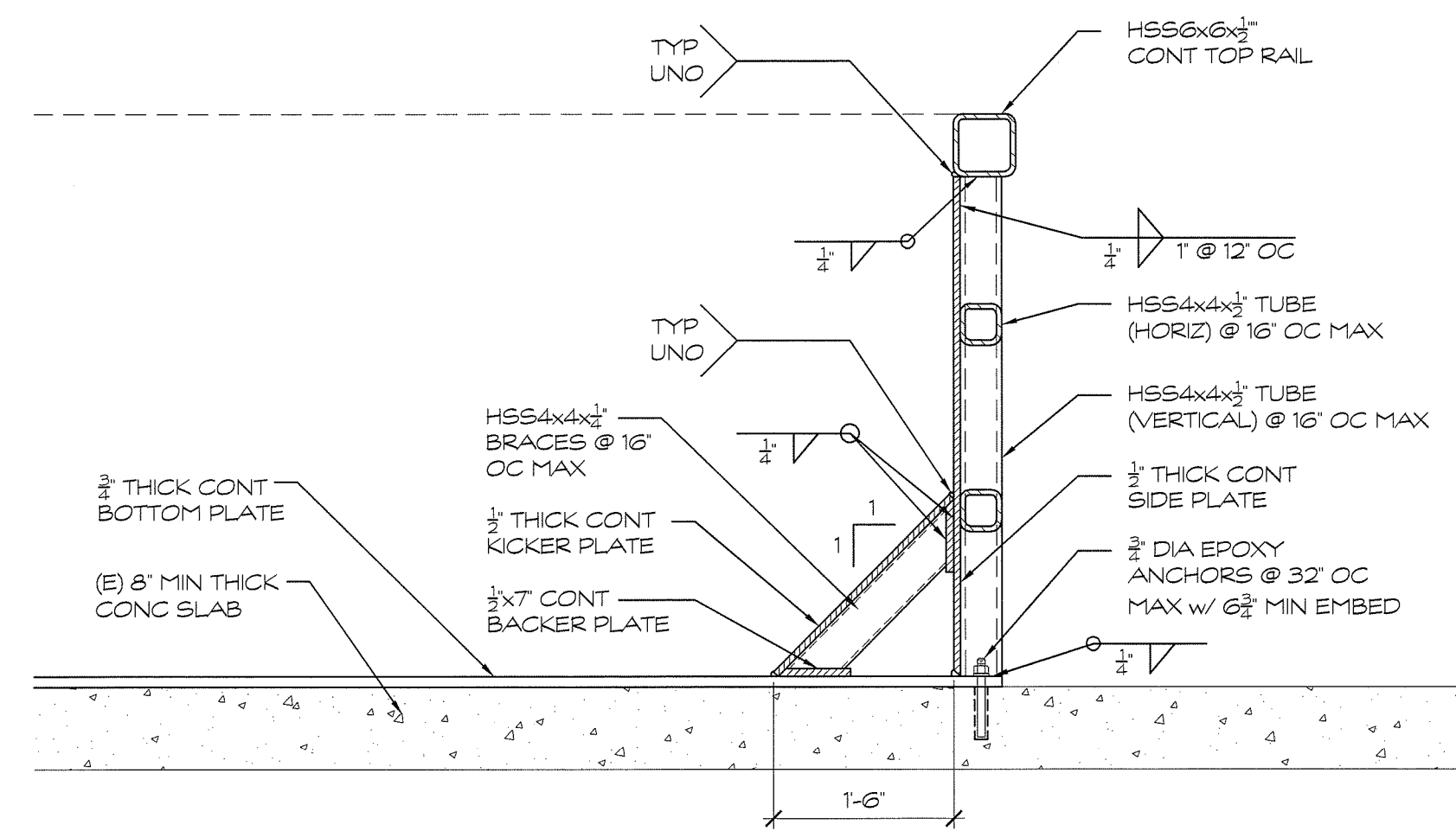


TANK SECTION

SCALE: 1/2" = 1'-0"

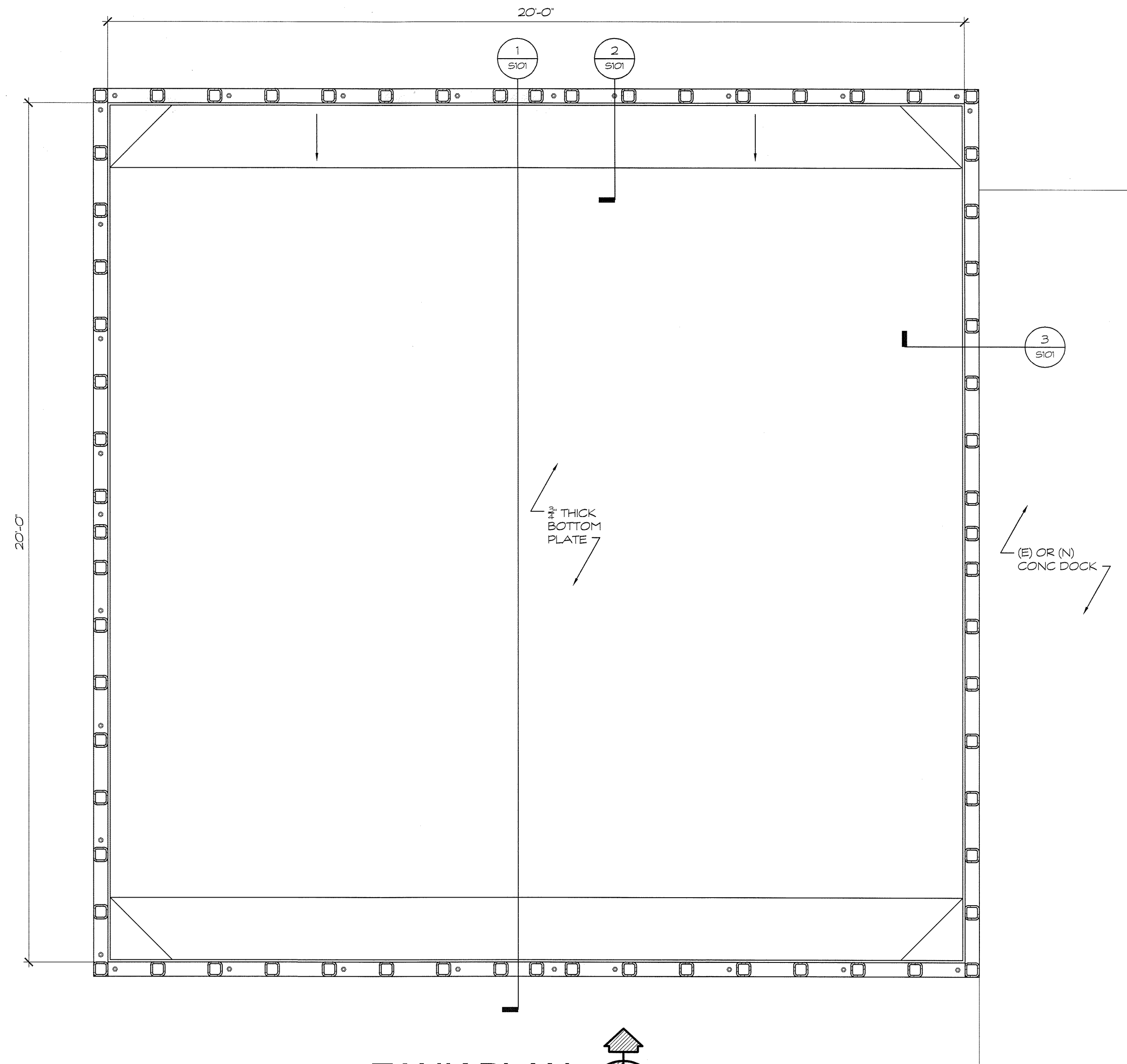
NOTE

I HAVE REVIEWED THE REQUIREMENTS IN 40 CFR PART 264, SUBPART J-TANK SYSTEMS AND THE TREATMENT TANK DESIGN WAS BASED ON CONSIDERATION OF THESE REQUIREMENTS AS WELL AS THE APPLICABLE GOVERNING CODES AND STRUCTURAL STEEL NOTES PROVIDED IN THE STRUCTURAL NOTES SECTION ON SHEET S001. IN MY PROFESSIONAL OPINION, THE TANK SYSTEM HAS SUFFICIENT STRUCTURAL INTEGRITY AND IS ACCEPTABLE FOR STORING AND TREATING HAZARDOUS WASTE. FURTHER, THE FOUNDATION, STRUCTURAL SUPPORT, BEAMS AND CONNECTIONS ARE ADEQUATELY DESIGNED AND THE TANK HAS SUFFICIENT STRUCTURAL STRENGTH, COMPATIBILITY WITH THE WASTES TO BE STORED OR TREATED, AND CORROSION PROTECTION TO ASSURE THAT IT WILL NOT COLLAPSE, RUPTURE, OR FAIL.



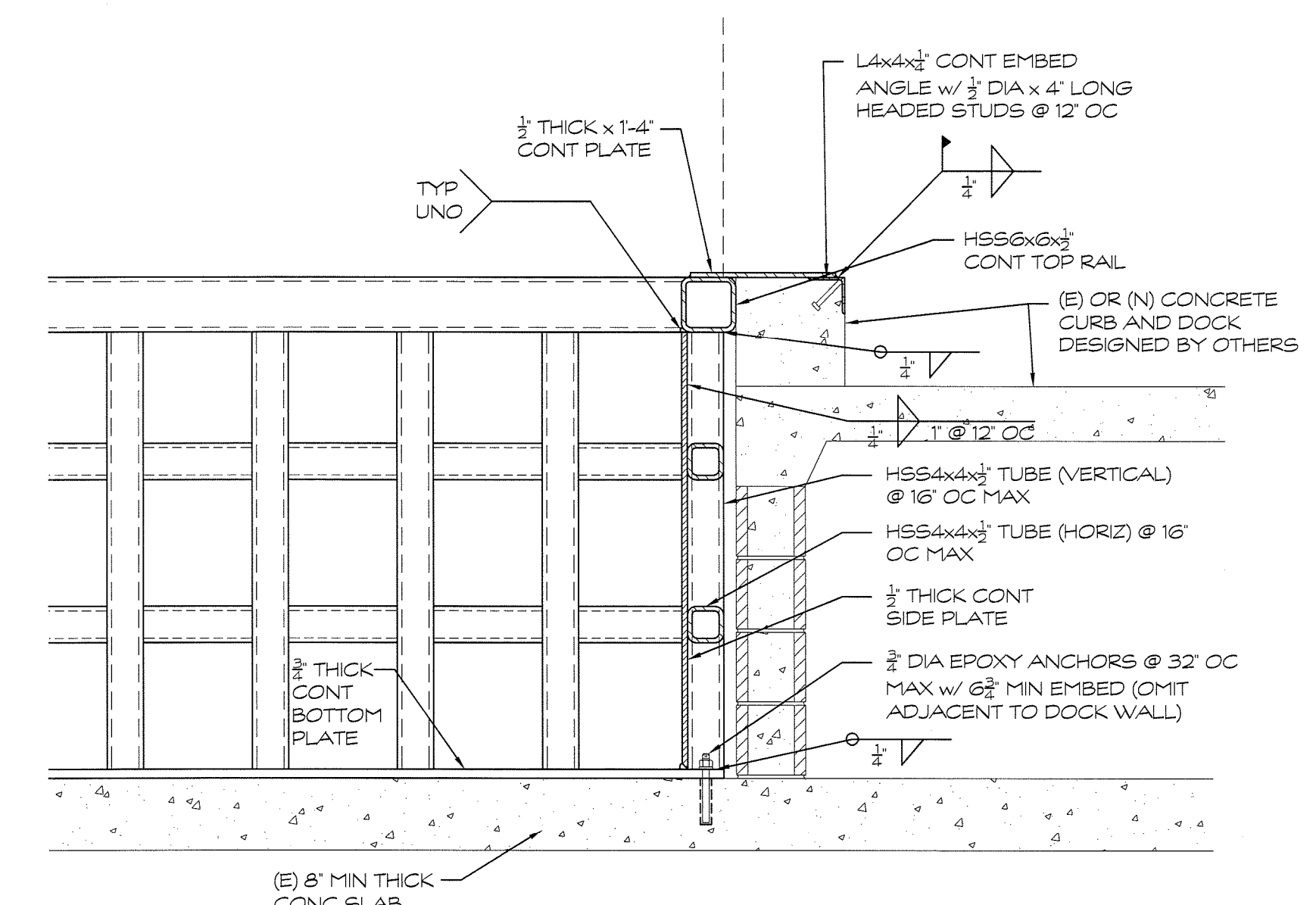
SECTION AT NORTH WALL (PULL)

SCALE: 3/4" = 1'-0"



TANK PLAN

SCALE: 1/2" = 1'-0"



SECTION AT EAST WALL (DOCK)

SCALE: 3/4" = 1'-0"

TANK PLAN, ELEVATION & DETAILS

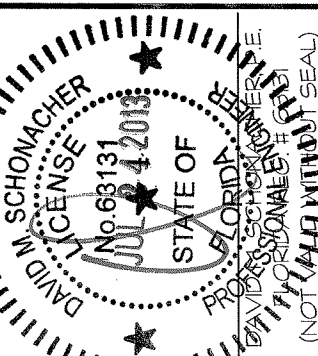
REVISIONS

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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS & SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

SCALE: AS SHOWN
DRAWN BY: ALH
CHECKED BY: DMS
ISSUE DATE: 07-24-13
PROJECT: 13-098

SHEET NUMBER

S101

APPENDIX J

Waste Analysis Plan Documentation & EQFL SOPs



WASTE CHARACTERIZATION REPORT

Tracking # _____

☐ **I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.**

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: _____

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency _____
☐ One Time Only ☐ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name _____

2.3) Is this waste surcharge exempt? ☐ Yes ☐ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (**check all that apply**)
☐ Bulk Solid (Yd³ < 2000 lbs/yd³)
☐ Bulk Solid (Ton > 2000 lbs/yd³)
☐ Bulk Liquids (Gallon)
☐ Totes, Size _____
☐ Cubic Yard Boxes/Bags
☐ Drums, Size _____
☐ Other (palletized, 5 gal. Pail, etc.) _____

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color _____ 3.2) Odor _____

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☐ No

3.4) Physical State at 70°F: ☐ Solid ☐ Dust/Powder ☐ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☐ ≤2 ☐ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5

3.6) What is the flash point of this waste? ☐ <90°F ☐ 90-140°F ☐ 140-199°F ☐ ≥200°F

3.7) Does this waste contain? (check all that apply) ☐ None ☐ Free Liquids ☐ Oily Residue ☐ Metal Fines

☐ Biodegradable Sorbants ☐ Amines ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum

☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Radioactive Waste ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates

☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Dioxins ☐ Furans

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

_____ to _____ % _____ to _____ %

_____ to _____ % _____ to _____ %

Total: 100%

4.2) Provide a detailed description of the process generating this waste (attach flow diagram if available).

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☐ No _____

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☐ Yes ☐ No _____

5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☐ No _____

5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☐ No _____

If you answered 'no' to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered 'yes' to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 6 – Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction levels? ☐ Yes ☐ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☐ No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☐ No

6.2) Is the waste an oxidizer (D001)? ☐ Yes ☐ No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☐ No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☐ No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either "Below" or "Above" **MUST** be checked for each constituent.

Based On: ☐ Generator Knowledge ☐ Analysis* ☐ MSDS*

***Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.**

Code	Regulatory Level	Concentration	Code	Regulatory Level	Concentration
	TCLP (mg/l)	(if above)		TCLP (mg/l)	(if above)
D004	Arsenic	5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D024	m-Cresol	200 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D005	Barium	100 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D025	p-Cresol	200 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D006	Cadmium	1 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D026	Cresols	200 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D007	Chromium	5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D027	1,4-Dichlorobenzene	7.5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D008	Lead	5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D028	1,2-Dichloroethane	0.5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D009	Mercury	0.2 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D029	1,1-Dichloroethylene	0.7 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D010	Selenium	1 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D030	2,4-Dinitrotoluene	0.13 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D011	Silver	5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D031	Heptachlor	0.008 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D012	Endrin	0.02 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D032	Hexachlorobenzene	0.13 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D013	Lindane	0.4 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D033	Hexachlorobutadiene	0.5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D014	Methoxychlor	10 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D034	Hexachloroethane	3.0 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D015	Toxaphene	0.5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D035	Methyl Ethyl Ketone	200 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D016	2,4-D	10 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D036	Nitrobenzene	2 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D017	2,4,5-TP (Silvex)	1 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D037	Pentachlorophenol	100 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D018	Benzene	0.5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D038	Pyridine	5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D019	Carbon Tetrachloride	0.5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D039	Tetrachloroethylene	0.7 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D020	Chlordane	0.03 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D040	Trichloroethylene	0.5 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D021	Chlorobenzene	100 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D041	2,4,5-Trichlorophenol	400 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D022	Chloroform	6.0 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D042	2,4,6-Trichlorophenol	2 <input type="checkbox"/> Below <input type="checkbox"/> Above _____
D023	o-Cresol	200 <input type="checkbox"/> Below <input type="checkbox"/> Above _____	D043	Vinyl Chloride	0.2 <input type="checkbox"/> Below <input type="checkbox"/> Above _____

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☐ Yes ☐ No

If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☐ No
7.2) Is this a Universal waste? ☐ Yes ☐ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☐ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☐ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☐ No

Please list applicable waste code: _____

If you answered "yes" to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☐ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☐ No

If you answered "no" to 8.1 and 8.2, please skip to Section 9.

- 8.3) Has this waste been processed into a non-liquid form?
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ Yes ☐ No
☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☐ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: _____ ☐ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☐ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No
9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☐ No
*If yes, Heat value (BTU/lb.) _____ Chlorine (%) _____ Water (%) _____ Solids (%) _____
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Generator _____ US EPA ID # _____ Manifest Doc.# _____

[illegible]

Waste on following line item(s) is subject to 'California List' restrictions of 40 CFR 268.32 for the following characteristic(s):	
California List Characteristics	Manifest Line Item(s)
Liquid hazardous wastes >= 50 ppm PCBs	
Hazardous wastes with HOCs >= 1000 ppm (40 CFR 268, Appendix III)	
Liquid hazardous wastes with nickel concentrations > 134 mg/L	
Liquid hazardous wastes with thallium concentrations > 130 mg/L	

LDR Certifications (Please list only one for each of the above line entries)	
1.	This waste complies with the treatment standards specified in 40 CFR 268, Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d).
2.	This waste does not meet the treatment standards specified in 40 CFR 268, Subpart D, or exceeds the applicable treatment standards set forth in CFR 268.32 or RCRA Section 3004(d). Waste must be treated to the appropriate standards.
3.	This waste has been treated in accordance with 40 CFR 268.40 to remove the hazardous characteristic. The above listed underlying hazardous constituents are likely present in the waste, and must be treated to the applicable standards set forth in 40 CFR 268.40 prior to land disposal.
4.	This waste is lab pack waste for incineration, and qualifies for alternative treatment as described in 40 CFR 268.42(c). Codes not eligible for alternate treatment are as follows: D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, AND U151.
5.	This waste qualifies for exemption from land disposal restriction. (Please attach explanation which includes the date exemption was granted.)
6.	This waste is not restricted under 40 CFR 268.

Signature_____ Date_____

Printed Name _____ Title _____

Generator	US EPA ID #	Manifest Doc.#
------------------	--------------------	-----------------------

[illegible]



CHAIN OF CUSTODY RECORD

49350 N. I-94 Service Drive Belleville MI 48111

Phone: (800) 592-5489

Fax: (800) 592-5329

Please check all that apply:

☐ Michigan Disposal Waste Treatment Plant

☐ Wayne Disposal, Inc. – Subtitle C Landfill

☐ Michigan Recovery Systems, Inc.

Generator Name _____

Company (Customer) _____

Address _____

Phone _____ Fax _____

Lab Use Only

Cold Pack: Yes _____ No _____

Headspace: Yes _____ No _____

Shipped: UPS _____

FedEx _____

Other _____

<i>T#</i>	<i>Collection Date/Time</i>	<i>Sample Description /Matrix</i>	<i># Container(s)</i>	<i>Size/Type (G, P)</i>	<i>Analysis Requested</i>

<i>Relinquished By (Sampler*):</i>	<i>Date/Time:</i>	<i>Received By:</i>	<i>Date/Time:</i>
<i>Relinquished By :</i>	<i>Date/Time:</i>	<i>Received By:</i>	<i>Date/Time:</i>
<i>Relinquished By :</i>	<i>Date/Time:</i>	<i>Received By:</i>	<i>Date/Time:</i>
*Sampler confirms that sample(s) are representative of waste stream(s) described above. See back of this form for shipment guidelines.			

Hazards Associated with Sample

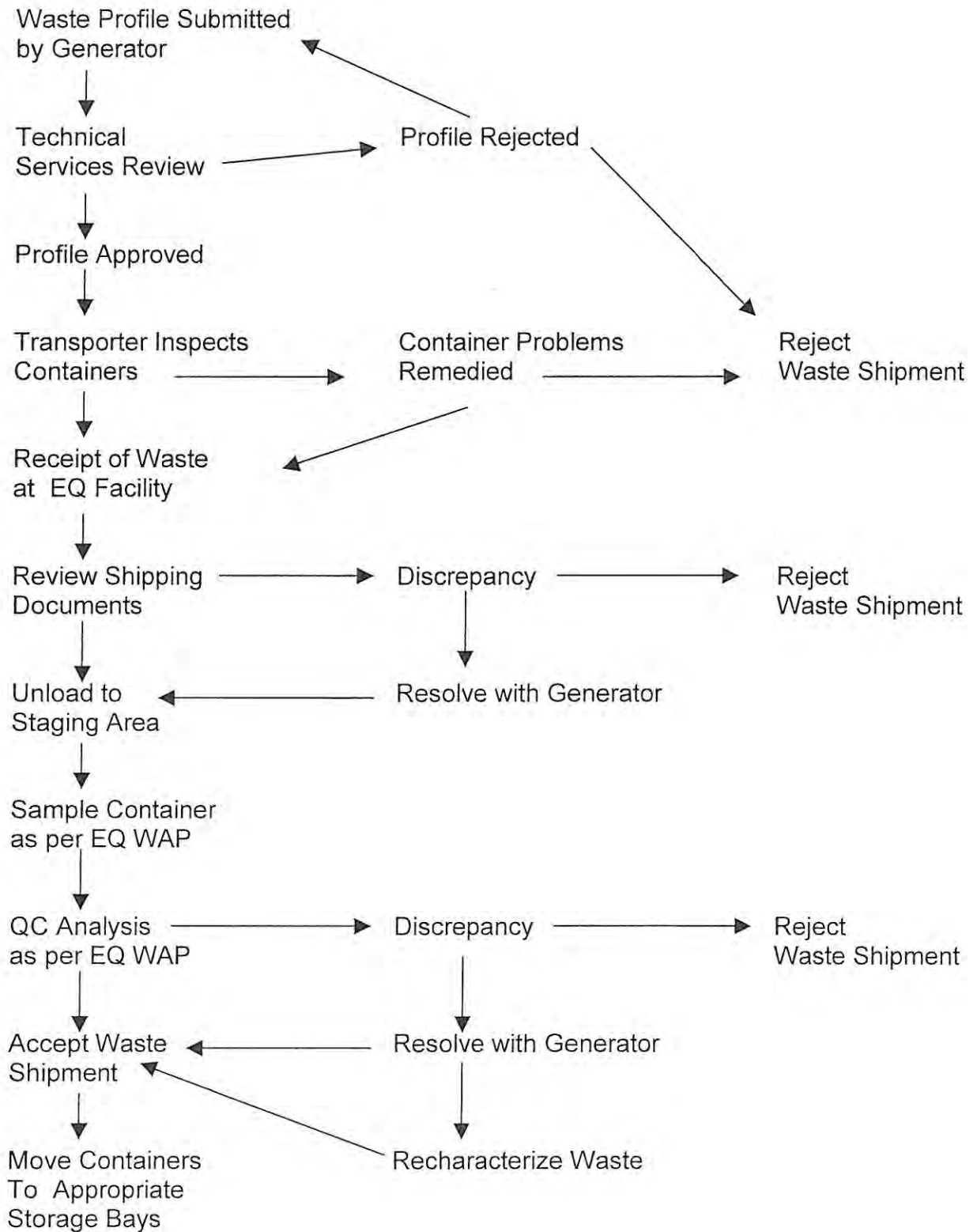
Flammable _____

Corrosive _____

Highly Toxic _____

Other _____

EQ Florida, Inc.
Attachment 17.4 Waste Screening Flow Chart





CONTAINER CONTENTS

☐ Drum

☐ Lab Pack

Drum #	Date:	Circle One: Virgin Product Spent Material	Approval #:	Chemist:
Proper DOT Shipping Name:				
Hazard Class:	Packaging Group: I II III	UN / NA Number:	Container type: DM DF 5 30 55 85 CY	
Manifest #:				
Line No.	Material Description	Quantity	Size	EPA Waste Code Number
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
Chemist Verification _____ This Lab Pack list continues: Yes <input type="checkbox"/> No <input type="checkbox"/> This is page _____ of _____.				

WHITE - TSDF

CANARY - CUSTOMER

PINK - DRUM COPY

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**EQ Facility, Inc.
PROCESS SHEET**



Generator:
Manifest/BOL:
Territory:

Receipt:
Receipt Date:
Non-Bulk Total Quantity:

Description:
Treatment:
Special Handling Instructions:

Containers: Quantity:
Waste: Approval:

Lab Comments:
Secondary Waste Codes:

Cont.#	Liquid	Solid*	Weight	Solid Type					Process Type				Size	Date Processed	Comments	BarCode
				PS	NPS	Debris	Aerosol	Other	DES	Ship Out	Rolloff	Pump				
																
																

Liquid = White DES = Red Rolloff = Yellow Ship Out = Blue P - Pails BG - Broken Glass PC - Paint Cans GV - Glass Vials
 Consolidated = Purple + above color No Pump = Above color placed over hung with NO PUMP



EQ - THE ENVIRONMENTAL QUALITY COMPANY

STANDARD OPERATING PROCEDURE (FL)

Document Number:	OPS-OP-016-FLA	Issue Date:	12/5/07
Author:	Stuart Stapleton	Revision Date:	
Job Title:	EHS Manager	Department:	OPS

TITLE: Liquids Bulking

PURPOSE: To safely and correctly consolidate liquids into bulk 55 gal containers for ultimate disposal.

SCOPE: This procedure applies to EQ Florida offices and jobsites.

RESPONSIBILITIES:

Plant Manager:

The Plant Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Plant Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

QEHS Manager:

The QEHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

PROCEDURE:

- 1.0 Stage all containers that are going to be processed into a process row.
- 2.0 Check all E.P.A. waste codes. Using a handheld bar code scanner, scan each container to appropriate staging row.
- 3.0 Set up Visqueen and solid waste bin at the dock.
 - 3.1 Set up an empty drum to pour into.
 - 3.2 Place a funnel on top of the drum.

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- 3.3 Ground the drum with a grounding cable.
 - 3.4 Set up a slash pail.
 - 4.0 Gear up in proper protective equipment (Tyvek, gloves & respirator) and open the first container.
 - 5.0 Remove container contents of drum onto cart and open one container at a time.
 - 6.0 Splash several ounces into a 5-gallon splash pail to ensure compatibility (if incompatible do not pour into drum. See a Chemist or Supervisor for assistance). Once you have ensured compatibility, pour the contents into the drum funnel.
 - 7.0 When the drum is $\frac{3}{4}$ full, close the container and label with the proper waste and D.O.T. labels.
 - 8.0 Secure the lid and the ring and move the drum to an appropriate storage location. If the container is warm, loosen the bung until the container has cooled off.
 - 9.0 Repeat steps 5 & 6 until task is complete.
-

DEFINITIONS:

REFERENCES:

ASSOCIATED DOCUMENTS:

RECORDS: The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which EQ adheres.



EQ - THE ENVIRONMENTAL QUALITY COMPANY

MANAGEMENT PROCEDURE (FL)

Document Number:	LAB-OP-008-FLA	Issue Date:	12/3/07
Author:	Stuart Stapleton	Revision Date:	1/17/12
Job Title:	QEHS Manager	Department:	LAB

TITLE: Facility Waste Sampling

PURPOSE: To ensure all incoming containers are properly marked and a representative sample is collected from each container.

SCOPE: This procedure applies to EQ Florida offices and jobsites.

RESPONSIBILITIES:

Plant Manager:

The Plant Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Plant Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

QEHS Manager:

The QEHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

PROCEDURE:

- 1.0 Proceed to sampling area with sampling cart and set-up area (be sure drums are diked and separate from incompatibles and appropriate signs are in place per the permit requirements).
- 2.0 Prepare sample jars by placing one on each drum to be sampled. Mark sample lids and jars with LAB number, DOT hazard class, DATE sampled, and sampler's initials.

- 3.0 Put on appropriate safety equipment (**Level C**). Respiratory protection must be worn when opening any container.
- 4.0 Visually inspect the drums for integrity and proper RCRA, DOT and non-regulated labeling. Document container types and count for any discrepancies.
- 5.0 **Liquid and sludge sample:**
 - 5.1 Open the drum carefully, and slowly insert the sampling tube vertically until it reaches the bottom of the liquid portion.
 - 5.2 Cover the top of the tube with the thumb and form a vacuum, and carefully withdraw the tube.
 - 5.3 Collect the sample and drain the contents into a sample container.
 - 5.4 When sampling evacuated aerosol liquid drums, open bung(s) slowly and allow drum to vent at least 10 minutes. Use a self-filling Colowasa, to prevent possible back pressure. Collect sample and let contents drain into sample container.
- 6.0 **Solid sample:**
 - 6.1 Open the drum, dig down at least two inches and take a sample.
- 7.0 If the drum contains liquids and solid parts, check the percent solid and liquid using the sampling tube and obtain the percent solids by sampling the bottom of the drum. The amount of solids and liquid portions should be described in inches.
- 8.0 Composite samples will be prepared in the drum area from the individual drum samples. Composites will be composed of individual samples, not to exceed 10 sub-samples per composite.
- 9.0 Poison drums will not be analyzed in our QC lab until a separate system is established. Poison drums should be opened and inspected and checked using a pH test strip.
- 10.0 Close container immediately after sampling.
- 11.0 Bring the samples and receiving report to the lab and notify lab personnel of any discrepancies upon delivery of samples.
- 12.0 Place drums in their appropriate storage location according to hazard class and remove sampling signs.
- 13.0 If any problems or questions arise, contact your supervisor or the Lab Manager immediately.

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- 14.0 DO NOT START TO BULK / OR LOAD ANY DRUM WITHOUT THE APPROVAL OF THE LAB MANAGER OR FACILITY MANAGER.
 - 15.0 In the event a modification from the above procedure is requested, the Laboratory Manager or the Facility Manager must approve it.
 - 16.0 All samplers using the above procedure must be trained and documented by the Lab Manager or the Facility Manager, or an experienced trainer as designated by the Laboratory Manager.
 - 17.0 If sampling a Tanker, Sludge Box, Vacuum Truck, following above procedure except use a core auger sampler for the taking the sample.
 - 18.0 The following waste types will receive a visual inspection only:
 - 18.1 Aerosol Cans
 - 18.2 Propane Cylinders
 - 18.3 Other gas Cylinders
 - 18.4 State of Florida Universal Waste
 - 18.5 Labpacks
 - 18.6 PCB Waste
 - 19.0 Samples that fail QC will be put on hold in EQAI.
 - 20.0 The EQAI Post Inspection Sheet will be used to verify that each receipt/approval is sampled in accordance with this procedure.
-

DEFINITIONS:

REFERENCES:

ASSOCIATED DOCUMENTS:

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STANDARD OPERATING PROCEDURE (FL)

Document Number:	LAB-OP-012-FLA	Issue Date:	12/6/07
Author:	Stuart Stapleton	Revision Date:	
Job Title:	EHS Manager	Department:	LAB

TITLE: **Hazcat Procedures**

PURPOSE: To properly and safely identify hazard class information on unknown chemicals.

SCOPE: This procedure applies to EQ Florida offices and jobsites.

RESPONSIBILITIES:

Plant Manager:

The Plant Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Plant Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

QEHS Manager:

The QEHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

PROCEDURE:

1.0 pH Test

- 1.1 Introduce a drop of sample onto a pH strip
- 1.2 Compare to the pH chart to obtain the unknown.

2.0 Oxidizer Test

- 2.1 Wet a Potassium Iodide starch paper with one drop of 3N HCl
- 2.2 Add one drop of the sample onto the starch paper.

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2.3 If the paper turns **purple-black**, oxidizer is present.

3.0 Sulfide Test

3.1 Wet a Lead Acetate starch paper with one drop of 1:1 HCl

3.2 Add one drop of the sample onto the starch paper.

3.3 If the paper turns **brown- black**, sulfide is present

4.0 Cyanide Test

4.1 Place 5 drops of sample into a small test tube.

4.2 Add 5 drops of CN Reagent #1.

4.3 Add 5 drops of CN Reagent #2.

4.4 Add 5 drops of CN Reagent #3.

4.5 Gently, shake the test tube and let it stand for 10 seconds.

4.6 A color change to **pink or red** indicates the present of cyanide.

5.0 Ignition Potential (Flash Point)

5.1 Introduce 2 ml of sample into an aluminum disc.

5.2 Light up a burner or flame source and hold the flame immediately above the test sample without touching the visible flame to the sample for at least 10 seconds.

5.3 If the sample ignites, the flammability is reported as positive.

6.0 Mercury Test

6.1 Add few drops of sample onto aluminum disc.

6.2 Remove a red cap from a MercuryCheck Swabs.

6.3 Crush swab in center of paper sleeve.

6.4 Squeeze until fluid shows on tip.

6.5 Rub test area approximately 30 seconds.

6.6 If the tip turns **purple**, mercury is present.

7.0 Cadmium Test

7.1 Add few drops of sample onto aluminum disc.

7.2 Crush at "A" and "B" of Cadmium Check Swabs.

7.3 Squeeze until purple shows on tip.

7.4 Rub test area approximately 30 seconds.

7.5 If the tip turns **Peach**, Cadmium is present.

8.0 Silver Test

8.1 Obtain one silver strip from Silver Roll.

- 8.2 Immerse the reaction zones of the test strip in the solution for one second.
- 8.3 Shake off the excess liquid and compare with the color scale after 30 seconds.

9.0 Iron Test

- 9.1 Obtain one Iron strip from Iron Roll.
- 9.2 Immerse the reaction zone in the solution (1-7) for 1 sec.
- 9.3 Shake off excess liquid from the strip.
- 9.4 Wait 10 seconds, compare with the color scale, and read off result.

10.0 Chlorine Test

- 10.1 Obtain one chlorine paper from Chlorine Test Roll.
- 10.2 Dip about one inch of a test paper in the water to be tested and remove immediately.
- 10.3 The color turns purple, chlorine is present.

11.0 Peroxide Test

- 11.1 Obtain one peroxide strip from Peroxide Test Roll.
- 11.2 Immerse the reaction zone in the solution for 1 second.
- 11.3 Shake off excess liquid from the strip.
- 11.4 Compare the color scale after 15 seconds.

12.0 Solubility Test

- 12.1 Add 5 drops of sample into a test tube.
- 12.2 Add 5 drops of DI water into the same test tube.
- 12.3 Mix thoroughly and let it sit for 30 seconds.
- 12.4 If one layer formed, then it is soluble. If there is more than one layer, then the sample is not soluble in water.

13.0 Classifying DOT Classes

- 13.1 Performing a pH test on an unknown, if pH is <2.5 or >12.5, give D002 code.
- 13.2 Perform ignition Potential test, if positive then give an unknown a D001 code.
- 13.3 If negative then go on for metals test and perform all strip metals

DEFINITIONS:

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REFERENCES:

ASSOCIATED DOCUMENTS:

RECORDS: The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which EQ adheres.



EQ - THE ENVIRONMENTAL QUALITY COMPANY

Work Instruction

Document Number:	OPS-WI-006-PEN	Issue Date:	10/21/11
Author:	Melanie Holden Karla Mercer	Revision Date:	01/10/12
Job Title:	Compliance Asst. QEHS Manager	Department:	Operations

TITLE: Decontamination of Process Equipment and Pits

PURPOSE: To ensure the appropriate steps are taken to decontaminate process equipment and pits.

SCOPE: All employees responsible for the decontamination of processing equipment and pits

RESPONSIBILITIES:

Shift Supervisor: To ensure that all practices and procedure are carried out in compliance with the protocol.

Chemical Operator: To follow all practices and procedures specified in the protocol.

PROCEDURE:

I. Decontamination of Contaminated Equipment

- a) Listed (F, P, U, or K codes)_Hazardous Waste Contaminated Equipment

Working surfaces contacted by Listed wastes must be visually clean. This may be accomplished by:

- scraping using hand tools or power equipment,
- washing and/or power washing with water to effect a clean working surface.

All removed materials, and wash waters, must be processed as Listed waste.

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

b) Characteristic (D Codes) Hazardous Waste Contaminated Equipment

Working surfaces contacted by Characteristic waste must be visually clean. This may be accomplished by:

- scraping using hand tools or power equipment,
- washing and/or power washing with water to effect a clean working surface.

All removed materials, and wash waters, may be processed as Characteristic or Listed waste.

c) Equipment contaminated with soil that qualifies for the 10x alternate treatment standard.

Working surfaces contacted by Soil waste must be visually clean. This may be accomplished by:

- scraping using hand tools or power equipment,
- washing and/or power washing with water to effect a clean working surface.

All removed materials, and wash waters, must be processed as Listed or Characteristic waste dependent on the codes applicable to the Soil Exclusion waste.

II. **Decontamination of Pits** – determination of when to decontaminate a pit is based on procedure going from a less stringent requirement to a more stringent requirement (such as a NH to Characteristic (D code) or D code to Listed (F, P, U, or K code))

- a) **Last contained Listed (F, P, U, or K codes) Pit** - A pit that last contained a listed waste needs to be decontaminated by mechanical means followed by rinsing the tank with water to a clean working surface.
- b) **Last contained Non-regulated or Characteristic (D Codes) to Listed (F, P, U, or K codes) Pit** - A pit that is going from non-regulated or characteristic to a listed waste will not need to be decontaminated
- c) **Last contained Characteristic (D Codes) to Non-Regulated or 10 X Pit** - A pit that is going from characteristic to non-regulated or from characteristic to 10 X alternate treatment will need to be decontaminated by scraping the tank clean by mechanical means.

All waste generated from the pit decontamination process will need to be disposed in compliance with the procedures outlined for decontamination of process equipment.

III. Documentation

- a) A Decontamination Record (OPS-FM-002-PEN) will be completed as appropriate and signed by EQ PA Personnel to document appropriate decontamination has been achieved.
- b) The Decontamination Record will be filed as part of the operation record.

DEFINITIONS:

Decontamination – the removal of material from process equipment or tanks

Process Equipment – any piece of equipment used in the process of handling hazardous waste. This equipment includes, but is not limited to: crane bucket, blenders, track hoe, and backhoe buckets

Pits – permitted tanks used for solids processing

REFERENCES: None

ASSOCIATED DOCUMENTS:

OPS-FM-002-PEN Decontamination Record

RECORDS: The cited records are retained in a manner that supports the requirements of the various Local, State, and Federal Regulatory Agencies to which EQ adheres.



EQ - THE ENVIRONMENTAL QUALITY COMPANY

DECONTAMINATION RECORD

DATE: _____

TIME: _____

EQUIPMENT DECONTAMINATED:

1. _____
2. _____
3. _____
4. _____
5. _____

TYPE DECONTAMINATION: (check appropriate sections)

LISTED: ☐

CHARACTERISTIC: ☐

SOIL EXCLUSION: ☐

NAME: _____
(Printed)

SIGNATURE: _____

APPENDIX K

In-Bound Waste Shipment Records & Waste Characterization Reports

[illegible]

[illegible]

EQ Florida, Inc.
In-Bound Containers (1/1/12-12/31/12)

						DM85 Containers					1				476.000		
						LBS Containers					134				1,963.298		
						T250 Containers					1				2,020.000		
Total # Containers for Treatment 1025 AOrg-Tranship-TSD:											169				12,393.298		
Treatment:		1029 -BDegrease-Tranship-TSD Caustic Degreaser (D002)															
						Container Size					# Containers				Weight		
						DM05 Containers					2				70.000		
						DM30 Containers					1				243.000		
						T250 Containers					4				10,035.000		
						T275 Containers					4				9,878.000		
Total # Containers for Treatment 1029 BDegrease-Tranship-TSD:											11				20,226.000		
Treatment:		1034 -BLiquid-Tranship-TSD Caustic Liquid (D002)															
						Container Size					# Containers				Weight		
						Missing Container Size					1				0.000		
						CNT Containers					2				0.000		
						DM05 Containers					39				2,556.400		
						DM10 Containers					4				103.000		
						DM15 Containers					13				1,013.000		
						DM16 Containers					3				421.000		
						DM20 Containers					3				388.000		
						DM30 Containers					22				4,097.000		
						DM55 Containers					374				155,562.000		
						DM85 Containers					12				5,416.600		
						GAL Containers					1				36.000		
						KG Containers					20				225,488.000		
						LBS Containers					48				9,249.200		
						T275 Containers					18				30,695.000		
						T330 Containers					3				6,954.000		
Total # Containers for Treatment 1034 BLiquid-Tranship-TSD:											563				441,979.200		
Treatment:		1048 -CMet Liq-Consolidat-TSD RCRA Metal Contaminated Liquid (D004-D011)															
						Container Size					# Containers				Weight		
						Missing Container Size					2				247.000		
						DM05 Containers					56				412.000		
						DM10 Containers					2				0.000		
						DM16 Containers					11				411.000		
						DM30 Containers					3				365.000		
						DM55 Containers					22				4,072.000		

EQ Florida, Inc.
In-Bound Containers (1/1/12-12/31/12)

[illegible]

EQ Florida, Inc.
In-Bound Containers (1/1/12-12/31/12)

						DM05 Containers					551				6,818.800		
						DM10 Containers					1				19.000		
						DM12 Containers					6				178.000		
						DM15 Containers					36				1,712.000		
						DM20 Containers					20				1,119.800		
						DM30 Containers					149				11,455.000		
						DM55 Containers					294				49,673.800		
						GAL Containers					54				7,951.000		
						LBS Containers					132				13,832.000		
						PALL Containers					2				230.000		
Total # Containers for Treatment 1127 KAcid-Dpack/repk-TSD:											1246				92,991.600		
Treatment:		1128 KAcid-Tranship-TSD Acid Lab Pack (D002)															
						Container Size					# Containers				Weight		
						Missing Container Size					1				0.000		
						CYB Containers					1				1,034.000		
						DM02 Containers					1				3.000		
						DM05 Containers					349				4,087.000		
						DM12 Containers					5				206.000		
						DM15 Containers					22				1,053.000		
						DM20 Containers					4				253.200		
						DM30 Containers					71				4,842.000		
						DM55 Containers					127				20,908.000		
						DM85 Containers					1				358.000		
						GAL Containers					17				2,242.000		
						LBS Containers					64				7,863.000		
Total # Containers for Treatment 1128 KAcid-Tranship-TSD:											663				42,849.200		
Treatment:		1131 KBase-Dpack/repk-TSD Caustic Lab Pack (D002)															
						Container Size					# Containers				Weight		
						Missing Container Size					4				369.000		
						CNT Containers					6				712.000		
						CYB Containers					5				3,762.000		
						DM05 Containers					370				5,240.000		
						DM10 Containers					5				70.600		
						DM12 Containers					4				160.000		
						DM15 Containers					32				1,518.400		
						DM16 Containers					2				105.000		
						DM20 Containers					13				645.400		
						DM30 Containers					141				10,192.400		
						DM55 Containers					470				82,581.000		
						GAL Containers					46				6,746.000		

[illegible]

EQ Florida, Inc.
In-Bound Containers (1/1/12-12/31/12)

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WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: Generic Acid: Nitric Acid (<10%)

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☒ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS, 8, UN3264, PG I, II, or III

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (**check all that apply**)

☐ Bulk Solid (Yd³ < 2000 lbs/yd³)

☐ Bulk Solid (Ton >2000 lbs/yd³)

☐ Bulk Liquids (Gallon)

☐ Totes, Size _____

☐ Cubic Yard Boxes/Bags

☒ Drums, Size VARIES

☒ Other (palletized, 5 gal. Pail, etc.) PAILS

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE TO MILD

3.3) Does this waste contain any “Potentially Odorous Constituents” as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F: ☐ Solid ☐ Dust/Powder ☒ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5

3.6) What is the flash point of this waste? ☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.7) Does this waste contain? (check all that apply)

☐ Biodegradable Sorbants ☐ Amines ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Dioxins ☐ Furans ☐ Pyrophoric Waste ☐ Isocyanates

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

SOLUTIONS OF NITRIC ACID 0 to 10 % to %

WATER - balance to % to %

Total: 100%

4.2) Provide a *detailed* description of the process generating this waste (attach flow diagram if available).

NO FUMING ACIDS. Acid concentration must be <10%. An accumulation of nitric acid solutions collected at a TSDF. Waste may include expired products and spent solutions. No listed waste is included. <5000 ppm total RCRA/UHC metals. <2000 mg/kg chromium, <500 ppm cadmium, <150 ppm arsenic, <260 ppm total mercury, <10 ppm TCLP mercury, <150 ppm selenium, <150 ppm antimony. No free mercury. Combinations with other acid types must be profiled separately.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

- 5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES
- 5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No Varies: D002, D004-D011
- 5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES
- 5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

If you answered ‘no’ to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered ‘yes’ to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 6 – Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No

6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either “Below” or “Above” MUST be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level	Concentration	Code	Regulatory Level	Concentration
	TCLP (mg/l)	(if above)		TCLP (mg/l)	(if above)
D004	Arsenic	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium	100 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium	1 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene	7.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury	0.2 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene	0.7 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium	1 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene	0.13 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor	0.008 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin	0.02 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene	0.13 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane	0.4 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor	10 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane	3.0 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D	10 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene	2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex)	1 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol	100 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine	5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene	0.7 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane	0.03 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene	100 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol	400 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform	6.0 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol	2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride	0.2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No

- 9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No

For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.



WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: Process Metals - Nonlisted Solid/Liquid / Sludge - Generic

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency varies - generic
☐ One Time Only ☒ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name VARIES

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)

☐ Bulk Solid (Yd³ < 2000 lbs/yd³)

☐ Bulk Solid (Ton >2000 lbs/yd³)

☐ Bulk Liquids (Gallon)

☐ Totes, Size

☒ Cubic Yard Boxes/Bags

☒ Drums, Size

☒ Other (palletized, 5 gal. Pail, etc.) DM05

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE TO MILD

3.3) Does this waste contain any “Potentially Odorous Constituents” as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F:

☒ Solid ☐ Dust/Powder

☒ Liquid

☒ Sludge

3.5) What is the pH of this waste?

☐ ≤2

☒ 2.1-4.9

☒ 5-10

☒ 10.1-12.4

☐ ≥12.5

3.6) What is the flash point of this waste?

☐ <90°F

☐ 90-140°F

☐ 140-199°F

☒ >200°F

3.7) Does this waste contain? (check all that apply)

☒ Biodegradable Sorbants

☐ Amines

☐ None

☒ Free Liquids

☐ Oily Residue

☐ Metal Fines

☐ Shock Sensitive Waste

☐ Reactive Waste

☐ Ammonia

☐ Water Reactive

☐ Biohazard

☐ Aluminum

☐ Asbestos – non-friable

☐ Asbestos – friable

☐ Radioactive Waste

☐ Explosives

☐ Pyrophoric Waste

☐ Isocyanates

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

Nonlisted metal process wastes 0 to 100 % Nonlisted metal-bearing products 0 to 100 %

rock/PPE/booms/misc debris 0 to 20 % Nonlisted metal-bearing soil/water 0 to 100 %

Total: 100%

4.2) Provide a *detailed* description of the process generating this waste (attach flow diagram if available).

Residuals from nonlisted metal processes. Accumulation of nonlisted metal wastes by TSDF. No metal fines -No Al, Mg, Be, Zn pieces. No precursors to listed codes if WW treated. <5000ppm Total RCRA/UHC Metals, <2000 mg/kg Cr, <500 mg/kg Cd, <150 mg/kg As, <260 mg/kg Hg total, <10 mg/L Hg TCLP, <150 mg/kg Se, <150 mg/kg Sb. No organic codes/UHCs. Debris< 50 % of each container by volume. No amine/ammonia waste. No pressurized containers, batteries or asbestos. No chelators. No MI codes.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)?

☐ Yes

☒ No

NO LISTED SOURCES

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)?

☒ Yes

☐ No

Varies: D004-D011

5.3) Do any State Hazardous Waste Codes apply?

☐ Yes

☒ No

NO MICHIGAN CODES

5.4) Is this waste intended for wastewater treatment?

☐ Yes*

☒ No

*If you answered ‘no’ to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered ‘yes’ to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.*

Section 6 – Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction levels?

☒ Yes ☐ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49?

☐ Yes ☒ No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.)

☐ Yes ☒ No

6.2) Is the waste an oxidizer (D001)?

☐ Yes ☒ No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)?

☐ Yes ☒ No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)?

☐ Yes ☒ No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either “Below” or “Above” **MUST** be checked for each constituent.

Based On:

☒ Generator Knowledge

☒ Analysis*

☐ MSDS*

*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level		Concentration		Code	Regulatory Level		Concentration	
		TCLP (mg/l)		(if above)			TCLP (mg/l)		(if above)
D004	Arsenic	5	<input type="checkbox"/> Below	<input checked="" type="checkbox"/> Above	D024	m-Cresol	200	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D005	Barium	100	<input type="checkbox"/> Below	<input checked="" type="checkbox"/> Above	D025	p-Cresol	200	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D006	Cadmium	1	<input type="checkbox"/> Below	<input checked="" type="checkbox"/> Above	D026	Cresols	200	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D007	Chromium	5	<input type="checkbox"/> Below	<input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene	7.5	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D008	Lead	5	<input type="checkbox"/> Below	<input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane	0.5	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D009	Mercury	0.2	<input type="checkbox"/> Below	<input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene	0.7	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D010	Selenium	1	<input type="checkbox"/> Below	<input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene	0.13	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D011	Silver	5	<input type="checkbox"/> Below	<input checked="" type="checkbox"/> Above	D031	Heptachlor	0.008	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D012	Endrin	0.02	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D032	Hexachlorobenzene	0.13	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D013	Lindane	0.4	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D033	Hexachlorobutadiene	0.5	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D014	Methoxychlor	10	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D034	Hexachloroethane	3.0	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D015	Toxaphene	0.5	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D035	Methyl Ethyl Ketone	200	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D016	2,4-D	10	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D036	Nitrobenzene	2	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D017	2,4,5-TP (Silvex)	1	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D037	Pentachlorophenol	100	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D018	Benzene	0.5	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D038	Pyridine	5	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D019	Carbon Tetrachloride	0.5	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D039	Tetrachloroethylene	0.7	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D020	Chlordane	0.03	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D040	Trichloroethylene	0.5	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D021	Chlorobenzene	100	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol	400	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D022	Chloroform	6.0	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol	2	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above
D023	o-Cresol	200	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above	D043	Vinyl Chloride	0.2	<input checked="" type="checkbox"/> Below	<input type="checkbox"/> Above

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents?

☒ Yes ☐ No

If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No

- 9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No

For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.



WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input checked="" type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: GENERIC : CAUSTIC LIQUID/SOLID/SLUDGE

Section 1 – Generator & Customer Information

SIC/NAICS*	Internal Use Only: EQ Division
Generator EPA ID #	EQ Customer No.
Generator	Invoicing Company
Facility Address	Address
City State Zip	City State Zip
County	Country
Mailing Address	Invoicing Contact
City State Zip	Phone Fax
Generator Contact JT	Technical Contact
Title	Phone Fax
Phone Fax	Mobile Pager
	E-mail

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☐ Year ☐ Quarter ☒ Month

2.2) DOT Shipping Name WASTE CORROSIVE LIQUIDS, BASIC, INORGANIC, NOS, 8, UN3266 PG I, II OR III

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)

☐ Bulk Solid (Yd³ < 2000 lbs/yd³)
☐ Bulk Solid (Ton >2000 lbs/yd³)
☐ Bulk Liquids (Gallon)
☐ Totes, Size
☐ Cubic Yard Boxes/Bags
☒ Drums, Size VARIES
☒ Other (palletized, 5 gal. Pail, etc.) PAILS

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE / MILD

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F:

☒ Solid ☐ Dust/Powder ☒ Liquid ☒ Sludge
☐ ≤2 ☐ 2.1-4.9 ☐ 5-10 ☒ 10.1-12.4 ☒ ≥12.5
☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.5) What is the pH of this waste?

3.6) What is the flash point of this waste?

3.7) Does this waste contain? (check all that apply)

☒ Biodegradable Sorbants ☐ Amines ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Dioxins ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates
☐ Furans

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

CAUSTIC SOLUTIONS INCLUDING: to % SODIUM AND/OR POTASSIUM HYDROXIDE 95 to 100 %

AMMONIUM HYDROXIDE 0 to 5 % to %

Total: 100%

4.2) Provide a *detailed* description of the process generating this waste (attach flow diagram if available).

EXCLUDES CALCIUM HYPOCHLORITE WHICH IS A MI LISTED WASTE. Ammonium hydroxide solutions must be <5%. An accumulation of nonlisted caustic waste at a TSDF. Waste may be expired products or spent solutions. No metal powders/fines - no Be/Al/Zn/Mg dusts/fines/pieces. <5000 ppm Total RCRA/UHC metals. <2000 mg/kg Cr, <500 mg/kg Cd, <150 mg/kg As, <260 mg/kg Hg total, <10 mg/L Hg TCLP, <150 mg/kg Se, <150 mg/kg Sb. No free mercury. No Michigan codes.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

- 5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES
5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No VARIES: D002, D004-D011
5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES
5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

*If you answered 'no' to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered 'yes' to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.*

Section 6 – Hazardous Wastes

- 6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No
6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No
6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No
6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No
6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No
6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No
6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either "Below" or "Above" MUST be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level	Concentration	Code	Regulatory Level	Concentration
	TCLP (mg/l)	(if above)		TCLP (mg/l)	(if above)
D004	Arsenic	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium	100 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium	1 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene	7.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury	0.2 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene	0.7 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium	1 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene	0.13 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor	0.008 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin	0.02 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene	0.13 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane	0.4 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor	10 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane	3.0 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D	10 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene	2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex)	1 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol	100 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine	5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene	0.7 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane	0.03 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene	100 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol	400 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform	6.0 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol	2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride	0.2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

- 6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHA? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHA identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No
9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☒ No (5-Gallon Sample required for all reclaim waste streams)

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Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

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I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

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Company _____ Title _____ Date _____

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"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.



WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: Generic: Chromic Acid Liquid for Stabilization

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☒ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name RQ WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS, 8, UN3264, PG II

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)
☐ Bulk Solid (Yd³ < 2000 lbs/yd³)
☐ Bulk Solid (Ton >2000 lbs/yd³)
☐ Bulk Liquids (Gallon)
☐ Totes, Size _____
☐ Cubic Yard Boxes/Bags
☒ Drums, Size VARIES
☒ Other (palletized, 5 gal. Pail, etc.) PAILS
 Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE TO MILD

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F: ☐ Solid ☐ Dust/Powder ☒ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5

3.6) What is the flash point of this waste? ☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.7) Does this waste contain? (check all that apply)

☐ Biodegradable Sorbants ☐ Amines ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Dioxins ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates
☐ Furans

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

CHROMIC ACID SOLUTIONS 100 to 100 % to %
to % to %

Total: 100%

4.2) Provide a detailed description of the process generating this waste (attach flow diagram if available).

Accumulation of nonlisted metal wastes by TSDF. Waste may include expired product or spent solution. No precursors to listed codes if WW treated.

<5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. No D001.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES
5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No Varies: D002, D004-D011
5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES
5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

If you answered 'no' to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered 'yes' to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 6 – Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No
6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No
6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No
6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No
6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No
6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No
6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either "Below" or "Above" MUST be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level TCLP (mg/l)	Concentration (if above)	Code	Regulatory Level TCLP (mg/l)	Concentration (if above)
D004	Arsenic 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium 100	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene 7.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury 0.2	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor 0.008	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin 0.02	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane 0.4	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane 3.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex) 1	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine 5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane 0.03	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol 400	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform 6.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride 0.2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No
9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

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In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.



WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: Generic Acid: Mineral Acids (greater than 30%)

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☒ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS, 8, UN3264, PG I, II, or III

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)
☐ Bulk Solid (Yd³ < 2000 lbs/yd³)
☐ Bulk Solid (Ton >2000 lbs/yd³)
☐ Bulk Liquids (Gallon)
☐ Totes, Size _____
☐ Cubic Yard Boxes/Bags
☒ Drums, Size VARIES
☒ Other (palletized, 5 gal. Pail, etc.) PAILS

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE TO MILD

3.3) Does this waste contain any “Potentially Odorous Constituents” as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F:

☐ Solid ☐ Dust/Powder ☒ Liquid ☒ Sludge
☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5
☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.5) What is the pH of this waste?

3.6) What is the flash point of this waste?

3.7) Does this waste contain? (check all that apply)

☐ Biodegradable Sorbants ☐ Amines ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Radioactive Waste ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates
☐ Dioxins ☐ Furans

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

SOLUTIONS OF INORGANIC MINERAL ACIDS 100 to 100 % HYDROCHLORIC ACID SOLUTION 0 to 100 %

PHOSPHORIC ACID SOLUTION 0 to 100 % SULFURIC ACID SOLUTION 0 to 100 %

Total: 100%

4.2) Provide a *detailed* description of the process generating this waste (attach flow diagram if available).

NO FUMING ACIDS. NO CHROMIC, NITRIC, OR HYDROFLUORIC ACIDS. Acid concentration greater than 30% combined. Accumulation of non-listed mineral acids by TSDF. Waste may include expired products or spent solutions. <5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. No Michigan codes.

Combinations with other acid types must be profiled separately.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

- 5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES
5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No Varies: D002, D004-D011
5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES
5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

*If you answered ‘no’ to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered ‘yes’ to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.*

Section 6 – Hazardous Wastes

- 6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No
6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No
6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No
6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No
6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No
6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No
6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either “Below” or “Above” **MUST** be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level	Concentration	Code	Regulatory Level	Concentration
	TCLP (mg/l)	(if above)		TCLP (mg/l)	(if above)
D004	Arsenic 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium 100	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene 7.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury 0.2	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor 0.008	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin 0.02	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane 0.4	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane 3.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex) 1	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine 5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane 0.03	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol 400	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform 6.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride 0.2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

- 6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No

- 9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No

For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

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Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.



WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: Generic Acid: Nitric Acid (10-70%)

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☒ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS, 8, UN3264, PG I, II, or III

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)
☐ Bulk Solid (Yd³ < 2000 lbs/yd³)
☐ Bulk Solid (Ton >2000 lbs/yd³)
☐ Bulk Liquids (Gallon)
☐ Totes, Size _____
☐ Cubic Yard Boxes/Bags
☒ Drums, Size VARIES
☒ Other (palletized, 5 gal. Pail, etc.) PAILS
 Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE TO MILD

3.3) Does this waste contain any “Potentially Odorous Constituents” as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F: ☐ Solid ☐ Dust/Powder ☒ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5

3.6) What is the flash point of this waste? ☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.7) Does this waste contain? (check all that apply)

☐ Biodegradable Sorbants ☐ Amines ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Dioxins ☐ Furans ☐ Pyrophoric Waste ☐ Isocyanates

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

SOLUTIONS OF NITRIC ACID 10 to 70 % to %

WATER to % to %

Total: 100%

4.2) Provide a *detailed* description of the process generating this waste (attach flow diagram if available).

NO FUMING ACIDS. Acid concentration must be <70%. An accumulation of nitric acid solutions collected at a TSDF. Waste may include expired products and spent solutions. No listed waste is included. <5000 ppm total RCRA/UHC metals. <2000 mg/kg chromium, <500 ppm cadmium, <150 ppm arsenic, <260 ppm total mercury, <10 ppm TCLP mercury, <150 ppm selenium, <150 ppm antimony. No free mercury. Combinations with other acid types must be profiled separately.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

- 5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES
5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No Varies: D002, D004-D011
5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES
5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

If you answered ‘no’ to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered ‘yes’ to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 6 – Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No

6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either “Below” or “Above” MUST be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level	Concentration	Code	Regulatory Level	Concentration
	TCLP (mg/l)	(if above)		TCLP (mg/l)	(if above)
D004	Arsenic	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium	100 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium	1 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene	7.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury	0.2 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene	0.7 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium	1 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene	0.13 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver	5 <input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor	0.008 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin	0.02 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene	0.13 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane	0.4 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor	10 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane	3.0 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D	10 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene	2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex)	1 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol	100 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine	5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene	0.7 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane	0.03 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene	0.5 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene	100 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol	400 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform	6.0 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol	2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol	200 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride	0.2 <input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHA? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHA identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No

- 9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No

For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

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The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

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WASTE CHARACTERIZATION REPORT

Tracking #

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<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: Generic Acid: Hydrofluoric Acid (<20%)

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☒ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name RQ WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS, 8, UN3264, PG I, II, or III

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)
☐ Bulk Solid (Yd³ < 2000 lbs/yd³)
☐ Bulk Solid (Ton >2000 lbs/yd³)
☐ Bulk Liquids (Gallon)
☐ Totes, Size _____
☐ Cubic Yard Boxes/Bags
☒ Drums, Size VARIES
☒ Other (palletized, 5 gal. Pail, etc.) PAILS

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE TO MILD

3.3) Does this waste contain any “Potentially Odorous Constituents” as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F: ☐ Solid ☐ Dust/Powder ☒ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5

3.6) What is the flash point of this waste? ☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.7) Does this waste contain? (check all that apply)

☐ Biodegradable Sorbants ☐ Amines ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Dioxins ☐ Furans ☐ Pyrophoric Waste ☐ Isocyanates

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

SOLUTIONS OF HYDROFLUORIC ACID 0 to 20 % to %

WATER to % to %

Total: 100%

4.2) Provide a detailed description of the process generating this waste (attach flow diagram if available).

NO FUMING ACIDS. Acid concentration must be <20%. Accumulation of nonlisted hydrofluoric acid by TSDF. No U134 listed waste. <5000ppm Total

RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic

codes/UHCs. No free mercury. Mixtures with other acid types must be profiled separately.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

- 5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES
- 5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No Varies: D002, D004-D011
- 5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES
- 5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

If you answered ‘no’ to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered ‘yes’ to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 6 – Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No

6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either “Below” or “Above” MUST be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level TCLP (mg/l)	Concentration (if above)	Code	Regulatory Level TCLP (mg/l)	Concentration (if above)
D004	Arsenic 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium 100	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene 7.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury 0.2	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor 0.008	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin 0.02	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane 0.4	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane 3.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex) 1	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine 5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane 0.03	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol 400	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform 6.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride 0.2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No

- 9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.



WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: Generic Acid: Mineral Acids (less than 30%)

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☒ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS, 8, UN3264, PG I, II, or III

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)

☐ Bulk Solid (Yd³ < 2000 lbs/yd³)

☐ Bulk Solid (Ton >2000 lbs/yd³)

☐ Bulk Liquids (Gallon)

☐ Totes, Size _____

☐ Cubic Yard Boxes/Bags

☒ Drums, Size VARIES

☒ Other (palletized, 5 gal. Pail, etc.) PAILS

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE TO MILD

3.3) Does this waste contain any “Potentially Odorous Constituents” as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F:

☐ Solid ☐ Dust/Powder ☒ Liquid ☒ Sludge
☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5
☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.5) What is the pH of this waste?

3.6) What is the flash point of this waste?

3.7) Does this waste contain? (check all that apply)

☐ Biodegradable Sorbants ☐ Amines ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Radioactive Waste ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates
☐ Dioxins ☐ Furans

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

<30% SOLUTION OF INORGANIC MINERAL ACIDS 100 to 100 % <30% SOLUTION OF HYDROCHLORIC ACID 0 to 100 %

<30% SOLUTION OF PHOSPHORIC ACID 0 to 100 % <30% SOLUTION OF SULFURIC ACID 0 to 100 %

Total: 100%

4.2) Provide a *detailed* description of the process generating this waste (attach flow diagram if available).

NO FUMING ACIDS. NO CHROMIC, NITRIC, OR HYDROFLUORIC ACIDS. Acid concentration less than 30% combined. Accumulation of non-listed mineral acids by TSDF. Waste may include expired products or spent solutions. <5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. No Michigan codes.

Combinations with other acid types must be profiled separately.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

- 5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES
5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No Varies: D002, D004-D011
5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES
5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

*If you answered ‘no’ to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered ‘yes’ to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.*

Section 6 – Hazardous Wastes

- 6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No
6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No
6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No
6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No
6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No
6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No
6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either “Below” or “Above” MUST be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level TCLP (mg/l)	Concentration (if above)	Code	Regulatory Level TCLP (mg/l)	Concentration (if above)
D004	Arsenic 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium 100	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene 7.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury 0.2	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor 0.008	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin 0.02	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane 0.4	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane 3.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex) 1	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine 5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane 0.03	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol 400	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform 6.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride 0.2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

- 6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No

- 9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No

For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.



WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: Generic Acid: Organic Acid Solutions

Section 1 – Generator & Customer Information

SIC/NAICS* _____

Generator EPA ID # _____

Generator _____

Facility Address _____

City _____ State _____ Zip _____

County _____

Mailing Address _____

City _____ State _____ Zip _____

Generator Contact _____

Title _____

Phone _____ Fax _____

Internal Use Only: EQ Division _____

EQ Customer No. _____

Invoicing Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Invoicing Contact _____

Phone _____ Fax _____

Technical Contact _____

Phone _____ Fax _____

Mobile _____ Pager _____

E-mail _____

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☒ Year ☐ Quarter ☐ Month

2.2) DOT Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, ORGANIC, NOS, 8, UN3265, PG I, II, or III

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)

☐ Bulk Solid (Yd³ < 2000 lbs/yd³)

☐ Bulk Solid (Ton >2000 lbs/yd³)

☐ Bulk Liquids (Gallon)

☐ Totes, Size _____

☐ Cubic Yard Boxes/Bags

☒ Drums, Size VARIES

☒ Other (palletized, 5 gal. Pail, etc.) PAILS

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE TO MILD

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F: ☐ Solid ☐ Dust/Powder ☒ Liquid ☐ Sludge

3.5) What is the pH of this waste? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5

3.6) What is the flash point of this waste? ☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.7) Does this waste contain? (check all that apply)

☐ Biodegradable Sorbants ☐ Amines ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines
☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Ammonia ☐ Water Reactive ☐ Biohazard ☐ Aluminum
☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Dioxins ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates
☐ Furan

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

SOLUTIONS OF ORGANIC ACIDS 0 to 100 % to %

WATER 0 to 100 % to %

Total: 100%

4.2) Provide a detailed description of the process generating this waste (attach flow diagram if available).

NO ACETIC ACID NOR FORMIC ACID. ACID LIST AND CONCENTRATIONS MUST BE SENT UPON SCHEDULING. No listed wastes.

Accumulation of organic acids by TSDF. Waste may include expired products or spent solutions (eg lactic acid, glycolic acid). <5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. No MI codes. Combinations with other acid types must be profiled separately.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

- 5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES
- 5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No Varies: D002, D004-D011
- 5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES
- 5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

If you answered 'no' to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered 'yes' to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 6 – Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No

6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either "Below" or "Above" MUST be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level	Concentration	Code	Regulatory Level	Concentration
	TCLP (mg/l)	(if above)		TCLP (mg/l)	(if above)
D004	Arsenic 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium 100	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene 7.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury 0.2	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor 0.008	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin 0.02	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane 0.4	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane 3.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex) 1	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine 5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane 0.03	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol 400	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform 6.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride 0.2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No

- 9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No

For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☐ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
UHCs VARY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
UHCs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.



WASTE CHARACTERIZATION REPORT

Tracking #

☒ I authorize EQ – The Environmental Quality Company to choose the appropriate facility and method of waste management from the technologies offered at the EQ facilities identified below.

<input type="checkbox"/> Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 000 724 831
<input type="checkbox"/> Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. I-94 Service Drive, Belleville, MI 48111 Phone: 800-592-5489 Fax: 800-592-5329	EPA ID # MID 048 090 633
<input checked="" type="checkbox"/> EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: 313-923-3375	EPA ID # MID 980 991 566
<input type="checkbox"/> EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 Phone: 866-373-8357 Fax: 734-326-4033	EPA ID # MID 060 975 844
<input type="checkbox"/> EQ North Carolina (Stabilization, Treatment, Labpack Decommissioning)	1005 Investment Blvd, Apex, NC 27502 Phone: 919-363-4700 Fax: 919-363-4714	EPA ID # NCD 982 170 292
<input type="checkbox"/> EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East 8 th Ave, Tampa, FL 33619 Phone: 813-623-5463 Fax: 813-628-0842	EPA ID # FLD 981 932 494
<input type="checkbox"/> EQ Transfer & Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: 313-923-0080 Fax: 313-922-8419	EPA ID # MIK 939 928 313
<input type="checkbox"/> EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 Phone: 317-247-7160 Fax: 317-247-7170	EPA ID # IND 161 049 309
<input type="checkbox"/> EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 Phone: 404-494-3520 Fax: 404-494-3560	EPA ID # GAR 000 039 776
<input type="checkbox"/> EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID # GAR 000 011 817

Waste Common Name: GENERIC : ORGANIC ALKALINE

Section 1 – Generator & Customer Information

SIC/NAICS*	Internal Use Only: EQ Division
Generator EPA ID #	EQ Customer No.
Generator	Invoicing Company
Facility Address	Address
City State Zip	City State Zip
County	Country
Mailing Address	Invoicing Contact
City State Zip	Phone Fax
Generator Contact JT	Technical Contact
Title	Phone Fax
Phone Fax	Mobile Pager
	E-mail

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency VARIES - GENERIC
☐ One Time Only ☐ Year ☐ Quarter ☒ Month

2.2) DOT Shipping Name VARIES

2.3) Is this waste surcharge exempt? ☐ Yes ☒ No
 If yes, please attach a surcharge exemption form, found in Section 2 of the EQ Resource Guide.

2.4) Packaging (check all that apply)

☐ Bulk Solid (Yd³ < 2000 lbs/yd³)
☐ Bulk Solid (Ton >2000 lbs/yd³)
☐ Bulk Liquids (Gallon)
☐ Totes, Size
☐ Cubic Yard Boxes/Bags
☒ Drums, Size VARIES
☒ Other (palletized, 5 gal. Pail, etc.) DM05

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 – Physical Characteristics

3.1) Color VARIES 3.2) Odor NONE / MILD

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) ☐ Yes ☒ No

3.4) Physical State at 70°F: ☐ Solid ☐ Dust/Powder ☒ Liquid ☒ Sludge

3.5) What is the pH of this waste? ☐ ≤2 ☐ 2.1-4.9 ☒ 5-10 ☒ 10.1-12.4 ☒ ≥12.5

3.6) What is the flash point of this waste? ☐ <90°F ☐ 90-140°F ☐ 140-199°F ☒ >200°F

3.7) Does this waste contain? (check all that apply) ☐ None ☒ Free Liquids ☐ Oily Residue ☐ Metal Fines

☒ Biodegradable Sorbants ☒ Amines ☒ Ammonia ☐ Water Reactive ☐ Aluminum

☐ Shock Sensitive Waste ☐ Reactive Waste ☐ Radioactive Waste ☐ Explosives ☐ Pyrophoric Waste ☐ Isocyanates

☐ Asbestos – non-friable ☐ Asbestos – friable ☐ Dioxins ☐ Furans

Section 4 – Waste Composition and Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

ORGANIC ALKALINE WASTE 100 to 100 % to %

(typically surfactants/amines) to % to %

Total: 100%

4.2) Provide a detailed description of the process generating this waste (attach flow diagram if available).

Accumulation of organic alkaline materials through a TSDF. NO BULK w/o a sample for review. Amine/ammonia concentration must be <5% - must be technically approved prior to shipment. No flammable mat'l. No metal powders/fines - no Be/Al/Zn/Mg dusts/fines/pieces. <5000 ppm Total RCRA/UHC metals. <2000 mg/kg Cr, <500 mg/kg Cd, <150 mg/kg As, <260 mg/kg Hg total, <10 mg/L Hg TCLP, <150 mg/kg Se, <150 mg/kg Sb. No free mercury.

Typical alkalines would include surfactants / amines.

Section 5 – Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No NO LISTED SOURCES

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No VARIES: D002, D004-D011

5.3) Do any State Hazardous Waste Codes apply? ☐ Yes ☒ No NO MICHIGAN CODES

5.4) Is this waste intended for wastewater treatment? ☐ Yes* ☒ No

If you answered 'no' to 5.1, 5.2, and 5.3, please skip to Section 7. *If you answered 'yes' to 5.4, please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 6 – Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No

6.2) Is the waste an oxidizer (D001)? ☐ Yes ☒ No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? ☐ Yes ☒ No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? ☐ Yes ☒ No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either "Below" or "Above" MUST be checked for each constituent.

Based On: ☒ Generator Knowledge ☒ Analysis* ☐ MSDS*
*Please attach a copy. Analysis or MSDS are required for EQFL Non-hazardous wastes.

Code	Regulatory Level	Concentration	Code	Regulatory Level	Concentration
	TCLP (mg/l)	(if above)		TCLP (mg/l)	(if above)
D004	Arsenic 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D024	m-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D005	Barium 100	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D025	p-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D006	Cadmium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D026	Cresols 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D007	Chromium 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D027	1,4-Dichlorobenzene 7.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D008	Lead 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D028	1,2-Dichloroethane 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D009	Mercury 0.2	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D029	1,1-Dichloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D010	Selenium 1	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D030	2,4-Dinitrotoluene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D011	Silver 5	<input type="checkbox"/> Below <input checked="" type="checkbox"/> Above	D031	Heptachlor 0.008	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D012	Endrin 0.02	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D032	Hexachlorobenzene 0.13	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D013	Lindane 0.4	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D033	Hexachlorobutadiene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D014	Methoxychlor 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D034	Hexachloroethane 3.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D015	Toxaphene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D035	Methyl Ethyl Ketone 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D016	2,4-D 10	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D036	Nitrobenzene 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D017	2,4,5-TP (Silvex) 1	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D037	Pentachlorophenol 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D018	Benzene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D038	Pyridine 5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D019	Carbon Tetrachloride 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D039	Tetrachloroethylene 0.7	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D020	Chlordane 0.03	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D040	Trichloroethylene 0.5	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D021	Chlorobenzene 100	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D041	2,4,5-Trichlorophenol 400	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D022	Chloroform 6.0	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D042	2,4,6-Trichlorophenol 2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above
D023	o-Cresol 200	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above	D043	Vinyl Chloride 0.2	<input checked="" type="checkbox"/> Below <input type="checkbox"/> Above

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? ☒ Yes ☐ No
If yes, please list the constituents in Section 11.

Section 7 – Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide

Please list applicable waste code:

- 7.1) Is this a Michigan non-hazardous liquid industrial waste? ☐ Yes ☒ No
7.2) Is this a Universal waste? ☐ Yes ☒ No
7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) ☐ Yes ☒ No
7.4) Is this waste a recoverable petroleum product? ☐ Yes* ☒ No
7.5) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes* ☒ No

If you answered 'yes' to questions 7.4 or 7.5 please attach the Waste Characterization Report Addendum found in Section 7 of the EQ Resource Guide.

Section 8 – TSCA Information

- 8.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-5 ppm ☐ 6-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No
If you answered "no" to 8.1 and 8.2, please skip to Section 9.
8.3) Has this waste been processed into a non-liquid form? ☐ Yes ☐ No
If yes, what was the concentration of PCBs prior to processing? ☐ N/A ☐ 0-499 ppm ☐ 500+ ppm
8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 9 – Clean Air Act Information

- 9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? ☐ Yes ☒ No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants – VOHAP's or Volatile Organic Compounds – VOC's?)

For a complete list of VOHAP's, please see Section 11 of the EQ Resource Guide

- 9.2) Is the site, or waste, subject to any other MACT or NESHAP? ☐ Yes, please specify: ☒ No
9.3) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 9.3, please skip to Section 10.

- 9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? ☐ Yes ☐ No
9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? ☐ Yes ☐ No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "no" to question 9.4 and 9.5, please skip to Section 10.

- 9.6) Does the waste contain $>10\%$ water? ☐ Yes ☐ No
9.7) What is the TAB quantity for your facility? _____ Mg/Year ☐ Yes ☐ No
9.8) Does the waste contain >1.0 mg/kg total Benzene? ☐ Yes ☐ No
9.9) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

Section 10 – Fuel Blending Information

- 10.1) Is this waste intended for fuel blending? ☐ Yes* ☒ No
*If yes, Heat value (BTU/lb.) Chlorine (%) Water (%) Solids (%)
10.2) Is this waste intended for reclamation? ☐ Yes ☒ No (5-Gallon Sample required for all reclaim waste streams)

Section 11 – Constituent Information

Please identify your waste constituents from these four categories: Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)

Constituent	Concentration	UHC?	Constituent	Concentration	UHC?
VARIES	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
NO ORGANIC UHCs		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Antimony <150 mg/kg	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature _____ Printed Name _____

Company _____ Title _____ Date _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

APPENDIX L

Proof of Publication of Notice

Pursuant to 62-730.292(6), F.A.C., proof of publication and broadcast required under this permit application will be provided to the Department no later than 45 days after receipt of the Department's intended action.

APPENDIX M

Preparedness and Prevention Plan and Hazardous Waste Contingency/Emergency Response Plan

Preparedness and Prevention Plan and Hazardous Waste Contingency/Emergency Response Plan

FOR



Hazardous Waste Treatment and Storage Facility

AT

**2002 North Orient Road
Tampa, FL 33619**

Permit No.: 34875-HO-010

Prepared For:

**EQ Florida, Inc.
7202 East 8th Avenue
Tampa, FL 33619**

Prepared By:

**KCI Technologies, Inc.
10401 Highland Manor Drive, Suite 120
Tampa, FL 33610
Project No. 12123014**

**Revision: 01
November~~July~~ 2013**

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17.0 FACILITY PREPAREDNESS AND PREVENTION

EQFL has an Emergency Action Plan (Appendix A) as well as this PPP/CP. As requested by FDEP, the Hurricane Response information provided on the EPA Region 4 website is contained in Appendix B. The PPP and CP for EQFL will be updated annually and are described in the sections below.

17.1 Design and Operation of Facility

EQ Florida, Inc. (EQ) operates a hazardous waste storage, treatment, and transfer facility (Figure 1) at:

2002 N. Orient Road
Tampa, Florida 33619
FLD 981 932 494

The EQFL facility was specially designed and built for hazardous waste storage, transfer, and treatment. The facility consists of a 4.46 acre MOL site with a loading/unloading area, office building, 5,866 square foot MOL storage building, a 1,786 square foot MOL improved secondary containment area and an 8,050 square foot covered waste processing building that will house the relocated solid waste solidification pit; existing shredder; new, on-ground hazardous waste treatment/solidification unit/tank, a reactivities magazine and, just outside the northeast corner of the building, a new 6,000-gal oil-water separator. Facility boundary survey and layout plans are provided as Figures ~~6-1~~ and ~~7-2~~, respectively.

The office building does not conduct commercial hazardous waste storage, transfer, or treatment. The EQFL quality control laboratory is located in the office building (Figure 1~~1-1~~). The lab generates small quantities (5 gallons or less) of satellite accumulation wastes, which are taken to the hazardous waste storage building for storage prior to shipment to an off-site permitted disposal facility.

The loading/unloading area is used for the loading, unloading, and permitted 10-day transfer storage of hazardous waste. Transport vehicles delivering shipments of hazardous waste back into any one of seven available loading/unloading docks. The docks have roll-up doors, which allow unloading directly from transport vehicle to the waste storage building. Outbound waste shipments are loaded in a similar manner. The loading and unloading areas are shown on Figure ~~16-33~~. ~~Loading, unloading, and transfer facility operations are described in more detail in Section 13.0 of this permit application.~~

The waste is loaded directly from the storage building to the transport vehicle. The loading/unloading area is an impervious contained surface constructed of concrete and asphalt. An epoxy coating covers the 10,000-gallon improved containment area in front of Bay 2. There is a 60-foot roof overhang from the storage building over the loading/unloading area. All stormwater run-offs from the loading/unloading area can be contained and inspected prior to release to the stormwater management system. Surface water flow and the stormwater management system are shown on Figure ~~13-44~~ and described in more detail in the ~~Section 13.12 of this permit application.~~

The hazardous waste storage building was designed and built specifically for hazardous waste storage, transfer, and treatment. The building is 5,866 square feet (MOL) and features a floor that is five inches of 4,000 psi concrete placed monolithically and coated with a chemical resistant sealant and two layers of chemical resistant polyurethane coating. ~~Manufacturer's specifications for the coatings are included in Appendix I.~~ The container storage area consists of three separate bays. An eight-inch wide concrete block wall separates each bay. The walls extend from the floor to the roof and are designed with a

minimum fire resistance of ~~4~~(four) hours. Storage Bays 1 and 3 are at opposite ends of the building and have identical dimensions of approximately ~~48-feet-ft.~~ by ~~50-feet-ft.~~

Storage Bay 2 is in the center of the building approximately half the size of Bays 1 and 3. The dimensions of Bay 2 are approximately ~~22-22-ft.~~ by ~~50-50-ft.~~ The storage building has five separate containment sumps with a capacity of 1,001 gallons each. This provides a total of 5,005 gallons of containment sump capacity. The floors of each bay are sloped 1/8 inch per foot to each containment sump. The 1/8 inch per foot slope of the floors provides additional containment beyond the 1,001 gallons of each containment sump. Conservatively, the additional containment available from the floor slope has not been included in containment calculations. Each containment sump is available to contain spills or leaks of different hazard class materials. This eliminates the potential for incompatible materials to spill or leak into the same containment sump. The sloping of the floors directs potential spills or leaks to the appropriate containment sump. Two sumps each are in Bays 1 and 3 and one sump is in Bay 2. ~~Containment is described in more detail in the Containment section of this permit renewal.~~ The hazardous waste storage/management building is shown on Figure ~~14-55~~ and the as-built record drawings for the building are included in Appendix D.

The facility operations approved in the original permit (i.e., container storage and treatment) will be retained, and the facility will construct and operate an on-ground treatment unit/tank where the solid waste treatment unit currently exists in the 8,050 square foot covered waste processing building. This building will eventually house the relocated solid waste solidification pit; existing shredder; new, on-ground hazardous waste treatment/solidification unit/tank and an explosives magazine. The purpose of the new unit is to treat characteristically hazardous waste codes D002 (corrosivity); D004 (arsenic); D005 (barium); D006 (cadmium); D007 (chromium); D008 (lead); D009 (mercury); D010 (selenium); and D011 (silver). No listed hazardous wastes ~~are being proposed for treatment will be treated~~ at the facility.

The reactives magazine will be housed in the covered waste processing building, in the west central part of the structure. The location of the magazine is shown on Figure ~~15A-66~~, and the specifications are provided in Appendix I.

EQFL will also add a 6,000 gal oil/water separator outside the waste processing building on the northeast corner. ~~Refer to Sections 2.3.9 and 15.2 for additional details.~~ A detailed schematic regarding the oil/water separator is provided as Figure 77.

As shown on the containment building improvements plan (Figure ~~15A-66~~), the area in the southern part of the building just to the west of the treatment tank will be used to store reagents used in the treatment process and to temporarily stage drums/totes scheduled for treatment.

71.2 Required Equipment

17.2.1 Internal Communications

The facility is equipped with an internal communications and alarm system capable of providing immediate emergency instruction (or signal) to facility personnel. Internal communications and alarms consist of the following:

1. Emergency air horns;
2. Pull alarms; and
3. Telephones.

17.2.2 External Communications

The facility is equipped with telephones and pull alarms capable of summoning emergency assistance from local police departments, fire departments, or other emergency response departments. Local emergency assistance is readily available by dialing 911. The facility fire alarms are direct to the Tampa Fire Department.

17.2.3 Fire, Spill and Decontamination Equipment

The facility is equipped with portable, multipurpose (ABC) fire extinguishers; Halon and Metal-X fire extinguishers are also available. The hazardous waste storage building is equipped with sprinkler systems. The facility is equipped with smoke and flame detectors. The facility has a continuous automatic fire monitoring system. Fire alarms automatically notify the Tampa Fire Department of emergency fire or smoke conditions.

The flammable materials storage bay (Bay 2) is equipped with an automatic high expansion foam fire suppression system. Bay 2 is also equipped with a lower explosive limit (LEL) monitoring system. The LEL meters are mounted so that vapors less dense than air and vapors more dense than air are both monitored. Emergency exhaust fan ventilation is automatically activated at 10% of LEL. The foam system is automatically activated at 10% of LEL. An alarm to the Tampa Fire Department is also activated at the 10% LEL. Fire control equipment is identified on the building as-built record drawings included in Appendix D.

The new industrial shredder located in the waste processing building is intrinsically safe and has a self-contained CO₂ fire suppression system. The fire suppression system utilizes automatic detection, manual activation, notification signals and relay contacts for equipment shutdown controls. The system automatically notifies the Tampa Fire Department of emergency fire conditions. ~~For further information regarding the shredder system, please refer to the shredder system as built documentation provided as Appendix L to Volume 3 of 3.~~

Spill control, ~~fire, explosion~~ and other supplemental safety equipment are located throughout the facility. The equipment is readily available to facility personnel. The equipment is described in the Contingency Plan ~~(see Section 8.0)~~ Section 2.3 of this document and the supplemental emergency equipment listed in Appendix HCC. Decontamination equipment is readily available at the facility. The need for decontamination is minimal. Most personal protective equipment (PPE) and sampling equipment is disposable, thereby eliminating the need for decontamination. Water and decontamination solutions such as trisodiumphosphate (TSP), bleach, detergent, lime, and citric acid, are available for decontamination. Mercury spill cleanup materials (e.g. HgX, Mercsorb or equivalent) are also available.

17.2.4 Water Volume and Pressure

The facility has water available at adequate volume and pressure to supply firefighting equipment. The water volume is rated at 463 gallons per minute (gpm) volume and 32.4 pounds per square inch (psi) pressure at the base of a 6-inch diameter riser. A jockey pump connected to the city water supply augments the suppression system.

17.3 Testing and Maintenance of Equipment

All equipment at the EQFL facility will be maintained and tested in accordance with the manufacturer's recommendations. EQFL has a maintenance agreement with a fire control firm to maintain the fire control equipment. The equipment included in this agreement include the foam, LEL, smoke detector, flame detector, fire control panel, sprinkler, water, piping, and fire alarm systems. EQFL will inspect this equipment as outlined in the inspection plan. The fire control firm will inspect the equipment (at minimum) annually. This will serve to keep the equipment operational for use in times of emergency.

17.4 Access to Communications or Alarm Systems

Communications and alarm systems are indicated on the building as-built record drawings included in Appendix D. Access to communications and alarm systems is readily available to all employees regardless of their location. It is EQFL company policy that at least two employees will be present before entering any active operating portion of the facility. If there is ever just one employee entering any active operating portion of the facility, the employee will have immediate access, at the scene of operation, to a communications device (such as telephone) capable of summoning external emergency assistance.

17.5 Required Aisle Space

The EQFL facility has been designed for the safe unobstructed movement of personnel, fire protection equipment, spills control equipment, and decontamination equipment to any area of facility operation in an emergency. There will be a minimum of two feet of aisle space between double rows of containers (or between rows of pallets of containers). The actual aisle space between rows of containers and pallets is usually three feet. The hazardous waste storage/management building is shown on Figure 14-7 and the as-built record drawings for the building are included in Appendix D. Containers (or pallets of containers) may be stored over the containment sumps. The containment sumps will be visible and aisle space will be maintained with containers (or pallets of containers) stored over the sump. The containers (or pallets of containers) can easily be moved to remove any material from the sumps. No containers (or pallets of containers) will be stored within two feet of any safety equipment located on any wall. Adequate aisle space will be maintained to access all safety, spill control, and decontamination equipment stored along any wall. Hazardous waste inbound, outbound, and transfer facility shipments are loaded on transportation vehicles in accordance with all applicable DOT and RCRA regulations. Materials such as containers or pallets of containers can be easily unloaded and transferred to the storage building or another transport vehicle should any emergency require unloading of waste containers from a transport vehicle.

17.6 Arrangements with Local Authorities

The EQFL Contingency Plan has been submitted to all required agencies in both hard copy and electronic format. A list of these agencies is provided in the Contingency Plan (Section 2.2). All agencies have been invited to tour the facility to become familiar with the layout, properties of hazardous waste managed at the facility and associated hazards, places where facility personnel would normally be working, entrances to and roads inside the facility, and facility evacuation routes.

No agency identified in the EQFL Contingency Plan has notified EQFL that they would not be able to respond to any potential emergency. Most of the agencies listed have utilized or contracted EQFL for emergency response operations. This has provided a degree of familiarity between EQFL and responding agency personnel.

28.0 HAZARDOUS WASTE CONTINGENCY/EMERGENCY RESPONSE PLAN

This Contingency/Emergency Response Plan contains detailed information on how the facility will respond to and report a hazardous waste incident at the facility. The various EQ emergency response coordinators are provided in the first section so they are readily available. Subsequent sections contain information on handling a response, interagency agreements, government agency notification, post-emergency operations and reporting.

28.1 General Information/Introduction

EQ Emergency Response Coordinator

At all times, there will be at least one employee either at the facility or on call with the responsibility for coordinating all emergency response operations. The coordinator and alternates are thoroughly familiar with all aspects of the EQ Contingency Plan, all facility operations, the location and characteristic of wastes managed, the location of facility records, and the facility layout. The designated Emergency Response Coordinator and Alternates are summarized below:

	<u>Coordinator</u>	<u>Primary Alternate</u>	<u>Secondary Alternate</u>
<u>Name</u>	<u>Gene Cieply</u>	<u>Stuart Stapleton</u>	<u>Ken Dean</u>
<u>Address</u>	<u>2051 Vista del Sol Circle Unit 207</u>	<u>619 Cedar Grove Dr.</u>	<u>30039 Bermuda Dunes Way</u>
<u>City, State, & Zip</u>	<u>Lutz, FL 33558</u>	<u>Brandon, FL 33511</u>	<u>Wesley Chapel, FL 33543</u>
<u>Work Phone #</u>	<u>813-319-3410</u>	<u>813-319-3423</u>	<u>813-319-3433</u>
<u>Home Phone #</u>	<u>813-777-3998</u>	<u>813-412-2302</u>	<u>813-994-3892</u>
<u>Mobile #</u>	<u>813-777-3998</u>	<u>813-770-9954</u>	<u>813-748-4403</u>

All emergency Coordinators and Alternates have authority to commit corporate funds and resources during an emergency incident involving a fire, explosion, or release of hazardous waste(s) and or constituents to the air, soil, surface water, or ground water at the facility which could threaten human health or the environment.

EQ Florida, Inc. (EQ) operates a hazardous waste storage, treatment, and transfer facility at:

2002 N. Orient Road
Tampa, Florida 33619
FLD 981 932 494

~~The facility consists of a 4.46 acres (M.O.L.) site. The storage and treatment areas are located within a 5,866 square foot building and the 1,786 square foot improved secondary containment area. The building is divided into three (3) Bays. Each of the bays has front and rear exits, spill containment sumps, safety and fire alarms and equipment. In addition, the facility includes an 8,050 square foot covered waste processing building that will house the relocated solid waste solidification pit; existing shredder; new, on-ground hazardous waste treatment/solidification unit/tank, an explosives magazine and, just outside the northeast corner of the building, a new 6,000 gal oil water separator. The equipment and systems are described in other sections of this Plan. Facility boundary survey and layout plans are provided as Figures 6 and 7, respectively.~~

The facility is designed to minimize the potential for any release of hazardous wastes or constituents. Vehicles are able to load and unload directly to and from the warehouse. Virtually any potential release would be contained by the warehouse and its sumps, or within the vehicle. The vehicle transfer area,

referred to as the covered processing area, is sloped and diked for containment (Figure 14). A 10,000-gallon epoxy lined improved secondary containment area is located in front of ~~Bay~~Bay 2. Waste materials are segregated by hazard class to insure that no incompatible wastes are stored together. All flammable materials are stored in a separate Bay designed solely for that purpose. The building is fully sprinkled. The flammable storage area has an automatic foam fire suppression system. The building has both smoke and flame detectors which are continuously monitored. A lower explosion limit (LEL) system is located in the flammable area. An automatic ventilation system is activated at 10% of the LEL. The automatic foam fire suppression system, fire alarm, and monitoring service emergency call to the Tampa Fire Department are activated at 10% of the LEL.

Fire extinguishers and fire hoses are located throughout the facility. Safety equipment, proximity suits, SCBA and material handling equipment are located at the site. Emergency safety equipment is listed in Appendix H. Hazardous materials potentially on-site may include: acids, alkalis, poisons, flammables, combustibles, oxidizers, reactives and other regulated solids or liquids which do not fall into these classifications. Most will be present in small quantities or in diluted concentrations when compared to the original raw material. No regulated radioactive, pathological, or explosive materials will be located at this facility. A daily inventory of all materials stored at this facility is readily available.

In the event of a power outage, emergency backup lighting is provided in the facility, and the ADT security system will activate its backup battery.

In order to prevent releases to the atmosphere, containers will remain closed at all times except when it is necessary to add or remove waste from the container.

All operations personnel at this site are trained in emergency response, hazardous waste operations, firefighting procedures, emergency first aid, and CPR.

28.1.1 Purpose

The purpose of this plan is to provide EQ employees and responding agencies with an organized procedure for responding to unusual occurrences or emergencies involving hazardous chemicals and/or wastes when such releases could cause potential harm to human health or the environment. This plan is designed to present as simply as possible the necessary steps required in an emergency.

Emergencies covered under this procedure are fires, explosions, floods, hurricanes or an unplanned sudden and non-sudden release into the environment of hazardous waste including liquids, vapors and particulates which could cause harm to human health or the environment.

28.1.2 Implementation

This Contingency Plan will be implemented immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents to air, soil, surface water, or groundwater at the facility, which could threaten human health or the environment.

28.1.3 Copies of Contingency Plan

~~A copy~~Copies of the Contingency Plan ~~is~~are maintained at both the office/administration Building 5 at the Orient Road and 8th Avenue (southern) property and at the facility. Key personnel such as Emergency Response Coordinators and Alternates also have copies of the Contingency Plan.

Copies of the Contingency Plan have previously been submitted to Tampa Police, Tampa Fire, FDEP, Tampa General Hospital and Brandon General Hospital and will be resubmitted following approval of this renewal permit application.

28.1.4 Amendment of Contingency Plan

The EQ Contingency Plan will be reviewed at least annually and immediately amended, if necessary, whenever:

1. The EQ facility permit is revised;
2. The plan fails in an emergency;
3. The facility changes design, construction, operation, maintenance, or other circumstances in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
4. The Emergency Coordinators list changes; or,
5. The emergency equipment list changes.

8.2 — EQ Emergency Response Coordinator

~~At all times, there will be at least one employee either at the facility or on call with the responsibility for coordinating all emergency response operations. The coordinator and alternates are thoroughly familiar with all aspects of the EQ Contingency Plan, all facility operations, the location and characteristic of wastes managed, the location of facility records, and the facility layout. The designated Emergency Response Coordinator and Alternates are summarized below:~~

	Coordinator	Primary Alternate	Secondary Alternate
Name	Gene Cieply	Stuart Stapleton	Ken Dean
Address	2051 Vista del Sol Circle Unit 207	619 Cedar Grove Dr.	30039 Bermuda Dunes Way
City, State, & Zip	Lutz, FL 33558	Brandon, FL 33511	Wesley Chapel, FL 33543

Work Phone #	813 319 3410	813 319 3423	813 319 3433
Home Phone #	813 777 3998	813 412 2302	813 994 3892
Mobile #	813 777 3998	813 770 9954	813 748 4403

~~All emergency Coordinators and Alternates have authority to commit corporate funds and resources during an emergency incident involving a fire, explosion, or release of hazardous waste(s) and/or constituents to the air, soil, surface water, or ground water at the facility which could threaten human health or the environment.~~

2.28.3 Coordination Agreements

The City of Tampa Fire Department, Tampa Police Department, FDEP, hospitals (Tampa General and Brandon General Hospitals) and an outside spill response contractor have been notified as to the operation of this facility. All agencies have been invited to inspect the site and become aware and familiar of waste locations, access, on-site emergency equipment, and available fire protection items. A copy of the contingency plan has been sent to these organizations. An agency notification contact list is provided below.

Agency	Emergencies Notified For:	Telephone #
Tampa Fire Department	Any Potential fire or explosion	911 (Emergencies) 813-232-6800
Tampa Police Department	Any evacuation, traffic or security issue	911 (Emergencies) 813-231-6130
Florida Department of Environmental Protection (FDEP) Tallahassee State Watch Office	All Contingency Plan incidents	850-413-9911(24hr) 850-245-8705800-320-0519
<u>State Emergency Response Team</u>	<u>All Contingency Plan incidents</u>	<u>850-413-9111</u>
Florida DEP SW District	All Contingency Plan incidents	813-470-5700632-7600
EQ Florida, Inc.	All Contingency Plan incidents	813-623-5302 800-624-5302(24hr)
Brandon General Hospital	Any Medical emergency	911 (Emergencies) 813-681-5551
Tampa General Hospital	Any Medical emergency	911 (Emergencies) 813-844-7000

2.38.4 Emergency Equipment & Communications Systems

This chapter describes the emergency equipment and alarm systems within the waste management building and the waste processing building at the EQ facility. ~~The SupplementalAdditional~~ emergency and safety equipment located at EQ FL is listed in Appendix ~~CH~~ and summarized below:

1. **Fire extinguishers** are located throughout the building and prominently identified by signs and red markings. ABC extinguishers are located in Bays 1 and 3. Halon and metal-x extinguishers are located in the flammable storage area (Bay 2). ABC fire extinguishers are also located throughout the waste processing building and prominently identified by signs and red markings.
2. **Chemical Spill Treatment Kit** containing 6 2-pound containers of Spill-X-S (100% carbon) used for solvent spills is located in Bay 2.
3. **Oil-Dri** and **Vermiculite** are used for solvent and oil spills. Located on the ramp leading to Bay 3 in bags identified with the words Oil-Dri or Vermiculite.
4. **Soda Ash** is used to neutralize acids. Located in Bay 1 in bags identified by the words Soda Ash.
5. **Caustic Spill Treatment Kit** containing 6 2-pound containers of Spill-X-C (75% Citric Acid) used for caustic spills is located in Bay 3.
6. **Spill control/sorbent booms/pads** used to contain any spill. Spill control booms are available in various lengths and are located in Bay 3. Secondary containment is provided in the waste processing building and spill control supplies are available onsite for incidents within this structure as necessary.

7. **Protective Clothing** including PVC suits and polyethylene splash suits are located in Bays 1 and 3. PVC suits are rubberized suits while the splash suits are polyethylene coated paper clothing. Protective Suits are available in Levels A through D. Appropriate PPE, including PVC suits, safety glasses, splash guards, and hardhats, for the activities completed in the waste processing building is available within the facility office building.
8. **Full-face respirators**, located in Bays 1 and 3, and **SCBA**, located in Bay ~~3~~ 1 and the main office, are available for respiratory protection.
9. **Gloves, boots, face shields, goggles and hard hats** may be used as protective equipment and are located in Bays 1 and 3. This protective equipment is also available in the facility office building for waste management activities conducted in the waste processing building.
10. **Acid Spill Treatment Kit** containing 6-2 pond containers of Spill-X-A (78% Magnesium Oxide) used for acid spills is located in Bay 1.
11. **Air powered pumps with hose** for removal of liquids or water. Identified by lack of electrical connection and are capable of fitting inside of a drum bung are located in Bays 1 and 3.
12. **Manual pump** for removal of any flammable liquids.
13. **Shovels, brooms, buckets, mops, tools, bung wrenches**, etc. are located in Bays 1, 2 and 3, as well as at the waste processing building.
14. **Telephones** located on the north and south walls of the main storage area and in the office area.
15. Empty **DOT-approved containers** for recontainerizing damaged or leaking containers are located in Bays 1 and 3.
16. Empty **85 and 110 gallon overpack drums** for recontainerizing damaged or leaking containers are located in on the ramp leading to Bay 3.
17. An **emergency eye wash/shower** is located in both Bays 1 and 3. An emergency eye wash/shower is also located in the northeast corner of the waste processing building.
18. **Flame and smoke detectors** are located in the flammable storage area. **Lower explosive limit (LED)** monitors are located in the flammable storage area and smoke detectors are available in the general storage area. ~~As discussed above in Section 7.2.3~~, The new industrial shredder located in the waste processing building has a self-contained CO₂ fire suppression system. The fire suppression system utilizes automatic detection, manual activation, notification signals and relay contacts for equipment shutdown controls.
- ~~18.~~ 19. **On-site laboratory and HAZCAT identification kit** available as necessary to characterize a sample of a potential hazardous material. The HAZCAT SOPs are contained in Appendix D.

The emergency communication system equipment consists of:

1. **Air horns** are located throughout the hazardous waste storage area. In case of a spill, explosion, or other emergency, these can be used to alert all employees that evacuation is necessary.
2. An **intercom system** for verbal notification is located throughout the waste management building. Non-evacuation commands are to be given over the intercom.
3. Twenty-four hour **monitored alarms** are located throughout the facility.
4. **Mobile phones** are available at the facility.
5. **Telephones** are available at the facility.

2.48.5 Evacuation Plan

Emergency situation and evacuation notification procedures are discussed in this section.

1. Notification to evacuate the EQ facility in an emergency would be handled by one of several methods. These are:
 - a. Emergency air horns are located throughout the facility and are sounded when evacuation is necessitated.
 - b. An intercom system is also located throughout the facility and can also be used for notifying employees to evacuate the building. Verbal commands will be given should the intercom system be inoperative.
 - c. Pull alarms are located throughout the facility.
 - d. Phones are available throughout the facility.
 - e. Mobile phones are also available at the facility.
2. In the event of an emergency situation (spill, fire, explosion) the first employee to notice the emergency is to immediately sound the emergency air horns and/or alarms located throughout the building.
3. All personnel are to evacuate the facility. The evacuation routes are shown on Figure ~~244~~. The primary evacuation route should be used unless blocked or impassable. In that situation, the secondary evacuation route should be employed.

2.58.6 Emergency Procedures & Facility Personnel Actions

The purpose of this section is to establish the organizational structure which will be in force during a response to a chemical emergency and what procedures will be utilized to notify corporate officials, outside response teams, local government authorities, and State and Federal Regulatory Agencies.

2.5.18.6.1 Internal Communications

In the event of an emergency situation involving hazardous chemicals or wastes, the emergency response coordinator or designate alternate shall be responsible for coordinating the necessary response and/or cleanup.

EQ Florida, Inc.
2002 N. Orient Road
Tampa, FL 33619
813-623-5302 or 800-624-5302

EQ management is to be notified immediately upon discovery of an emergency situation involving hazardous chemicals or wastes. Management will notify, via telephone, radio, mobile telephone or pager, the required EQ personnel for response to the scene. EQ emergency response vehicles are equipped with necessary cleanup/safety materials and first aid supplies. Trailers, sheds, and lockers on site also contain safety equipment and supplies.

8.6.22.5.2 External Communications

In any emergency situation, contact the following:

1. Tampa Fire Department (**911**). Indicate the extent and type of emergency which exists (fire, spill, etc.).
2. In the event of emergencies involving chemical spills, leaks, or explosions (which may require additional assistance), at the direction of the EQ Emergency Coordinator/Alternate a spill response contractor can be notified.

2.5.38.6.3 Government Agency Notification

In the event of an emergency EQ FL will comply with all requirements contained in Chapter 62.150, Hazardous Substance Notification. In the event of an emergency where environmental contamination is eminent, in addition to notifying the Tampa Fire Department (**911 emergencies**), the following governmental agencies will be notified by the EQ Emergency Coordinator/Alternate.

- | | |
|---|--|
| 1. <u>FDEP Main Office</u>
<u>850-245-8705 (normal working hours)</u>
<u>850-413-9911 (24 hour) State of Florida</u>
<u>Warning Point</u>
<u>850-488-1320</u> | 2. <u>FDEP OER State Watch Office</u>
<u>800-320-0519</u>
<u>National Response Center (NRC)</u>
<u>800-424-8802</u> |
| 3. <u>FDEP Southwest District Office</u>
<u>Tampa, Florida</u>
<u>813-632-7600 (normal working</u>
<u>hours) National Response Center (NRC)</u>
<u>800-424-8802</u> | 4. <u>Hillsborough County</u>
<u>Solid Waste Department</u>
<u>813-272-5680 State Emergency Response</u>
<u>Team</u>
<u>850-413-9111</u> |
| 5. <u>FDEP Southwest District Office</u>
<u>Tampa, Florida</u>
<u>813-470-5700 (normal working hours)</u> | 6. <u>Hillsborough County</u>
<u>Solid Waste Department</u>
<u>813-272-5680</u> |

In addition to the NRC, the government official designated as the FDEP On-Scene Coordinator (OSC) must be contacted. This can be accomplished by calling 850-488-1320.

The following information will be communicated to the governmental agencies contacted:

1. Name and telephone number of the reporter.
2. Name and address of the facility.
3. Time of the incident.
4. Type of incident (whether fire, explosion, or release).
5. Name of the material released.
6. Quantity of the material released.
7. Additional information such as liquid, vapor, or solid.
8. Type of incident (release from drum, tank, truck, or warehouse).
9. Extent of injury or injuries, if any.
10. Possible hazards to human health or the environment, outside the facility.
11. Weather conditions (wind direction, rain, etc.).
12. Potential for release or spill of material into surface waters.

Within 15 days of any incident the facility manager will notify the FDEP, electronically in writing, the Regional Administrator that the Contingency Plan has been implemented. All of the aforementioned items will be addressed as well as the quantity and disposition of all recovered materials resulting from the incident.

2.5.48.6.4 Identification of Hazardous Materials Locations

The warehouse doors (west / front side) are placarded with the hazard class of the material stored in that particular Bay. The Bay contents are summarized below.

Bay 1 – North Bay:

1. Acids
2. Toxic Organics and Metals
3. Non-flammable solvents and halogens
4. Asbestos

Bay 2 – Center Bay:

1. Flammable liquids and solids
2. Reactive cyanides, sulfides, and metals

Bay 3 – South Bay:

1. Poisons
2. Oxidizers
3. Caustics
4. Non-Regulated Materials

All vehicles containing hazardous waste are placarded and manifested per DOT and RCRA requirements. The placards will identify the hazard class of each trailer, roll-off, tanker, or vehicle.

Transfer Facility Vehicles – Located in the vehicle loading and unloading areas:

1. Trailers
2. Box Trucks
3. Vans
4. Tankers
5. Roll-Offs
- 6.5.

Processing equipment at the facility operates on a batch mode. The equipment will be shut off and disconnected when emergency situations occur. Waste containers in process will be closed when the equipment is shut down for an emergency.

Processing Equipment

1. Aerosol Recycling Unit
- 2.1. Paint Can Crusher
- 3.2. Drum Crusher
- 4.3. Fluorescent Bulb Crusher
5. Transfer Pumps (portable air, electric, and manual)
- 6.4.

The satellite accumulation (5 gallon or less) of flammable, corrosive, chemical rags, and battery wastes also occurs in the Office/Lab.

2.5.58.6.5 Waste Types Managed

Approximately 1/3 of the waste managed at the facility is non-hazardous or non-regulated. These containers and vehicles can be identified by a blue "Non-Regulated Waste" DOT label. The material presents **no hazard** (such as poison, flammable, corrosive, reactive, oxidizer) if the container does not have a DOT label. However, any release must be contained to prevent a release which may potentially contaminate waters or soils.

Several trailers may be at the facility which do not contain hazardous or non-hazardous wastes. These trailers may be empty, contain new empty drums, contain used empty drums for recycling, or contain safety equipment and supplies. No potential hazard is associated with these vehicles.

The emergency response coordinator or alternate will coordinate the identification of hazardous materials involved in an emergency incident requiring implementation of the contingency plan. A complete inventory of all waste materials is available at the facility. The identification can be narrowed by the source of the incident. For example, if an incident occurred in Bay 2 of the warehouse, the materials would be limited to flammables and reactives. All containers are identified by a unique EQ identification number, DOT hazard class labels, and hazardous waste shipping labels. The contents of any container can be fully characterized if the EQ identification number is known. EQ has an on-site laboratory and HAZCAT identification kit available should it be necessary to characterize a sample of a potential hazardous material. The coordinator or alternate is therefore able to identify the source, characteristics, amount, and extent of any released materials, by observations, review of facility data, records and shipping documents, or by chemical analysis.

2.5.68-6-6 *Hazardous Materials Emergency Response References*

The following is a list of references available at EQ:

1. HAZARDOUS CHEMICAL DATA, Department of Transportation/U.S. Coast Guard.
2. HAZARDOUS MATERIALS EMERGENCY RESPONSE GUIDEBOOK, Department of Transportation/DOT P 5800.2.
3. MERCK INDEX.
4. HANDBOOK OF HAZARDOUS MATERIALS, Sax.
5. NFPA 101 LIFE SAFETY CODE.
6. CANCER CAUSING CHEMICALS, Sax.
7. TOXIC ORGANIC CHEMICALS, E. Ellsworth Hackman III.
8. NIOSH REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES.
9. EMERGENCY FIRST AID, American Red Cross.
10. CONDENSED CHEMICAL DICTIONARY, Hawley.
11. HAZARDOUS MATERIALS, SUBSTANCES, & WASTES COMPLIANCE GUIDE.

2.68-7 **Hazard Assessment**

The emergency response coordinator or alternate will assess the potential hazards to human health or the environmental that may result from a release, fire, or explosion of hazardous waste or hazardous waste constituents. The assessment will consider both direct and indirect effects of the release, fire, or explosion.

The contingency plan will be implemented whenever the emergency coordinator/alternate determines an imminent or actual hazard exists which could threaten human health or the environment. This section provides the criteria used by the emergency coordinator/alternate in making the decision to implement the contingency plan.

2.6.18-7-1 *Fire or Explosion*

For incidents involving a fire or explosion, the following situations will result in contingency plan implementation:

1. A fire which could cause the release of toxic fumes.
2. A fire which could spread and possibly ignite other materials or which could cause heat-induced explosions.
3. A fire which could spread to off-site areas.

4. The use of water or chemical fire suppressants which could result in contaminated runoff.
5. The imminent danger of an explosion which could result in a safety hazard due to flying fragments or shock waves.
6. The imminent danger of an explosion which could result in the release of toxic materials.
7. The occurrence of any explosion.

2.6.28-7.2 Fire Fighting Procedures

The EQ facility is equipped with both smoke and flame detectors. Both are monitored on a twenty-four hour per day basis. If either are activated, the sprinkler and/or foam systems will automatically engage. The Tampa Fire Department is notified automatically by the continuous alarm/monitory system.

Also included in the monitoring system is a lower explosive limit (LEL) detector within the flammable storage area. There are two detectors. One is mounted in the spill sump to detect vapors which are denser than air. The second is mounted on the ceiling to detect vapors less dense than air. If vapors in the flammable area exceed 10% of the lower explosive limit, the ventilation system will automatically engage and the sprinkler and foam systems will be activated automatically. The Tampa Fire Department is notified automatically at 10% LEL.

Located throughout the facility are fire extinguishers for Class A, B or C fires. Located in the flammable area are Halon extinguishers (or equivalent). Fire hoses are located throughout the building.

In the event of a fire, the following activities will be performed:

1. Notify other employees. If evacuation is necessary, sound the air horns and alarms.
2. Notify the Tampa Fire Department (911).
3. Move all transport vehicles away from the loading or unloading areas.
4. Control the fire with extinguishers if it can be done safely.
5. The facility is designed for minimal manual fire suppression.
6. Notify necessary agencies as indicated.

2.6.38-7.3 Unplanned Material Release

The contingency plan will be implemented for any release to the environment which results in one or more of the following conditions:

1. A spill which could result in the release of flammable liquids or vapors, thereby causing a fire or explosion hazard.
2. A spill which could cause the release of toxic liquids or fumes.
3. A spill which could be contained on the site, but which could potentially result in groundwater contamination.
4. A spill which cannot be contained on the site resulting in off-site soil, groundwater, or surface water contamination.
5. Any flooding of the site which could result in surface water contamination.

2.78-8 Personal Protective Equipment

In order to provide adequate protection from hazardous exposures, personal protective equipment must be used. The following indicates various hazardous situations and the personnel protective equipment which is required.

2.7.18.8.1 *Level A Protection*

Hazard Involved:

- Situations immediately dangerous to life and health.
- Oxygen deficient atmospheres.
- Unknown hazardous materials.
- Chemicals which can be absorbed through the skin.
- Materials which cannot be removed with an air purifying respirator.

Required Personal Protective Equipment:

- SCBA or airline respirator with SCBA escape air system.
- Full body encapsulation suit.
-

2.7.28.8.2 *Level B Protection*

Hazard Involved:

- Oxygen deficient atmosphere where chemical composition of the material is known and falls into the classification of an irritant.

Required Personal Protective Equipment:

- SCBA or airline respirator with SCBA for emergency use.
- PVC splash suit with hood.
- Neoprene/nitrile/butyl rubber arm length gloves.
- Steel-toed rubber boots.
-

2.7.38.8.3 *Level C Protection*

Hazard Involved:

- Situations not immediately dangerous to life and health.
- Sufficient oxygen present to support life.
- Irritant or corrosive chemicals.
- Contaminated soils.
- Liquid/solvents not immediately dangerous to life and health.

Required Personal Protective Equipment:

- Full face mask with air purifying (cartridge) respirator; or, half face (cartridge) respirator with goggles and face shield.
- PVC splash suit.
- Protective gloves (type dependent on chemical being handled).
- Steel-toed rubber boots.

8.8.42.7.4 *Level D Protection*

Hazard Involved

- Situations which contain no immediate hazard, but where there is the potential for accidental release of a hazardous substance.

Required Personal Protective Equipment

- Half face air purifying (cartridge) respirator.
- Safety goggles.
- Disposable coveralls.
- Surgical rubber gloves or suitable hand protection. Rubber boots.
- Steel-toed shoes.

2.88.9 Containment and Control Measures

The purpose of this section is to alert all emergency response groups, regulatory agencies and affected parties, as to the location of the hazardous waste storage areas within the facility, the design of containment control, and the procedures to be followed in response to emergencies, whether fire, explosion or spill. **It must be understood that potentially toxic gases and vapors may be present in any incident involving hazardous materials.**

2.8.1 Entrance Procedures

The following procedures are to be followed by all response personnel before entering the hazardous waste storage areas in emergency situations:

1. Consult the attached facility drawing (Figure 33) which indicates both types and locations of materials which would be stored in the area to be entered. A general description of these areas is included in the next section.
2. Assume toxic/hazardous materials are present in the area. A complete inventory is kept in the office area.
3. Select proper protective gear, including SCBA.
4. Consult DOT P 5800.2 HAZARDOUS MATERIALS EMERGENCY RESPONSE GUIDE BOOK which is in the office area.

Remember, the primary responsibility during initial emergency response efforts is to save lives and protect the environment.

2.8.28.9.1 ~~Employee Response~~ Fire or Explosion Response Procedures

1. Notification to evacuate the EQ facility in an emergency would be handled by one of several methods. These are:
 - a. Emergency air horns are located throughout the facility and are sounded when evacuation is necessitated.
 - b. An intercom system is also located throughout the facility and can also be used for notifying employees to evacuate the building. Verbal commands will be given should the intercom system be inoperative.
 - c. Pull alarms are located throughout the facility.
 - d. Phones are available throughout the facility.
 - e. Two-way radios are available at the facility.
 - f. Most hazardous waste operations employees have pagers.
 - g. Mobile phones are available at the facility.
2. In the event of an emergency situation (~~spill, fire, or explosion~~) the first employee to notice the emergency is to immediately sound the emergency air horns and/or alarms located throughout the building.
3. All employees are to don the necessary protective equipment including self-contained breathing apparatus (SCBA). This equipment is located in the safety equipment cabinets in Bay 1 and Bay 3 of the facility, in the storage room in the office, and on the safety equipment and supply trailer. Additional safety equipment is provided in these locations. ~~A complete outline of required~~ Supplemental safety equipment for various situations is included in Appendix CH.

4. Firefighting ~~or spill containment~~ should begin immediately under the direction of the facility manager/supervisor until the EQ Emergency Coordinator/Alternate arrives on-site. Procedures are identified later in this chapter. Refer to the CHRIS (Chemical Hazardous Response Information System) Manual for additional information.
5. The facility supervisor is to contact the EQ Emergency Coordinator/Alternate immediately (telephone numbers are listed).
6. In the event of a fire or explosion, the sprinkler and foam systems will be automatically activated. Both the alarm and sprinkler system are monitored on a 24-hour basis. When the alarm or sprinklers are activated, the Tampa Fire Department will be notified immediately and automatically.
7. Electric service to the building should be shut off in the event of a fire or explosion. The main electric shut off is located on the outside south wall of the container storage building. No additional process systems, valves, gauges or equipment are required to be monitored or shut down since no potentially dangerous processes are employed at the facility.
8. All waste handling or processing in the affected area will be stopped immediately.
9. All waste feed lines and waste processing equipment will be shut down when this can be done safely. There are no continuous treatment processes. All treatment is on a batch basis. Power outages will simply make these processes inoperable.
- ~~10.~~ In situations immediately dangerous to life and health (IDLH), evacuation of the facility may be necessary. This decision will be made by the Emergency Coordinator/Alternate or facility supervisor. If the evacuation occurs, the primary evacuation route should be used unless blocked or impassable. In that situation, the secondary evacuation route should be employed. Both routes are prominently outlined at the facility and are included with this plan.

~~11.10.~~

~~8.9.2~~ *Entrance Procedures*

~~The following procedures are to be followed by all response personnel before entering the hazardous waste storage areas in emergency situations:~~

- ~~1. Consult the attached facility drawing which indicates both types and locations of materials which would be stored in the area to be entered. A general description of these areas is included in the next section.~~
- ~~2. Assume toxic/hazardous materials are present in the area. A complete inventory is kept in the office area.~~
- ~~3. Select proper protective gear, including SCBA.~~
- ~~4. Consult DOT P 5800.2 HAZARDOUS MATERIALS EMERGENCY RESPONSE GUIDE BOOK which is in the office area.~~

~~Remember, the primary responsibility during initial emergency response efforts is to save lives and protect the environment.~~

~~8.9.32.8.3~~ *Spill or Release Response Procedures*

In the event of a spill, certain procedures must be instituted immediately. The facility is designed so that the rupture of containers would result in no release of contaminants outside of the facility.

The storage area for acidic and alkaline wastes are segregated to insure that no co-mingling of these materials will result.

All flammable/combustible materials are stored in a separate Bay.

All incompatible materials have separate containments.

Immediately contact all required individuals/agencies indicated on Chapter 1 of this document. These telephone numbers are posted at all facility telephones.

Should a spill or release occur, the following steps are to be taken:

1. Sound an alarm to notify an emergency.
2. Don protective equipment located in safety cabinets.
3. Contact EQ Emergency Coordinator/Alternate.
4. The source of the spill/release will be determined and corrected.
5. Waste handling or processing in the affected area will be stopped immediately.
6. All waste feed lines and waste processing equipment will be shut down as soon as this can be done safely.
7. All non-response personnel will leave the area immediately.
8. All injured persons will be removed from the area and treated by qualified medical personnel.
9. Contain the spill with sorbent boom, sorbent pillows, or bulk sorbent material. All sorbents and booms are stored in the spill control storage area.
10. In the event of an acid spill, use calcium carbonate or lime to neutralize the spill.
11. Use citric acid to neutralize alkaline spills.
12. Once the spill has been contained, begin cleanup.
13. Contact the response contractors ~~listed in~~ and request mobilization of personnel or equipment, if necessary. EQ will serve as the primary response contractor and SWS will serve as alternate, or backup response contractor/coordinator.
14. The emergency coordinator/alternate will contact all required agencies.
15. Note the discharge in the operating record.
16. A complete list of response action for specific chemical spills is included.
17. If immediate evacuation of the building is required, two 5-minute egress bottles are attached to the supplied air system. Additional respiratory and personal protective clothing are located in the safety equipment cabinet located in Bay 3 of the facility.
- ~~18.~~ In the event that a release outside the facility leads to surface water, groundwater or soil contamination, EQ will contact the contractors listed or other suitable contractor for all required remediation efforts.
- ~~19.~~ 18. _____

2.8.48.9.4 *Care of the Injured*

The objective is to provide first aid or immediate care for a person who has been injured, or has been suddenly taken ill, in the event of an emergency. Implement emergency first aid as required.

All facility employees of EQ shall have been trained in standard first aid and cardiopulmonary resuscitation (CPR) programs offered and presented by the American Red Cross. First aid kits will be located in the office area.

In the event of an emergency, the EQ facility manager shall be in charge until the arrival of the Emergency Coordinator/Alternate.

All injured shall be taken to Brandon Hospital or Tampa General Hospital by the local ambulance service. These hospitals will have been notified as to the type of injuries which may result at our facility. In an emergency situation, they should be informed of the extent of the emergency and what injuries to expect. Routes to the hospitals are included on Figure 742.

The nearest life squad is the City of Tampa. They can be contacted by dialing 911.

2.98.10 Post-Emergency Operations

2.9.1 ~~8.10.1~~—Decontamination Procedure

After an emergency incident, decontamination of equipment is required. All expendable items, such as sorbent, booms and so on are to be placed into 55 gallon drums and disposed as required by state and federal law. Non-expendable items such as tools, chemical suites and material handling equipment are to be cleaned in an appropriate solvent and placed back in their normal location. The suitable solvent will be determined by an EQ senior chemist. Disposal of the spent solvent will comply with applicable regulations.

All tanks and containerized waste will be thoroughly inspected for leaks, pressure build-up and structural integrity by the site supervisor. Any deficiencies will be immediately corrected.

Air monitoring will be performed as required to insure the facility is safe to resume normal operations.

A complete list of all available emergency equipment is included in Appendix H. Specific decontamination solutions are included in this Contingency Plan.

Operations at the facility will not commence until such time as all emergency equipment has been cleaned, replaced and restored to its original location. All emergency equipment will be tested to determine its effectiveness prior to resuming operation after an emergency incident.

8.10.22.9.2 ~~8.10.22.9.2~~ Re-Entry Monitoring

Before employees are allowed to return to the area after an emergency, the on-site Emergency Coordinator/Alternate will confirm the area is safe for re-entry. This will be accomplished by physical inspection of the area, the use of detection equipment, followed by decontamination as necessary. Chemical detection equipment available to the Emergency Coordinator/Alternate is as follows (note, these items are located in the office area):

1. Chemical detector tubes (Draeger, MSA)
2. Explosion meter
3. Portable Organic Vapor Analyzer (OVA)
4. Portable pH/specific ion meter
5. HAZCAT~~azeat~~ Kit
- 6.—A fully equipped environmental laboratory is located nearby. Any wet chemical or instrumental analyses can be performed as required.

~~7.6.~~

2.9.3 ~~8.10.3~~—Decontamination Procedures

Inorganic/Organic Acids

Prepare mixture of 10% sodium carbonate or 10% hydrated lime or 10% trisodium phosphate in water; clean items/area with mop or cloth. Wear protective equipment.

Alkalai (Caustics)

Prepare mixture of 5% acetic acid (vinegar) or 5% citric acid in water; clean items/area with mop or cloth. Wear protective equipment.

Oils and PCB

Methylene chloride or isooctane applied directly to the contaminated area. Remove solvent and contaminant with sorbent or absorbent cloths. Wear protective equipment.

Alkalai and Alkaline Earth

Metals (sodium, potassium, phosphorus)

Cover immediately with dry soda ash (sodium-carbonate) and remove with broom and shovel. Keep dry; do not contact with water. Wear protective equipment.

Solvents

Cover with absorbent material as quickly as possible. Remove with broom and shovel. Wear protective equipment.

Mercury

Recover as much bulk Mercury as possible. Cover the spill area using Mercsorb, HgX or equivalent. Spray with water to activate the material. Wear protective equipment. Keep area well ventilated.

2.9.4 8.10.4—Emergency Waste Movement Coordination

In the event of an emergency situation where the movement of waste materials is required, the following procedures are to be employed:

1. Contact the emergency response coordinator or alternate.
2. Contact EQ and/or subcontract drivers.
3. Perform waste characterization verification as described in the EQ Waste Analysis Plan.
4. Contact FDEP Emergency Response Group, and the District Office in Tampa to inform them of the emergency waste movement.
5. Load waste into drums, tankers, roll-off containers, or other suitable containers.
6. Load the containers to the vehicles. Follow all applicable DOT regulations pertaining to placarding, labeling, and loading.
7. Complete all shipping documents as required.
- 8.—Dispatch waste shipments to secondary approved permitted waste treatment or disposal facilities.

~~9.8.~~

2.9.5 8.10.5—Post-Emergency Assurances

No waste material that may be incompatible with any released material will be treated or stored in the portion of the facility where any release occurred until cleanup procedures are complete. All emergency equipment listed in this Contingency Plan will be cleaned and fit for its intended use before hazardous waste management operations are resumed. Inoperable emergency equipment will be serviced, repaired, or replaced.

2.9.6 8.10.6—Post-Emergency Documentation

Operating Record

EQ will note in the facility operating record the time, date, and details of any incident that requires implementing the EQ Contingency Plan.

Reporting

EQ will submit a written incident report to the ~~Regional Administrator~~ FDEP within 15 days after any incident requiring implementation of the EQ Contingency Plan. The report will include the following information:

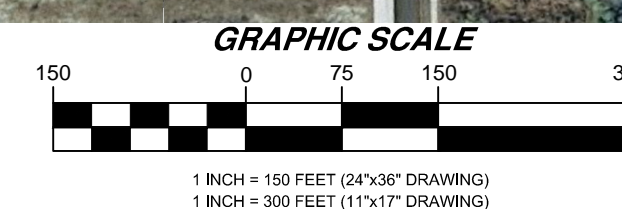
1. Name, address, and telephone number of EQ's contact (operator);
2. Name, address, and telephone number of EQ facility;
3. Date, time, and type of incident;
4. Name and quantity of materials involved;
5. The extent of injuries, if any;
6. An assessment of hazards to human health or the environment, if applicable; and the estimated quantity and disposition of any recovered materials which may result from the incident.

The report will be mailed ~~(via)~~ electronically to the FDEP to the following parties, as necessary and/or appropriate:

Assistant Fire Chief Scott Ehlers Tampa Fire Department 808 East Zack Street Tampa, FL 33602	National Response Center (NRC) c/o U.S. Coast Guard (CG-5335) - Stop 7581 2100 2nd Street, SW Washington, DC 20593-0001
Jeff Greenwell Florida DEP Southwest District Division of Waste Management 13051 North Telecom Parkway Temple Terrace, FL 33637	Merlin D. Russell, Jr. Florida DEP Division of Waste Management 2600 Blair Stone Road M.S. 4560 Tallahassee, FL 32399-2400



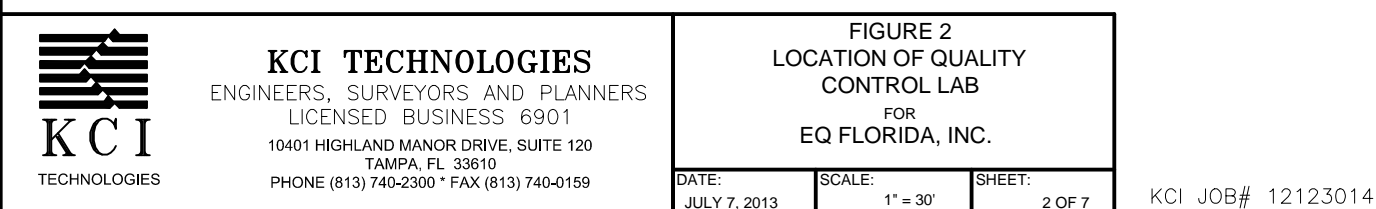
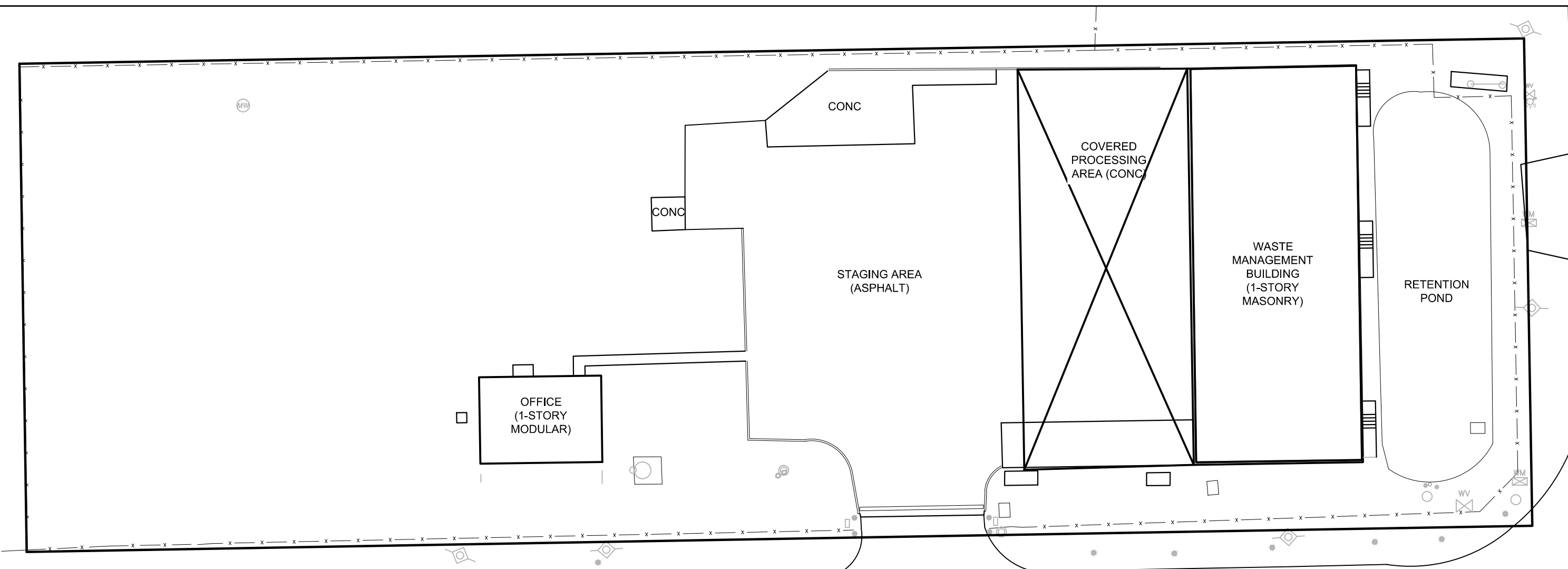
SOURCE:
1. http://data.labins.org/2003/MappingData/DOQQ/hi-res_search.cfm



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FIGURE 1 SITE AREA/LOCATION MAP		
FOR EQ FLORIDA, INC.		
DATE: JULY 9, 2013	SCALE: 1" = 150'	SHEET: 1 OF 7



LOCATION OF SOLID WASTE OPERATIONS

AREA USED FOR WASTE RECEIVING AND STAGING.

AREA USED FOR WASTE RECEIVING, UNLOADING, STORAGE, LOADING, SEGREGATION, TRANSFER AND PROCESSING

AREA USED FOR STAGING OF SOLIDIFIED WASTE.

R

PRIMARY AREA WHERE RECYCLABLE MATERIAL IS STORED.

||||| 10 DAY TRANSFER + STAGING AREA

This detailed site plan shows the layout of the waste management facility. Key features include:

- Office (1-story modular):** Located near the entrance.
- Staging Area (Asphalt):** A large area for waste staging.
- Covered Processing Area (Conc):** A large area for waste processing.
- Waste Management Building (1-story masonry):** The main processing building.
- Retention Pond:** A large pond for liquid waste.
- Conc (Concrete):** Various concrete areas throughout the site.

This main site plan provides a comprehensive overview of the waste management area. Key features include:

- Streets:** 9TH AVENUE (40' PLATTED RIGHT OF WAY), 8TH AVENUE (40' PLATTED RIGHT OF WAY), 7TH STREET (40' PLATTED RIGHT OF WAY), and ORIENT ROAD (38' PLATTED RIGHT OF WAY).
- Buildings:** EXISTING OFFICE BUILDING (PRE-ENGINEERED STEEL STRUCTURE), WASTE PROCESSING BUILDING (PRE-ENGINEERED STEEL STRUCTURE), and EXISTING 2-STORY OFFICE BUILDING.
- Areas:** TRANSFER + STAGING AREA, DIRT/MULCH STORAGE AREA, DIRT/GRAVEL PARKING, and RETENTION POND.
- Infrastructure:** DITCH, ASPHALT PAVEMENT, BOLLARD TYPICAL, CONCRETE PATCH, CONCRETE LOADING DOCK RAMP, and CONCRETE STOOP WITH SANITARY CLEANDOUT.
- Other Features:**

- BACK FLOW PREVENTER
- CONTROL LABORATORY LOCATION (APPROX.)
- GRASS AREA
- PARKING STRIPE (TYPICAL)
- ASPHALT DRIVE
- MAILBOX
- STOOP
- GRAVEL AREA
- CDNC PAD WITH TANKS
- PROpane TANK STORAGE
- RAMP

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FIGURE 3
WASTE MANAGEMENT
AREA LOCATIONS
FOR
EQ FLORIDA, INC.

DATE: JULY 9, 2013 SCALE: 1" = 30' SHEET: 3 OF 7

KCI JOB# 12123014

10 DAY TRANSFER + STAGING AREA

TRANSFER +
STAGING AREA

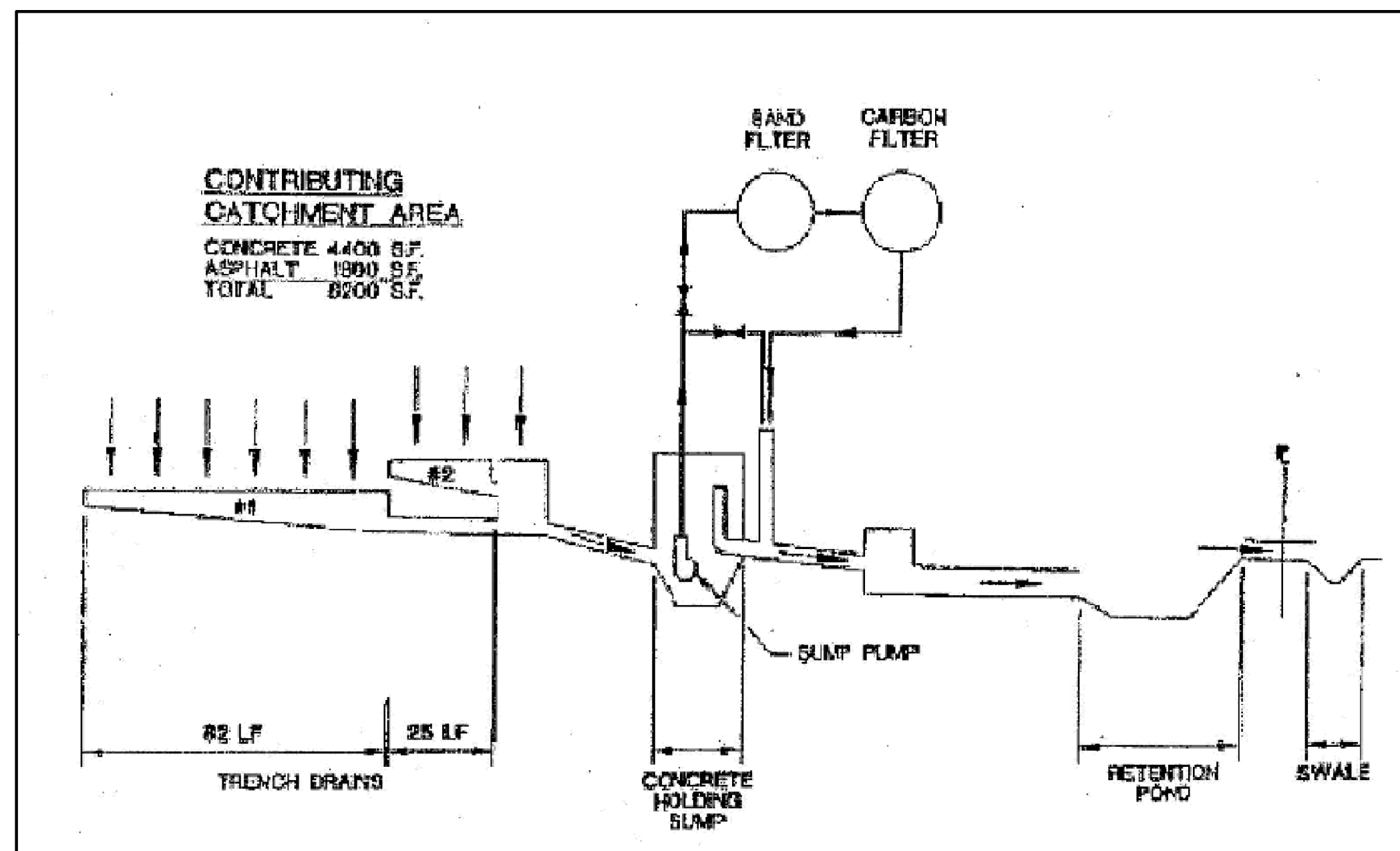
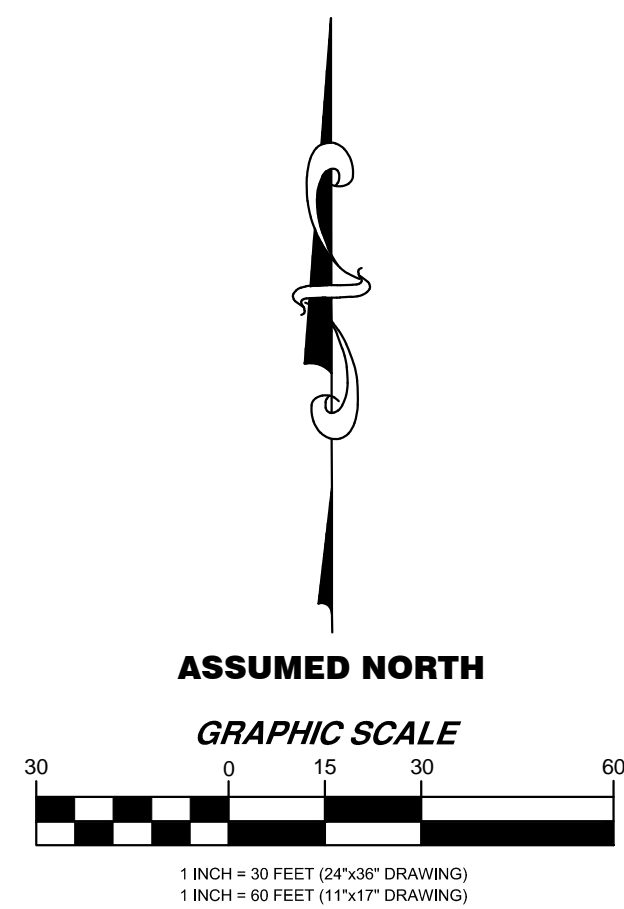


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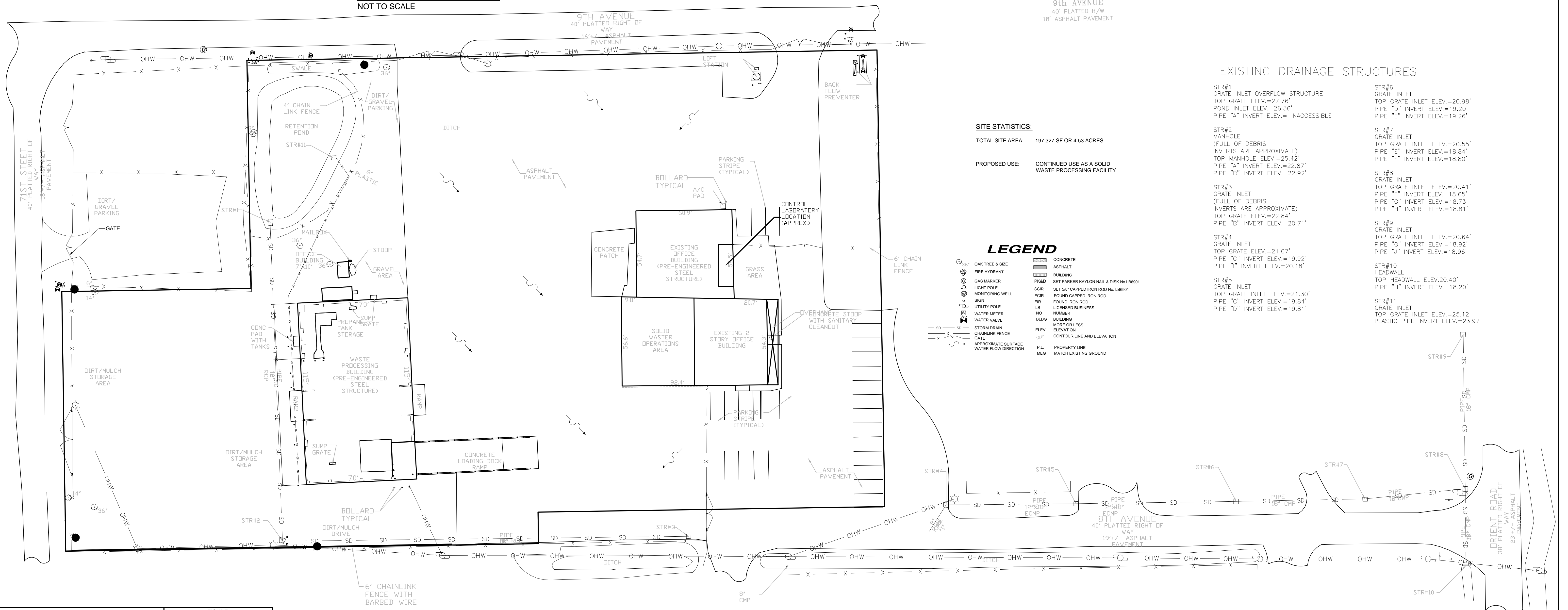
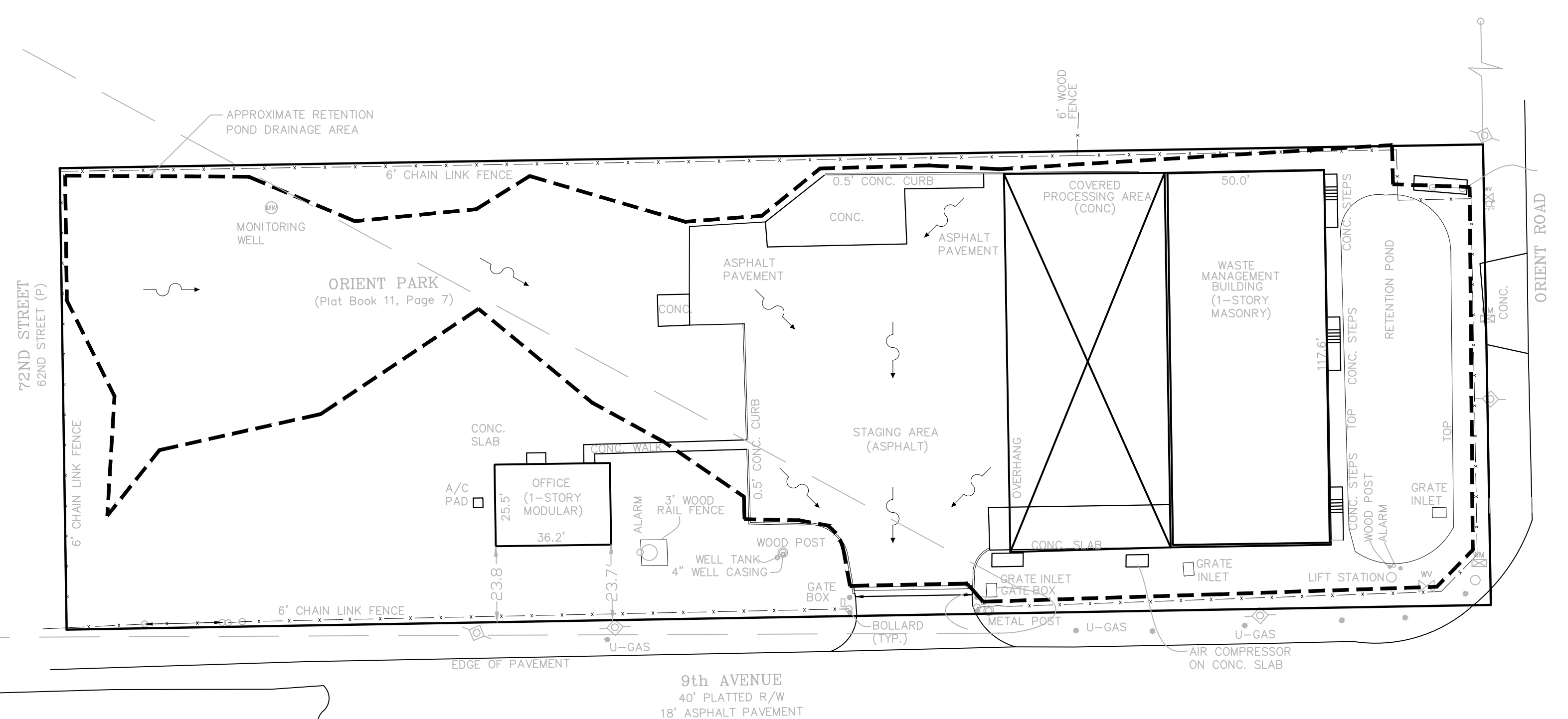
**FIGURE 3
WASTE MANAGEMENT
AREA LOCATIONS
FOR
EQ FLORIDA, INC.**

DATE: JULY 9, 2013	SCALE: 1" = 30'	SHEET:
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KCI JOB# 12123014



FLOW SCHEMATIC
NOT TO SCALE



EXISTING DRAINAGE STRUCTURES

STR#1 GRATE INLET OVERFLOW STRUCTURE TOP GRATE ELEV.=27.76' POND INLET ELEV.=26.36' PIPE "A" INVERT ELEV.= INACCESSIBLE	STR#6 GRATE INLET TOP GRATE INLET ELEV.=20.98' PIPE "D" INVERT ELEV.=19.20' PIPE "E" INVERT ELEV.=19.26'
STR#2 MANHOLE (FULL OF DEBRIS) INVERTS ARE APPROXIMATE TOP MANHOLE ELEV.=25.42' PIPE "A" INVERT ELEV.=22.87' PIPE "B" INVERT ELEV.=22.92'	STR#7 GRATE INLET TOP GRATE INLET ELEV.=20.55' PIPE "E" INVERT ELEV.=18.84' PIPE "F" INVERT ELEV.=18.80'
STR#3 GRATE INLET (FULL OF DEBRIS) INVERTS ARE APPROXIMATE TOP GRATE ELEV.=22.84' PIPE "B" INVERT ELEV.=20.71'	STR#8 GRATE INLET TOP GRATE INLET ELEV.=20.41' PIPE "F" INVERT ELEV.=18.65' PIPE "G" INVERT ELEV.=18.73' PIPE "H" INVERT ELEV.=18.81'
STR#4 GRATE INLET TOP GRATE ELEV.=21.07' PIPE "C" INVERT ELEV.=19.92' PIPE "I" INVERT ELEV.=20.18'	STR#9 GRATE INLET TOP GRATE INLET ELEV.=20.64' PIPE "G" INVERT ELEV.=18.92' PIPE "J" INVERT ELEV.=18.96'
STR#5 GRATE INLET TOP GRATE INLET ELEV.=21.30' PIPE "C" INVERT ELEV.=19.84' PIPE "D" INVERT ELEV.=19.81'	STR#10 HEADWALL TOP HEADWALL ELEV.=20.40' PIPE "H" INVERT ELEV.=18.20'
	STR#11 GRATE INLET TOP GRATE INLET ELEV.=25.12' PLASTIC PIPE INVERT ELEV.=23.97

LEGEND

36\"/>	CONCRETE
36\"/>	ASPHALT
36\"/>	BUILDING
PK&D	SET PARKER KAYLON NAIL & DISK No. LB6901
SC&R	SET 58\"/>
FC&R	FOUND CAPPED IRON ROD
SG&N	FOUND IRON ROD
LB	LICENSED BUSINESS
NO	NUMBER
B&D	BUILDING
ELEV.	MORE OR LESS
ELEVATION	ELEVATION
10\"/>	CONTour LINE AND ELEVATION
P.L.	PROPERTY LINE
ME&G	MATCH EXISTING GROUND

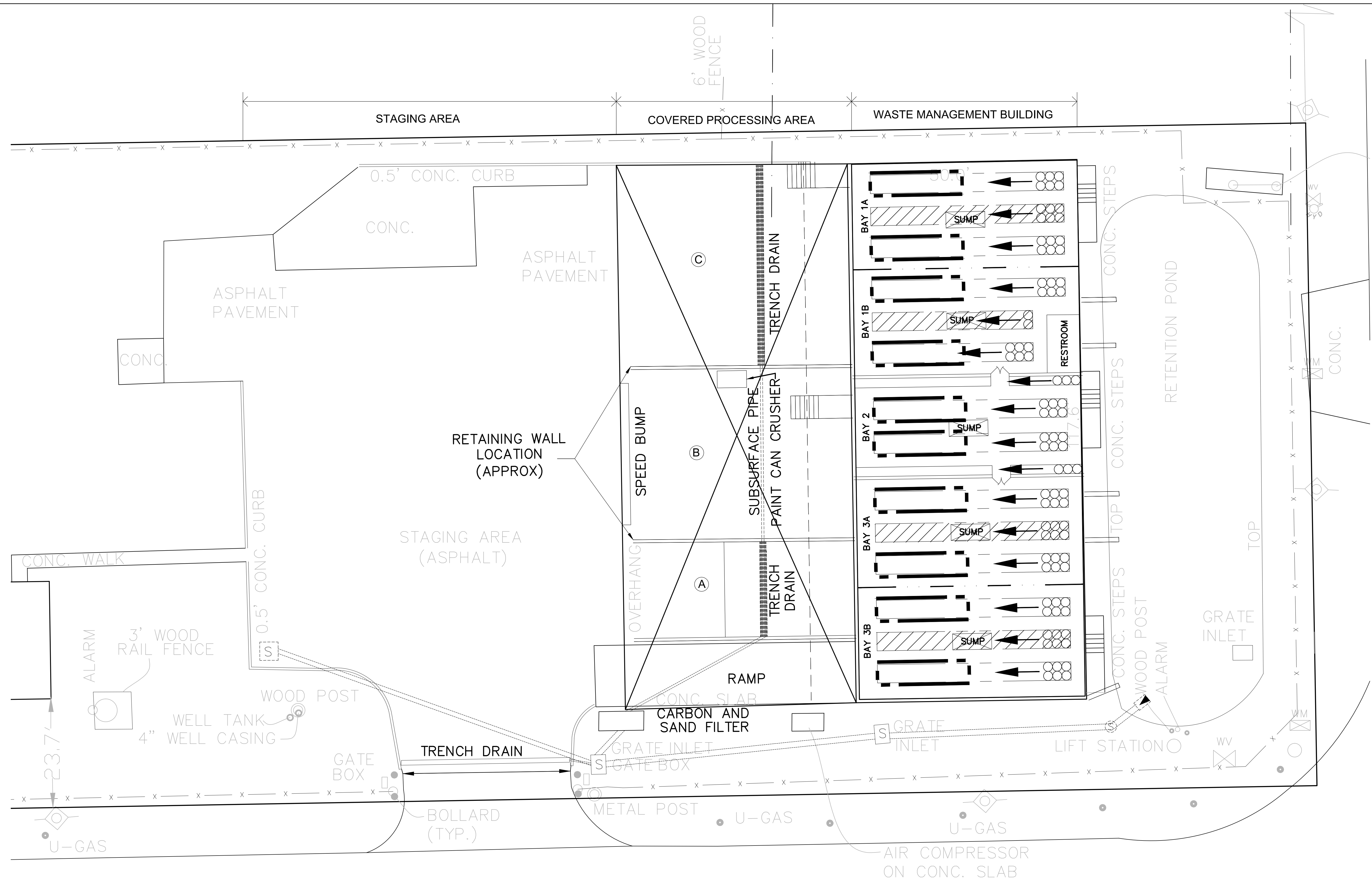
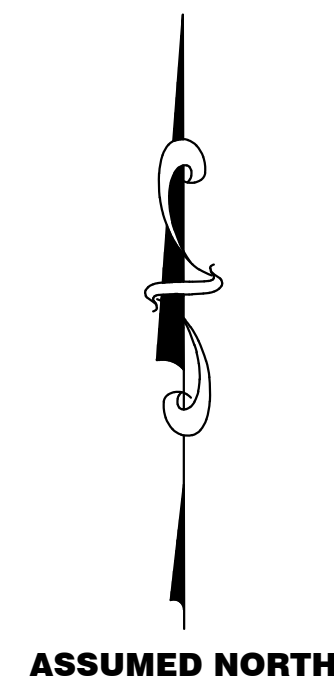


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FIGURE 4
DRAINAGE & STORMWATER CONTROLS
FOR
EQ FLORIDA, INC.

DATE: 2/23/2013 SCALE: 1\"/>

SHEET: 4 OF 7 KCI JOB# 12123014



9th AVENUE

INDICATES AREA MAY ALSO BE UTILIZED FOR TEMPORARY PROCESSING AREA.

INDICATES AREA WHERE STORAGE WILL NOT OCCUR WHEN CONTAINERS ARE DOUBLE STACKED

LEGEND

FENCELINE

SUMP

STORM DRAIN INLET

APPROXIMATE STORMWATER FLOW (SEE FIG. II FOR MORE DETAIL)

GRAPHIC SCALE

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FIGURE 5

WASTE MANAGEMENT BUILDING LAYOUT

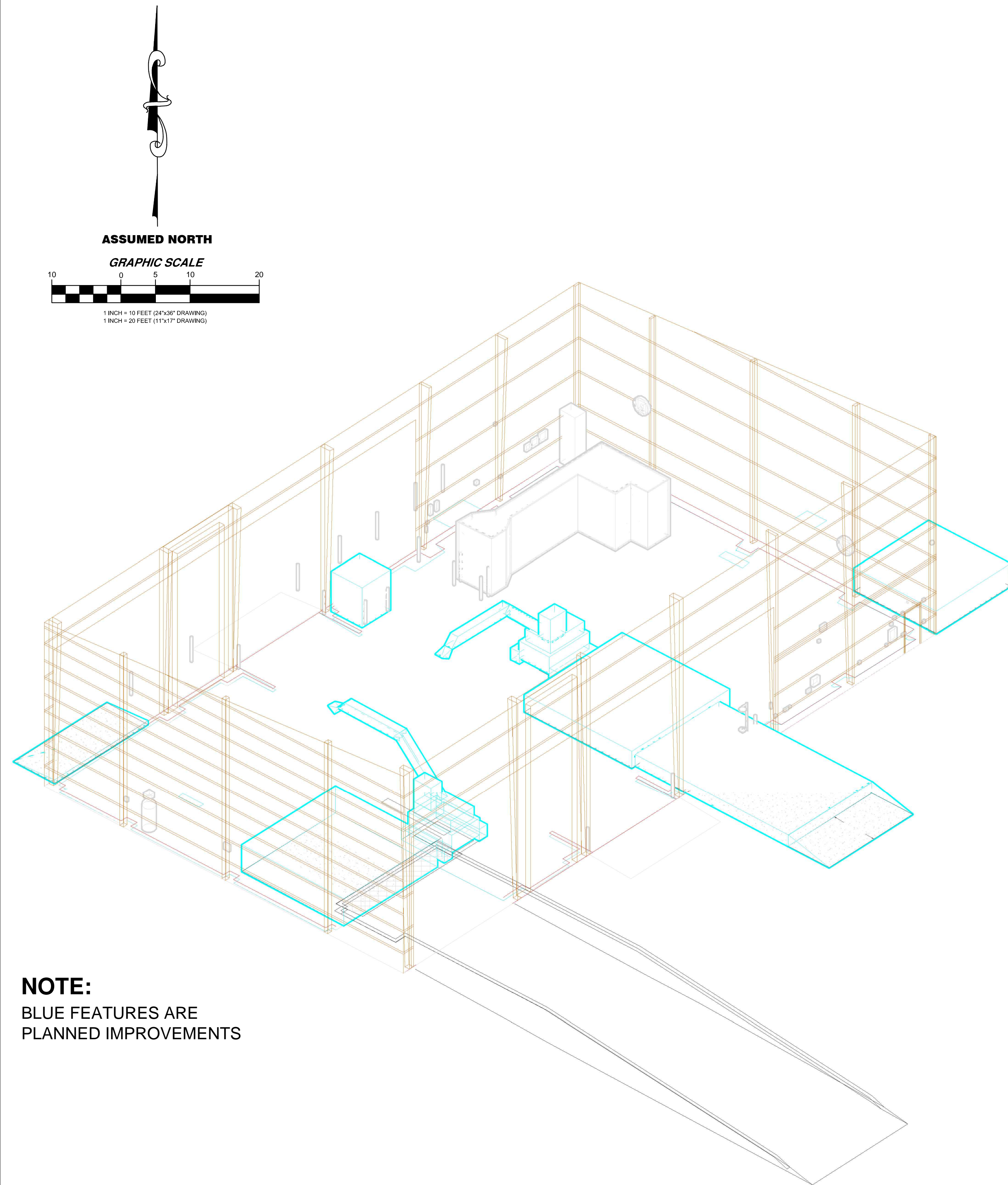
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EQ FLORIDA, INC.

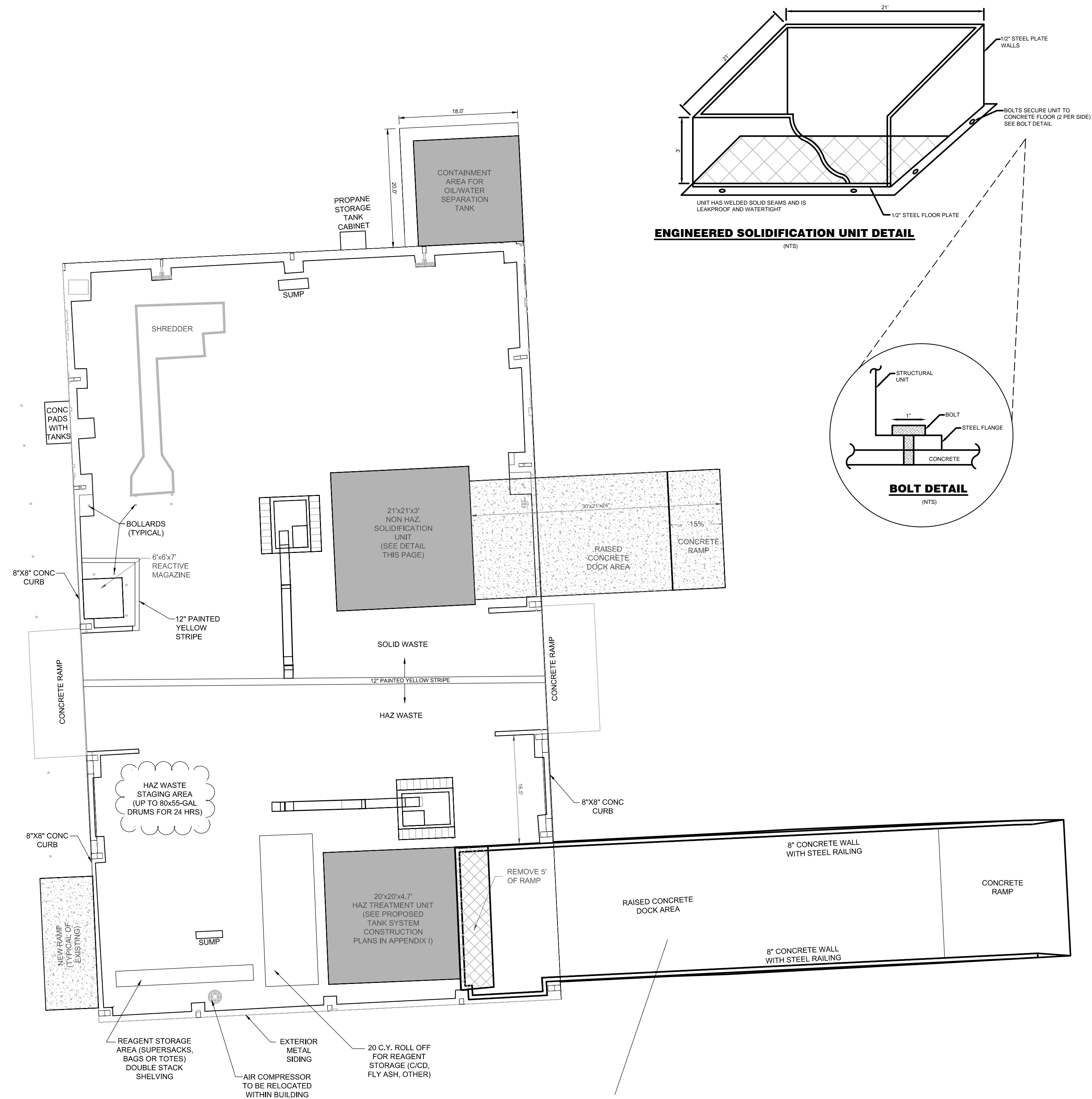
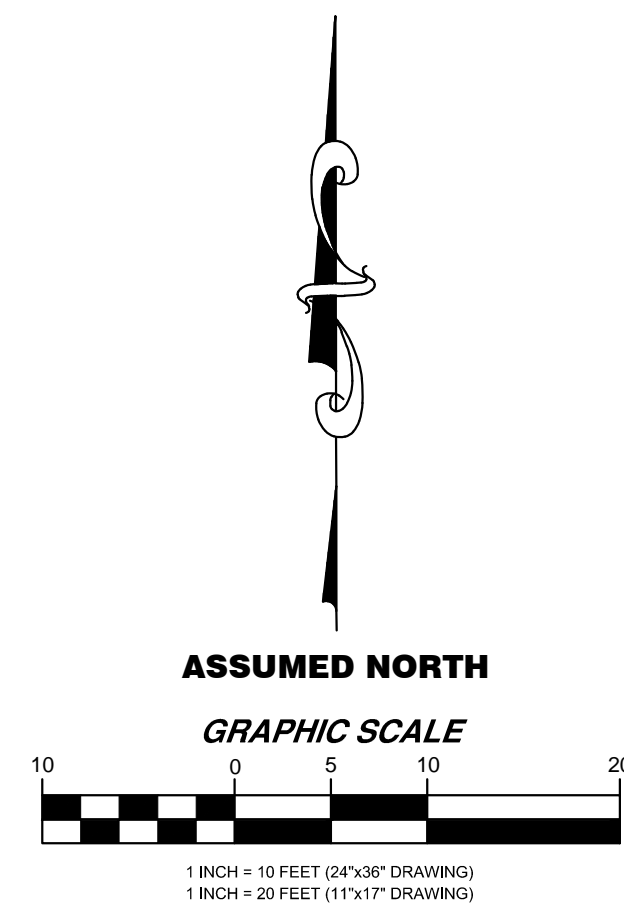
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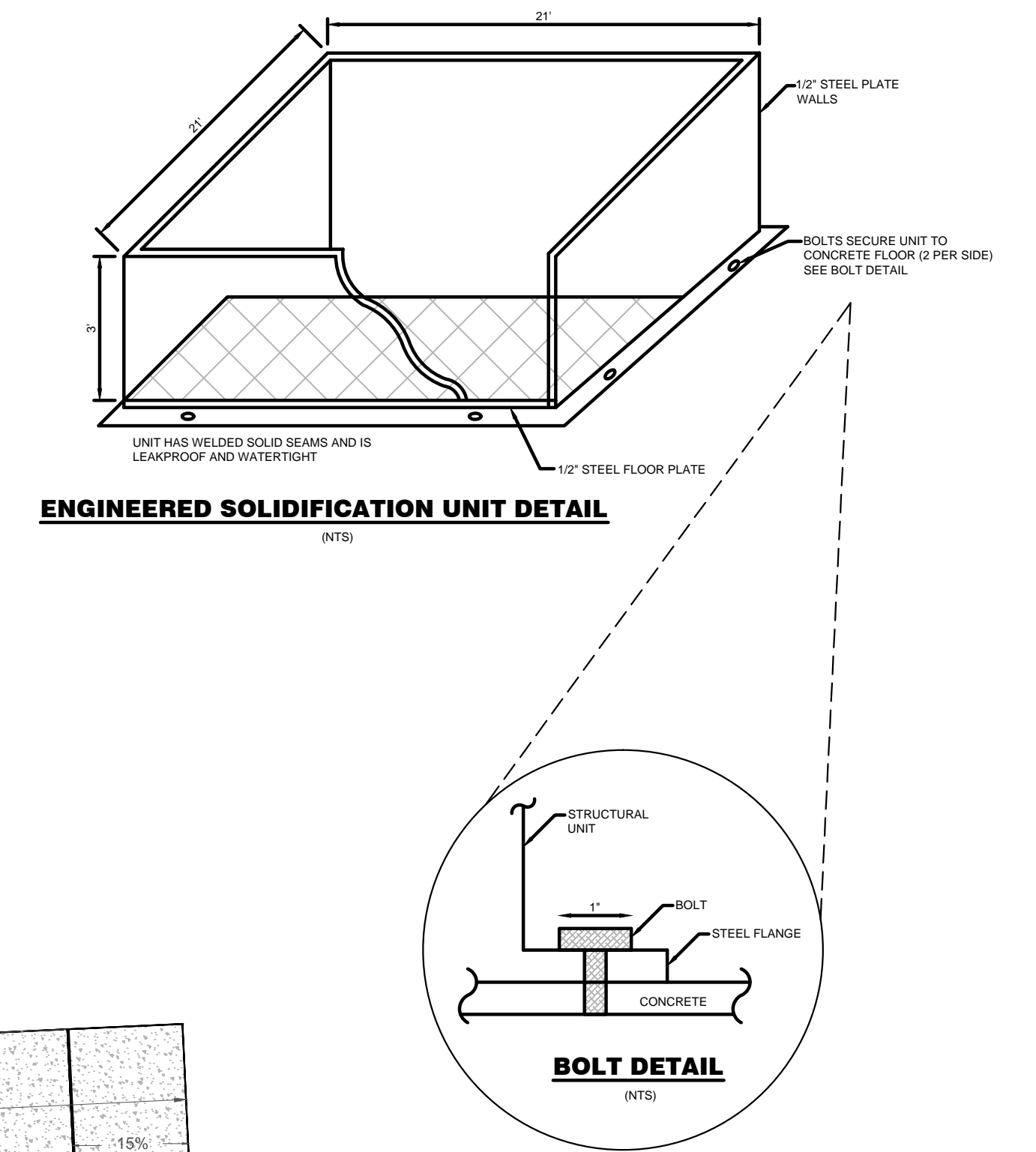
KCI JOB# 12123014

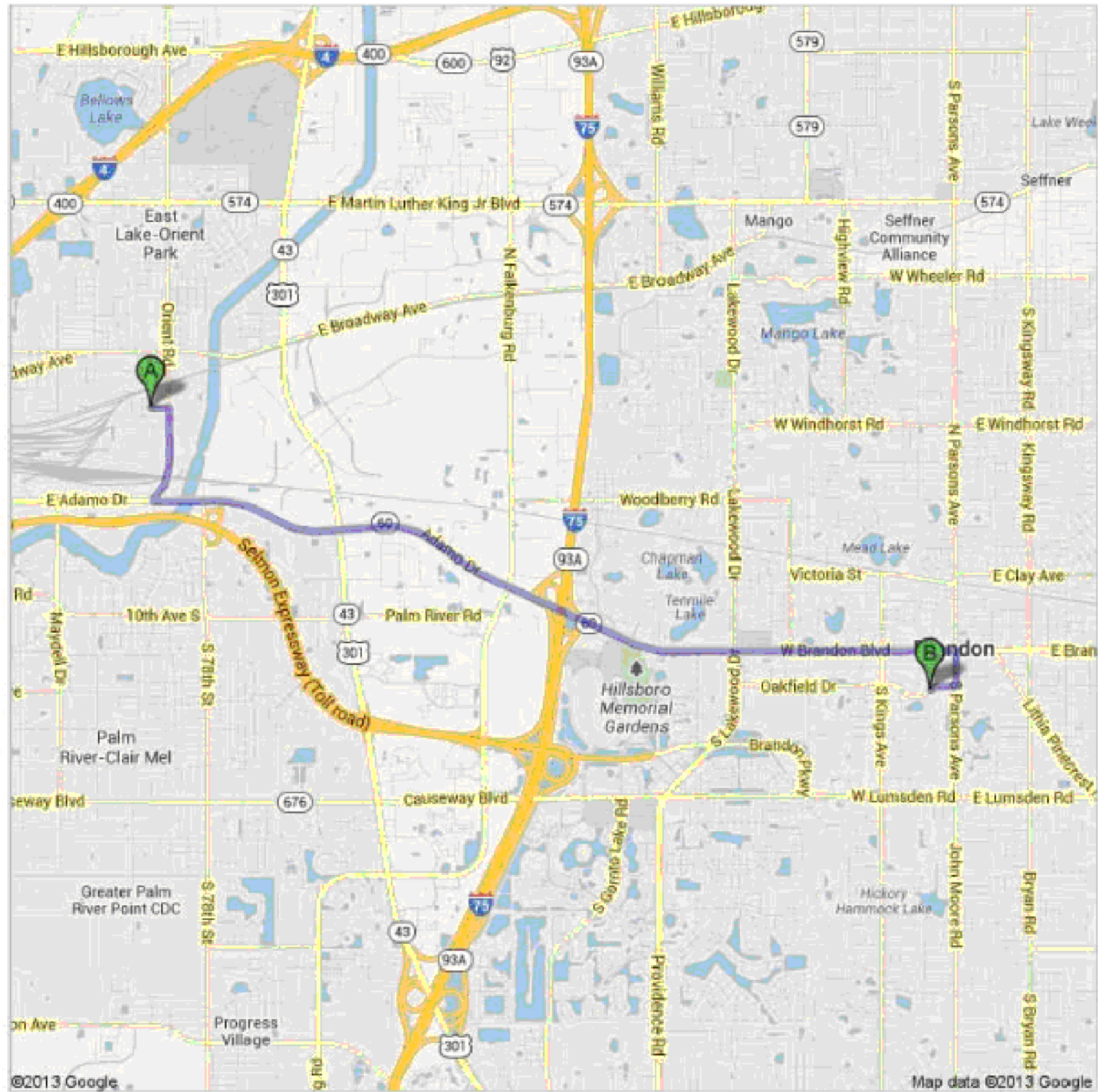
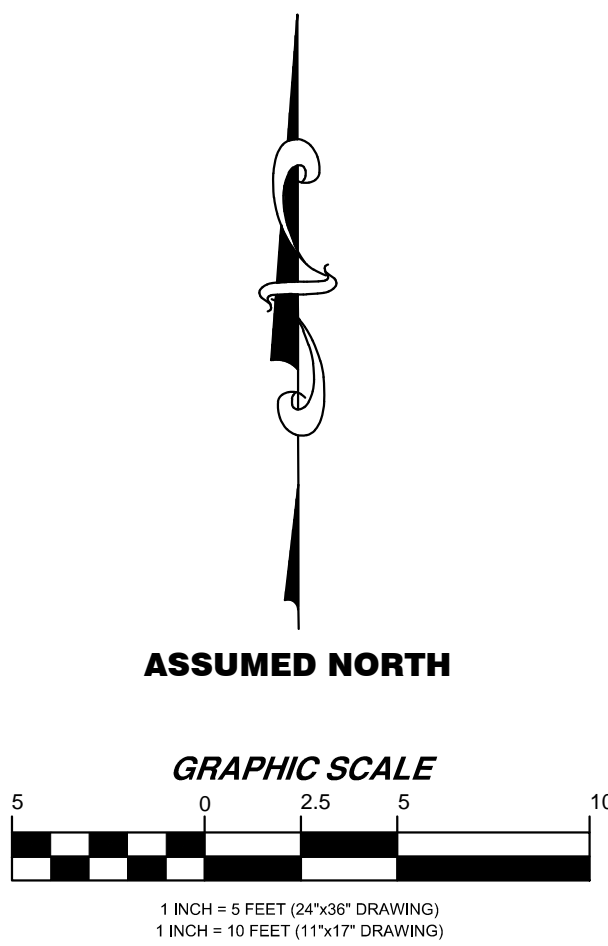


THREE DIMENSIONAL VIEW



PLAN VIEW

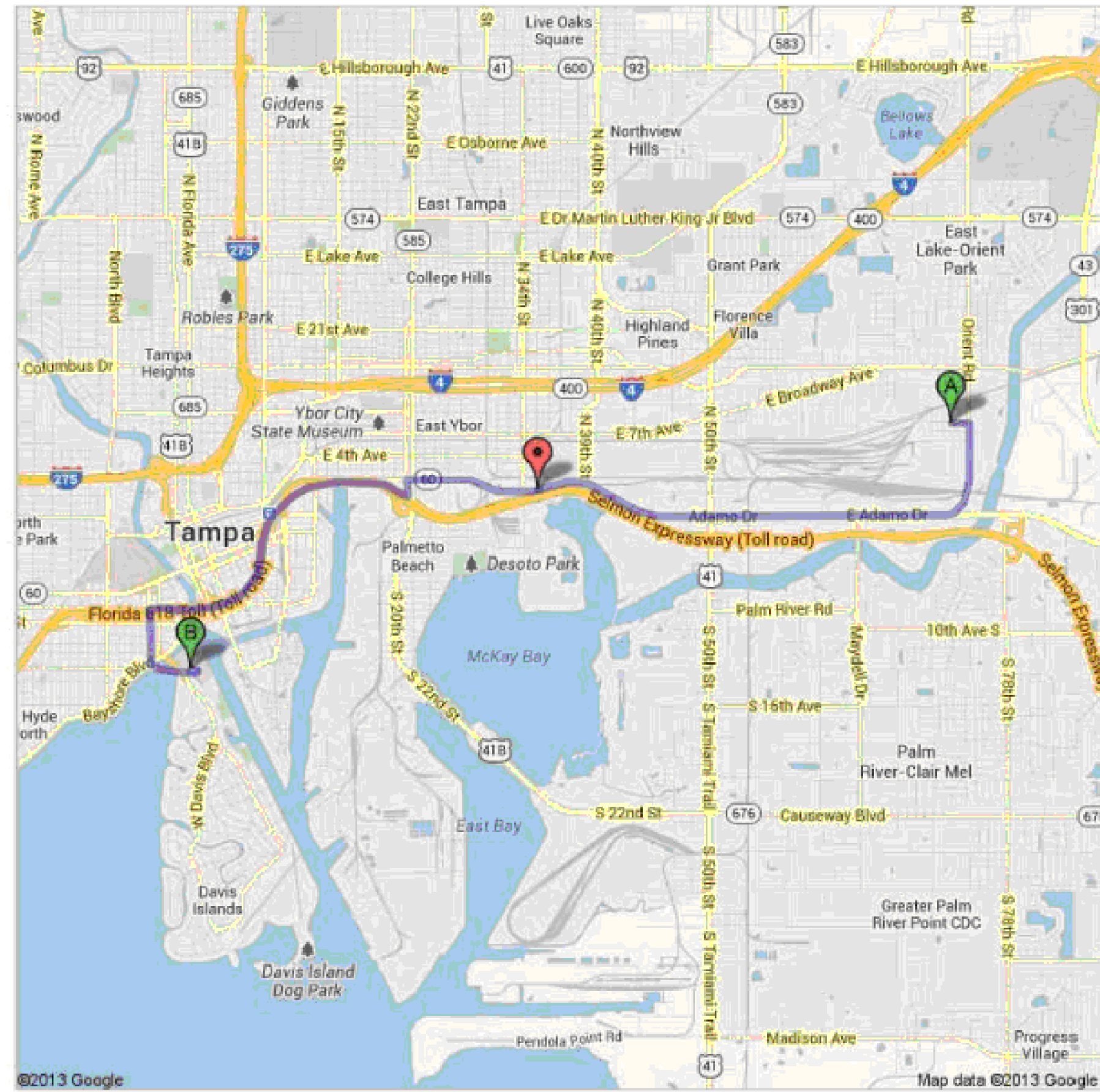




7202 E 8th Ave, Tampa, FL 33619

1. Head **east** on **E 8th Ave** toward **N 72nd St**
go 0.1 mi
total 0.1 mi
2. Turn right onto **Orient Rd**
About 3 mins
go 0.7 mi
total 0.8 mi
3. Turn left onto **FL-60 E/E Adamo Dr**
Continue to follow FL-60 E
About 10 mins
go 5.7 mi
total 6.5 mi
4. Turn right onto **S Parsons Ave**
go 0.2 mi
total 6.7 mi
5. Take the 2nd right onto **Oakfield Dr**
Destination will be on the left
go 0.2 mi
total 6.9 mi

Brandon Regional Hospital
119 Oakfield Dr, Brandon, FL 33511



7202 E 8th Ave, Tampa, FL 33619

1. Head **east** on **E 8th Ave** toward **N 72nd St**
go 0.1 mi
total 0.1 mi
2. Turn right onto **Orient Rd**
About 2 mins
go 0.6 mi
total 0.8 mi
3. Take the 3rd right onto **E Adamo Dr**
About 7 mins
go 3.8 mi
total 4.6 mi
4. Turn left onto **N 21st St**
About 1 min
go 495 ft
total 4.7 mi
5. Turn right onto the **Florida 618 West Toll** ramp to **St Petersburg**
Toll road
About 45 secs
go 0.3 mi
total 4.9 mi
6. Merge onto **Selmon Expressway**
Toll road
About 2 mins
go 1.8 mi
total 6.7 mi
7. Take exit **5** toward **Hyde Park Ave/Davis Islands**
Toll road
go 0.2 mi
total 6.8 mi
8. Merge onto **W Brerein St**
go 381 ft
total 6.9 mi
9. Turn left onto **S Hyde Park Ave**
About 2 mins
go 0.3 mi
total 7.2 mi
10. Take the exit toward **Tampa General Cir**
About 45 secs
go 0.2 mi
total 7.4 mi
11. Keep left at the fork, follow signs for **Tampa General Hospital**
go 0.1 mi
total 7.6 mi
12. Keep left at the fork, follow signs for **Emergency/Physician Parking** and merge onto **Tampa General Cir**
go 194 ft
total 7.6 mi
13. Turn left to stay on **Tampa General Cir**
go 85 ft
total 7.6 mi
14. Turn left to stay on **Tampa General Cir**
Destination will be on the right
go 233 ft
total 7.7 mi

Tampa General Hospital
1 Tampa General Cir, Tampa, FL 33606



KCI TECHNOLOGIES
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LICENSED BUSINESS 6901
10401 HIGHLAND MANOR DRIVE, SUITE 120
TAMPA, FL 33613
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FIGURE 7
ROUTES TO HOSPITALS
FOR
EQ FLORIDA, INC.

DATE: JULY 9, 2013 SCALE: 1" = 5 SHEET: 7 OF 7

KCI JOB# 12123014

Emergency Action Plan

EQ-The Environmental Quality Company
EQ Florida




	2002 N. Orient Road
	Tampa, FL 33619
	813-624-5302
	Revised 05/31/13

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Section 1: Introduction

1. Purpose

The purpose of this Emergency Action Plan is to comply with the Occupational Safety and Health Administration (OSHA) Emergency Action Plan Standard, 29 CFR 1910.38, and to prepare employees for handling emergency situations. This plan is designed to minimize injury and loss of human life and company resources by training employees, procuring and maintaining necessary equipment, and assigning responsibilities. In the event of a major disaster, this Emergency Action Plan describes the initial actions to be taken until the appropriate responders take over.

This plan is intended to complement existing permit required plans such as Contingency Plans, Spill Prevention Countermeasure and Control (SPCC) Plans, etc. for training purposes and for quick reference in emergency situations. The facility-specific permit required plans shall take precedence when significant differences are found.

2. Scope

This Emergency Action Plan applies to personnel at all EQ offices and facilities.

3. General Information

It is impossible to provide specific information for all situations. There is no guarantee implied by this plan that a perfect response to disaster emergency incidents will be practical or possible. Therefore, this plan is a guide for employees to familiarize themselves with basic emergency planning, response, and evaluation. Flexibility and common sense will guide good response actions.

4. Training

EQ employees shall be trained on those parts of the plan that they must know to protect themselves in the event of an emergency. Additionally, the written plan shall be made available for employees to review and plan for their evacuation.

Training shall take place:

- a. Upon initial employment
- b. Annually
- c. With a change in job assignment
- d. In conjunction with the Management of Change procedure (MSP-MP-015-ALL) for new processes, equipment, etc.
- e. When the plan is revised.

Items to be reviewed during the training include, but are not limited to:

- a. Fire extinguisher locations, usage, and limitations.
- b. Threats, hazards, and protective actions.
- c. Means of reporting emergencies.
- d. Names of Emergency Coordinator / Alternates.
- e. Individual responsibilities.
- f. Alarm systems.
- g. Escape routes and procedures.
- h. Emergency shut-down procedures.
- i. Emergency Action Plan availability.

Section 2: Assignment of Responsibility

1. QEHS Manager

The site QEHS Managers shall maintain the Emergency Action Plan at each EQ location. The QEHS Manager shall also ensure that all training records pertaining to this plan are maintained.

The QEHS Manager is responsible for scheduling routine drills and tests and shall also coordinate with local public resources, such as police, fire, and emergency medical personnel, to ensure that they are prepared to respond as detailed in this plan.

2. Emergency Coordinators

The Emergency Coordinators and their designated alternates are responsible for instituting the procedures in this plan during an emergency. EQ locations responsible for dispatching trucks may designate a separate DOT Emergency Coordinator for incidents involving EQ vehicles.

The Emergency Coordinator shall be thoroughly familiar with all aspects of this plan, all operations and activities conducted at the facility and/or the movement of EQ vehicles outside of the facility, the location and characteristics of hazardous materials, the locations of all records within the facility, and the facility layout.

Additionally, the Emergency Coordinator has the authority to commit the resources necessary to implement this plan and coordinates and directs all internal response efforts and personnel.

A list of Emergency Coordinators and alternates can be found in Appendix A.

3. Management

EQ will provide adequate controls and equipment that, when used properly, will minimize or eliminate risk of injury to employees in the event of an emergency.

EQ management will ensure proper adherence to this plan through regular review.

4. Supervisors

Supervisors shall follow, and ensure that their employees are trained in, the procedures described in this plan.

5. Employees

Employees are responsible for following the procedures described in this plan.

6. Contractors

Contract employees are responsible for complying with this plan, and shall be provided training on site-specific emergency procedures by their EQ Representative.

Section 3: Evacuation Plan

1. Evacuation Routes and Assembly Areas

A map of evacuation routes will be displayed in key areas and departments. Each map will show the way to an exit depending on where employees are located in the building. It is the responsibility of the department supervisors to inform employees of these evacuation routes. The QEHS Manager shall verify that the maps are in place and current.

2. Evacuation Procedures

Upon hearing the alarm or upon notification of an evacuation:

- a. Exit from buildings shall take place in an orderly and safe manner via the posted evacuation routes.
- b. Time permitting, ensure all windows and doors are closed upon exiting the building.
- c. If it is safe to do so, supervisors shall “sweep” their departments to ensure everyone has left the area.
- d. All employees, contractors, and visitors shall assemble at the closest designated Assembly Area (Rally Point).
- e. Anyone not at their usual work location, and contractors or visitors shall join the nearest group and proceed to exit and assemble at a designated Assembly Area.
- f. No one may leave the Assembly Area until the Emergency Coordinator has given the All-Clear signal.
- g. Department supervisors and/or Security personnel will conduct a head count and report any missing persons and their suspected locations if known to the Emergency Coordinator.
- h. Based on the situation, the Emergency Coordinator will decide whether to conduct search and rescue using internal personnel or wait for assistance from outside emergency responders.

Section 4: Employees with Disabilities

Each person has different skills and abilities. In the event of an emergency, specific provisions must be made for individuals with disabilities. The employee with a disability is responsible for informing his/her supervisor that he/she will require assistance during an evacuation. It is important not to assume that persons with obvious disabilities need assistance, or to assume what type of assistance they may need.

Supervisors should discuss emergency procedures with individual employees who have obvious disabilities, those who have informed them of any special needs, and all newly hired disabled individuals. It must be determined what assistance they need and how best to communicate. This information may be recorded on a confidential list made available only to the person's immediate supervisor, the QEHS Manager, the site Operations Manager, and the Human Resources Department.

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Section 5: Responding to Emergencies

1. Incident Command System

The National Incident Management System (NIMS) is a consistent nationwide template that enables all governmental and non-governmental organizations to work together during domestic incidents. The NIMS requires that all agencies use the Incident Command System (ICS) when responding to incidents.

EQ utilizes the ICS to provide a common organizational structure for the immediate response to emergencies and involves the coordination of personnel and equipment on-site during an incident. The Emergency Coordinator serves as the Incident Commander, and depending on the size of the incident, may assign an Information Officer, Liaison Officer, and Safety Officer. Additional personnel, such as Emergency Response Team members, may be assigned to operations, planning, logistics, and administrative tasks during the incident.

Once the fire department arrives, the ICS provides a smooth transition of command from EQ to the fire department. The Fire Chief (or highest ranking fire personnel) becomes the Incident Commander but may retain the EQ Emergency Coordinator to serve in a command role under a Unified Command that may utilize EQ personnel to assist with the response.

2. Notification

All emergency situations will be reported immediately to the Emergency Coordinator.

To eliminate confusion and the possibility of false alarms, only the Emergency Coordinator can authorize personnel to contact the appropriate community emergency response agency. When notifying response agencies, the following information should be available:

- Name, address and telephone number of the owner and the incident reporter;
- Name, address, telephone number and EPA Identification Number (if applicable) of the facility;
- Time, location and type of incident (e.g., spill, fire, release, etc.);
- Name and quantity of material(s) involved and to what extent;
- The extent of injuries, if any;
- The possible hazards to human health and/or the environment outside of the facility; and
- The immediate response action taken.

The "Spill or Release Report and Notification Form" (QES-FM-133-ALL) found in Appendix D, should be used, and when completed will provide all the required information listed above.

The site Emergency Contact List (Appendix A) shall be posted in all Departments and key operational areas and contains all pertinent contact information including but not limited to:

- Emergency Coordinator and Alternates
- Police, Fire, EMS agencies
- Hospital / Clinic Information
- Local, State, Federal agencies (EPA, NRC, Health Department, POTW, etc.)

The Emergency Coordinator shall ensure that all employees are notified of an emergency situation as soon as possible. Notification may be accomplished by using an alarm system, telephones, or public address system.

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The site Notification Flow Chart may be found in Appendix A. This flow chart includes the names and phone numbers of all employees and depicts the notification responsibility throughout the site.

3. Fire / Explosion Procedures

Under no circumstances shall an employee attempt to fight a fire that has passed the incipient stage, nor shall any employee attempt to enter a burning building to conduct search and rescue. These actions shall be left to emergency services professionals who have the necessary training, equipment, and experience. Untrained individuals may endanger themselves and/or those they are trying to rescue.

In the event of a minor fire where portable extinguishers are appropriate, EQ personnel with current training in fire extinguisher use may attempt to contain the fire. Only small, easily controlled fires will be extinguished by EQ personnel. The Emergency Coordinator must be alerted in all cases. An Incident Report (QES-FM-001-ALL) must be completed and forwarded to the QEHS Manager whenever a fire extinguisher is used.

In the event of a **FIRE**:

- a. Notify the Emergency Coordinator and adjacent employees.
- b. If the fire is still in the incipient stages, and you are trained to do so, attempt to extinguish the fire.
- c. If the fire is past the incipient stage, or attempts to extinguish an incipient fire fail, sound the alarm and evacuate.
- d. Supervisors will account for their personnel and will report this information to the Emergency Coordinator.
- e. Additional requirements may be found in the facility Contingency Plan (Appendix C).
- f. The locations of all fire extinguishers, evacuation routes, assembly areas, and alarm pull stations can be found on the site Emergency Preparedness Drawing located in Appendix B.
- g. See section 13 for reporting requirements.

4. Spill Procedures

Whether a spill is considered minor or major must be determined on a case-by-case basis. The prime component is knowledge and understanding of the chemical, its hazards, and proper handling procedures. Other factors that play a role in this determination are the quantity released, ventilation considerations, confined space considerations, and personal protective equipment (PPE) availability.

Essentially, it must be determined; 1) what the circumstances are, 2) the capabilities of the personnel available, and 3) whether the spill is incidental or warrants an emergency response.

An Incident Report (QES-FM-001-ALL) must be completed and forwarded to the QEHS Manager whenever a spill occurs.

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Minor Spills:

EQ personnel can safely clean up the vast majority of chemical spills that occur. In the event of a spill, the individual(s) who caused the spill is responsible for prompt and proper clean up.

If the spill exceeds the employee's experience, training, equipment, or willingness to respond, the employee must follow the appropriate procedures to obtain assistance.

In the event of a **MINOR SPILL OR LEAK**:

- a. Immediately alert area occupants and supervisor, and evacuate the area if necessary.
- b. Isolate the area so that nobody unknowingly walks into the contaminated area (close doors, barrier tape, post other individuals at doors or hallways to warn others, signs, cones, etc.)
- c. If a volatile, flammable material is spilled, control sources of ignition, and ventilate the area.
- d. Don PPE as appropriate to the hazards. Consult the Personal Protective Equipment Program (QES-PR-021-ALL) if more information is needed.
- e. Consider the need for respiratory protection. **Never enter a contaminated atmosphere without protection or use a respirator without training.** Consult the Respiratory Protection Program (QES-PR-031-ALL) if more information is needed.
- f. If possible, stop the spill/leak by closing valves or using compression plugs, blocking, bonding or patching materials. Large-sized containers may be used to overpack leaking containers or the contents of the leaking container may be transferred into another container. Be sure to properly label the containers used.
- g. Protect floor drains or other means for environmental release.
- h. Contain and clean up the spill.
 1. Absorbent material should be distributed over the entire spill area, working from the outside, circling to the inside. This reduces the chance for splash or spread of the spilled chemical.
NOTE: Always assess the compatibility of the absorbent with the chemical spilled before using it (e.g., expanded silicate absorbents react with hydrofluoric acid, organic absorbents are incompatible with oxidizers, etc.)
 2. When spilled materials have been absorbed, use a broom or brush and scoop to place materials in an appropriate container. Polyethylene bags may be used for small spills. Pails or drums may be appropriate for larger quantities.
 3. In some cases it may also be acceptable to remove spilled liquids through the use of a vacuum unit or vacuum truck.
- i. Complete a waste label and affix onto the container. Arrange for proper storage and disposal of the waste.
- j. Decontaminate the surface where the spill occurred using a mild detergent and water, when appropriate.
- k. Replenish all spill response equipment and supplies.
- l. Additional requirements may be found in the facility Contingency and/or SPCC Plan (Appendix C).
- m. The locations of all evacuation routes, assembly areas, and spill kits can be found on the site Emergency Preparedness Drawing located in Appendix B.
- n. See section 13 for reporting requirements.

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Major Spills

A release is considered a major spill when it:

- Involves highly toxic, highly reactive, explosive, or life-threatening chemicals.
- Presents significant fire, explosion, or other physical or health risks, particularly if a person may be or has been significantly exposed, contaminated, or injured to such an extent that medical or other outside assistance is required.
- May adversely impact the external environment whether or not the spill occurred internal or external to a building.

In the event of a **MAJOR SPILL**:

- a. Notify the Emergency Coordinator and adjacent employees.
- b. Sound the alarm and evacuate.
- c. Supervisors will account for their personnel and will report this information to the Emergency Coordinator.
- d. Additional requirements may be found in the facility Contingency and/or SPCC Plan (Appendix C).
- e. The locations of all evacuation routes, assembly areas, and spill kits can be found on the site Emergency Preparedness Drawing located in Appendix B.
- f. See section 13 for reporting requirements.

5. Tornado

Tornadoes are nature's most violent storms, and over a small area, the most destructive. A tornado's winds may reach 300 miles per hour or more. Generally short-lived and fast moving, they can level whole city blocks in a matter of seconds. The violent winds destroy buildings and hurl debris through the air, resulting in injury or loss of life and significant property damage. Other risks include fallen trees and power lines, ruptured gas lines, broken sewer and water mains, and possible fires. Damage or destruction of facilities and equipment at the site and the loss of vital records may result in significant economic loss and disruption of essential operations for a long period of time.

The National Weather Service is responsible for issuing weather warnings to the public. A tornado watch means that conditions are right for tornadoes to develop. A tornado warning means that a tornado has been sighted in the area.

Notification of a tornado watch or warning may be received by commercial radio and television or via the Internet.

After the all-clear is given, employees need to be aware of the following hazards that may exist:

- broken glass and other sharp objects
- downed electrical wires
- broken natural gas lines
- trip hazards
- partial power to equipment

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**EQ Emergency Action Plan
EQ Florida**

If a **TORNADO** warning is issued for the immediate area:

- a. Personnel shall follow evacuation procedures and seek protective shelter in the designated tornado shelter. The locations of all evacuation routes and designated tornado shelters can be found on the site Emergency Preparedness Drawing located in Appendix B.

If the designated shelter cannot be reached in time, take cover in the lowest level of a building close by, ideally in an internal, windowless room.

- b. Supervisors will check their work areas, if it is safe to do so, before seeking shelter to ensure that all persons have received the warning notice and have gone to the shelter.
- c. Supervisors will account for their personnel at the tornado shelter and will report this information to the Emergency Coordinator.
- d. When the tornado warning is canceled or downgraded by the National Weather Service, the Emergency Coordinator will determine if continued weather monitoring is advisable and take the appropriate steps as necessary.
- e. Personnel shall remain in the tornado shelter until the Emergency Coordinator issues the "all clear" notice.
- f. If the site has received damage, the Emergency Coordinator will coordinate recovery efforts.

6. Blizzard

Blizzards are the most perilous of winter storms, characterized by low temperatures, strong winds, and large amounts of snow. Most of the snow accompanying a blizzard is fine, powdery particles, which fall in such great quantities that at times visibility is only a few yards. Blizzard Warnings are issued when wind speeds of at least 35 mph are accompanied by considerable falling or blowing snow and temperatures of 20°F or lower are expected to prevail for an extended period of time.

In the event of a BLIZZARD:

1. If indoors:
 - a. Stay calm and await instructions from the Emergency Coordinator.
 - b. Stay indoors.
 - c. If there is no heat:
 - Close off unneeded rooms or areas.
 - Stuff towels or rags in cracks under doors.
 - Cover windows at night.
 - d. Eat and drink. Food provides the body with energy and heat. Fluids prevent dehydration.
 - g. Wear layers of loose-fitting, lightweight, warm clothing if available.
2. If outdoors:
 - a. Find a dry shelter. Cover all exposed parts of the body.
 - b. If stranded in a vehicle:
 - Stay in the car or truck.
 - Run the motor about 10 minutes each hour. Open the window a little for fresh air. Make sure the exhaust pipe is not blocked.
 - Make yourself visible to rescuers.
 - Exercise to keep blood circulating and to keep warm.
3. In all cases:
 - a. Supervisors will account for their personnel and will report this information to the Emergency Coordinator.
 - b. When the blizzard is downgraded by the National Weather Service, the Emergency Coordinator will determine if continued weather monitoring is advisable and take the appropriate steps as necessary.
 - c. Personnel shall remain indoors at the site until the Emergency Coordinator issues the "all clear" notice.
 - d. If the site has received damage, the Emergency Coordinator will coordinate recovery efforts.

7. Hurricane

A hurricane is a tropical cyclone with sustained surface winds (1-minute mean) of 63 knots (73 mph) or greater.

The National Weather Service is responsible for issuing weather warnings to the public. A hurricane warning is notification that within 24 hours or less an area may be subject to hurricane-force winds. A hurricane watch is notification of a possible hurricane threat to a community, within a 36 hour time period.

**EQ Emergency Action Plan
EQ Florida**

If a **HURRICANE WATCH** is issued for the immediate area:

- a. Follow internal notification procedures for employees. Begin communication with appropriate EQ Corporate departments and all scheduled/expected visitors, contractors, trucking companies, etc.
- b. Verify emergency equipment inventory and supplies to ensure adequate quantities of rope, plywood, masking tape, flashlights, batteries, etc.
- c. Any loose equipment shall be moved inside or secured (lashed down).
- d. A small amount of canned food and drinking water should be purchased and stored in case employees get stranded at the facility during or after the hurricane.

If a **HURRICANE WARNING** is issued for the immediate area:

- a. Make ready all portable generators, air compressors and portable radios.
- b. Move desks, files, office equipment, and furniture away from uncovered windows.
- c. Computers, copiers, and fax machines should be moved to a safe location. Make sure they are marked with names and departments.
- d. Board up or tape all windows.
- e. Secure all electrical power sources not required for minimum operation. Electrical equipment should be turned off and unplugged; lights should be turned off except for areas that might be manned.
- f. All non-essential personnel shall be evacuated from the site.
- g. All remaining employees should prepare to ride out the storm. Employees required to be on site must remain indoors. Ensure adequate emergency supplies. Monitor the weather information.

Post HURRICANE Operations:

The Emergency Coordinator will:

- a. Re-staff entrances to keep out vandals and sightseers.
- b. Survey for damage or injured personnel. Assist any injured as necessary.
- c. Prioritize clean up and repairs.

Additional requirements may be found in the facility Plan (Appendix C).

8. Earthquake

An earthquake usually occurs without any type of warning. They may occur once or have several after shocks. Depending on the strength, earthquakes may cause buildings, soil, or other structures to be unstable or unsound.

**EQ Emergency Action Plan
EQ Florida**

In the event of an **EARTHQUAKE**, if you are:

Indoors:

- a. Do not run blindly outside.
- b. Get under a desk, table, or supported doorway.
- c. Stay away from glass windows, shelves, & heavy equipment. Avoid power lines as they may be live.

Outdoors:

- a. Do not run blindly inside.
- b. Stay in the open.
- c. Beware of fires, downed utility lines, and aftershocks.

Driving:

- a. Pull to the side of the road and stop.
- b. Avoid utility lines or other objects that may fall.
- c. Set brakes and turn-off the ignition.
- d. Stay in the vehicle until the earthquake is over.

After the earthquake has stopped:

- a. Stay calm and await instructions from the Emergency Coordinator.
- b. Supervisors will account for their personnel and will report this information to the Emergency Coordinator.
- c. Keep away from overturned equipment, windows, filing cabinets, and electrical power.
- d. Check for injuries and provide assistance as needed.
- e. Emergency Coordinator should check for fires and shut off utilities to control gas and water leaks.
- f. If major structural damage has occurred, the Emergency Coordinator shall order a complete evacuation. The building should be inspected by a Professional Engineer (PE) for damage before reentry.

9. Flood

A flood can be the result of heavy rain, plumbing problems, faulty sprinkler systems, etc.

In the event of a **FLOOD**:

- a. Be ready to evacuate as directed by the Emergency Coordinator.
- b. Time permitting, move vital material and equipment to higher ground.
- c. Do not enter any flooded area.
- d. Supervisors will account for their personnel and will report this information to the Emergency Coordinator.

10. Utility Emergency

Natural Gas Leak:

Natural gas is an invisible gas consisting mainly of methane. It is extremely flammable and potentially explosive. Its explosive limit ranges from 4 to 15% in air. The vapor density of natural gas is 0.6 relative to air i.e., it is lighter than air. The smell of natural gas comes from isopropyl mercaptan, a chemical that is added to give natural gas a distinctive foul smelling odor. On the average, individuals are able to detect the smell of natural gas at a concentration of 0.2% in air.

In the event of a **GAS LEAK:**

- a. Inform the Emergency Coordinator. If a major leak is involved, they will call 911 for assistance.
- b. Turn off gas if location of valve is known and it is safe to do so.
- c. Do not turn electric switches on or off.
- d. Do not use the telephone in the area of the leak - go to another area.
- e. Do not attempt to locate a leak by using a match or lighter.
- f. Ventilate the area by opening windows where possible.
- g. If leak is significant (strong or intensifying) evacuate area and keep people out.
- e. Supervisors will account for their personnel and will report this information to the Emergency Coordinator.

Power Failure:

Electrical failures may occur periodically for a variety of reasons. It is important for each EQ location to establish procedures and train employees to accomplish critical tasks manually if possible.

In the event of a **POWER FAILURE:**

- a. Inform the Emergency Coordinator.
- b. If it is safe to do so, turn off any equipment that may start unexpectedly once power is restored. If equipment cannot be deactivated, it may be necessary for the Emergency Coordinator to post someone near the equipment until power is restored.
 - Follow site Preventative Maintenance / Malfunction Abatement plans for air pollution control devices.
 - Laboratories shall follow the procedures outlined in the Chemical Hygiene Plan (QES-PR-025-ALL) where appropriate.
- c. If you are in an unlighted area, proceed cautiously to an area that has lighting. Provide assistance to others in your area that may be unfamiliar with the space.
- d. Supervisors will account for their personnel and will report this information to the Emergency Coordinator.

11. Train Derailment

According to the U.S. Department of Transportation, about 4,300 shipments of hazardous materials travel each day by rail; most of these materials safely reach their destinations. These hazardous materials include chemicals and related products and petroleum products, many of which are corrosive, explosive, flammable, or toxic. They can be extremely dangerous when improperly released.

In the event of a **TRAIN DERAILMENT**:

If the derailment occurs on site:

- a. Inform the Emergency Coordinator.
- b. Notify the rail company. (Rail contact information is listed in Appendix A.)
- c. Follow procedures listed above for fire or spill as necessary.

If the derailment occurs off site:

- a. Follow directions given by the community Incident Commander (usually fire or police department) for evacuating the facility or sheltering-in-place.

12. Department of Transportation (DOT) Emergencies

Emergencies involving EQ trucks and drivers may happen while in transit, at a customer location or at an EQ facility.

Notification:

All emergency situations will be reported to the DOT Emergency Coordinator. The driver must provide the following information when reporting an emergency:

- Driver's name
- Location
- Material being transported
- Estimated quantity spilled
- Conditions at the scene and any actions taken
- Injuries or other resulting damage

An Incident Report (QES-FM-001-ALL) must be completed and forwarded to the QEHS Manager once the emergency has been resolved.

In the event of an **TRUCK EMERGENCY** while at a customer site or EQ facility:

- a. Notify customer or facility contact person.
- b. Notify the DOT Emergency Coordinator.
- c. Follow directions given.

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In the event of an in-transit **TRUCK FIRE**:

- a. If the fire is still in the incipient stages, and you are trained to do so, attempt to extinguish the fire.
- b. If the fire is past the incipient stage, or attempts to extinguish an incipient fire fail, evacuate to a safe distance. If you can do so safely, locate the shipping paperwork and Emergency Response Guidebook (ERG) and take them with you. **Call 911 (or local emergency number).**
- c. If possible, use traffic cones, triangles, or other means to prevent other vehicles, pedestrians or on-lookers from entering the area.
- d. Inform the DOT Emergency Coordinator. You may be directed at this time to call 911 or the local emergency number if you haven't already (see step b).
- e. See Section 13 for additional reporting requirements.
- d. Other requirements may vary by state. Consult the Transportation Contingency Plan located in Appendix C.

In the event of an in-transit **SPILL** or **LEAK** from a **TRUCK**:

- a. Inform the DOT Emergency Coordinator. You may be directed at this time to call 911 or the local emergency number.
- b. If a volatile, flammable material is spilled, control sources of ignition.
- c. Use traffic cones, triangles, or other means to prevent other vehicles, pedestrians or on-lookers from entering the area.
- d. Don PPE as appropriate to the hazards. Consult the Personal Protective Equipment Program (QES-PR-021-ALL) if more information is needed.
- e. Consider the need for respiratory protection. **Never enter a contaminated atmosphere without protection or use a respirator without training.** Consult the Respiratory Protection Program (QES-PR-031-ALL) if more information is needed.
- f. If possible, stop the spill/leak by closing valves or using plugs, blocking, bonding or patching materials. Large-sized containers may be used to overpack leaking containers. Be sure to properly label the containers used.
- g. If possible, contain and then clean up the spill using the absorbent material from the truck spill kit.
- h. If the spill is too large to be contained by absorbent material, use dirt or other available resources to construct the temporary barrier. Every attempt should be made to keep the spill from spreading.
- i. See Section 13 for additional reporting requirements.
- j. Other requirements may vary by state. Consult the Transportation Contingency Plan located in Appendix C.

In the event of a **ACCIDENT** involving an EQ **TRUCK** while in transit:

- a. If there is more than one party or vehicle involved in the accident, call 911 or the local emergency number first then notify the DOT Emergency Coordinator.
- b. If the accident only involves you and your truck, notify the DOT Emergency Coordinator. You may be directed at this time to call 911.
- c. Use traffic cones, triangles, or other means to prevent other vehicles, pedestrians or on-lookers from entering the area.
- d. Follow procedures listed above for fire or spill as necessary.
- e. Collect contact and insurance information from all those involved in the accident. Collect contact information from any witnesses.
- f. See Section 13 for additional reporting requirements.
- g. Other requirements may vary by state. Consult the Transportation Contingency Plan located in Appendix C.

13. Airplane Crash

EQ has operations within or in close proximity to several airports.

In the event of an **AIRPLANE CRASH**:

- a. Inform the Emergency Coordinator.
- b. Follow procedures listed above for fire as necessary.

Section 6: Medical Emergencies

1. General Information

Medical problems can run the gamut from relatively minor, isolated events to the significant events involving many people that might accompany a major disaster. An Incident Report (QES-FM-001-ALL) must be completed and forwarded to the QEHS Manager whenever an illness or injury occurs.

2. First Aid

All EQ facilities and jobsites are equipped with first aid kits for performing minor first aid (locations are provided on the Emergency Preparedness Drawing in Appendix B). In addition, facility-specific procedures may be written for exposure to chemicals likely to be on site (e.g., Hydrofluoric Acid.) EQ employees are authorized to render the minimum first aid necessary within their training until help arrives.

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

3. Automated External Defibrillator (AED)

Some EQ facilities are equipped with Automated External Defibrillators (AED) for use in the event of a sudden cardiac arrest. EQ provides training in the use of the AED device. It is preferable that the rescuer be trained in order to understand the role of defibrillation in the broader context of the cardiac chain of survival. Training in CPR and AED skills will enable the rescuer to use all the steps in the cardiac chain of survival, thereby significantly increasing the victim's chance of survival. However, all 50 states now have AED Good Samaritan provisions that help protect laypersons.

In the event of a serious **MEDICAL EMERGENCY**:

- a. Call 911 or the local emergency number first then notify the Emergency Coordinator.
 - You may have someone make these calls for you. If someone else calls, have the person report back to you for verification that the calls were made.
 - Be prepared to give as much information as possible – type of emergency, what help is needed, exact address, telephone number, and victim information.
 - Don't hang up until you are told to do so by the dispatcher.
- b. Do not attempt to move the victim unless they are in imminent danger of further injury.
- c. Provide first aid until emergency personnel arrives if you have the appropriate training and equipment. Always wear PPE when coming into contact with blood, vomit, or other bodily fluids.
- d. If possible, send someone to escort emergency responders to the appropriate location.

In the event of employee **CONTAMINATION**:

- a. Call 911 or the local emergency number then notify the Emergency Coordinator.
- b. Protect the responder with the proper PPE and clothing.
- c. Remove the victim well away from the contamination area.
- d. Remove all contaminated clothing and decontaminate the victim.
- e. Administer appropriate first aid if required and you are trained to do so. Treat the victim to prevent or reduce shock, and provide comfort and reassurance to the victim.
- f. Check waste approvals and/or Material Safety Data Sheets (MSDS's) for additional chemical and first aid information.
- g. Once the chemical contaminated victim is stable and safe, begin spill control procedures to appropriately deal with the event which initially caused the employee chemical contamination.
- h. Send MSDS's or chemical information to the hospital along with the patient.

Section 7: Threats of Violence

1. General Information

This section deals with specific emergency procedures for different types of workplace violence. Please consult the Human Resources Department and/or Employee Manual for EQ's policy on workplace violence, prevention, and employee assistance / crisis management.

2. Types of Workplace Violence

Third Party Intrusion Into the Workplace: Estranged or recently divorced husbands, ex-boyfriends or emotionally disturbed persons.

Disgruntled Employees: Usually direct their act(s) of violence towards coworkers, supervisors or managers. The motive for their action is usually revenge. They believe something very important has been taken away from them. Such as: a promotion, a raise, an assignment, etc.

Random Violence: Robbery or Terrorism

3. Crime

In the event of a **CRIME**:

If the crime or criminal behavior is in progress:

- a. DO NOT approach or attempt to apprehend the persons involved. Take only actions necessary for self-defense. If you are safe, stay where you are until help arrives. Otherwise, try to move to a safe location.
- b. Call 911 or the local emergency number first then notify the Emergency Coordinator.
- c. Provide as much information as you can, including:
 - Type of crime or criminal behavior
 - Location of crime or criminal behavior
 - Description of persons (height, weight, sex, clothing) and of any weapons involved
 - Direction of anyone's travel away from the scene
 - Vehicle description (color, year, make, model, license plate number)

To report crimes no longer in progress:

- a. Notify Plant Management
- b. Call local Police Department

4. Workplace Violence

Your actions may help calm a potentially violent situation, or they may escalate the problem. Try to behave in a manner that helps calm the situation.

In the event of a **WORKPLACE VIOLENCE** situation:

- a. Take implied threats seriously, avoid confrontation.
- b. Call 911 or the local emergency number first then notify the Emergency Coordinator.
- c. Remain calm.
- d. Try to notify other staff without being obvious.
- e. Do not make sudden moves or show excitement in your voice. Be patient and calm. Discussing the cause of the hostility may allow you to diffuse the situation or provide you the opportunity to escape.

5. Suspicious Mail & Objects

Suspicious packages are not limited to those delivered by a commercial or U.S. postal carrier. Any of the following characteristics have been designated by the U.S. Post Office and the Department of Alcohol, Tobacco, and Firearms as indicators of suspicious packages:

- Lumps, bulges, or protrusions on package
- A lopsided or heavy-sided package or excessive masking tape
- Handwritten addresses or labels from companies (check to see if the company exists and if they sent a package or letter)
- Packages wrapped in string
- Excess postage on small packages or letters
- No postage or un-canceled postage
- Handwritten notes, such as, "To Be Opened in the Privacy of," "Confidential," "Your Lucky Day Is Here," "Prize Enclosed"
- Restrictive markings such as "confidential" or "personal"
- Improper spelling of common names, places, or titles
- Generic or incorrect titles. Titles with no name attached
- Leaks, stains, or protruding wires, string, tape, etc.
- Hand delivered or "dropped off for a friend" packages or letters
- No return address or a pretend return address
- Foreign mail, air mail, and special-delivery packages
- Any letter or packages arriving before or after a phone call from an unknown person asking if the item was received

In the event that **SUSPICIOUS MAIL** or **SUSPICIOUS OBJECT** is received:

- a. Do not touch it, tamper with it, or move it.
- b. Move people away from the suspicious object. Avoid contaminating other areas and people. Do not move or attempt to open the package. Do not investigate too closely. Do not cover or insulate the package
- c. Call 911 or the local emergency number first then notify the Emergency Coordinator. Be prepared to describe the item, its location, and anything you may have observed.
- d. Follow Police instructions. If you are told to evacuate the area or building, follow the facility evacuation procedures.

6. Bomb Threat

A bomb threat may come to the attention of the receiver in various ways. It is important to compile as much information as possible.

In the case of a written threat, it is vital that the document be handled by as few people as possible as this is evidence that should be turned over to the local Police Department. If the threat should come via e-mail, make sure to save the information on your computer. Most bomb threats are transmitted over the telephone; thus, the following instructions will be provided with that assumption.

In the event of a **BOMB THREAT**:

- a. Remain calm.
- b. Listen carefully. Be polite and show interest. Try to keep the caller talking so that you can gather more information.
- c. Use the "Bomb Threat Checklist" located in Appendix E to question the caller in a polite manner. Use any means to prolong the conversation. This will provide a better chance to identify the voice and hopefully obtain additional information about a device, the validity of the threat, or the identity of the caller.
- d. Upon completion of the call, immediately call 911 or the local emergency number then notify the Emergency Coordinator.
- e. Follow Police instructions. If you are told to evacuate the area or building, follow the facility evacuation procedures.

7. Civil Disorder

Demonstrations, riots, looting and other forms of civil disturbance can threaten the site operation and the safety of persons at the site. Property damage resulting from civil disturbance is often extensive and costly, both in terms of dollars and in diminished operating ability.

Because it is difficult to develop an effective response to these types of situations due to the varying circumstances involved, very general procedures follow.

In the event of **CIVIL DISORDER**:

- a. At the first sign of a civil disturbance/protest, notify the Emergency Coordinator and/or facility management.
- b. The Emergency Coordinator or his/her designee will notify the Police Department and wait for instructions.

Section 8: Emergency Shut Down of Operations

1. General Information

For some facilities, emergency shutdown operations require special care beyond normal operational procedures. Process shutdown often involves numerous simultaneous activities and rapidly changing process conditions. Normally automated systems or process controls may be bypassed, disconnected, or under manual control. Of particular concern are the hazards associated with the additional human/process interactions required during shutdown operations, as process parameters may be in unusual ranges and operators may have less experience controlling plant conditions during a shutdown.

Chemical releases during process shutdown operations must be minimized; and if reportable releases occur, they must be reported immediately upon constructive knowledge of the occurrence.

2. Employees Remaining to Shut Down Operations Before Evacuating

Each facility should review their operation and determine whether total and immediate evacuation is possible for various types of emergencies. The preferred approach is immediate evacuation of all employees when the evacuation alarm is sounded.

However, certain equipment and processes should be shut down in stages or over time. In other instances it is not possible or practical for equipment or certain process to be shut down under certain emergency situations. Some facilities may require designated employees remain behind briefly to operate fire extinguishers or shut down gas and/or electrical systems and other special equipment that could be damaged if left operating or create additional hazards to emergency responders, or cause a release of hazardous materials.

If any employees will stay behind, an emergency shutdown plan must be developed and should describe in detail the procedures to be followed by these employees. The "Emergency Shut Down Checklist" (QES-FM-138-ALL) may be found in Appendix E to assist with development of this plan.

All employees remaining behind should be capable of recognizing when to abandon the operation or task and evacuate before their egress path is blocked. The plan should include locations where utilities (such as electrical and gas) can be shut down for all or part of the facility either by EQ employees or by emergency response personnel.

Section 9: Communications

1. General Information

Communicating effective alerts and warnings allows people to take actions that save lives, reduce damage and human suffering, and speed recovery. Rapid reporting about what is happening during a major emergency can also be very effective in protecting people, reducing damage, and improving response. EQ facilities must be capable of warning those at risk in a timely manner.

While many informal channels are used to communicate business related information every day, widespread emergency communication depends on disseminating alerts, warnings and follow-up information through as many channels as possible, very rapidly.

Each EQ location must determine the following:

- How the facility intends to receive and pass on both emergency alert and follow-up instructions/information to its employees during the normal business day.
- How the facility intends to make employees who work after the normal EQ business day aware of emergencies or critical issues.
- How the facility intends to make key employees aware of an emergency affecting their operations when they are away from the facility.

2. Alarms and Communications Equipment

Each EQ facility employs different methods to alert personnel in the event of an emergency. Some facilities have alarm systems for the entire site; others have alarms only for critical processes. Some facilities / departments, due to size and type of operation, rely on manual systems for notification. Manual systems include: overhead paging / intercom, portable radio, telephone, cellular phone, etc.

Each facility must identify the method(s) used and ensure that all personnel are trained both in how to sound the alarm and what to do if they hear an alarm.

3. Call Trees

The establishment of a call tree — i.e., a list that defines who is responsible for calling whom in the event of a disaster — makes contacting personnel significantly easier. The call tree must be updated following any change in organization, location or employee contact information. The call tree will be tested during testing of the Emergency Action Plan.

4. Communicating with Media

All inquiries by the media and/or other outside groups regarding an emergency event shall be directed to the EQ Marketing & Communications Manager.

Section 10: Resources

1. Emergency Response Teams (ERT)

The primary responsibility of facility Emergency Response Teams formed by this Plan is to provide for the safe and efficient evacuation of all personnel during an emergency situation. The secondary responsibility is to assist in mitigating the emergency if it is within their training and capabilities.

Site ERTs should consist of personnel from all departments, but especially from maintenance and critical operational areas. The ERT will report to the Emergency Coordinator during the emergency event.

2. Planning & Practice

Planning is an ongoing effort, and plans and associated documents should never be regarded as final or complete. They must be evaluated and updated on a regular basis.

Practice is an essential component of emergency preparedness. It is impossible to prepare adequately for an emergency without it. Each facility shall hold emergency drills regularly, varying the types of drills, as is appropriate to the operation. Each drill should be conducted as seriously as an actual emergency. Practice provides the opportunity to determine what works and what does not.

3. Coordination with Public Authorities

Coordination with public authorities is a critical component of emergency planning. Public authorities may include fire, police, city, county, state or national emergency management teams, National Guard, public utilities, State Emergency Response Committee (SERC), Local Emergency Planning Committee (LEPC), and state and federal environmental agencies.

It is essential to know the local and regional public authorities who support each EQ facility and understand their response procedures. The QEHS Manager at each facility, with support from facility management, will coordinate emergency planning activities with the applicable response agencies.

Every effort shall be made to familiarize first responders with EQ facilities and to share critical information (i.e. site layout information, floor plans, location and quantities of hazardous materials, etc.) Site tours and opportunities to conduct joint emergency drills shall be made available.

Section 11: Post Emergency Evaluation

Following the conclusion of any significant emergency event or exercise, the facility must conduct a post-incident or exercise review. Such reviews shall be conducted in the form of a meeting or by requesting written inputs from participating departments or agencies regarding problems observed and recommendations for improvements in the plan, procedure, or training.

Section 12: Reporting

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The flowcharts found in Appendix D illustrate the general requirements for incident reporting. State and local requirements may differ greatly. The “Spill or Release Report and Notification Form” (QES-FM-133-ALL) also found in Appendix D should be used when reporting to ensure all criteria are met.

The EQ Incident Report (QES-FM-001-ALL) is required to be completed for all incidents.

Section 13: Definitions

All Clear: When an emergency situation is over, the Emergency Coordinator authorizes employees to return to normal work activities.

Assembly Area: A predetermined location in which to assemble and conduct a roll call or head count during an emergency. Also may be called a “rally point.”

Automated External Defibrillator (AED): An automatic computerized medical device programmed to analyze heart rhythms, recognize rhythms that require defibrillation, and provide visual and voice instructions for the device operator, including, if indicated, to push the button to deliver an electric shock.

Cardiopulmonary Resuscitation (CPR): Rescue breathing and external cardiac compression applied to a victim in respiratory arrest or sudden cardiac arrest.

Emergency: Any unplanned event that affects the safety or security of persons in or near the facility, causes damage or destruction to the facility or equipment, or disrupts the normal facility operation.

Emergency Coordinator: The designated EQ representative in charge during an incident, or the ranking emergency response officer on the scene.

Emergency Contact List: An approved list of individuals appointed to be designated coordinators of emergency response activities. The list will also contain contact information for the EQ Communications Manager as well as relevant governmental agencies and public services (i.e. police, fire, EPA, DOT, etc.)

Emergency Response: A response effort by employees from outside the immediate response area or by other designated responders (i.e., mutual aid groups, local fire departments, etc.) to an occurrence which results, or is likely to result, in an uncontrolled release of a hazardous substance. Responses to incidental releases of hazardous substances where the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area, or by maintenance personnel are not considered to be emergency responses. Responses to releases of hazardous substances where there is no potential safety or health hazard (i.e., fire, explosion, or chemical exposure) are not considered to be emergency responses.

Environmental Protection Agency (EPA): An agency of the federal government of the United States charged with protecting human health and with safeguarding the natural environment: air, water, and land.

EQ Representative: An authorized EQ employee responsible for work performed by a specific contractor (i.e., project manager). In some cases, authority may be formally delegated to a responsible representative that is not an EQ employee.

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Hazardous Material: A substance or mixture of substances that may produce adverse effects on the health or safety of a human being, due to characteristics such as being explosive, flammable, poisonous, irritating, or corrosive.

Hazardous Waste: A chemical waste which may pose a hazard to people or the environment.

Incident Command System (ICS): A standardized on-scene incident management concept designed specifically to allow responders to adopt an integrated organizational structure equal to the complexity and demands of any single incident or multiple incidents without being hindered by jurisdictional boundaries.

Incident Commander: The person responsible for all aspects of an emergency response; including quickly developing incident objectives, managing all incident operations, application of resources as well as responsibility for all persons involved. The Incident Commander sets priorities and defines the organization of the incident response teams and the overall Incident Action Plan. The role of Incident Commander may be assumed by Senior or higher Qualified Officers upon their arrival or as the situation dictates. Even if subordinate positions are not assigned, the Incident Commander position will always be designated or assumed. The Incident Commander may, at their own discretion, assign Officers, who may be from the same agency or from assisting agencies, to subordinate or specific positions for the duration of the Emergency.

Incidental Spill: See “Minor Spill”

Incipient Stage Fire: A fire in its beginning stage that can be controlled by portable fire extinguishers or small hose systems.

Information Officer: In an Incident Command System, the Information Officer is the point of contact for the media.

Liaison Officer: In the Incident Command System, the Liaison Officer is the contact for representatives from other agencies assigned to the incident.

Major Spill: When, as a consequence of a release of a hazardous substance the following conditions, or similar conditions, may develop, such situations would normally be considered emergency situations requiring an emergency response effort:

- High concentrations of toxic substances.
- Situation that is life or injury threatening.
- Imminent Danger to Life and Health (IDLH) environments.
- Situation that presents an oxygen deficient atmosphere.
- Condition that poses a fire or explosion hazard.
- Situation that required an evacuation of the area.
- A situation that requires immediate attention because of the danger posed to employees in the area.

Minor Spill: A release of a hazardous substance which does not pose a significant safety or health hazard to employees in the immediate vicinity or to the employee cleaning it up, nor does it have the potential to become an emergency within a short time frame. The spill can be handled safely by employees in the immediate area, without the aid of a coordinated response effort from employees outside the area. Also may be called an “Incidental Spill.”

National Response Center (NRC): The sole federal point of contact for reporting oil and chemical spills. Spills may be reported by calling 800-424-8802, or online at www.nrc.uscg.mil/nrchp.html. Reporter should be sure to get a case number when reporting for future reference during the incident.

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Publicly Owned Treatment Works (POTW): A wastewater treatment facility that is owned by a state or municipality.

Rally Point: See “Assembly Area.”

Recordable: Occupational illnesses or injuries as defined in OSHA 29 CFR 1904.12.

Release: A discharge of a substance that has contacted, or may potentially contact air, ground or surface water, or shorelines.

Safety Officer: In the Incident Command System, the Safety Officer monitors safety conditions and develops measures for assuring the safety of all assigned personnel.

Shelter In Place: When employees are instructed to stay where they are to avoid possible danger outside. This could occur in the event of severe weather, hazardous materials release, a suspicious intruder, or hostage situation. Select an interior room(s) within the facility, or rooms with no or few windows.

Spill: A discharge of a substance that has contacted, or may potentially contact air, ground or surface water, or shorelines.

Sudden Cardiac Arrest: A significant life-threatening event when a person's heart stops or fails to produce a pulse.

Tornado Warning: An alert issued by government weather services to warn an area that a tornado may be imminent. It can be issued after either a tornado or funnel cloud has already been spotted, or if there are radar indications that a tornado may be possible.

Tornado Watch: Issued when weather conditions are favorable for the development of severe thunderstorms that are capable of producing tornadoes. A watch does not mean that the severe weather is actually occurring only that conditions have created a significant risk for it.

Utility Failure: Interruption or loss of services for an extended period of time. Includes: gas, oil, electricity, fiber optics, telephone, microwave towers, water, etc.

Workplace Violence: Physical assault, threatening or intimidating behavior, or verbal abuse which occurs at the workplace.

Appendix A: Emergency Contact Information

Attached:

- Contact lists
- Notification Flow Chart

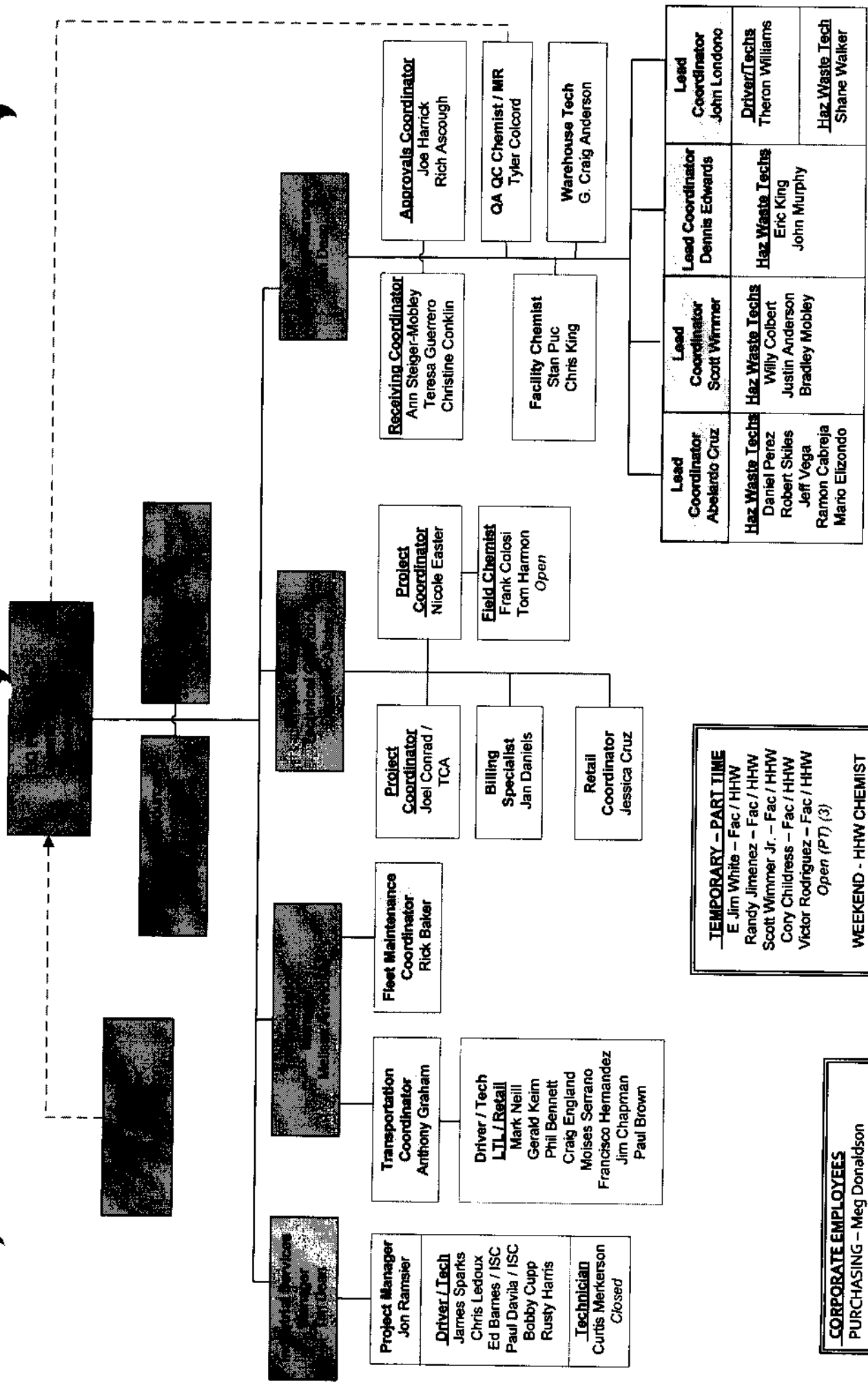


EQ FLORIDA, INC.

EMERGENCY CONTACT PERSONNEL / RESPONSE AGENCIES AND ORGANIZATIONS

*Dial 9 to get an outside line from any office phone

Gene Cieply 813-319-3410 (office) 813-777-3998 (cell) 813-909-7983 (home)	EMS: 911 Brandon Hospital: 813-681-5551 Tampa General Hospital: 813-844-7000 Lakeside Occupational Medical Center: 813-247-4489
Stuart Stapleton 813-319-3423 (office) 813-770-9954 (cell) 813-412-2302 (home)	National Response Center: 800-424-8802 Florida DEP: 850-245-8705 (during business hours) Florida DEP: 850-413-9911 (24 Hour) Florida DEP Southwest District: 813-632-7600 (during business hours) U.S. Coast Guard: 305-415-6820 (spill to navigable waters) US Environmental Protection Agency: 404-562-8700 US Environmental Protection Agency: 404-562-8705 (24 Hour) Poison Control Center: 800-222-1222
Ken Dean 813-319-3433 (office) 813-748-4403 (cell) 813-994-3892 (home)	Tampa Fire Department: 911 or 813-232-6800 Tampa Police Department: 911 or 813-231-6130 Florida Highway Patrol: 911 or 813-632-6859 Hillsborough County Sheriff's Office: 911 or 813-247-8200
Dave Cumrine 734-329-8032 (office) 734-845-8410 (cell)	
City of Tampa - Storm Water: 813-259-1693	Tampa Electric Co. (TECO): 877-588-1010 City of Tampa Utilities (Water): 813-274-7400 (24 Hour)



TEMPORARY - PART TIME
E Jim White - Fac / HHW
Randy Jimenez - Fac / HHW
Scott Wimmer Jr. - Fac / HHW
Cory Childress - Fac / HHW
Victor Rodriguez - Fac / HHW
Open (PT) (3)
WEEKEND - HHW CHEMIST
Open (PT) (2)
Weekend - HHW Gen Laborers
Craig Anderson (PT)
Wm Frank Cabal (PT)
Clifton Whitehead (PT)
Alex Wimmer (PT)
Open (PT) (1)

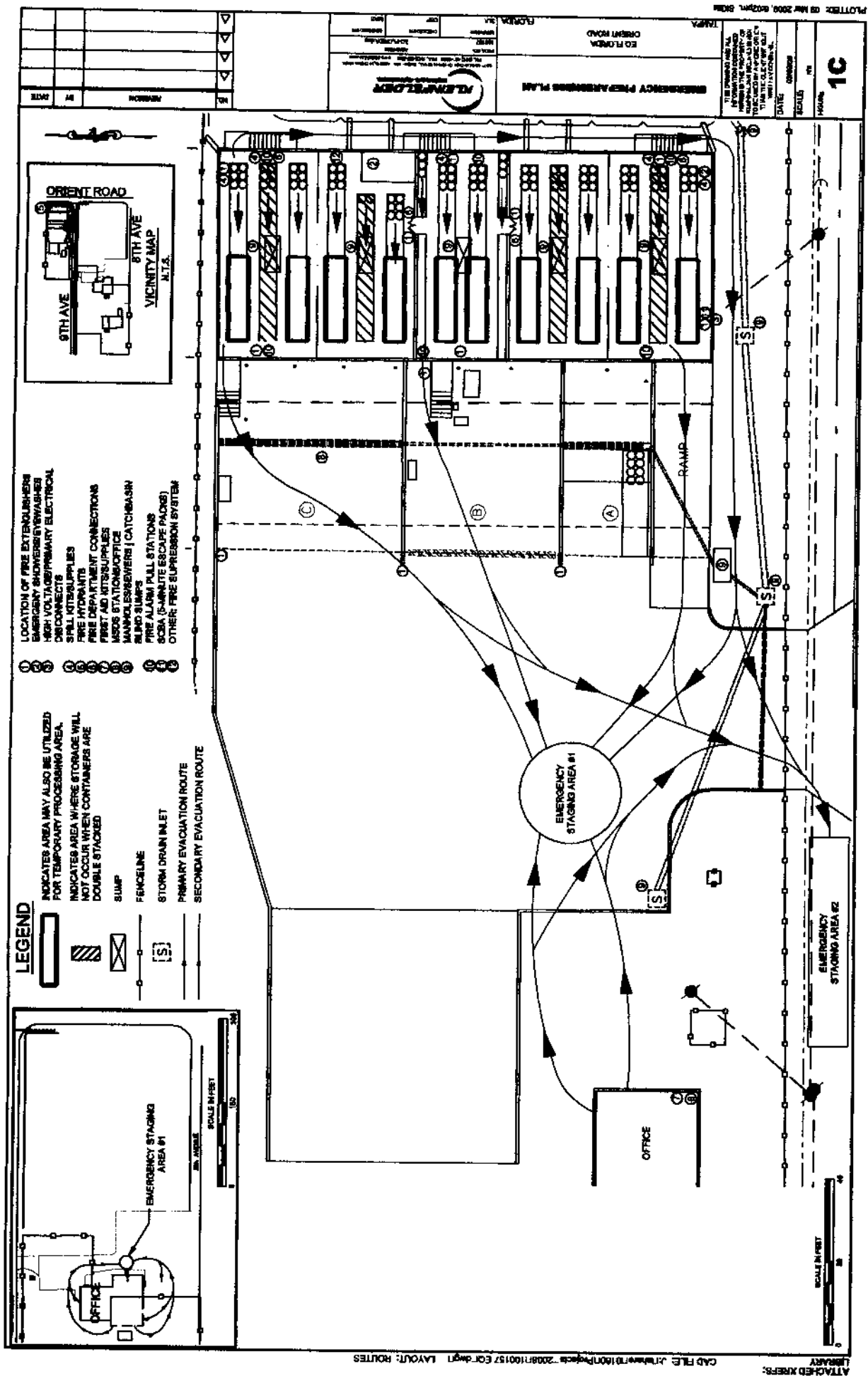
CORPORATE EMPLOYEES
PURCHASING - Meg Donaldson
ACCOUNT EXECS - Curt DeBrunner
FINANCE - Wendi Schelb
Dena Everhardt
FACILITY SPECIALIST - Open

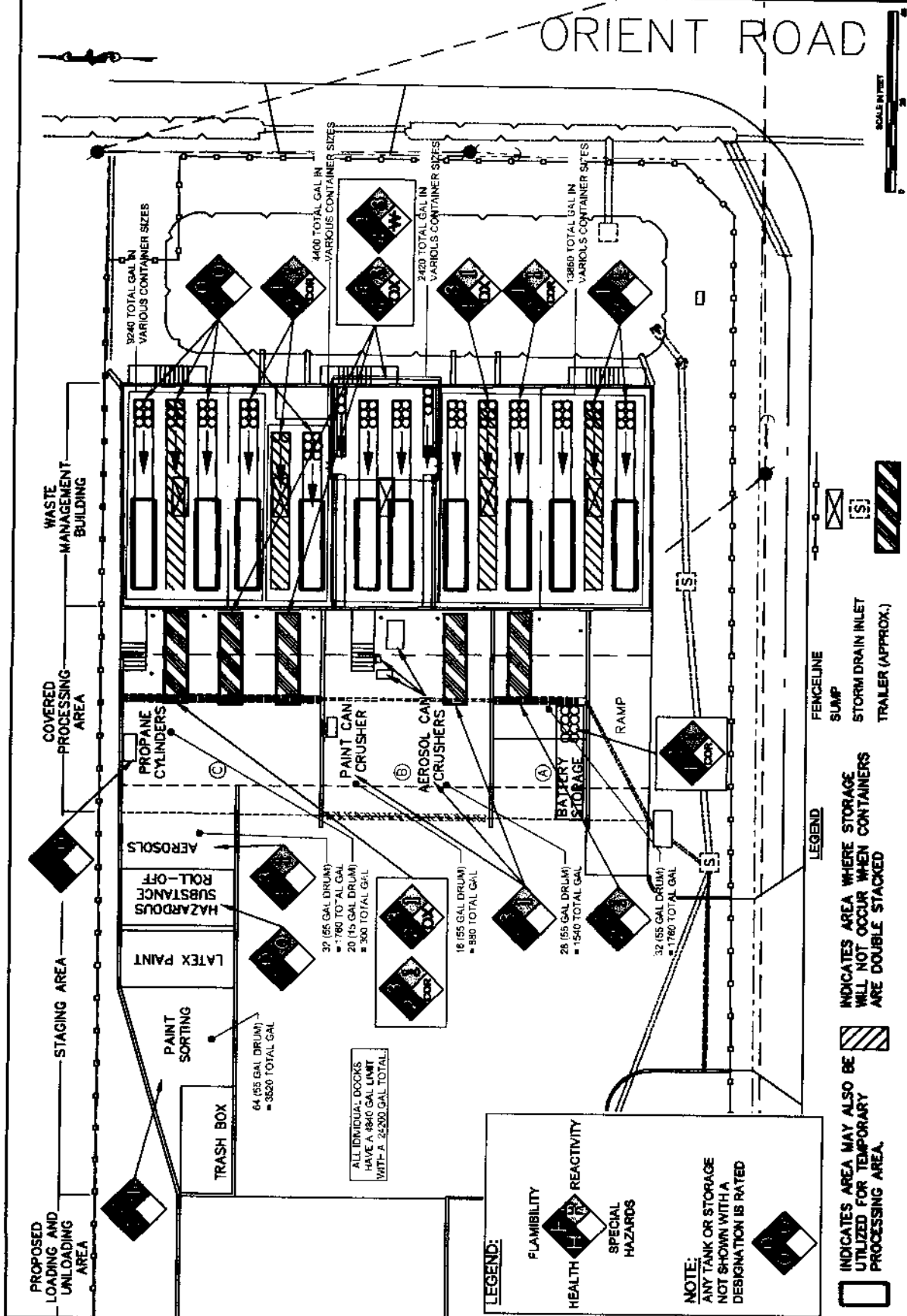
BUDGETED HEADCOUNT: 77 TOTAL (60 FT, 17 PT)
ACTUAL HEADCOUNT: 66 TOTAL (56 FT, 9 PT)

Appendix B: Drawings and Maps

Attached:

- Emergency Preparedness Drawing(s)
- Drawings showing locations / quantities of hazardous materials w/ NFPA and/or DOT hazard labels.
- Maps to nearest hospital and clinic





INDICATES AREA MAY ALSO BE UTILIZED FOR TEMPORARY PROCESSING AREA.

NOTE:
ANY TANK OR STORAGE
NOT SHOWN WITH A
DESIGNATION IS RATED

LEGEND:

FLAMMABILITY



HEALTH-HAZARD-REACTIVITY

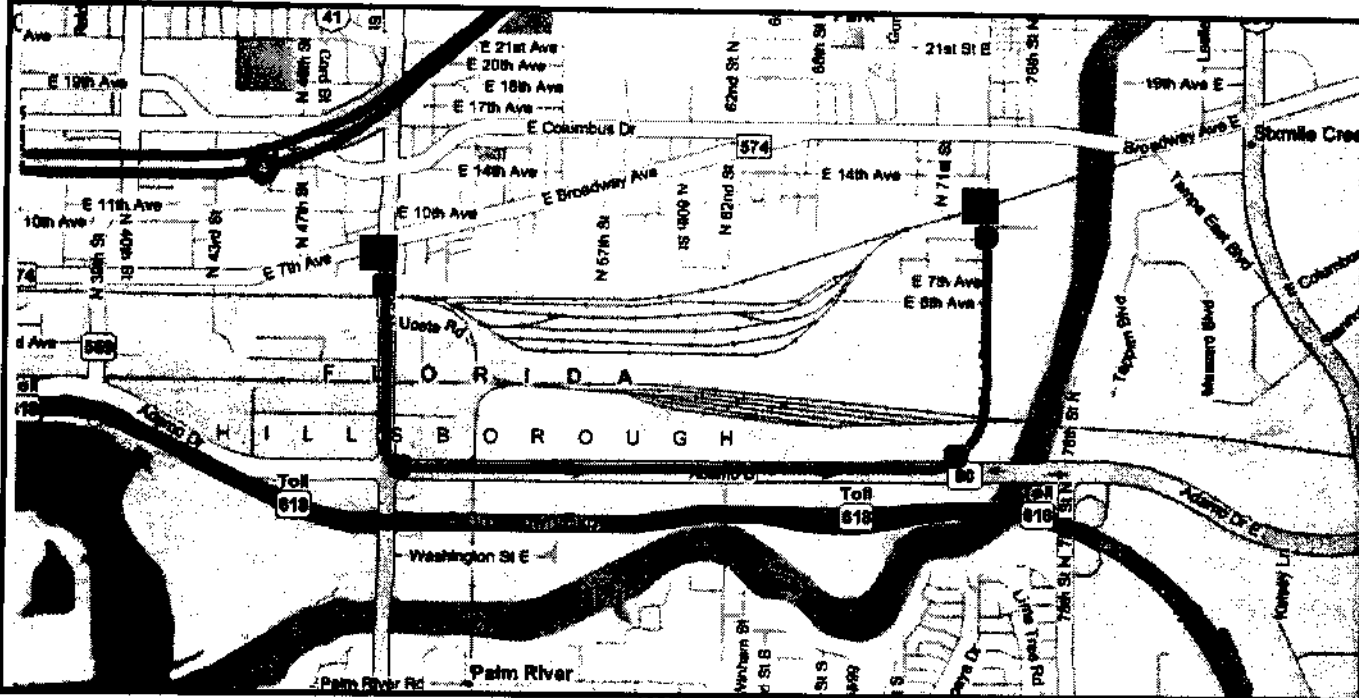
SPECIAL HAZARDS

REACTIVITY

FLAMMABILITY

ATTACHED XREFS:
LIBRARY
CAD FILE: I:\trans\101807\Projects_2008\100157 EDR.dwg - LAYOUT: 1A

Driving directions: 2002 Orient Rd, Tampa to 1750 N 50th St, Tampa



A Start: 2002 Orient Rd, Tampa, FL 33619-3356

A-B: 2.9 mi, 5 min

1. Depart Orient Rd 0.7 mi
2. Bear right onto SR-60 West / Adamo Dr 1.6 mi
3. Turn right onto US-41 / N 50th St 0.6 mi
4. Arrive at 1750 N 50th St

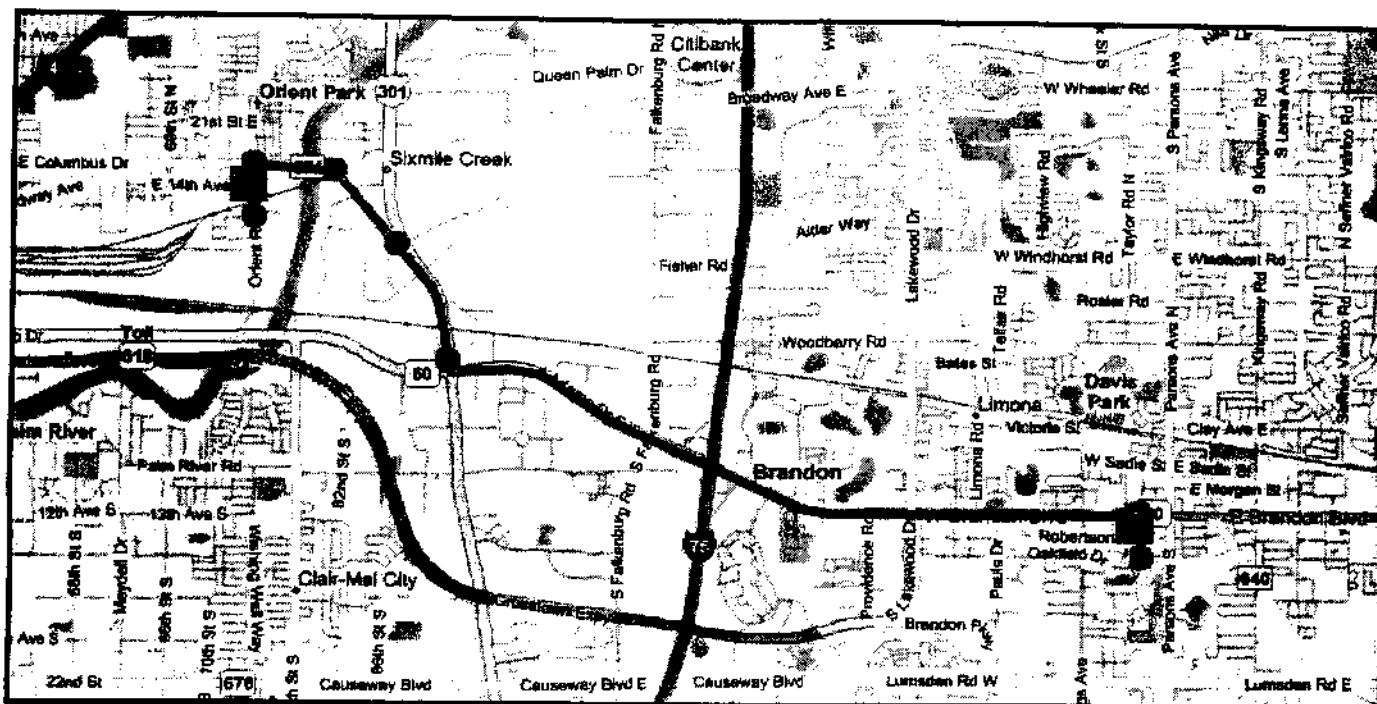
If you reach CR-574 / E Broadway

B End: 1750 N 50th St, Tampa, FL 33619

These directions are subject to the [Microsoft® Live Search Terms of Use](#) and for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2008 NAVTEQ™, AND™.

Directions to Nearest Clinic: Lakeside Occupational Medical Center

Driving directions: 2002 Orient Rd, Tampa to 119 Oakfield Dr, Brandon



A Start: 2002 Orient Rd, Tampa, FL 33619-3356

A-B: 6.7 mi, 13 min

1. Depart Orient Rd 0.3 mi
2. Turn right onto CR-574 / Broadway Ave E 0.5 mi
3. Bear right onto Tampa East Blvd 0.6 mi
4. Keep straight onto US-301 South 0.8 mi
5. Turn left onto SR-60 East / Adamo Dr E 4.3 mi
Pass BURGER KING in 1.0 mi
6. Turn right onto Moon Ave S 0.3 mi
WENDY'S on the corner
7. Arrive at 119 Oakfield Dr
*The last intersection is Robertson St W / W Robertson St
If you reach Oakfield Dr, you've gone too far*

B End: 119 Oakfield Dr, Brandon, FL 33511-5779

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Directions to Nearest Hospital: Brandon Regional Hospital

Appendix C: Plans and Permits

Attached:

- Contingency Plan
- Stormwater Pollution Prevention Plan (SWP3)
- Florida Department of Environmental Protection Solid Waste Permit
- Florida Department of Environmental Protection Hazardous Waste Permit
- Spill Prevention, Control and Countermeasure Plan (SPCC)

Appendix D: Agency Notification and Reporting

Attached:

- Spill or Release Report and Notification Form (QES-FM-133-ALL)
- Incident Commander Checklist (QES-FM-134-ALL)
- General Notification Requirements Flowchart (QES-FC-003-ALL)



SPILL or RELEASE REPORT and NOTIFICATION FORM

Name of Person Reporting Spill:		Telephone No.:	
Street Address:		Name of Facility:	Spill Location (Be specific):
City:	State:	Zip Code:	
RELEASE DATA: Complete all applicable categories. Check all boxes that apply to the release. Provide the best available information regarding the release and its impacts. Attach additional pages if necessary.			
Date & Time of Release (if known)	Date & Time of Discovery	Duration of Release (if known)	Type of Incident
		<input type="checkbox"/> days <input type="checkbox"/> hours <input type="checkbox"/> minutes	<input type="checkbox"/> Explosion <input type="checkbox"/> Fire <input type="checkbox"/> Leaking container <input type="checkbox"/> Loading/unloading <input type="checkbox"/> Pipe/valve leak or rupture <input type="checkbox"/> Vehicle accident <input type="checkbox"/> Other
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Factors Contributing to Release:		Source of Loss:	
<input type="checkbox"/> Equipment failure <input type="checkbox"/> Operator error <input type="checkbox"/> Faulty process design	<input type="checkbox"/> Training <input type="checkbox"/> Weather conditions <input type="checkbox"/> Other	<input type="checkbox"/> Container <input type="checkbox"/> Equipment <input type="checkbox"/> Pipeline	<input type="checkbox"/> Ship <input type="checkbox"/> Tank <input type="checkbox"/> Tanker <input type="checkbox"/> Truck/Vehicle <input type="checkbox"/> Other
Type of material released:	Material listed on:	Immediate Actions Taken:	
<input type="checkbox"/> Oil <input type="checkbox"/> Flammable / Combustible Material <input type="checkbox"/> Waste <input type="checkbox"/> State Regulated Material <input type="checkbox"/> Hazardous Substance <input type="checkbox"/> Other	<input type="checkbox"/> CERCLA list (40 CFR 302.4) <input type="checkbox"/> Extremely Hazardous Substance- EPCRA Section 302 list (40 CFR 355) <input type="checkbox"/> RCRA Hazardous Waste <input type="checkbox"/> State list <input type="checkbox"/> Other list	<input type="checkbox"/> Containment <input type="checkbox"/> Dilution <input type="checkbox"/> System shut down <input type="checkbox"/> Evacuation <input type="checkbox"/> Hazard Removal <input type="checkbox"/> Neutralization <input type="checkbox"/> Diversion of release to treatment <input type="checkbox"/> Decontamination of persons / equipment <input type="checkbox"/> Monitoring <input type="checkbox"/> Other	
Spill / Release Reached:			
<input type="checkbox"/> Surface waters (include name of river, lake, drain, etc. involved):			
Distance from spill location to surface water:			
<input type="checkbox"/> Drain connected to offsite sanitary sewer (include name of wastewater treatment plant and/or street drain, if known):			
<input type="checkbox"/> Drain connected to storm sewer (include name of drain or body of water it discharges into, if known):			
<input type="checkbox"/> Groundwater (include name of aquifer, if known):			
<input type="checkbox"/> Soils (include type e.g., clay, sand, loam, etc., if known):			
<input type="checkbox"/> Air			
<input type="checkbox"/> Other (explain):			

Extent of Injuries, if any:

Was anyone Hospitalized?

- ☐ Yes, Number Hospitalized:
☐ No

Describe the incident, the type of equipment involved in the release, how the volume of loss was determined, along with any resulting environmental damage caused by the release. Identify who immediately responded to the incident and who did further cleanup activities (Company employees or contractors – include cleanup company name, contact person, and telephone number).

Estimated quantity of any recovered materials and description of how those materials were managed (include disposal method if applicable.)

Associated Health Risks and Precautions:

Regulatory Agency/Company Notifications (Contacted if conducted by telephone only)	Time (Contacted)	Date (Contacted)	Reason/Contacted	By Whom
<input type="checkbox"/> National Response Center (NRC) 800-424-8802 Case No.:				
<input type="checkbox"/> State Response Line Phone : ID No.:				
<input type="checkbox"/> State Emergency Response Commission (SERC) Phone:				
<input type="checkbox"/> Local Emergency Planning Committee (LEPC) Phone:				
<input type="checkbox"/> Wastewater Treatment Plant Authority Phone:				
<input type="checkbox"/> EQ Approved Emergency Response Firms Name: Phone: Name: Phone: Name: Phone:				
<input type="checkbox"/> QEHS Department Scott Maris 734-740-3380 Steve Haton 734-576-0113 Other:				
<input type="checkbox"/> Corporate Communications Manager Bob Doyle 734-576-0480				
<input type="checkbox"/> Other				

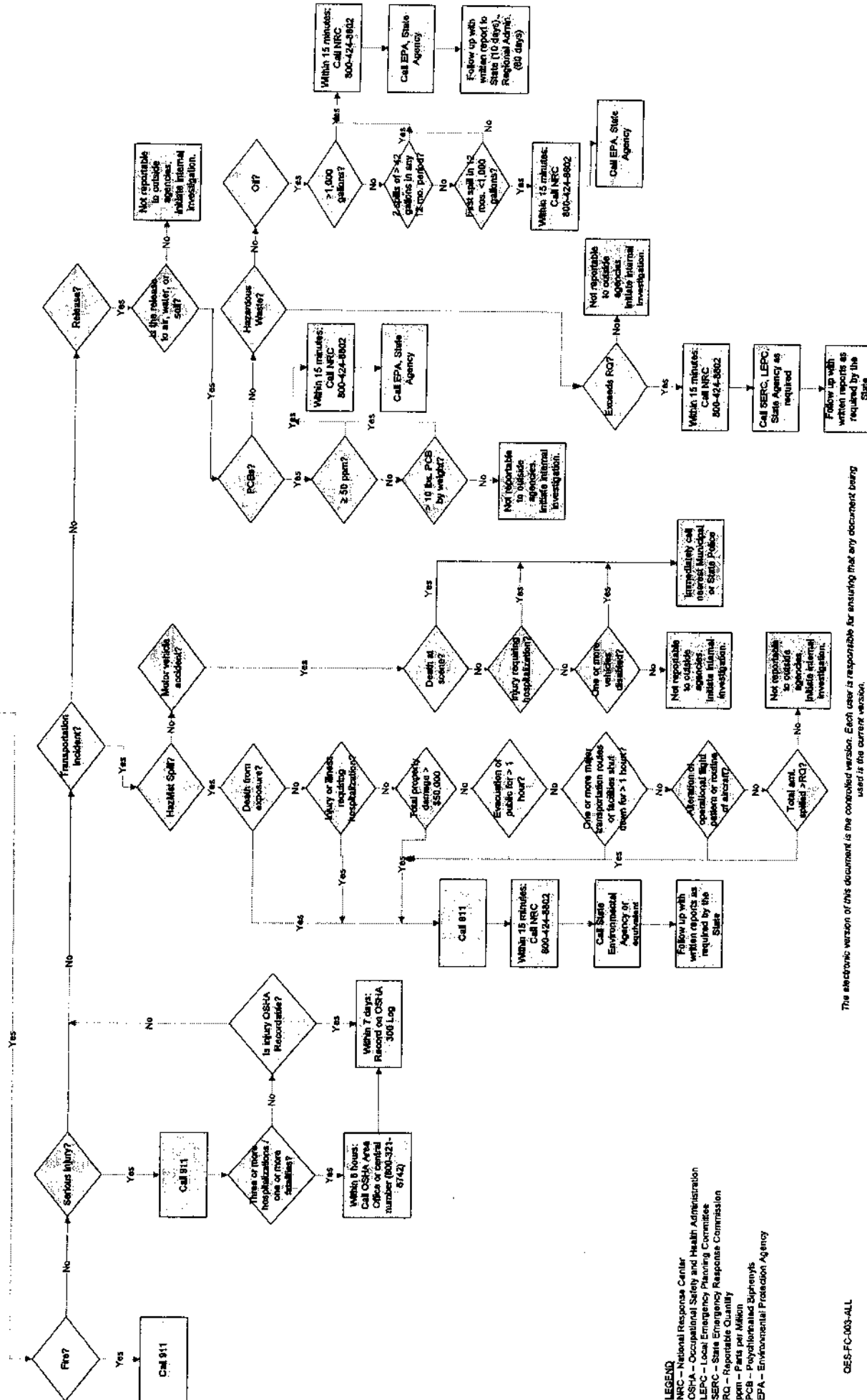


INCIDENT COMMANDER CHECKLIST

Incident Commander:		Date:	Time:
Safety Officer:		Phone:	
Emergency Response Team Leader:		Phone:	
<input type="checkbox"/> 1. Gather Information			
<input type="checkbox"/> a. Location of incident:			
<input type="checkbox"/> b. Person reporting incident:			
<input type="checkbox"/> c. Phone number:			
<input type="checkbox"/> d. Material involved:			
<input type="checkbox"/> e. Victims: Number Injured: Number Contaminated:			
<input type="checkbox"/> f. Actions Taken:			
<input type="checkbox"/> g. Remind person reporting incident – stay upwind, uphill, and cordon off area			
<input type="checkbox"/> 2. Actions			
<input type="checkbox"/> a. Evaluate Emergency – Outside responders vs. In-house			
<input type="checkbox"/> b. Evacuate – Full vs. Partial			
<input type="checkbox"/> c. Secure area			
<input type="checkbox"/> d. Render First Aid – Self Decon / Emergency Decon			
<input type="checkbox"/> e. Establish Safety Officer			
<input type="checkbox"/> f. Defense measures (e.g., dikes, dams, shut off equipment if safe to do so)			
<input type="checkbox"/> g. Create Command Post			
<input type="checkbox"/> h. Conduct headcount at rally points			
<input type="checkbox"/> 3. Notifications			
<input type="checkbox"/> a. 911 if external responders needed.			
<input type="checkbox"/> b. Internal notifications (<i>follow notification flowchart</i>):			
<input type="checkbox"/> Director of Operations / General Manager			
<input type="checkbox"/> QEHS Manager			
<input type="checkbox"/> Corporate Communications Manager			
<input type="checkbox"/> Regulatory: NRC, SERC, LEPC, State Agencies, etc.			
<input type="checkbox"/> c. Activate Emergency Response Team			
<input type="checkbox"/> d. Meet Fire Department at Command Post			
<input type="checkbox"/> Provide Fire Dept. with current conditions / information			

GENERAL NOTIFICATION REQUIREMENTS

Incident



LEGEND
 NRC - National Response Center
 OSHA - Occupational Safety and Health Administration
 LEPC - Local Emergency Planning Committee
 SERC - State Emergency Response Commission
 RC - Reportable Quantity
 ppm - Parts per Million
 PCB - Polychlorinated Biphenyls
 EPA - Environmental Protection Agency

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OES-FC-003-ALL

9/5/08

Appendix E: Forms and Checklists

Attached:

- Emergency Preparedness Drawing Checklist (QES-FM-132-ALL)
- Bomb Threat Checklist (QES-FM-136-ALL)
- Assault / Threat Report (QES-FM-137-ALL)
- Spill Kit Checklist (QES-FM-135-ALL)
- Emergency Shut Down Checklist (QES-FM-138-ALL)



EMERGENCY PREPAREDNESS DRAWING CHECKLIST

EQ Location:

Assessor:

Date:

An emergency preparedness drawing is required for all EQ locations. This checklist may be used as a tool for developing the drawing.

Does the drawing show the following:	Yes	NO	N/A
Locations of fire extinguishers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency egress routes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency showers / eyewashes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assembly areas (rally points)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High voltage / primary electrical disconnects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spill kits / supplies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AED locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire hydrants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire department connections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First aid kits / supplies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MSDS stations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manholes / sewers / catch basins / blind sumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire alarm pull stations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical rooms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SCBAs (5-minute escape air packs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gas Main	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Furnace	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overhead lines / piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heated equipment (tanks, boilers, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS:



BOMB THREAT CHECKLIST

Name:

EQ Location:

Date:

The person receiving the threat should keep the caller on the line as long as possible in order to obtain information that will help the police.

Information to Attempt to Obtain from the Caller

When will the bomb explode?	Where is it located?	What does it look like?	What type of bomb is it?
What will cause it to explode?	Did you place the bomb?	Why?	Are there any others?
Where are you?	What is your name?	Anything else?	

Message (try to capture exact wording of the threat)

Caller's Voice

<input type="checkbox"/> Male	<input type="checkbox"/> Female	<input type="checkbox"/> Rapid	<input type="checkbox"/> Foul Mouthed	<input type="checkbox"/> Raspy	<input type="checkbox"/> Foreign
Approximate Age:	<input type="checkbox"/> Soft	<input type="checkbox"/> Slurred	<input type="checkbox"/> Deep	<input type="checkbox"/> Familiar	
<input type="checkbox"/> Angry	<input type="checkbox"/> Loud	<input type="checkbox"/> Incoherent	<input type="checkbox"/> Ragged	<input type="checkbox"/> Disguised	
<input type="checkbox"/> Calm	<input type="checkbox"/> Irrational	<input type="checkbox"/> Nasal	<input type="checkbox"/> Clearing Throat	<input type="checkbox"/> Taped Message	
<input type="checkbox"/> Excited	<input type="checkbox"/> Laughing	<input type="checkbox"/> Stutter	<input type="checkbox"/> Deep Breathing	<input type="checkbox"/> Statement was read	
<input type="checkbox"/> Slow	<input type="checkbox"/> Crying	<input type="checkbox"/> Lisp	<input type="checkbox"/> Cracking Voice	<input type="checkbox"/>	

Background Noises

<input type="checkbox"/> Street (Cars, etc.)	<input type="checkbox"/> Music	<input type="checkbox"/> Machinery	<input type="checkbox"/> Local Call	Other:
<input type="checkbox"/> Airplane	<input type="checkbox"/> Household (TV, Dishwasher)	<input type="checkbox"/> Animal Noises	<input type="checkbox"/> Long Distance	Other:
<input type="checkbox"/> Other Voices	<input type="checkbox"/> Motor (Fan, Air Conditioner)	<input type="checkbox"/> Phone Booth	<input type="checkbox"/> Deep Breathing	Other:
<input type="checkbox"/> PA System	<input type="checkbox"/> Office (Copier, Fax)	<input type="checkbox"/> Static	Other:	Other:

1. Immediately after contact with the caller has ended, the person receiving the call should notify his/her supervisor and the Emergency Coordinator. If at all possible, this notification should take place during the phone call by attracting the attention of another employee and relaying as much information as possible while the caller is still on the line.
2. The Emergency Coordinator will call 911.
3. Follow Police instructions.



ASSAULT/THREAT REPORT

EMPLOYEE

Employee Name:	Job Title:
Work Office Address (street, city, state, zip)	Telephone: Work: Home:
Manager's Name:	Telephone:

INCIDENT

Name of Assaulter/Threatener:	Is she/he an employee? <input type="checkbox"/> yes <input type="checkbox"/> no
Date of Assault/Threat:	Location of Assault/Threat:
Assault/Threat was from: <input type="checkbox"/> Personal Confrontation <input type="checkbox"/> Telephone Conversation <input type="checkbox"/> Other Please Explain:	
Were there witnesses? <input type="checkbox"/> yes <input type="checkbox"/> no If yes, how many? Provide information below and attach their statements. (Determine if witnesses prefer to remain anonymous due to the concern of retaliation by the aggressor.)	

WITNESSES (If additional Witnesses, provide information on attached sheet of paper.)

Witness 1-Name:	Telephone: Work: Home:
Address (street, city, state, zip):	Witness Role (i.e. employee, customer, etc.)
Witness 2-Name:	Telephone: Work: Home:
Address (street, city, state, zip):	Witness Role (i.e. employee, customer, etc.)

IF ASSAULTED

1. What started the assault?
2. What did the assaulter say when you were assaulted?
3. What was used to hit/strike/injure you?
4. What injuries did you sustain? Was medical treatment necessary?
5. How did the assault end?
6. How did you leave the assault site?

IF THREATENED

1. As closely as possible, what were the exact words used?

2. Was the Threatener in a position to carry out the threat immediately?

3. How serious do you believe the threat was and why?

EMPLOYEE RELATED ACTIONS

1. What actions were taken by the employee? (e.g. filed workers compensation, obtained medical treatment, used sick leave/vacation, etc.)

2. What specific actions from Employer does employee request related to assault/threat? If none, so indicate.

LAW ENFORCEMENT INFORMATION (Manager, Employee, etc. Attach copy of police report when possible.)

Law Enforcement Agency Contacted: Name of Person/Officer Helping: Date Contacted: Telephone Number:

Was a written report completed? ☐ yes ☐ no What action was promised?

MANAGER ACTIONS

Directions given to Employee (i.e. go home, go to hospital, etc.)

Manager Recommendation: ☐ Prosecution ☐ Restraining Order ☐ Letter to Threatener ☐ Other, please specify:

LEGAL COUNSEL ACTION(S)

Actions Taken:

NOTIFICATION DATES

Received:	Employee Notified of Chosen Action: <input type="checkbox"/> Yes <input type="checkbox"/> No	Health & Safety Officer Notified: <input type="checkbox"/> Yes <input type="checkbox"/> No
Division Management Notified: <input type="checkbox"/> Yes <input type="checkbox"/> No	EAP Officer Notified: <input type="checkbox"/> Yes <input type="checkbox"/> No	Was Employee and Management notified of other options that can be pursued personally? <input type="checkbox"/> Yes <input type="checkbox"/> No



SPILL KIT CHECKLIST

Spill Kit Number / Location:

Assessor:

Date:

The following are suggested items to be included in a spill kit. Additional items may be added to reflect the needs of the facility, department, process, etc. This list may be kept with each spill kit to use for inspection and inventory purposes.

Equipment:

	Yes	NO	N/A
1 Overpack (85 gal) drum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Plastic liners (garbage bags may be sufficient)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 Explosion-proof flashlight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 Floor sign (e.g. "Slippery When Wet", "Danger Keep Out", or equivalent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 roll Caution Tape	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spill pillows, booms, pads, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 Squeegee, Floor Size (18" head)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 Polypropylene Broom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 Plastic Shovel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 Dust Pan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biohazard waste disposal bags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 roll pH paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 bag clay absorbent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous Waste Labels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drain Cover(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 NIOSH Guidebook	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 DOT Emergency Response Guidebook	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PPE:

	Yes	NO	N/A
4 TYVEK Suits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 pairs Disposable Polyethylene Booties	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 pairs Nitrile Gloves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 pairs Disposable Polyethylene Gloves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 pairs Chemical Splash Goggles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Face Shields	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS:

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Emergency Shutdown Checklist

During an emergency, some facilities may require designated employees remain behind briefly to operate fire extinguishers or shut down gas and/or electrical systems and other special equipment that could be damaged if left operating or create additional hazards to emergency responders, or cause a release of hazardous materials. If any employees will stay behind, an emergency shutdown plan must be developed and should describe in detail the procedures to be followed by these employees. This checklist may be used as a tool for developing the emergency shutdown plan.

Does your plan have provisions for:

- | | |
|--------------------------|--|
| <input type="checkbox"/> | Indicating under what conditions shutdown must occur or be considered? |
| <input type="checkbox"/> | Identifying who will make the decision to shut down equipment, utilities, or the facility? |
| <input type="checkbox"/> | Specifying who is responsible for carrying out shutdown? Assigning specific roles for equipment and utility (e.g., gas, water) shutoffs, and for checking automatic shutoffs (and for doing it manually if the automatic system fails)? Identifying who is to be equipment shutoff backup? Requiring report of shutdown completion to the Emergency Coordinator? |
| <input type="checkbox"/> | Establishing prearranged order or signal to initiate shutdown procedures appropriate for the impending hazard? |
| <input type="checkbox"/> | A complete checklist for emergency shutdown? |
| <input type="checkbox"/> | Diagrams to show where to turn everything off? |
| <input type="checkbox"/> | Posting shutdown instructions on or near control panels, valves, switches, and operating mechanisms of each critical piece of equipment? |
| <input type="checkbox"/> | Instructing and training personnel to implement emergency shutdown procedures? |
| <input type="checkbox"/> | Designating personnel to close doors and windows, tie down loose equipment, move equipment, supplies, and hazardous material to a sheltered area, and barricade windows and doors as circumstance requires and time allows? |
| <input type="checkbox"/> | Assigning personnel to stand by firefighting equipment to be ready to extinguish incipient fires? |
| <input type="checkbox"/> | Identifying and protecting valuable and sensitive tools, instruments, machinery, and materials? |
| <input type="checkbox"/> | Protecting equipment and hazardous materials stored outside by banding tiedown, moving critical or valuable items to inside storage, or moving mobile equipment to high ground or to protected sides of buildings, as circumstance requires and time allows? |
| <input type="checkbox"/> | Establishing damage assessment and control techniques to minimize property loss during a disaster? |
| <input type="checkbox"/> | Testing shutdown procedures for utility services and equipment by department managers? |
| <input type="checkbox"/> | Indicating under what conditions it would be safe to complete shutdown before ordering general evacuation? |
| <input type="checkbox"/> | Indicating under what conditions it would be safe to complete shutdown after ordering general evacuation? Assigning personnel to remain after an evacuation to perform critical shutdown activities and training them to recognize when to abandon the task and evacuate before their egress path is blocked? |

COMMENTS:

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Region 4: Southeast

Last updated on 4/30/2013

You are here: [EPA Home](#) [Region 4](#) Hurricane Reminders for Facilities

As Hurricane Season Begins: A Reminder to Minimize Process Shutdown Related Releases and to Report Releases In a Timely Manner

MORE INFORMATION

Introduction

The onset of a hurricane is predictable and, as a result, lends itself to early preparations for minimizing its effect on a facility. Before hurricane force winds and associated storm surge flooding can damage industrial processes and cause uncontrolled releases of hazardous chemicals, owners/operators typically take prudent preventive action by safely shutting down processes (i.e., de-energize or isolate process equipment) or otherwise operate under emergency operations procedures, as was widely performed in preparations for Hurricane Katrina.

For complex industrial processes, shutdown operations require special care beyond normal operations. Process shutdown often involves numerous simultaneous activities and rapidly changing process conditions. Normally automated systems or process controls may be bypassed, disconnected, or under manual control. Of particular concern are the hazards associated with the additional human/process interactions required during shutdown operations, as process parameters may be in unusual ranges and operators may have less experience controlling plant conditions during a shutdown.

EPA reminds owners/operators that various laws and regulations require that they minimize chemical releases during process shutdown operations; and if reportable releases occur, they must be reported immediately upon constructive knowledge of occurrence.

Release Minimization Requirements

The Clean Air Act (CAA) Section 112(r)(1), 42 U.S.C. 7412(r)(1), establishes that owners/operators have a general duty to prevent accidental releases of certain listed substances and other extremely hazardous substances and to minimize the consequences of accidental releases which do occur (see 40 C.F.R. Section 68.130 for the list of substances). This duty involves assessing the potential hazards of such releases, designing and maintaining a safe facility, and taking such steps as are necessary to prevent accidental releases and minimize their consequences.

Also, facilities subject to the national emission standards for hazardous air pollutants general duty clause, 40 C.F.R. Section 63.6 (e)(1)(i), are required at all times, including periods of startup, shutdown and malfunction, to operate and maintain any affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions of hazardous air pollutants.

Reporting Requirements

Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended, 42 U.S.C. 9603 et seq, requires facilities to immediately notify the National Response Center (NRC) of any release of a hazardous substance in an amount equal to or greater than the reportable quantity (RQ) for that substance.

Section 304 of the Emergency Planning and Community Right-to-Know Act (EPCRA) also requires owners/operators to immediately notify both their respective State Emergency Response Commissions (SERCs) and Local Emergency Planning Committees (LEPCs) whenever their facility has released an RQ of a CERCLA hazardous substance or an EPCRA extremely hazardous substance (EHS).

Federally Permitted Releases to Air

The federally permitted release exemption for RQ reporting requirements may apply to certain air emissions when such emissions are subject to a permit or control regulation issued pursuant to the CAA Sections 111 and 112, Title I part C, Title I part D or Section 110 State Implementation Plans.

CAA permit limits and control regulations usually do not control or limit unanticipated releases such as accidents or malfunctions. For that reason, such releases generally do not qualify for the CERCLA Section 101(10)(H) federally

Prepare for a hurricane before it strikes

Recover from a hurricane

Information from other agencies:

- Before a Hurricane and During a hurricane - FEMA
- Hurricane preparedness - Red Cross
- Prepare for a hurricane - ready.gov
- Hurricane Prediction Center
- Weather Service

Stationary sources subject to a CAA regulation that limits their total annual emissions should generally report their RQ releases that are caused by accidents, malfunctions, un-anticipated releases and other releases that are not part of the facility's normal operations.

Additionally, if a release of a hazardous substance is not subject to CAA emission limits or other emission controls during the startup or shutdown of an operation, then such uncontrolled release usually does not qualify for the federally permitted release exemption and the owner/operator normally would have to comply with CERCLA and EPCRA notification requirements.

In all cases, each facility is responsible for determining whether its releases in excess of an RQ qualify for the federally permitted notification exemption.

Continuous Releases

Continuous release reporting refers to the provisions under CERCLA Section 103 (f)(2) which allows certain facilities the qualified exemption of RQ release notification requirements. In general, a continuous release is a release that is "stable in quantity and rate" (e.g., occurs without interruption or abatement, or that is routine, anticipated, and intermittent and incidental to normal operations or treatment processes). Shutdown operations associated with hazardous weather conditions normally would be considered random, non-routine events. Thus, RQ releases caused by hazardous weather induced process shutdown operations typically cannot be reported as amendments/updates to prior continuous release reports.

Operate Safely and Report Timely

Owners/operators should at all times operate and maintain safe facilities. EPA encourages all industry sectors to review their operational events during shutdown operations related to previous hazardous weather events, and make appropriate administrative/procedural, operational/process equipment and hardware/software safety improvements.

On a continuous basis, emergency contact information should be updated and reported to LEPCs for local response purposes. As well, to enhance federal response effectiveness, stationary sources subject to the CAA Section 112 (r)(7) Risk Management Program should continuously update and report current emergency contact information in section 1.8 of their Risk Management Plans [40 C.F.R. Section 68.160(a)(6)]. Also, owners/operators should consider the operability issues for land based or cell phone services during hazardous weather events. If the probability of operational failure is high, emergency contact numbers should be satellite service based.

Facilities that experience process shutdown-related or hazardous weather-induced releases, spills or discharges into the environment should contact the NRC, and appropriate SERC and LEPC, immediately upon having constructive knowledge that such releases, spills or discharges exceed applicable reportable quantities.

The NRC serves as the Federal Government's point of contact for reporting all oil, chemical, radiological and biological releases in the United States. The NRC operates continuously and can be contacted at (800) 424-8802 or (202) 267-2675.

The NRC notifies EPA's response personnel of release reports. This information is critical to EPA's ability to coordinate with SERCs and LEPCs; and determine what actions are necessary, if any, to protect human health and the environment.

This Alert does not constitute a release or waiver of federal or state regulatory requirements, whether required by statute, regulation or permit, that otherwise applies to operational or shutdown procedures.

[Top of page](#)

EQ Florida, Inc

SUPPLEMENTAL EMERGENCY AND SAFETY EQUIPMENT

1. Hand-Held blow Horns (3)
2. Telephones (2)
3. Emergency Lights (4)
4. Pull alarms (6)
5. Fire Extinguishers (6)
6. Emergency Exits (6)
7. Containment sumps (5)
8. Spill Kits (Acid, Alkaline, Solvent) (1 each)
9. Fire Hoses (3)
10. Safety Equipment Cabinets (2)
11. UV Smoke and Flame Detectors (6)
12. Heat Sensors (2)
13. LEL Sensors (2)
14. LEL Meter (1)
15. SCBA Respirator (1)
16. Eye Washes (2)
17. Safety Shower (1)
18. Sprinkler Systems (2)
19. Foam System (1)
20. Intrusion Alarm System (1)
21. Fire Alarm System (1)

(Supplemental emergency and safety equipment which may not be referenced in the PPP/CP)



EQ - THE ENVIRONMENTAL QUALITY COMPANY

STANDARD OPERATING PROCEDURE (FL)

Document Number:	LAB-OP-012-FLA	Issue Date:	12/6/07
Author:	Stuart Stapleton	Revision Date:	
Job Title:	EHS Manager	Department:	LAB

TITLE: Hazcat Procedures

PURPOSE: To properly and safely identify hazard class information on unknown chemicals.

SCOPE: This procedure applies to EQ Florida offices and jobsites.

RESPONSIBILITIES:

Plant Manager:

The Plant Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Plant Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

QEHS Manager:

The QEHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

PROCEDURE:

1.0 pH Test

- 1.1 Introduce a drop of sample onto a pH strip
- 1.2 Compare to the pH chart to obtain the unknown.

2.0 Oxidizer Test

- 2.1 Wet a Potassium Iodide starch paper with one drop of 3N HCl
- 2.2 Add one drop of the sample onto the starch paper.

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- 2.3 If the paper turns **purple-black**, oxidizer is present.
- 3.0 Sulfide Test
- 3.1 Wet a Lead Acetate starch paper with one drop of 1:1 HCl
- 3.2 Add one drop of the sample onto the starch paper.
- 3.3 If the paper turns **brown- black**, sulfide is present
- 4.0 Cyanide Test
- 4.1 Place 5 drops of sample into a small test tube.
- 4.2 Add 5 drops of CN Reagent #1.
- 4.3 Add 5 drops of CN Reagent #2.
- 4.4 Add 5 drops of CN Reagent #3.
- 4.5 Gently, shake the test tube and let it stand for 10 seconds.
- 4.6 A color change to **pink or red** indicates the present of cyanide.
- 5.0 Ignition Potential (Flash Point)
- 5.1 Introduce 2 ml of sample into an aluminum disc.
- 5.2 Light up a burner or flame source and hold the flame immediately above the test sample without touching the visible flame to the sample for at least 10 seconds.
- 5.3 If the sample is ignited, the flammability is report as positive.
- 6.0 Mercury Test
- 6.1 Add few drops of sample onto aluminum disc.
- 6.2 Remove a red cap from a MercuryCheck Swabs.
- 6.3 Crush swab in center of paper sleeve.
- 6.4 Squeeze until fluid shows on tip.
- 6.5 Rub test area approximately 30 seconds.
- 6.6 If the tip turns **purple**, mercury is present.
- 7.0 Cadmium Test
- 7.1 Add few drops of sample onto aluminum disc.
- 7.2 Crush at "A" and "B" of Cadmium Check Swabs.
- 7.3 Squeeze until purple shows on tip.
- 7.4 Rub test area approximately 30 seconds.
- 7.5 If the tip turns **Peach**, Cadmium is present.
- 8.0 Silver Test
- 8.1 Obtain one silver strip from Silver Roll.

- 8.2 Immerse the reaction zones of the test strip in the solution for one second.
- 8.3 Shake off the excess liquid and compare with the color scale after 30 seconds.

9.0 Iron Test

- 9.1 Obtain one Iron strip from Iron Roll.
- 9.2 Immerse the reaction zone in the solution (1-7) for 1 sec.
- 9.3 Shake off excess liquid from the strip.
- 9.4 Wait 10 seconds, compare with the color scale, and read off result.

10.0 Chlorine Test

- 10.1 Obtain one chlorine paper from Chlorine Test Roll.
- 10.2 Dip about one inch of a test paper in the water to be tested and remove immediately.
- 10.3 The color turns purple, chlorine is present.

11.0 Peroxide Test

- 11.1 Obtain one peroxide strip from Peroxide Test Roll.
- 11.2 Immerse the reaction zone in the solution for 1 second.
- 11.3 Shake off excess liquid from the strip.
- 11.4 Compare the color scale after 15 seconds.

12.0 Solubility Test

- 12.1 Add 5 drops of sample into a test tube.
- 12.2 Add 5 drops of DI water into the same test tube.
- 12.3 Mix thoroughly and let it sit for 30 seconds.
- 12.4 If one layer formed, then it is soluble. If there is more than one layer, then the sample is not soluble in water.

13.0 Classifying DOT Classes

- 13.1 Performing a pH test on an unknown, if pH is <2.5 or >12.5, give D002 code.
- 13.2 Perform ignition Potential test, if positive then give an unknown a D001 code.
- 13.3 If negative then go on for metals test and perform all strip metals

DEFINITIONS:

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REFERENCES:**ASSOCIATED DOCUMENTS:**

RECORDS: The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which EQ adheres.